

## TITLE 39: UTILITIES

### PART IV: Mississippi Distributed Generator Interconnection and Net Metering

#### Subpart I: Mississippi Distributed Generator Interconnection Rule

##### Chapter 01: Introduction

The Mississippi Distributed Generation Interconnection Rule (MDGIR) sets forth standards to establish the technical and procedural requirements for Distributed Generator Facilities (DGFs) to be interconnected and operated in Parallel with the Electric Distribution System (EDS) owned or operated by Electric Utilities (EUs) in Mississippi under the jurisdiction of the Mississippi Public Service Commission (Commission). Capitalized terms used in this rule have the meaning specified in the section titled DEFINITIONS.

##### Chapter 02: Definitions

When used in this chapter, the following terms and phrases shall have the following meaning:

- 100 “Adverse System Impact”** means a negative effect, due to technical or operational limits on conductors or equipment being exceeded, that compromises the safety and reliability of the EDS.
- 101 “Applicable Laws and Regulations”** means all duly promulgated and 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.
- 102 “Certificate of Completion”** means a certificate in a completed form approved by the Commission containing information about the Interconnection Equipment to be used, its installation and local inspections.
- 103 “Certified Interconnection Equipment” or “Certified Equipment” or “Certified”** means a designation that the Interconnection Equipment meets the following requirements:
1. The Interconnection Equipment has been tested by a Nationally Recognized Testing Laboratory (NRTL) recognized by the United States Occupational Safety and Health Administration (OSHA) in accordance with the following relevant codes and standards:
    - a. IEEE 1547.1 Standard for Conformance Tests Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems; and
    - b. Underwriters Laboratories (“UL”), UL 1741 Inverters, Converters, and Controllers for Use in Independent Power Systems;

2. The Interconnection Equipment shall meet the requirements of the most current approved version of each code and standard listed above, as amended and supplemented at the time the Interconnection Request is submitted to be deemed Certified;
3. The Interconnection Equipment has been labeled and is publicly listed by such NRTL at the time of the interconnection application;
4. The Interconnection Customer verifies that the intended use of the Interconnection Equipment falls within the use or uses for which the Interconnection Equipment is labeled and is listed by the NRTL;
5. If the Interconnection Equipment is an integrated equipment package such as an inverter, then the Interconnection Customer shall show that the generator or other electric source being utilized is compatible with the Interconnection Equipment and is consistent with the testing and listing specified for this type of Interconnection Equipment;
6. If the Interconnection Equipment includes only interface components (switchgear, multi-function relays, or other interface devices), an Interconnection Customer shall demonstrate that the generator or other electric source being utilized is compatible with the Interconnection Equipment and is consistent with the testing and listing specified for this type of Interconnection Equipment; and
7. Certified Interconnection Equipment shall not require further design testing or Production Testing, as specified by IEEE Standard 1547 Sections 5.1 and 5.2, or additional Interconnection Equipment modification to meet the requirements. However, nothing herein shall preclude the need for an on-site Witness Test or operational test by the Interconnection Customer.

**104 “Commission”** means the Mississippi Public Service Commission.

**105 “Commissioning Tests”** means the tests applied to a DGF by an Interconnection Customer after construction is completed to verify that the DGF does not create Adverse System Impacts. At a minimum, the scope of the Commissioning Tests performed shall include the commissioning test specified by IEEE Standard 1547 section 5.4 “Commissioning Tests.”

**106 “Distributed Generator Facility” or “DGF”** means the equipment used by an Interconnection Customer to generate or store electricity that operates in Parallel with the EDS. A DGF typically includes an electric generator, prime mover, and the Interconnection Equipment required to safely interconnect with the EDS or local electric power system.

- 107 “Distribution System Upgrade”** means a required addition or modification to the EU's EDS at or beyond the Point of Common Coupling (PCC) to accommodate the interconnection of a DGF. Distribution System Upgrades do not include Interconnection Facilities.
- 108 “Electric Utility” or “EU”** means an electric public utility that distributes electricity to customers and is subject to the jurisdiction of the Commission pursuant to the provisions of Mississippi Code Annotated §§ 77-3-1, *et seq.*
- 109 “Electric Distribution System” or “EDS”** means 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 EDSs operate differ among areas but generally carry less than 69 kilovolts of electricity. EDS has the same meaning as the term Area EPS, as defined in 3.1.6.1 of IEEE Standard 1547.
- 110 “Facilities Study”** means an engineering study conducted by the EU to determine the required modifications to the EU’s EDS, including the cost and the time required to build and install such modifications as necessary to accommodate an Interconnection Request.
- 111 “Fault Current”** means the electrical current that flows through a circuit during an electrical fault condition. A fault condition occurs when one or more electrical conductors contact ground or each other. Types of faults include phase to ground, double-phase to ground, three-phase to ground, phase-to-phase, and three-phase.
- 112 “Feasibility Study”** means a study performed to identify the existence of obvious adverse impacts before additional studies are undertaken for the proposed project to continue in the process.
- 113 “Governmental Authority”** mean any federal, state, local or other governmental regulatory or administrative agency, court, commission, department, board, or 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 such term does not include the Interconnection Customer, EU or any affiliate thereof.
- 114 “IEEE Standard 1547”** means the Institute of Electrical and Electronics Engineers, Inc. (IEEE) Standard 1547 (2003) "Standard for Interconnecting Distributed Resources with Electric Power Systems," as amended and supplemented at the time the Interconnection Request is submitted.
- 115 “IEEE Standard 1547.1”** means the IEEE Standard 1547.1 (2005) "Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power

Systems," as amended and supplemented at the time the Interconnection Request is submitted.

- 116 “Interconnection Agreement” or “Agreement”** means a form of interconnection agreement approved by the Commission which is applicable to Interconnection Requests pertaining to DGFs. The agreement between the Interconnection Customer and the EU governs the connection of the DGF to the EU’s EDS, as well as the ongoing operation of the DGF after it is connected to the EU’s EDS.
- 117 “Interconnection Application” or “Application”** means a form of interconnection application approved by the Commission which is applicable to Interconnection Requests pertaining to DGFs. This application provides the information needed by the EU to review the request for interconnection. For the Level 1 review process, the Application and Agreement are part of the same document.
- 118 “Interconnection Customer”** means an entity that submits an Interconnection Request for a DGF to an EU's EDS.
- 119 “Interconnection Equipment”** means a group of equipment, components, or an integrated system connecting an electric generator with a local electric power system or an EDS 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.
- 120 “Interconnection Facilities”** means facilities and equipment required by the EU to accommodate the interconnection of a DGF. Collectively, Interconnection Facilities include all facilities and equipment between the DGF and the PCC, including modification, additions, or upgrades that are necessary to physically and electrically interconnect the DGF to the EDS. Interconnection facilities are sole use facilities and do not include Distribution System Upgrades.
- 121 “Interconnection Request”** means an Interconnection Customer's request, in the form of an Application approved by the Commission, requesting the interconnection of a new DGF, or to increase the capacity or modify operating characteristics of an existing approved DGF that is interconnected with the EU's EDS.
- 122 “Line Section”** means that portion of an EU's distribution system connected to an Interconnection Customer, bounded by automatic sectionalizing devices or the end of the distribution line.
- 123 “Local Electric Power System” or “Local EPS”** means facilities that deliver electric power to a load that are contained entirely within a single premises or group of premises. Local electric power system has the same meaning as the term local electric power system defined in 3.1.6.2 of IEEE Standard 1547.

- 124 “Minor Equipment Modification”** means changes to the DGF that do not have a material impact on safety or reliability of the EDS.
- 125 “Mississippi Distributed Generation Interconnection Rule (MDGIR)”** means the most current version of the procedures for interconnecting Distributed Generator Facilities adopted by the Mississippi Public Service Commission.
- 126 “Nameplate Capacity”** means the maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer and is usually indicated on a nameplate physically attached to the power production equipment.
- 127 “Nationally Recognized Testing Laboratory” or “NRTL”** means a qualified private organization that meets the requirements of the Occupational Safety and Health Administration's (OSHA) regulations. NRTLs perform independent safety testing and product certification. Each NRTL shall meet the requirements as set forth by OSHA in the NRTL program.
- 128 “Parallel Operation” or “Parallel”** means the sustained state of operation over 100 milliseconds, which occurs when a DGF is connected electrically to the EDS and thus has the ability for electricity to flow from the DGF to the EDS.
- 129 “Point of Common Coupling” or “PCC”** means the point where the DGF is electrically connected to the EDS. Point of common coupling has the same meaning as defined in 3.1.13 of IEEE Standard 1547.
- 130 “Primary Line”** means a distribution line rated at greater than 600 volts.
- 131 “Production Test”** means production test as defined in IEEE Standard 1547.
- 132 “Queue Position”** means the order of a valid Interconnection Request, relative to all other pending valid Interconnection Requests, that is established based upon the date and time of receipt of the valid Interconnection Request by the EU.
- 133 “Radial Distribution Circuit”** means a circuit configuration where independent feeders branch out radially from a common source of supply. From the standpoint of a utility system, the area described is between the generating source or intervening substations and the customer’s entrance equipment. A radial distribution system is the most common type of connection between a utility and load in which power flows in one direction from the utility to the load.
- 134 “Scoping Meeting”** means a meeting between representatives of the Interconnection Customer and EU conducted for the purpose of discussing alternative interconnection options, exchanging information including any EDS data and earlier study evaluations that would be reasonably expected to impact interconnection options, analyzing information, and determining the potential feasible points of interconnection.

- 135 “Secondary Line”** means a service line subsequent to the Primary Line that is rated for 600 volts or less, also referred to as the customer’s service line.
- 136 “System Impact Study”** means a study that identifies the electric system impacts that would result if the proposed DGF were interconnected without DGF modifications or EDS modifications, focusing on the Adverse System Impacts identified in the Feasibility Study.
- 137 “UL Standard 1741”** means Underwriters Laboratories' standard titled "Inverters Converters, and Controllers for Use in Independent Power Systems,” as amended and supplemented at the time the Interconnection Request is submitted.
- 138 “Witness Test”** means verification (through on-site observation) by the EU that the 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 Certified, the Witness Test shall also include the verification by the EU of the on-site design tests as required by IEEE Standard 1547 Section 5.1 and verification by the EU of Production Tests required by IEEE Standard 1547 Section 5.2. All tests verified by the EU are to be performed in accordance with the applicable test procedures specified by IEEE Standard 1547.1.

### **Chapter 03: INTERCONNECTION REQUESTS, FEES, AND FORMS**

- 100** Interconnection Customers seeking to interconnect a DGF shall submit an Interconnection Request to the EU that owns the EDS to which interconnection is sought, using an application approved by the Commission. Electronic versions of such Commission-proved Application forms shall be posted on the EU’s website. The EU shall establish processes for accepting Interconnection Requests electronically.
- 101** When an Interconnection Customer is not currently a customer of the EU at the proposed PCC, upon request from the EU, the Interconnection Customer shall provide proof of site control evidenced by a property tax bill, deed, lease agreement, or other legally binding contract.
- 102** Interconnection fees shall be governed as follows for all Interconnection Requests and shall be published on each EU’s website:
1. An EU may not charge an application, or other fee, to an applicant that requests Level 1 interconnection review. However, if an application for Level 1 interconnection review is denied because it does not meet the requirements for Level 1 interconnection review and the applicant resubmits the application under another review procedure in accordance with the MDGIR, the EU may impose a fee for the resubmitted application, consistent with this section.

2. For a Level 2 interconnection review, the EU may charge fees of up to \$50.00 plus \$1.00 per kilowatt of the customer-generator facility's capacity, plus the reasonable cost of any required minor modifications to the electric distribution system or additional review. Costs for such minor modifications or additional review will be based on the EU's non-binding, good faith estimates and the ultimate actual installed costs. Costs for engineering work done as part of any additional review will not exceed \$100.00 per hour.
3. For a Level 3 interconnection review, the EU may charge fees of up to \$100.00 plus \$2.00 per kilowatt of the customer-generator facility's capacity, as well as charges for actual time spent on any required impact or facilities studies. Costs for engineering work done as part of an impact study or interconnection facilities study will not exceed \$100.00 per hour. If the EU must install facilities in order to accommodate the interconnection of the customer generating facility, the cost of such facilities will be the responsibility of the applicant.

**103** When the EU determines that an Interconnection Request is complete, a modification of DGF design by the Interconnection Customer other than a Minor Equipment Modification that is not agreed to in writing by the EU shall require submission of a new Interconnection Request.

#### **Chapter 04: INTERCONNECTION REVIEW LEVELS**

**100** The EU shall review Interconnection Requests using one of the three levels of review procedures established below. The EU shall first use the level of DGF Agreement specified by the Interconnection Customer in the Application. The EU may not impose additional requirements not specifically authorized unless the EU and the Interconnection Customer mutually agree to do so in writing.

**101** When an Interconnection Request is for an increase in capacity for an existing DGF, the Interconnection Request shall be evaluated on the basis of the new total Nameplate Capacity of the DGF.

**102** When an Interconnection Request is for a DGF that includes multiple energy production devices at a site for which the Interconnection Customer seeks a single PCC, the Interconnection Request shall be evaluated on the basis of the aggregate Nameplate Capacity of the multiple devices.

#### **Chapter 05: LEVEL 1 INTERCONNECTION REVIEWS**

**100** The EU shall use Level 1 review procedures to evaluate Interconnection Requests when:

1. The DGF is inverter-based;
2. The DGF has a Nameplate Capacity of 20 kW or less; and

3. The Interconnection Equipment proposed for the DGF is Certified.

**101** For Level 1 Interconnection Review, the EU shall first evaluate the potential for Adverse System Impacts using the following screens, which must be satisfied:

1. For interconnection of a proposed DGF to a Line Section on a Radial Distribution Circuit, the aggregated generation on the Line Section, including the proposed DGF, shall not exceed 15% of the Line Section annual peak load.
2. When a proposed DGF is to be interconnected to a single-phase shared Secondary Line, the aggregate generation capacity on the shared Secondary Line, including the proposed DGF, may not exceed 20 kW.
3. When a proposed DGF is single-phase and is to be interconnected to a center tap neutral of a 240 volt service, its addition may not create an imbalance between the two sides of the 240 volt service of more than 20% of the nameplate rating of the service transformer.
4. Construction of facilities by the EU on its own system is not required to accommodate the DGF.

**102** The Level 1 Interconnection Review shall then be conducted in accordance with the following procedures:

1. An EU shall, within 10 business days after receipt of the Interconnection Request, inform the Interconnection Customer in writing or by electronic mail that the Interconnection Request is complete or incomplete and indicate what, if any, materials are missing.
2. When an Interconnection Request is complete, the EU shall assign a Queue Position.
3. The EU shall, within 15 business days after notifying a Level 1 applicant that the application is complete, indicate that the DGF equipment meets all Level 1 criteria, verify the DG can be interconnected safely and reliably using Level 1 screens, and provide a conditionally approved Level 1 Interconnection Application Form and Agreement to the Interconnection Customer.

**103** Unless the EU determines and demonstrates to the Interconnection Customer that a DGF cannot be interconnected safely or reliably to its system and provides a letter to the Interconnection Customer explaining its reasons for denying an Interconnection Request, the EU's final approval of the Interconnection Agreement is subject to the following conditions:

1. The DGF has been approved by local or municipal electric code officials with jurisdiction over the interconnection;



2. The EU has received the required information on the Certificate of Completion from the Interconnection Customer. Completion of local inspections may be designated on inspection forms used by local inspecting authorities; and
  3. The EU has completed its Witness Test in accordance with the MDGIR.
- 104** Within 10 business days of the estimated commissioning date indicated on the Interconnection Request, the EU shall, upon reasonable notice and at a mutually convenient time, conduct a Witness Test of the DGF to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with applicable codes.
- 105** When a DGF is not approved under a Level 1 review, the Interconnection Customer may submit a new Interconnection Request for consideration under Level 2 or Level 3 procedures.

#### **Chapter 06: LEVEL 2 INTERCONNECTION REVIEWS**

- 100** The EU shall use the Level 2 Interconnection Review procedure to evaluate an Interconnection Request when:
1. The DGF has a Nameplate Capacity rating of 2 MW or less;
  2. The Interconnection Equipment proposed for the DGF is Certified; and
  3. The aggregated total of the Nameplate Capacity of all of the generators on the circuit, including the proposed DGF, is 2 MW or less.
- 101** No construction of facilities by an EU shall be required to accommodate the DGF, except as permitted by an additional review for minimal modifications of the EDS, as described in these Level 2 procedures.
- 102** For Level 2 Interconnection Review, the EU first shall evaluate the potential for Adverse System Impacts using the following screens, which must be satisfied:
1. For interconnection of a proposed DGF to a radial distribution circuit, the aggregated generation on the Line Section, including the proposed DGF, may not exceed 15% of the Line Section annual peak load.
  2. The proposed DGF, in aggregation with other generation on the distribution circuit, may not contribute more than 10% to the distribution circuit's maximum Fault Current at the point on the Primary Line nearest the Point of Common Coupling (PCC).

3. The proposed DGF, in aggregate with other generation on the distribution circuit, may not cause any distribution protective devices and equipment (including substation breakers, fuse cutouts, and line reclosers), or other customer equipment on the EDS to be exposed to Fault Currents exceeding 87.5% of the short circuit interrupting capability. The Interconnection Request may not receive approval for interconnection on a circuit that already exceeds 87.5% of the short circuit interrupting capability.
4. When a DGF is to be connected to three-phase, three-wire primary EU distribution lines, a three-phase or single-phase generator shall be connected phase-to-phase.
5. When a DGF is to be connected to three-phase, four-wire primary EU distribution lines, a three-phase or single-phase generator shall be connected line-to-neutral and shall be effectively grounded.
6. When the proposed DGF is to be interconnected on a single-phase shared Secondary Line, the aggregate generation capacity on the shared Secondary Line, including the proposed DGF, shall not exceed 20 kW.
7. When a proposed DGF is single-phase and is to be interconnected on a center tap neutral of a 240 volt service, its addition may not create an imbalance between the two sides of the 240 volt service of more than 20% of the nameplate rating of the service transformer.
8. A DGF, in aggregate with other generation interconnected to the distribution side of a substation transformer feeding the circuit where the DGF proposes to interconnect, may not exceed 10 MW in an area where there are known or posted transient stability limitations to generating units located in the general electrical vicinity.
9. No construction of facilities by an EU on its own system shall be required to accommodate the DGF.

**103** The Level 2 Interconnection Review shall then be conducted in accordance with the following procedures:

1. An EU shall, within 10 business days after receipt of the Interconnection Request, inform the Interconnection Customer in writing or by electronic mail that the Interconnection Request is complete or incomplete and indicate what, if any, materials are missing. As part of this process, the EU shall assign a Queue Position. The Queue Position of the Interconnection Request shall be used to determine the potential Adverse System Impact of the DGF based on the relevant screening criteria. If there are higher queued Interconnection Requests on the same radial line circuit, the EU shall evaluate the Interconnection Requests by performing any Level 2 screens requiring aggregate capacity calculations and

determine if the DGF in combination with the higher queued Interconnection Requests exceeds any of the aggregate capacity requirements. If an aggregate capacity requirement is exceeded, the EU shall notify the Interconnection Customer and shall not be obligated to meet the timeline for reviewing the Interconnection Request until such time as the EU has completed the review of all other Interconnection Requests that have a higher Queue Position and impact the aggregate capacity calculation that has been exceeded.

2. At the time an EU determines additional information is required to complete an evaluation, the EU shall request the information. The time necessary to complete the evaluation may be extended by mutual agreement of the parties, but only to the extent of the time required for receipt of the additional information. During an extension of time to submit additional information, the EU may not alter the Interconnection Customer's Queue Position.
3. Within 20 business days after the EU notifies the Interconnection Customer that it has received a completed Interconnection Request, the EU shall:
  - a. Evaluate the Interconnection Request using the Level 2 screening criteria;
  - b. Review any analysis provided by the Interconnection Customer, using the same criteria used by the customer; and
  - c. Provide the Interconnection Customer with the EU's evaluation, including a comparison of the results of its own analyses with those of Interconnection Customer, if applicable. When an EU does not have a record of receipt of the Interconnection Request and the Interconnection Customer can demonstrate that the original Interconnection Request was delivered, the EU shall expedite its review to complete the evaluation of the Interconnection Request within 20 business days of the Interconnection Customer's re-submittal.

**104** The EU shall provide the Interconnection Customer a DGF Interconnection Agreement within 5 business days of its determination that the Interconnection Request passes the Level 2 screening criteria.

**105** When a DGF has failed to meet one or more of the Level 2 screens, the EU shall offer to perform additional review for minimal modifications of the EDS to determine whether minimal modifications to the EDS would enable the interconnection to be made consistent with safety, reliability and power quality criteria. The EU shall provide the Interconnection Customer with a nonbinding, good faith estimate of the costs of additional review for minimal modifications of the EDS. The EU shall undertake the additional review for minimal modifications of the EDS or the modifications only after the Interconnection Customer consents to pay for the review and modifications.

- 106** If the DGF fails one or more of the Level 2 screening criteria but the EU determines that minimal modifications to the EDS would enable the DGF to interconnect safely and reliably, the EU shall provide the Interconnection Customer a DGF Interconnection Agreement within 5 business days of making that determination.
- 107** If the EU finds that the DGF cannot be interconnected with minimal modifications to the EDS, the EU shall provide the Interconnection Customer a letter explaining its reasons for denying the Interconnection Request. The Interconnection Customer may submit a new Interconnection Request for consideration under a Level 3 interconnection review.
- 108** An Interconnection Customer shall have 30 business days to sign and return the Agreement. When an Interconnection Customer does not sign the DGF Interconnection Agreement within 30 business days, the Interconnection Request shall be deemed withdrawn unless the Interconnection Customer requests in writing prior to the expiration of the 30 business day period to extend the deadline. The EU may not unreasonably deny the request for extension.
- 109** The DGF Interconnection Agreement shall not become final until:
1. The milestones agreed to in the DGF Interconnection Agreement are satisfied;
  2. The DGF is approved by electric code officials with jurisdiction over the interconnection;
  3. The Interconnection Customer provides a Certificate of Completion to the EU. Completion of local inspections may be designated on inspection forms used by local inspecting authorities; and
  4. The Witness Test was successfully completed per the terms and conditions found in the Agreement.
- 110** If the DGF is not approved under a Level 2 review, the EU shall provide the Interconnection Customer a letter explaining its reasons for denying the Interconnection Request. The Interconnection Customer may submit a new Interconnection Request for consideration under a Level 3 interconnection review. The Queue Position assigned to the Level 2 Interconnection Request shall be retained provided the request is made within 15 business days of notification that the current Interconnection Request is denied.

### **Chapter 07: LEVEL 3 INTERCONNECTION REVIEWS**

- 100** The EU shall use the Level 3 review procedure to evaluate an Interconnection Request when the Interconnection Customer requests Level 3 review.
- 101** The Level 3 review shall be conducted in accordance with the following process:

1. An EU shall, within 10 business days of receipt of an Interconnection Request, inform the Interconnection Customer in writing or by electronic means that the Interconnection Request is complete or incomplete and indicate what, if any, materials are missing.
2. When the Interconnection Request is deemed not complete, the EU shall provide the Interconnection Customer with a written list detailing information required to complete the Interconnection Request. The Interconnection Customer shall have 10 business days to provide appropriate data in order to complete the Interconnection Request, or the Interconnection Request shall be considered withdrawn. The parties may agree to extend the time for receipt of the additional information. The Interconnection Request shall be deemed complete when the required information has been provided by the Interconnection Customer, or the parties have agreed that the Interconnection Customer may provide additional information at a later time.
3. When an Interconnection Request is complete, the EU shall assign a Queue Position. The Queue Position of an Interconnection Request shall be used to determine the cost responsibility necessary for the facilities to accommodate the interconnection. The EU shall notify the Interconnection Customer about other higher-queued Interconnection Customers that have the potential to impact the cost responsibility.
4. Level 3 Scoping Meetings shall be conducted as follows:
  - a. By mutual agreement of the parties, the Scoping Meeting, interconnection Feasibility Study, interconnection System Impact Study, or interconnection Facilities Study provided for in a Level 3 review may be waived;
  - b. If agreed to by the parties, a Scoping Meeting shall be held within 10 business days, or other mutually agreed to time, after the EU has notified the Interconnection Customer that the Interconnection Request is deemed complete. The purpose of the meeting shall be to review the Interconnection Request, existing studies relevant to the Interconnection Request, and the results of the Level 1 or Level 2 screening criteria;
  - c. When the parties agree at a Scoping Meeting that an interconnection Feasibility Study shall be performed, the EU shall provide to the Interconnection Customer, no later than 5 business days after the Scoping Meeting, an interconnection Feasibility Study agreement, including an outline of the scope of the study and a nonbinding good faith estimate of the cost to perform the study;

- d. When the parties agree at a Scoping Meeting that an interconnection Feasibility Study is not required, the EU shall provide to the Interconnection Customer, no later than 5 business days after the Scoping Meeting, an interconnection System Impact Study agreement, including an outline of the scope of the study and a nonbinding good faith estimate of the cost to perform the study; and
  - e. When the parties agree at the Scoping Meeting that an interconnection Feasibility Study and System Impact Study are not required, the EU shall provide to the Interconnection Customer, no later than 5 business days after the Scoping Meeting, an interconnection Facilities Study agreement including an outline of the scope of the study and a nonbinding good faith estimate of the cost to perform the study.
5. Any required interconnection studies shall be carried out using the following guidelines:
- a. An interconnection Feasibility Study shall include the following analyses and conditions for the purpose of identifying and addressing potential Adverse System Impacts to the EU's EDS that would result from the interconnection:
  - b. Initial identification of any circuit breaker short circuit capability limits exceeded as a result of the interconnection;
  - c. Initial identification of any thermal overload or voltage limit violations resulting from the interconnection;
  - d. Initial review of grounding requirements and system protection;
  - e. Description and nonbinding estimated cost of facilities required to interconnect the DGF to the EU's EDS in a safe and reliable manner; and
  - f. Additional evaluations at the expense of the Interconnection Customer, when an Interconnection Customer requests that the interconnection Feasibility Study evaluate multiple potential points of interconnection.
6. An interconnection System Impact Study shall evaluate the impact of the proposed interconnection on both the safety and reliability of the EU's EDS. The study shall identify and detail the system impacts that result when the proposed DGF is interconnected without project or system modifications, focusing on the Adverse System Impacts identified in the interconnection Feasibility Study and potential impacts including those identified in the Scoping Meeting. The study shall consider all generating facilities that, on the date the interconnection System Impact Study is commenced, are directly interconnected with the EU's system,

have a pending higher Queue Position to interconnect to the system, and have a signed a DGF Interconnection Agreement.

- a. An interconnection System Impact Study shall be performed when the interconnection Feasibility Study identifies a potential distribution system Adverse System Impact. The EU shall send the Interconnection Customer an interconnection System Impact Study agreement within 5 business days of transmittal of the interconnection Feasibility Study report. The agreement shall include an outline of the scope of the study and a good faith estimate of the cost to perform the study. The System Impact Study shall include:
  - i. A load flow study;
  - ii. Identification of affected systems;
  - iii. An analysis of equipment interrupting ratings;
  - iv. A protection coordination study;
  - v. Voltage drop and flicker studies;
  - vi. Protection and set point coordination studies;
  - vii. Grounding reviews; and
  - viii. Impact on system operation.
- b. An interconnection System Impact Study shall consider the following criteria:
  - i. A short circuit analysis;
  - ii. A stability analysis;
  - iii. Alternatives for mitigating Adverse System Impacts on affected systems;
  - iv. Voltage drop and flicker studies;
  - v. Protection and set point coordination studies; and
  - vi. Grounding reviews.
- c. The interconnection System Impact Study shall provide the following:
  - i. The underlying assumptions of the study;
  - ii. The results of the analyses;
  - iii. A list of any potential impediments to providing the requested interconnection service;
  - iv. Required Distribution System Upgrades; and
  - v. A nonbinding good faith estimate of cost and time to construct any required Distribution System Upgrades.
- d. The parties shall use an interconnection System Impact Study agreement approved by the Commission.

7. The interconnection Facilities Study shall be conducted as follows:

- a. Within 5 business days of completion of the interconnection System Impact Study, the EU shall send a report to the Interconnection Customer with an interconnection Facilities Study agreement, which includes an outline of the scope of the study and a nonbinding good faith estimate of the cost to perform the study;
  - b. The interconnection Facilities Study shall estimate the cost of the equipment, engineering, procurement and construction work including overheads needed to implement the conclusions of the interconnection Feasibility Study and the interconnection System Impact Study to interconnect the DGF. The interconnection Facilities Study shall identify:
    - i. The electrical switching configuration of the equipment, including transformer, switchgear, meters and other station equipment;
    - ii. The nature and estimated cost of the EU's Interconnection Facilities and Distribution System Upgrades necessary to accomplish the interconnection; and
    - iii. An estimate of the time required to complete the construction and installation of the facilities;
  - c. The parties may agree to permit an Interconnection Customer to separately arrange for a third party to design and construct the required Interconnection Facilities. The EU may review the design of the facilities under the interconnection Facilities Study agreement. When the parties agree to separately arrange for design and construction and to comply with security and confidentiality requirements, the EU shall make all relevant information and required specifications available to the Interconnection Customer to permit the Interconnection Customer to obtain an independent design and cost estimate for the facilities, which shall be built in accordance with the specifications;
  - d. Upon completion of the interconnection Facilities Study, and with the agreement of the Interconnection Customer to pay for the Interconnection Facilities and Distribution System Upgrades identified in the interconnection Facilities Study, the EU shall provide the Interconnection Customer with a DGF Interconnection Agreement within 5 business days; and
8. When an EU determines, as a result of the interconnection studies conducted under a Level 3 review, that it is appropriate to interconnect the DGF, the EU shall provide the Interconnection Customer with a DGF Interconnection Agreement. If the Interconnection Request is denied, the EU shall provide a written explanation setting forth the reasons for denial;



9. An Interconnection Customer shall have 30 business days from receipt of the DGF Interconnection Agreement, unless another mutually agreeable time frame is reached, to sign and return the DGF Interconnection Agreement to the EU. If an Interconnection Customer does not sign the DGF Interconnection Agreement within 30 business days, the Interconnection Request shall be deemed withdrawn unless the Interconnection Customer requests in writing, prior to the expiration of the 30 business-day period, to extend the deadline. The EU may not unreasonably deny the request for extension. When construction is required, the interconnection of the DGF shall proceed according to milestones agreed to by the parties in the DGF Interconnection Agreement. The DGF Interconnection Agreement may not be final until:
  - a. The milestones agreed to in the DGF Interconnection Agreement are satisfied;
  - b. The DGF is approved by electric code officials with jurisdiction over the interconnection;
  - c. The Interconnection Customer provides a Certificate of Completion to the EU. Completion of local inspections may be designated on inspection forms used by local inspecting authorities; and
  - d. The Witness Test was successfully completed per the terms and conditions found in the Agreement.
- 102 An interconnection System Impact Study is not required when the interconnection Feasibility Study concludes there is no Adverse System Impact, or when the study identifies an Adverse System Impact, but the EU is able to identify a remedy without the need for an interconnection System Impact Study.
- 103 The parties shall use a form of interconnection Feasibility Study agreement approved by the Commission.

#### **Chapter 08: TECHNICAL STANDARDS**

- 100 The technical standard to be used in evaluating all Interconnection Requests under Level 1, Level 2, and Level 3 reviews, unless otherwise provided for in these procedures, is IEEE Standard 1547. IEEE 1547.2, “Application Guide for IEEE 1547 Standard for Interconnecting Distributed Resources with Electric Power Systems,” shall be used as a guide (but not a requirement) to detail and illustrate the interconnection protection requirements that are provided in IEEE 1547.

#### **Chapter 09: POINT OF COMMON COUPLING**

- 100** To minimize the cost of interconnecting multiple DGFs, the EU or the Interconnection Customer may propose a single PCC for multiple DGFs located at a single site. If the Interconnection Customer rejects the EU's proposal for a single PCC, the Interconnection Customer shall pay the additional cost, if any, of providing a separate PCC for each DGF. If the EU rejects the customer's proposal for a single PCC without providing a written technical explanation, the EU shall pay the additional cost, if any, of providing a separate PCC for each DGF.

## **Chapter 10: RECORDS AND REPORTS**

- 100** An EU shall maintain records of the following for a minimum of 3 years:
1. The total number of and the Nameplate Capacity of the Interconnection Requests received, approved and denied under Level 1, Level 2, and Level 3 reviews;
  2. The number of Interconnection Requests that were not processed within the timelines established in this rule;
  3. The number of Scoping Meetings held and the number of feasibility studies, impact studies, and facility studies performed and the fees charged for these studies;
  4. The justifications for the actions taken to deny Interconnection Requests; and
- 101** An EU shall provide a report to the Commission containing the information required in paragraphs (a)-(d) above within 90 calendar days of the close of each year.

## **Chapter 11: INFORMATION FOR PROSPECTIVE INTERCONNECTIONCUSTOMERS**

- 100** An EU shall designate a contact person and contact information on its website and for the Commission's website for submission of all Interconnection Requests and from whom information on the Interconnection Request process and the EU's EDS can be obtained regarding a proposed DGF. The information shall include studies and other materials useful to an understanding of the feasibility of interconnecting a DGF at a particular point on the EU's EDS, except to the extent that providing the materials would violate security requirements or confidentiality agreements, or otherwise would be contrary to Mississippi or federal law and regulations. In appropriate circumstances, the EU may require execution of a confidentiality agreement prior to release of information about the EU's EDS.
- 101** When the EU determines that an Interconnection Request is complete, a modification of DGF design by the Interconnection Customer other than a Minor Equipment Modification that is not agreed to in writing by the EU shall require submission of a new Interconnection Request.

## Chapter 12: ADDITIONAL TECHNICAL REQUIREMENTS

- 100** DGFs shall be capable of being isolated from the EU. For Level 2 and Level 3 interconnection, the isolation shall be by means of a lockable, visible-break isolation device whose status is clearly indicated and is accessible by the EU. The isolation device shall be installed, owned and maintained by the owner of the DGF and located between the DGF and the PCC. A draw-out type circuit breaker with a provision for padlocking at the draw-out position can be considered an isolation device for purposes of this requirement. A draw-out type circuit breaker has a switching device capable of making, carrying and breaking currents under normal and abnormal circuit conditions such as those of a short circuit. A draw-out circuit breaker can be physically removed from its enclosure creating a visible break in the circuit. For the purposes of these regulations, the draw-out circuit breaker shall be capable of being locked in the open, draw-out position. Level 1 interconnections do not require an external isolation device.
- 101** A Level 2 or Level 3 Interconnection Customer may elect to provide the EU access to an isolation device that is contained in a building or area that may be unoccupied and locked or not otherwise readily accessible to the EU, by installing a lockbox provided by the EU that shall provide ready access to the isolation device. The Interconnection Customer shall install the lockbox in a location that is readily accessible by the EU, and the Interconnection Customer shall permit the EU to affix a placard in a location of its choosing that provides clear instructions to EU operating personnel on access to the isolation device. In the event that the Interconnection Customer fails to comply with the terms of this subsection and the EU needs to gain access to the isolation device, the EU shall not be held liable for any damages resulting from any necessary EU action to isolate the Interconnection Customer.
- 102** Any metering necessitated by a DGF shall be installed, operated and maintained in accordance with applicable tariffs. Any such metering requirements shall be clearly identified as part of the DGF Interconnection Agreement executed by the Interconnection Customer and the EU.
- 103** The EU shall design, procure, construct, install, and own any Distribution System Upgrades. The actual cost of the Distribution System Upgrades, including overheads, shall be directly assigned to the Interconnection Customer. The Interconnection Customer may be entitled to financial contribution from any other EU customers who may in the future utilize the upgrades paid for by the Interconnection Customer. Such contributions shall be governed by the rules, regulations, and decisions of the Commission.
- 104** The Interconnection Customer shall design its DGF to maintain a composite power delivery at continuous rated power output at the Point of Common Coupling at a power factor within the power factor range required by the EU's applicable tariff for a comparable load customer. EU may also require the Interconnection Customer to follow a voltage or VAR schedule if such schedules are applicable to similarly situated

generators in the control area on a comparable basis and have been approved by the Commission. The specific requirements for meeting a voltage or VAR schedule shall be clearly specified in Attachment 3 of the “Mississippi Distributed Generator Interconnection Rule Level 2 and Level 3 Agreement for Interconnection of Distributed Generator Facilities.” Under no circumstance shall these additional requirements for voltage support or reactive power exceed the normal operating capabilities of the DGF. The requirements in this paragraph may be additional to requirements in IEEE 1547.

### **Chapter 13: DISPUTES**

- 100** A party shall attempt to resolve all disputes regarding interconnection as provided in the MDGIR promptly, equitably, and in a good faith manner.
- 101** When a dispute arises, a party may seek immediate resolution through complaint procedures available through the Commission by providing written notice to the Commission and the other party stating the issues in dispute.
- 102** When disputes relate to the technical application of the MDGIR, the Commission may designate a technical consultant to resolve the dispute. Upon Commission designation, the parties shall use the technical consultant to resolve disputes related to interconnection. Costs for dispute resolution conducted by the technical consultant shall be established by the technical consultant and subject to review by the Commission. The EU and the Interconnection Customer shall share equally the costs of an outside arbitrator unless they mutually agree to a different payment arrangement.
- 103** Pursuit of dispute resolution shall not affect an Interconnection Customer with regard to consideration of an Interconnection Request or an Interconnection Customer's Queue Position.

## TITLE 39: UTILITIES

### PART IV: Mississippi Distributed Generator Interconnection and Net Metering

#### Subpart II: Mississippi Renewable Energy Net Metering Rule

##### Chapter 01: Introduction

- 100** The Mississippi Renewable Energy Net Metering Rule (MRENMR) sets forth technical and procedural requirements for Net Metering on qualified Distributed Generator Facilities (DGFs). These DGFs are also subject to the requirements of the Mississippi Distributed Generator Interconnection Rule (MDGIR).

##### Chapter 02: DEFINITIONS

The following capitalized terms, when used in this Rule, shall have the following meanings unless the context clearly indicates otherwise. These definitions are in addition to those found in the MGDIR, which also apply to the MRENMR.

- 100 “Billing Period”** means the monthly billing period used by an Electric Utility (EU) to measure usage and any excess energy exported by a DGF to the EU, and to bill customers.
- 101 “Avoided Cost of Wholesale Power”** means the cost to an EU<sup>1</sup> of electric energy that the EU would generate itself or purchase from another source, such as from an organized wholesale power market, but for the purchase from a Renewable Energy Net Metered Interconnection Customer (RENMIC). In essence, the avoided cost is the marginal cost to produce or purchase one more unit of electrical energy. When a RENMIC delivers electricity to an EU, the EU will reduce the equivalent amount of electricity that either is generated at its most expensive operating plant that is not running for reliability purposes or is purchased from an organized wholesale power market. For power generated by an EU, the cost avoided consists of the cost of fuel needed to produce that electricity and the corresponding portion of the plant’s operation and maintenance costs and shall include an appropriate average line loss adjustment. No capacity credit is given as part of the calculation of Avoided Cost of Wholesale Power. For an EU that is a member of a regional transmission organization (RTO), the Avoided Cost of Wholesale Power shall be the average real-time locational marginal price (LMP) calculated by the RTO for the EU’s load zone(s). Such LMP may be adjusted to reflect the daytime energy production of a solar PV system and shall include an appropriate average line loss adjustment.
- 102 “Non-Quantifiable Expected Benefits”** means a temporary adjustment to be included in the Total Benefits of Distributed Generation for benefits of distributed generation that, while expected to occur, are currently non-quantifiable. The Non-Quantifiable Expected Benefits shall be no more than 2.5 cents per kilowatt hour for no longer than

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<sup>1</sup> An EU is an electric utility within the meaning of Miss. Code Ann. section 77-3-3(d)(i) (Supp 2014).

three (3) years after the effective date of this rule, which shall serve as a proxy for the Actual Benefits of Distributed Generation further defined below.

- 103 “Actual Benefits of Distributed Generation”** means actual, quantifiable benefits realized by installed distributed generation over and above the Avoided Cost of Wholesale Power, which shall be calculated based upon information derived from the report of a third party consultant chosen by the Commission (further described below) and the experience of the utilities since implementation of this rule, as well as any additional information that may be available in the industry at that time. The calculation of the Actual Benefits of Distributed Generation shall replace the temporary Non-Quantifiable Expected Benefits no later than three (3) years following the effective date of this rule.
- 104 “Low-Income Benefits Adder”** means an additional amount to be included in the Total Benefits of Distributed Generation that shall flow to the first 1,000 qualifying customers whose household income is at or below 200% of the federal poverty level (or similar requirement proposed by the EU to be approved by the Commission) who is approved to take service under the EU’s net metering tariff. Beginning with the effective date of this rule, the Low-Income Benefits Adder shall be equal to 2 cents per kilowatt hour. To provide sufficient financial certainty to qualifying low income customers that install DGFs, this Low-Income Benefits Adder shall remain in place for a period of fifteen (15) years from the date the customer begins taking net metering service under the EU’s net metering tariff.
- 105 “Total Benefits of Distributed Generation”** means the total amount – expressed in cents per kilowatt hour - that shall be credited to EU customers as a result of excess energy exported by a DGF to the EU, which shall include the Avoided Cost of Wholesale Power plus the Non-Quantifiable Expected Benefits or the Actual Benefits of Distributed Generation, plus, if applicable, the Low-Income Benefits Adder, as further outlined in this rule.
- 106 “Exit Fee”** means a fee that is paid by a customer that reduces load by using a DGF and is intended to compensate the EU in whole or part for the loss of fixed cost contribution from that customer. Exit fees are not allowed under this Rule, unless otherwise approved by the Commission.
- 107 “Renewable Energy Net Metered Interconnection Customer” or “RENMIC”** is any electricity customer, such as an industrial, large commercial, residential or small commercial customer, that generates electricity on the customer’s side of the meter using a Renewable Energy source. The electricity customer must own or lease the DGF producing the Renewable Energy on the electricity customer’s side of the meter in order to qualify as a RENMIC under this MRENMR, unless otherwise approved by the Commission.
- 108 “Net Metering”** means measuring the real-time kilowatt-hours supplied by the EU to the RENMIC and the kilowatt-hours produced by the RENMIC’s DGF and exported to

the EU over the applicable Billing Period. Net metering includes the real-time displacement of kilowatt-hours that otherwise would be provided by the EU by kilowatt-hours that were generated by the RENMIC's DGF. An EU may employ a multi-channel meter for separately measuring the RENMIC's electric usage and excess energy exported to the EU.

- 109 “Renewable Energy”** means electric energy produced from solar technologies, wind energy, geothermal technologies, wave or tidal action, hydro-power facilities, and biomass. Any energy derived from fossil fuels is not considered renewable and does not qualify under the MRENMR.
- 110 “Biomass”** means a power source that is comprised of combustible solids or gases from forest products, manufacturing waste, or byproducts; products from agricultural and orchard crops; waste or co-products from livestock and poultry operations; waste or byproducts from food processing; urban wood waste; municipal liquid waste treatment operations; and landfill gas.

### **Chapter 03: NET METERING REQUIREMENTS**

- 100** This MRENMR sets forth the Net Metering requirements that apply to EUs that have customers who self-generate electricity with Renewable Energy on the customer's side of the EU's meter that wish to Net Meter, as indicated by the customer on the Standard Application. These customers are referred to as RENMICs in this Rule.
- 101** All EUs shall offer Net Metering to any customer that seeks to generate electricity on the customer's side of the EU's meter using Renewable Energy sources, provided:
1. For residential customers, Net Metering nameplate direct current capacity of the aggregated DGFs at the customer's premises shall be limited to 20 kW and shall meet the requirements of the MDGIR;
  2. For non-residential customers, Net Metering nameplate direct current capacity for the aggregate DGFs at the customer's premises shall be limited to 2 MW and shall meet the requirements of the MDGIR.
- 102** EUs may refuse additional net metering requests if the total Net Metering direct current capacity in kW, as reported through these requirements, exceeds at any time 3 percent of the EU's total system peak demand expressed in kW recorded during the prior calendar year.
- 103** Each EU shall develop a tariff for Net Metering and interconnection policies in concordance with this MRENMR and the MDGIR. Each EU shall make Net Metering available to eligible RENMICs on a first-come, first-served basis until such time as the aforementioned cap has been reached.

- 104** An EU shall provide Net Metering at non-discriminatory rates that are identical, with respect to rate structure and level, retail rate components, and any monthly fixed charges, to the rates that a RENMIC would be charged if not a RENMIC, unless otherwise approved by the Commission.
- 105** In each Billing Period, energy supplied to the RENMIC from the EU as recorded on the EU's bi-directional net meter will be billed using appropriate commission-approved rate and rider schedules. This provision means that energy self-supplied by the RENMIC, up to the amount supplied from the EU to the RENMIC (e.g., through the recording of meter Channel 1) will be credited to the RENMIC at the full retail rate (i.e., effectively displacing energy supplied from the EU). During that same Billing Period, any excess energy supplied from the RENMIC to the EU and recorded on the EU's bi-directional net meter in kWh (e.g., through meter Channel 2) will be credited on the RENMIC's bill at the applicable Total Benefits of Distributed Generation expressed in cents per kWh and shall be accounted for through the EU's fuel adjustment clause. The customer's monthly bill will be the total of billing for any usage (i.e., as recorded on meter Channel 1) subject to any customer charge and/or minimum bill provisions in the EU's rate and rider schedules less any credit due to the customer from excess energy exported to the EU (i.e., as recorded on meter Channel 2). If the sum total of the monthly bill is negative, any such amount will be carried over to the next Billing Period and applied to any charges arising during the subsequent Billing Period.
- 106** Beginning with the effective date of this rule, Total Benefits of Distributed Generation shall temporarily be equal to the Avoided Cost of Wholesale Power plus Non-Quantifiable Expected Benefits. Further, Non-Quantifiable Expected Benefits shall be equal to 2.5 cents/kWh, which may be modified downward at any time by order of this Commission, should the Commission find it is in the public interest to do so. Within sixty (60) days of the effective date of this rule, each EU shall file with the Commission net metering tariffs consistent with the provisions of this rule for consideration and approval by the Commission.
- 107** In the calculation of Total Benefits of Distributed Generation, Non-Quantifiable Expected Benefits shall be replaced and subsumed by Actual Benefits of Distributed Generation no later than three (3) years following the effective date of this rule. In order to develop a calculation for Actual Benefits of Distributed Generation within that three-year timeframe, the Commission shall cause a study to be performed by an independent consultant beginning no earlier than one year after the effective date of this rule, the costs of which shall be paid by each EU whose rates are regulated by the Commission under the Mississippi Public Utilities Act, §§ 73-3-1 *et seq.*, and recovered through each such EU's net metering tariff. Said independent consultant will work collaboratively with the utilities and gather information from other stakeholders to provide the Commission with guidance in developing a calculation of benefits that can be demonstrated to have been realized and quantified as a result of the adoption of distributed generation in Mississippi. No later than three (3) years



from the effective date of this rule, the Commission shall instruct each EU to file modifications to their net metering tariffs to reflect a calculation of Actual Benefits of Distributed Generation consistent with conclusions of the study and data provided by the EUs.

- 108** Each new Billing Period shall begin with zero kWh credits to the RENMIC; however, subject to the provisions above, the customer may carry over any value of energy credit arising from the prior Billing Period(s). When a customer closes his or her account with the EU, if the RENMIC has accumulated a dollar balance as a result of excess energy delivered to the EU, any such balance, net of costs owed to the EU, shall be paid to the RENMIC.
- 109** Credit for any excess energy exported to the EU shall not be applied to reduce any fixed monthly customer charges or minimum bill provisions imposed by the EU under Commission-approved rate and rider schedules.
- 110** An EU shall offer a RENMIC the choice of a time differentiated energy tariff rate or a non-time-differentiated energy tariff rate, if the EU offers the choice to customers in the same rate class as the RENMIC. If a RENMIC uses a retail billing arrangement that has time- differentiated rates, the EU shall net any production from the DGFs against the customer's consumption within the same time-of-use period in the Billing Period and any excess energy exported to the EU will be credited as described above.
- 111** Any renewable energy credits (RECs) created by the RENMIC are the property of the RENMIC, unless otherwise approved by the Commission. The EU shall not charge any back-up, standby, or Exit Fees to a RENMIC, unless otherwise approved by the Commission.
- 112** An EU shall not charge a RENMIC any fee or charge, or require additional equipment, insurance or any other requirement, unless the fee, charge, or other requirement is specifically authorized in this MRENMR or the MDGIR, or the fee would apply to other customers in the same rate class that are not RENMICs, or unless otherwise approved by the Commission.
- 113** All RENMICs must be electrically interconnected with their EU pursuant to the provisions of the MDGIR. All rules and regulations for interconnected DGFs within the MDGIR apply to RENMICs. Any Distribution System Upgrades, including additional equipment needed that is associated with the export of electricity, shall be at the RENMIC's expense, per the MDGIR.
- 114** As a further requirement under this rule, each EU shall file with the Commission within three months of the effective date of this rule the EU's plan to publicize and inform its customers, whether through a website, a bill insert, or other form of communication, of the opportunities available to interconnect DGFs and receive compensation for excess energy delivered to the grid.

**115** Nothing in this document shall abrogate any person's obligation to comply with all applicable Federal or State laws, rules or regulations, including the MDGIR.

#### **Chapter 04: METERS AND METERING**

**100** A RENMIC shall be equipped with metering equipment that can measure the flow of electricity in each direction at the same time. This is typically accomplished through use of a single bi-directional meter that records customer usage as well as excess energy exported to the EU (e.g., energy supplied to the customer net of the output of the RENMIC is measured on Channel 1 and excess energy supplied by the RENMIC to the EU in excess of the customer's requirements is measured on Channel 2).

**101** An EU may choose to use an existing electric revenue meter if the following criteria are met:

1. The meter is capable of measuring the flow of electricity both into and out of the RENMIC at the same time; and
2. The meter is accurate to within plus or minus five percent when measuring excess energy flowing from the RENMIC to the EU.

**102** If the RENMIC's existing electric revenue meter does not meet the requirements above, the EU shall install a new revenue meter for the RENMIC, at the RENMIC's expense, within 10 business days after the interconnection agreement is executed and approved. If the EU offers a time-differentiated rate chosen by the RENMIC, the meter shall have the capability to appropriately record energy flows in each direction during any time-differentiated period.

**103** Any subsequent revenue meter change will be at the EU's expense, meaning such meter expense will not be charged to an individual RENMIC but shall become part of the EU's overall cost of service and subsequent revenue requirement.

#### **Chapter 05: REPORTING REQUIREMENTS**

**100** Each EU with one or more RENMICs connected to its grid shall submit to the Mississippi Public Service Commission a Net Metering report within 90 days of the end of each calendar year. The report shall include the following information regarding RENMICs during the reporting period:

1. The total energy expressed in kilowatt-hours supplied to the EU's grid by RENMICs and a description of any estimation methodology used;
2. The total number of RENMICs that were paid for excess energy exported to the EU at the end of any Billing Period(s) during the prior calendar year;

3. The total dollar amount by month that the EU paid to RENMICs for excess energy exported to the EU during the prior calendar year;
4. The total number of net metering DGFs by resource type that were interconnected at the end of the prior calendar year;
5. The total rated nameplate direct current generating capacity of net metering DGFs installed during the prior calendar year broken out by resource type; and
6. The percentage of the EU's total system peak demand from the prior calendar year represented by the total rated nameplate direct current generating capacity of net metering DGFs.

**101** For purposes of these reporting requirements, any estimates shall be made using Commission-approved protocols unless no such protocols are available, in which case the estimates shall be accompanied by detailed calculations demonstrating how the estimates were made.

#### **Chapter 06: SAFETY AND CONSUMER PROTECTION WORKING GROUP**

**100** In order to ensure adequate safeguards for safety and consumer protection, a joint working group shall be established between representatives of the Commission, the Mississippi Public Utilities Staff, the Office of the Mississippi Attorney General, and qualified stakeholders, as identified and requested by the working group. Prior to January 1, 2017, the working group shall establish and present to the Commission an initial set of consumer protection and safety standards and guidelines related to the installation and use of distributed generation systems. Thereafter, the working group shall reconvene as necessary to discuss additional issues related to net metering as they arise, and to present any recommendations on such issues to the Commission.

#### **Chapter 07: REOPENER**

**100** Five years from the effective date of this Rule, the Commission shall open a new docket to assess the efficacy and functionality of the MRENMR, and make any subsequent revisions or modifications of the Rule that may be deemed necessary at that time.

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**APPENDIX "A"      Mississippi Distributed Generator Interconnection Rule Proposed  
Level 1 Application Form and Agreement for Interconnection of  
Distributed Generation Facilities**

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**Interconnection Customer Contact Information**

Name \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Alternative Contact Information (if Different from Customer Contact Information)**

Name: \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Distributed Generator Facility (DGF) Equipment Contractor**

Name: \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Electrical Contractor** (if different from DGF equipment contractor):

Name: \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_  
License number: \_\_\_\_\_

Active license? yes \_\_\_ no \_\_\_

**Facility Address (building where DGF is located)**

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Electric account number of facility site \_\_\_\_\_

**DGF Information**

Inverter manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

Nameplate Capacity: \_\_\_\_\_ kW \_\_\_\_\_ kVA \_\_\_\_\_ AC Volts

System design capacity: \_\_\_\_\_ kW \_\_\_\_\_ kVA

Prime mover:                      Photovoltaic  Reciprocating engine  Fuel cell   
   Turbine  Other \_\_\_\_\_

Energy Source:                      Solar  Wind  Hydro  Diesel  Natural gas  
   Fuel oil  Other \_\_\_\_\_

Is the inverter Certified? Yes   
(Attach manufacturer's cut sheet showing certification listing and label information from the appropriate listing authority, e.g. UL 1741 listing. If no, facility is not eligible for Level 1 Application.)

Net Meter (DGF will export power pursuant to Mississippi Renewable Energy Net Metering Contract and tariff)

Estimated Commissioning Date: \_\_\_\_\_

**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 is not required to obtain general liability insurance coverage as a precondition for interconnection approval; however, the Interconnection Customer is advised to consider obtaining appropriate insurance coverage to cover the Interconnection Customer's potential liability under this Agreement.

**Interconnection Customer Signature**

I hereby certify that: 1) I have read and understand the terms and conditions which are attached hereto by reference and are a part of this Agreement; 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.

Interconnection Customer signature: \_\_\_\_\_

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

**Conditional Agreement to Interconnect the DGF (for EU use only)**

Receipt of the application fee is acknowledged and, by its signature below, the EU has determined the Interconnection Request is complete. Interconnection of the DGF is conditionally approved contingent upon the attached terms and conditions of this agreement, the return of the attached Certificate of Completion duly executed, and verification of electrical inspection and successful Witness Test.

EU Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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

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**Terms and Conditions for Interconnection**

- 1) **Construction of the DGF.** The Interconnection Customer may proceed to construct (including operational testing not to exceed 2 hours) the DGF once the conditional agreement to interconnect a DGF has been signed by the EU.
- 2) **Final Interconnection and Operation.** The Interconnection Customer may operate the DGF and interconnect with the EU’s EDS once all of the following have occurred:
  - a) **Electrical Inspection:** Upon completing construction, the Interconnection Customer will have the DGF inspected by the local electrical wiring inspector with jurisdiction who shall establish that the DGF meets the requirements of the National Electrical Code.
  - b) **Certificate of Completion:** The Interconnection Customer shall provide the EU with a completed copy of the Certificate of Completion (Attachment 1), including evidence of the electrical inspection performed by the local authority having jurisdiction. The evidence of completion of the electrical inspection may be provided on inspection forms used by local inspecting authorities. The interconnection request shall not be finally approved until the EU’s representative signs the Certificate of Completion.
  - c) EU has completed its Witness Test as per the following:
    - i) Within ten (10) business days of the estimated commissioning date, the EU shall, upon reasonable notice and at a mutually convenient time, conduct a Witness Test of

the DGF to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with applicable codes.

- 3) **IEEE 1547.** The DGF is installed, operated, and tested in accordance with the requirements of IEEE Std 1547, “Standard for Interconnecting Distributed Resources with Electric Power Systems”, as amended and supplemented, at the time the interconnection request is submitted.
- 4) **Access.** The EU shall have direct, unabated access to the metering equipment of the DGF at all times. The EU shall provide reasonable notice to the customer when possible prior to using its right of access.
- 5) **Metering.** Any required metering shall be installed pursuant to appropriate tariffs and tested by the EU pursuant to the EUs meter testing requirements
- 6) **Disconnection.** The EU may temporarily disconnect the DGF upon the following conditions:
  - a) For scheduled outages upon reasonable notice;
  - b) For unscheduled outages or emergency conditions;
  - c) If the DGF does not operate in the manner consistent with this agreement;
  - d) Improper installation or failure to pass the Witness Test;
  - e) If the DGF is creating a safety, reliability or a power quality problem; or
  - f) The Interconnection Equipment used by the DGF is de-listed by the Nationally Recognized Testing Laboratory that provided the listing at the time the interconnection was approved.
- 7) **Indemnification.** The parties shall at all times indemnify, defend, and save the other party harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other party's action or inactions of its obligations under this agreement on behalf of the indemnifying party, except in cases of gross negligence or intentional wrongdoing by the indemnified party.
- 8) **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.
- 9) **Termination.** This agreement may be terminated under the following conditions:
  - a) By Interconnection Customer - The Interconnection Customer may terminate this application agreement by providing written notice to the EU.
  - b) By the EU - The EU may terminate this agreement if the Interconnection Customer 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 prior to the expiration of the 30 calendar day remedy period. The termination date can be no less than 30 calendar days after the Interconnection Customer receives notice of its violation from the EU.
- 10) **Modification of DGF.** The Interconnection Customer must receive written authorization from the EU before making any changes to the DGF, other than Minor Changes that do not have a significant impact on safety or reliability of the EDS as determined by the EU. If the Interconnection Customer makes such modifications without the EU’s prior written authorization, the EU shall have the right to temporarily disconnect the DGF until such authorization can be obtained.

- 11) **Permanent Disconnection.** In the event the agreement is terminated, the EU shall have the right to disconnect its facilities or direct the Interconnection Customer to disconnect its DGF.
- 12) **Disputes.** Each party agrees to attempt to resolve all disputes regarding the provisions of these interconnection procedures pursuant to the dispute resolution provisions of the Mississippi Distributed Generator Interconnection Rule (MGDIR).
- 13) **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 Mississippi. Nothing in this agreement is intended to affect any other agreement between the EU and the Interconnection Customer. However, in the event that the provisions of this agreement are in conflict with the provisions of the EU's tariff, the EU tariff shall control.
- 14) **Survival Rights.** This agreement shall continue in effect after termination to the extent necessary to allow or require either party to fulfill rights or obligations that arose under the agreement.
- 15) **Assignment/Transfer of Ownership of the DGF:** This agreement shall terminate upon the transfer of ownership of the DGF to a new owner unless the transferring owner assigns the agreement to the new owner and so notifies the EU in writing prior to the transfer of electric service.
- 16) **Definitions.** Any capitalized term used herein and not defined shall have the same meaning as the defined terms used in the MGDIR.
- 17) **Notice.** 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 to Interconnection Customer)

Use the contact information provided in the agreement for the interconnection customer. The interconnection customer is responsible for notifying the EU of any change in the contact party information, including change of ownership.

(If to EU)

Use the contact information provided on the EU's web page for DGF interconnection.



**Attachment 1**

**Certificate of Completion**

To be completed and returned to the EU when the installation is complete and final electrical inspector approval has been obtained.

**Interconnection Customer Contact Information**

Name \_\_\_\_\_

Mailing address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_

Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Distributed Generator Facility (DGF) Equipment or Electrical Contractor**

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

Mailing address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_

Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Final Electric Inspection and Interconnection Customer Signature**

The DGF 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 Customer acknowledges that it shall not operate the DGF until receipt of the final acceptance and approval by the EU as provided below.

Signed \_\_\_\_\_ Date \_\_\_\_\_

(Signature of Interconnection Customer)

Printed name: \_\_\_\_\_

Attached signed electric inspection form to this document and return to the EU.

**Acceptance and Final Approval for Interconnection (for EU use only)**

The Interconnection Agreement is approved and the DGF is approved for interconnected operation upon the signing and return of this Certificate of Completion by EU.

Date of successful Witness Test: \_\_\_\_\_ Passed: (Initial) (\_\_\_\_\_)

EU signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed name: \_\_\_\_\_ Title: \_\_\_\_\_

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**APPENDIX “B”      Mississippi Distributed Generator Interconnection Rule Mississippi  
Distributed Generator Interconnection Rule Proposed Level 2 and  
Level 3 Application Form for Interconnection of Distributed  
Generation Facilities**

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**Interconnection Customer Contact Information**

Name \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Alternative Contact Information (if Different from Customer Contact Information)**

Name: \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Facility Address (Building Where the Distributed Generator Facility (DFG) is Located)**

Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

**DGF Equipment Contractor**

Name: \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Electrical Contractor** (if different from DGF equipment contractor):

Name: \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_  
License number: \_\_\_\_\_  
Active license? yes \_\_\_ no \_\_\_

**Electric Service Information for Customer Facility Where the DGF Will Be Interconnected**

Electric account number of facility site: \_\_\_\_\_  
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 (choose one)**

- Offset load (DGF will operate in parallel, but will not export power to EU)
- Net Meter (DGF will export power pursuant to the Mississippi Renewable Energy Net Energy Metering Rule and tariff)
- Export power (DGF will operate in parallel and will export power, but does not fit the criteria established in the Mississippi Renewable Energy Net Metering Rule and tariff)
- Back-up generation (Units that temporarily parallel for more than 100 milliseconds)

Backup units that do not operate in Parallel for more than 100 milliseconds do not need an Interconnection Agreement.

**Requested Procedure Under Which to Evaluate Interconnection Request**

Please indicate below which review procedure applies to the interconnection request.

- Level 2** - Application fee amount is \$\_\_\_\_\_.
- Level 3** – Application fee amount is \$\_\_\_\_\_, to be applied toward any subsequent studies related to this application.

Descriptions for interconnection review categories do not list all criteria that must be satisfied. For a complete list of criteria, please refer to the Mississippi Distributed Generator Interconnection Rule.

**DGF Information**

**Energy Production Equipment/Inverter Information**

Energy Source:  Hydro  Wind  Solar  Diesel  Biomass  Natural gas  
 Coal  Oil  Other \_\_\_\_\_

Energy Converter Type:  Water turbine  Wind turbine  Photovoltaic cell  
 Steam turbine  Combustion turbine  Reciprocating  
engine  
 Other \_\_\_\_\_

Generator Type:  Synchronous  Induction  Inverter  Other \_\_\_\_\_

Nameplate Rating: \_\_\_\_\_ kW \_\_\_\_\_ kVA \_\_\_\_\_ AC Volts

System design capacity: \_\_\_\_\_ (kW) \_\_\_\_\_ (kVA)

Number of Units: \_\_\_\_\_

Rated Voltage: \_\_\_\_\_ Volts

Rated Current: \_\_\_\_\_ Amps

**Interconnection Equipment components/system(s) to be used in the DGF that are Certified (if Certified equipment is used).**

Component/System Listing	NRTL Providing Label &
--------------------------	------------------------

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

Attach manufacturer's cut sheet showing certification listing and label information from the appropriate listing authority, e.g. UL 1741 listing.

**For Synchronous Machines:**

Note: EU may be contacted to determine if all the information requested in this section is required for the proposed DGF.

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  
 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: EU may be contacted to determine if all the information requested in this section is required for the proposed DGF.

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: \_\_\_\_\_ Temperature rise: \_\_\_\_\_ °C.

**Additional Information For Inverter-Based DGF**

Inverter information:  
 Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_  
 Type:  Forced commutated  Line commutated  
 Rated output \_\_\_\_\_ Watts \_\_\_\_\_ Volts  
 Efficiency \_\_\_\_\_ % Power factor \_\_\_\_\_ %  
 Inverter UL1547 Listed: :  Yes  No

DC source / prime mover:  
 Rating: \_\_\_\_\_ kW Rating: \_\_\_\_\_ kVA  
 Rated voltage: \_\_\_\_\_ Volts  
 Open circuit voltage (If applicable): \_\_\_\_\_ Volts  
 Rated current: \_\_\_\_\_ Amps  
 Short circuit current (If applicable): \_\_\_\_\_ Amps

**Other Required Facility Information:**

One line diagram attached:  Yes  
 Plot plan attached:  Yes

**Estimated Commissioning Date:** \_\_\_\_\_

**Interconnection Customer Signature**

I hereby certify that all of the information provided in this application request form is true.

Interconnection Customer 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 (see page two):

Application fee included

Amount \_\_\_\_\_

**EU Acknowledgement**

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

EU signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed name: \_\_\_\_\_ Title: \_\_\_\_\_

**Definitions**

Any capitalized term used herein shall have the same meaning as the defined terms used in the Mississippi Distributed Generator Interconnection Rule.

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**APPENDIX “C”:**    **Mississippi Distributed Generator Interconnection Rule Mississippi Distributed Generator Interconnection Rule Proposed Level 2 and Level 3 Agreement for Interconnection of Distributed Generation Facilities**

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This Agreement is made and entered into this \_\_\_\_ day of \_\_\_\_\_, by and between \_\_\_\_\_, a \_\_\_\_\_ organized and existing under the laws of \_\_\_\_\_ (“Interconnection Customer”), and \_\_\_\_\_, a \_\_\_\_\_ existing under the laws of \_\_\_\_\_ (“Electric Utility (EU)”). Interconnection Customer and EU each may be referred to as a “Party,” or collectively as the “Parties.”

**Recitals:**

**Whereas**, Interconnection Customer is proposing to, install or direct the installation of a Distributed Generator Facility (DGF), or is proposing a generating capacity addition to an existing DGF, consistent with the Interconnection Request completed by Interconnection Customer on \_\_\_\_\_; and

**Whereas**, the Interconnection Customer will operate and maintain, or cause the operation and maintenance of the DGF; and

**Whereas**, Interconnection Customer desires to interconnect the DGF with EU’s Electric Distribution System (EDS).

**Now, therefore**, in consideration of the premises and mutual covenants set forth herein, and other good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, the Parties covenant and agree as follows:

**Article 1.**        **Scope and Limitations of Agreement**

- 1.1        This Agreement shall be used for all Level 2 and Level 3 Interconnection Requests according to the procedures set forth in the Mississippi Distributed Generator Interconnection Rule (MDGIR).
- 1.2        This Agreement governs the terms and conditions under which the DGF will interconnect to, and operate in Parallel with, the EU’s EDS.
- 1.3        This Agreement does not constitute an agreement to purchase or deliver the Interconnection Customer’s power.
- 1.4        Nothing in this Agreement is intended to affect any other agreement between the EU and the Interconnection Customer. However, in the event that the provisions of this Agreement are in conflict with the provisions of the EU’s tariff, the EU tariff

shall control.

#### 1.5 Responsibilities of the Parties

- 1.5.1 The Parties shall perform all obligations of this Agreement in accordance with all Applicable Laws and Regulations.
- 1.5.2 The EU shall construct, own, operate, and maintain its Interconnection Facilities in accordance with this Agreement, IEEE Standard 1547, the National Electrical Safety Code and applicable standards promulgated by the Mississippi Public Service Commission.
- 1.5.3 The Interconnection Customer shall construct, own, operate, and maintain its DGF in accordance with this Agreement, IEEE Standard 1547, the National Electrical Code and applicable standards promulgated by the Mississippi Public Service Commission.
- 1.5.4 Each Party shall operate, maintain, repair, and inspect, and shall be fully responsible for the facilities that it now or subsequently may own unless otherwise specified in the attachments to this Agreement. Each Party shall be responsible for the safe installation, maintenance, repair and condition of their respective lines and appurtenances on their respective sides of the Point of Common Coupling.
- 1.5.5 The Interconnection Customer agrees to design, install, maintain and operate its DGF so as to minimize the likelihood of causing an Adverse System Impact on an electric system that is not owned or operated by the EU.

#### 1.6 Metering

The Interconnection Customer shall be responsible for the cost of the purchase and installation of metering equipment specified in Attachments 2 and 4 of this Agreement if new meter equipment is required by a tariff or study associated with the DGF interconnection.

#### 1.7 Reactive Power

The Interconnection Customer shall design its DGF to maintain a composite power delivery at continuous rated power output at the Point of Common Coupling at a power factor within the power factor range required by the EU's applicable tariff for a comparable load customer. EU may also require the Interconnection Customer to follow a voltage or VAR schedule if such schedules are applicable to similarly situated generators in the control area on a comparable basis and have been approved by the Commission. The specific requirements for meeting a voltage or VAR schedule shall be clearly specified in Attachment 3. Under no circumstance shall these additional requirements for reactive power or voltage support exceed the normal operating capabilities of the DGF. The requirements in 1.7 may fall outside the requirement for using IEEE 1547 as a technical standard.

#### 1.8 Capitalized Terms

Capitalized terms used herein shall have the meanings specified in the definitions section of the MDGIR.



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

### **2.1 *Equipment Testing and Inspection***

The Interconnection Customer shall test and inspect its DGF including the Interconnection Equipment prior to interconnection in accordance with IEEE Std 1547, IEEE Std 1547.1, and the technical and procedural requirements in the MDGIR. The Interconnection Customer shall not operate its DGF in Parallel with EU's EDS without prior written authorization by the EU as provided for in 2.1.1 – 2.1.3.

2.1.1 The EU shall perform a Witness Test after construction of the DGF is completed. The Interconnection Customer shall provide the EU at least 20 days' notice of the planned Commissioning Test for the DGF. The EU shall contact the Interconnection Customer to schedule the Witness Test at a mutually agreeable time within 10 business days of the scheduled commissioning test. If the Witness Test is not acceptable to the EU, the Interconnection Customer will be granted a period of 30 calendar days to address and resolve any deficiencies. The time period for addressing and resolving any deficiencies may be extended upon the mutual agreement of the EU and the Interconnection Customer. If the Interconnection Customer fails to address and resolve the deficiencies to the satisfaction of the EU, the applicable termination provisions of 3.3.7 shall apply.

2.1.2 To the extent that the Interconnection Customer decides to conduct interim testing of the DGF prior to the Witness Test, it may request that the EU observe these tests and that these tests be deleted from the final Witness Test. The EU may, at its own expense, send qualified personnel to the DGF to observe such interim testing. Nothing in this Section 2.1.2 shall require the EU to observe such interim testing or preclude the EU from performing these tests at the final Witness Test. Regardless of whether the EU observes the interim testing, the Interconnection Customer shall obtain permission in advance of each occurrence of operating the DGF in parallel with the EU's system.

2.1.3 Upon successful completion of the Witness Test, the EU shall affix an authorized signature to the Certificate of Completion (Attachment 5) and return it to the Interconnection Customer approving the interconnection and authorizing Parallel Operation. Such authorization shall not be unreasonably withheld, conditioned, or delayed.

### **2.2 *Commercial Operation***

The Interconnection Customer shall not operate the DGF in Parallel, except for interim testing as provided in 2.1, until such time as the Certificate of Completion is signed by all Parties.

### **2.3 *Right of Access***

The EU shall have access to the isolation device and metering equipment of the DGF at all times. The EU shall provide reasonable notice to the customer when possible prior to using its right of access.

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

**3.1 Effective Date**

This Agreement shall become effective upon execution by the Parties.

**3.2 Term of Agreement**

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

**3.3 Termination**

No termination shall become effective until the Parties have complied with all Applicable Laws and Regulations applicable to such termination.

3.3.1 The Interconnection Customer may terminate this Agreement at any time by giving the EU 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 EU may terminate upon 60 calendar days' prior written notice for failure of the Interconnection Customer to complete construction of the DGF within 12 months of the in-service date as specified by the Parties in Attachment 1, which may be extended by mutual agreement of the Parties which shall not be unreasonably withheld.

3.3.4 The EU may terminate this Agreement upon 60 calendar days' prior written notice if the Interconnection Customer fails to operate the DGF in parallel with EU's EDS for three consecutive years.

3.3.5 Upon termination of this Agreement, the DGF will be disconnected from the EU's EDS. The termination of this Agreement shall not relieve either Party of its liabilities and obligations, owed or continuing at the time of the termination.

3.3.6 The provisions of this Article shall survive termination or expiration of this Agreement.

3.3.7 The EU may terminate this Agreement if the Interconnection Customer fails to comply with the Witness Test requirement in 2.2.1.

**3.4 Temporary Disconnection**

Either party may temporarily disconnect the DGF from the EDS in the event of an Emergency Condition (see definition below) for so long as the Party determines it is reasonably necessary 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 reasonably likely to endanger life or property; or (2) that, in the case of the EU, is reasonably likely to cause an Adverse System Impact; or (3) that, in the case of the Interconnection Customer, is reasonably likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the DGF or the Interconnection Equipment. Under

Emergency Conditions, the EU or the Interconnection Customer may immediately suspend interconnection service and temporarily disconnect the DGF. The EU shall notify the Interconnection Customer promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect the Interconnection Customer's operation of the DGF. The Interconnection Customer shall notify the EU promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect the EU's EDS. To the extent information is known, the notification shall describe the Emergency 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 EU may interrupt interconnection service or curtail the output of the DGF and temporarily disconnect the DGF from the EU's EDS when necessary for scheduled maintenance, construction, or repairs on EU's EDS. The EU shall provide the Interconnection Customer with five business days notice prior to such interruption. The EU shall use reasonable efforts to coordinate such reduction or temporary disconnection with the Interconnection Customer.
- 3.4.3 Forced Outages - During any forced outage, the EU may suspend interconnection service to effect immediate repairs on the EU's EDS. The EU shall use reasonable efforts to provide the Interconnection Customer with prior notice. If prior notice is not given, the EU shall, upon written request, provide the Interconnection Customer written documentation after the fact explaining the circumstances of the disconnection.
- 3.4.4 Adverse Operating Effects – the EU shall provide the Interconnection Customer with a written notice of its intention to disconnect the DGF if, based on the operating requirements specified in Attachment 3, the EU determines that operation of the DGF will likely cause disruption or deterioration of service to other customers served from the same electric system, or if operating the DGF could cause damage to the EU's EDS. Supporting documentation used to reach the decision to disconnect shall be provided to the Interconnection Customer upon written request. The EU may disconnect the DGF if, after receipt of the notice, the Interconnection Customer fails to remedy the adverse operating effect within a reasonable time unless Emergency Conditions exist in which case the provisions of 3.4.1 apply.
- 3.4.5 Modification of the DGF - The Interconnection Customer must receive written authorization from the EU prior to making any change to the DGF, other than a Minor Equipment Modification, that could cause an Adverse System Impact. If the Interconnection Customer makes such modification without the EU's prior written authorization, the EU shall have the right to temporarily disconnect the DGF until such time as the EU reasonably concludes the modification poses no threat to the safety or reliability of its EDS.

- 3.4.6 Reconnection - The Parties shall cooperate with each other to restore the DGF, Interconnection Facilities, and EU's EDS to their normal operating state as soon as reasonably practicable following any disconnection pursuant to this section; provided, however, if such disconnection is done pursuant to Section 3.4.5 due to the Interconnection Customer's failure to obtain prior written authorization from the EU for Minor Equipment Modifications, the EU shall reconnect the Interconnection Customer only after determining the modifications do not impact the safety or reliability of its EDS.

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

**4.1 Interconnection Facilities**

4.1.1 The Interconnection Customer shall pay for the cost of the Interconnection Facilities identified in the Facilities Study or the Level 2 additional review for initial modifications itemized in Attachment 2 of this Agreement. The EU shall identify the Interconnection Facilities necessary to safely interconnect the DGF with the EU's EDS, the cost of those facilities, and the time required to build and install those facilities.

4.1.2 The Interconnection Customer shall be responsible for its expenses, including overheads, associated with (1) owning, operating, maintaining, repairing, and replacing its Interconnection Equipment, and (2) its reasonable share of operating, maintaining, repairing, and replacing any Interconnection Facilities owned by the EU as set forth in Attachment 2.

**4.2 Distribution System Upgrades**

The EU shall design, procure, construct, install, and own any Distribution System Upgrades. The actual cost of the Distribution System Upgrades, including overheads, shall be directly assigned to the Interconnection Customer. The Interconnection Customer may be entitled to financial contribution from any other EU customers who may in the future utilize the upgrades paid for by the Interconnection Customer. Such contributions shall be governed by the rules, regulations and decisions of the MDGIR.

**Article 5. Billing, Payment, Milestones, and Financial Security**

**5.1 *Billing and Payment Procedures and Final Accounting***

5.1.1 The EU shall bill the Interconnection Customer for the design, engineering, construction, and procurement costs of EU provided Interconnection Facilities and Distribution System Upgrades contemplated by this Agreement as set forth in Appendix 3, on a monthly basis, or as otherwise agreed by the Parties. The Interconnection Customer shall pay

each bill within 30 calendar days of receipt, or as otherwise agreed to by the Parties.

5.1.2 Within ninety (90) calendar days of completing the construction and installation of the EU's Interconnection Facilities and Distribution System Upgrades described in the Attachments 2 to this Agreement, the EU shall provide the Interconnection Customer with a final accounting report of any difference between (1) the actual cost incurred to complete the construction and installation and the budget estimate provided to the Interconnection Customer and a written explanation for any significant variation; and (2) the Interconnection Customer's previous deposit and aggregate payments to the EU for such Interconnection Facilities and Distribution System Upgrades. If the Interconnection Customer's cost responsibility exceeds its previous deposit and aggregate payments, the EU shall invoice the Interconnection Customer for the amount due and the Interconnection Customer shall make payment to the EU within thirty (30) calendar days. If the Interconnection Customer's previous deposit and aggregate payments exceed its cost responsibility under this Agreement, the EU shall refund to the Interconnection Customer an amount equal to the difference within thirty (30) calendar days of the final accounting report.

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

## **5.2 Interconnection Customer Deposit**

When a Level 3 Interconnection Feasibility Study, Interconnection System Impact Study, or Interconnection Facility Study or a Level 2 review of minimal modifications is required under the MDGIRs, the EU may require the Interconnection Customer to pay a deposit equal to 50% of the estimated cost to perform the study or review. At least twenty (20) business days prior to the commencement of the design, procurement, installation, or construction of a discrete portion of the EU's Interconnection Facilities and Distribution **System** Upgrades, the Interconnection Customer shall provide the EU with a deposit equal to 50% of the estimated costs prior to its beginning design of such facilities, provided the total cost is in excess of \$1,000.

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

### **6.1 Assignment**

This Agreement may be assigned by either Party upon fifteen (15) Business Days prior written notice, and with the opportunity to object by the other Party. Should the Interconnection Customer assign this agreement, the EU has the right to request the assignee agree to the assignment and the terms of this Agreement in

writing. When required, consent to assignment shall not be unreasonably withheld; provided that:

- 6.1.1 Either Party may assign this Agreement without the consent of the other Party to any affiliate (which shall include a merger of the Party with another entity), of the assigning Party with an equal or greater credit rating and with the legal authority and operational ability to satisfy the obligations of the assigning Party under this Agreement;
- 6.1.2 The Interconnection Customer shall have the right to assign this Agreement, without the consent of the EU, for collateral security purposes to aid in providing financing for the DGF. For DGFs that are integrated into a building facility, the sale of the building or property will result in an automatic transfer of this agreement to the new owner who shall be responsible for complying with the terms and conditions of this Agreement.
- 6.1.3 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 thereof. An assignee is responsible for meeting the same obligations as the Interconnection Customer.

## **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, 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 Section 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 to third parties 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 Parties shall at all times indemnify, defend, and hold the other Party harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other Party's action or failure to meet its obligations under this Agreement on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party.

- 6.3.3 Promptly after receipt by an indemnified Party of any claim or notice of the commencement of any action or administrative or legal proceeding or investigation as to which the indemnity provided for in this Article may apply, the indemnified Party shall notify the indemnifying Party of such fact. Any failure of or delay in such notification shall not affect a Party's indemnification obligation unless such failure or delay is materially prejudicial to the indemnifying Party.
- 6.3.4 If an indemnified Party is entitled to indemnification under this Article as a result of a claim by a third party, and the indemnifying Party fails, after notice and reasonable opportunity to proceed under this Article, to assume the defense of such claim, such 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, such claim.
- 6.3.5 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 such indemnified Party's actual loss, net of any insurance or other recovery.

#### **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, or any other cause beyond a Party's control. A Force Majeure Event does not include an act of gross negligence or intentional wrongdoing.
- 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 promptly notify the other Party of the existence of the Force Majeure Event. The notification must specify in reasonable detail the circumstances of the Force Majeure Event, its expected duration, and the steps that the Affected Party is taking and will take to mitigate the effects of the event on its performance, and if the initial notification was verbal, it should be promptly followed up with a written notification. The Affected Party shall keep the other Party informed on a continuing basis of developments relating to the Force Majeure Event until the event ends. The Affected Party shall be entitled to suspend or modify its performance of obligations under this Agreement (other than the obligation to make payments) only to the extent that the effect of the Force Majeure Event cannot be reasonably mitigated. The Affected Party shall use reasonable efforts to resume its performance as soon as possible.

#### **6.5 Default**

- 6.5.1 No default shall exist where such failure to discharge an obligation (other than the payment of money) is the result of a Force Majeure Event as defined in this Agreement, or the result of an act or omission of the other Party.
- 6.5.2 Upon a default of this Agreement, the non-defaulting Party shall give written notice of such default to the defaulting Party. Except as provided in Article 6.5.3 the defaulting Party shall have 60 calendar days from receipt of the default notice within which to cure such default; provided however, if such default is not capable of cure within 60 calendar days, the defaulting Party shall commence such cure within 20 calendar days after notice and continuously and diligently complete such cure within six months from receipt of the default notice; and, if cured within such time, the default specified in such notice shall cease to exist.
- 6.5.3 If a Party has made an assignment of this Agreement not specifically authorized by Article 6.1, fails to provide reasonable access pursuant to Article 2.3, 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 shall have 30 days from receipt of the default notice within which to cure such 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 herein, the non-defaulting Party shall have the right to terminate this Agreement by written notice at any time until cure occurs, and be relieved of any further obligation hereunder and, whether or not that Party terminates this Agreement, to recover from the defaulting Party all amounts due hereunder, plus all other damages and remedies to which it is entitled at law or in equity. The provisions of this Article will survive termination of this Agreement.

## **Article 7. Insurance**

For DGFs with a Nameplate Capacity of 2 MW or above, the Interconnection Customer shall carry adequate insurance coverage that shall be acceptable to the EU; provided, that the maximum comprehensive/general liability coverage that shall be continuously maintained by the Interconnection Customer 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 EU, its officers, employees and agents will be added as an additional insured on this policy.

## **Article 8. Dispute Resolution**

- 8.1 A party shall attempt to resolve all disputes regarding interconnection as provided in this Agreement and the MDGIR promptly, equitably, and in a good faith manner.



- 8.2 When a dispute arises, a party may seek immediate resolution through complaint procedures available through the Commission, or an alternative dispute resolution process approved by the Commission, by providing written notice to the Commission and the other party stating the issues in dispute. Dispute resolution will be conducted in an informal, expeditious manner to reach resolution with minimal costs and delay. When available, dispute resolution may be conducted by phone.
- 8.4 When disputes relate to the technical application of this Agreement and the MDGIR, the Commission may designate a technical consultant to resolve the dispute. Upon Commission designation, the parties shall use the technical consultant to resolve disputes related to interconnection. Costs for a dispute resolution conducted by the technical consultant shall be established by the technical consultant, subject to review by the Commission.
- 8.4 Pursuit of dispute resolution may not affect an Interconnection Customer with regard to consideration of an Interconnection Request or an Interconnection Customer's queue position.
- 8.5 If the Parties fail to resolve their dispute under the dispute resolution provisions of this Article, nothing in this Article shall affect any Party's rights to obtain equitable relief, including specific performance, as otherwise provided in this Agreement.

## **Article 9.      Miscellaneous**

### **9.1      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 Mississippi, without regard to its conflicts of law principles. This Agreement is subject to all Applicable Laws and Regulations.

### **9.2      Amendment**

Modification of this Agreement shall be only by a written instrument duly executed by both Parties.

### **9.3      No Third-Party Beneficiaries**

This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and where permitted, their assigns.

### **9.4      Waiver**

9.4.1 The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement shall not be

considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.

9.4.2 Any waiver at any time by either Party of its rights with respect to this Agreement shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of this Agreement. Termination or default of this Agreement for any reason by Interconnection Customer shall not constitute a waiver of the Interconnection Customer's legal rights to obtain an interconnection from EU. Any waiver of this Agreement shall, if requested, be provided in writing.

**9.5 Entire Agreement**

This Agreement, including all attachments, constitutes the entire Agreement between the Parties with reference to the subject matter hereof, 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) such 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 such 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, first orally and then in writing, of the release any hazardous substances, any asbestos or lead abatement activities, or any type of remediation activities related to the DGF 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 such Party makes a good faith effort to provide the notice no later than 24 hours after such 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 utilizing the services of any subcontractor as 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 such services and each Party shall remain primarily liable to the other Party for the performance of such subcontractor.

9.10.1 The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under this Agreement. The hiring Party shall be fully responsible to the other Party for the acts or omissions of any subcontractor the hiring Party hires as if no subcontract had been made. 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 such Party.

9.10.2 The obligations under this Article will not 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 to Interconnection Customer:**

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

**If to EU:**

EU \_\_\_\_\_  
Attention: \_\_\_\_\_  
Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail \_\_\_\_\_

## 10.2 Billing and Payment

Billings and payments shall be sent to the addresses set out below:

### **If to Interconnection Customer**

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

### **If to EU**

EU: \_\_\_\_\_  
Attention: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

## 10.3 Designated Operating Representative

The Parties may also designate operating representatives to conduct the communications which 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:**

\_\_\_\_\_  
*Attention:* \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

### **EU's Operating Representative:** \_\_\_\_\_

*Attention:* \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

**10.4 Changes to the Notice Information**

Either Party may change this notice information by giving five business days written notice prior to 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 EU:**

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

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

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

## Attachment 1

### **Construction Schedule, Proposed Equipment and Settings**

This attachment shall include the following:

1. The construction schedule for the DGF
2. A one-line diagram indicating the DGF, Interconnection Equipment, Interconnection Facilities, metering equipment, and Distribution System Upgrades
3. Component specifications for equipment identified in the one-line diagram
4. Component settings
5. Proposed sequence of operations

## **Attachment 2**

### **Description, Costs and Time Required to Build and Install EU's Interconnection Facilities and Distribution System Upgrades**

This attachment shall include the following:

EU's Interconnection Facilities and Distribution System Upgrades including any required new metering shall be itemized and a best estimate of itemized costs, including overheads, shall be provided based on the Facilities Study or Level 2 additional review for minimal modifications of the EDS.

Also, a best estimate for the time required to build and install EU's Interconnection Facilities and Distribution System Upgrades will be provided based on the Facilities Study or Level 2 additional review for minimal modifications of the EDS.

### **Attachment 3**

#### ***Operating Requirements for DGFs Operating in Parallel***

This attachment shall include the following:

Applicable sections of EU's operating manuals applying to the DGF interconnection shall be listed and Internet links shall be provided. Any special operating requirements not contained in EU's existing operating manuals shall be clearly identified. These operating requirements shall not impose additional technical or procedural requirements on the DGF beyond those found the MDGIR, except those required for safety.



## **Attachment 4**

### **Metering Requirements**

This attachment shall include the following:

Metering requirements for the DGF shall be clearly indicated along with an identification of the appropriate tariffs that establish these requirements and an internet link to these tariffs.

Attachment 5

***Certificate of Completion***

To be completed and returned to the EU when the installation is complete and final electrical inspector approval has been obtained.

**Interconnection Customer Contact Information**

Name \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_

Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Distributed Generator Facility (DGF) Equipment or Electrical Contractor**

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

Mailing address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_

Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Final Electric Inspection and Interconnection Customer Signature**

The DGF 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 Customer acknowledges that it shall not operate the DGF until receipt of the final acceptance and approval by the EU as provided below.

Signed \_\_\_\_\_ Date \_\_\_\_\_  
(Signature of interconnection customer)

Printed name: \_\_\_\_\_

Attached signed electric inspection form to this document and return to the EU.

**Acceptance and Final Approval for Interconnection (for EU use only)**

The Interconnection Agreement is approved and the DGF is approved for interconnected operation upon the signing and return of this Certificate of Completion by EU.

Date of successful Witness Test: \_\_\_\_\_ Passed: (Initial) (\_\_\_\_\_)

EU signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed name: \_\_\_\_\_ Title: \_\_\_\_\_

## TITLE 39: UTILITIES

### PART IV: Mississippi Distributed Generator Interconnection and Net Metering

#### Subpart I: Mississippi Distributed Generator Interconnection Rule

##### Chapter 01: Introduction

The Mississippi Distributed Generation Interconnection Rule (MDGIR) sets forth standards to establish the technical and procedural requirements for Distributed Generator Facilities (DGFs) to be interconnected and operated in Parallel with the Electric Distribution System (EDS) owned or operated by Electric ~~Distribution Companies~~ Utilities (~~EDC~~ EUs) in Mississippi under the jurisdiction of the Mississippi Public Service Commission (Commission). Capitalized terms used in this rule have the meaning specified in the section titled DEFINITIONS.

##### Chapter 02: Definitions

When used in this chapter, the following terms and phrases shall have the following meaning:

- 139 “Adverse System Impact”** means a negative effect, due to technical or operational limits on conductors or equipment being exceeded, that compromises the safety and reliability of the EDS.
- 140 “Applicable Laws and Regulations”** means all duly promulgated and 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.
- 141 “Certificate of Completion”** means a certificate in a completed form approved by the Commission containing information about the Interconnection Equipment to be used, its installation and local inspections.
- 142 “Certified Interconnection Equipment” or “Certified Equipment” or “Certified”** means a designation that the Interconnection Equipment meets the following requirements:
8. The Interconnection Equipment has been tested by a Nationally Recognized Testing Laboratory (NRTL) recognized by the United States Occupational Safety and Health Administration (OSHA) in accordance with the following relevant codes and standards:
    - c. IEEE 1547.1 Standard for Conformance Tests Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems; and
    - d. Underwriters Laboratories (“UL”), UL 1741 Inverters, Converters, and Controllers for Use in Independent Power Systems;

9. The Interconnection Equipment shall meet the requirements of the most current approved version of each code and standard listed above, as amended and supplemented at the time the Interconnection Request is submitted to be deemed Certified;
10. The Interconnection Equipment has been labeled and is publicly listed by such NRTL at the time of the interconnection application;
11. The Interconnection Customer verifies that the intended use of the Interconnection Equipment falls within the use or uses for which the Interconnection Equipment is labeled and is listed by the NRTL;
12. If the Interconnection Equipment is an integrated equipment package such as an inverter, then the Interconnection Customer shall show that the generator or other electric source being utilized is compatible with the Interconnection Equipment and is consistent with the testing and listing specified for this type of Interconnection Equipment;
13. If the Interconnection Equipment includes only interface components (switchgear, multi-function relays, or other interface devices), an Interconnection Customer shall demonstrate that the generator or other electric source being utilized is compatible with the Interconnection Equipment and is consistent with the testing and listing specified for this type of Interconnection Equipment; and
14. Certified Interconnection Equipment shall not require further design testing or Production Testing, as specified by IEEE Standard 1547 Sections 5.1 and 5.2, or additional Interconnection Equipment modification to meet the requirements. However, nothing herein shall preclude the need for an on-site Witness Test or operational test by the Interconnection Customer.

**143 “Commission”** means the Mississippi Public Service Commission.

**144 “Commissioning Tests”** means the tests applied to a DGF by an Interconnection Customer after construction is completed to verify that the DGF does not create Adverse System Impacts. At a minimum, the scope of the Commissioning Tests performed shall include the commissioning test specified by IEEE Standard 1547 section 5.4 “Commissioning Tests.”

**145 “Distributed Generator Facility” or “DGF”** means the equipment used by an Interconnection Customer to generate or store electricity that operates in Parallel with the EDS. A DGF typically includes an electric generator, prime mover, and the Interconnection Equipment required to safely interconnect with the EDS or local electric power system.

- 146 “Distribution System Upgrade”** means a required addition or modification to the ~~EDC~~ EU’s EDS at or beyond the Point of Common Coupling (PCC) to accommodate the interconnection of a DGF. Distribution System Upgrades do not include Interconnection Facilities.
- 147 “Electric ~~Utility Distribution Company~~” or “~~EDC~~EU”** means an electric public utility that distributes electricity to customers and is subject to the jurisdiction of the Commission pursuant to the provisions of Mississippi Code Annotated §§ 77-3-1, *et seq.*
- 148 “Electric Distribution System” or “EDS”** means 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 EDSs operate differ among areas but generally carry less than 69 kilovolts of electricity. EDS has the same meaning as the term Area EPS, as defined in 3.1.6.1 of IEEE Standard 1547.
- 149 “Facilities Study”** means an engineering study conducted by the ~~EDC~~ EU to determine the required modifications to the ~~EDC~~ EU’s EDS, including the cost and the time required to build and install such modifications as necessary to accommodate an Interconnection Request.
- 150 “Fault Current”** means the electrical current that flows through a circuit during an electrical fault condition. A fault condition occurs when one or more electrical conductors contact ground or each other. Types of faults include phase to ground, double-phase to ground, three-phase to ground, phase-to-phase, and three-phase.
- 151 “Feasibility Study”** means a study performed to identify the existence of obvious adverse impacts before additional studies are undertaken for the proposed project to continue in the process.
- 152 “Governmental Authority”** mean any federal, state, local or other governmental regulatory or administrative agency, court, commission, department, board, or 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 such term does not include the Interconnection Customer, ~~EDC~~ EU or any affiliate thereof.
- 153 “IEEE Standard 1547”** means the Institute of Electrical and Electronics Engineers, Inc. (IEEE) Standard 1547 (2003) "Standard for Interconnecting Distributed Resources with Electric Power Systems," as amended and supplemented at the time the Interconnection Request is submitted.

- 154 “IEEE Standard 1547.1”** means the IEEE Standard 1547.1 (2005) "Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems," as amended and supplemented at the time the Interconnection Request is submitted.
- 155 “Interconnection Agreement” or “Agreement”** means a form of interconnection agreement approved by the Commission which is applicable to Interconnection Requests pertaining to DGFs. The agreement between the Interconnection Customer and the EDC EU governs the connection of the DGF to the EDC EU’s EDS, as well as the ongoing operation of the DGF after it is connected to the EDC EU’s EDS.
- 156 “Interconnection Application” or “Application”** means a form of interconnection application approved by the Commission which is applicable to Interconnection Requests pertaining to DGFs. This application provides the information needed by the EDC EU to review the request for interconnection. For the Level 1 review process, the Application and Agreement are part of the same document.
- 157 “Interconnection Customer”** means an entity that submits an Interconnection Request for a DGF to an EDC EU’s EDS.
- 158 “Interconnection Equipment”** means a group of equipment, components, or an integrated system connecting an electric generator with a local electric power system or an EDS 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.
- 159 “Interconnection Facilities”** means facilities and equipment required by the EDC EU to accommodate the interconnection of a DGF. Collectively, Interconnection Facilities include all facilities and equipment between the DGF and the PCC, including modification, additions, or upgrades that are necessary to physically and electrically interconnect the DGF to the EDS. Interconnection facilities are sole use facilities and do not include Distribution System Upgrades.
- 160 “Interconnection Request”** means an Interconnection Customer's request, in the form of an Application approved by the Commission, requesting the interconnection of a new DGF, or to increase the capacity or modify operating characteristics of an existing approved DGF that is interconnected with the EDC EU’s EDS.
- 161 “Line Section”** means that portion of an EDC EU’s distribution system connected to an Interconnection Customer, bounded by automatic sectionalizing devices or the end of the distribution line.
- 162 “Local Electric Power System” or “Local EPS”** means facilities that deliver electric power to a load that are contained entirely within a single premises or group of premises. Local electric power system has the same meaning as the term local electric power system defined in 3.1.6.2 of IEEE Standard 1547.

- 163 “Minor Equipment Modification”** means changes to the DGF that do not have a material impact on safety or reliability of the EDS.
- 164 “Mississippi Distributed Generation Interconnection Rule (MDGIR)”** means the most current version of the procedures for interconnecting Distributed Generator Facilities adopted by the Mississippi Public Service Commission.
- 165 “Nameplate Capacity”** means the maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer and is usually indicated on a nameplate physically attached to the power production equipment.
- 166 “Nationally Recognized Testing Laboratory” or “NRTL”** means a qualified private organization that meets the requirements of the Occupational Safety and Health Administration's (OSHA) regulations. NRTLs perform independent safety testing and product certification. Each NRTL shall meet the requirements as set forth by OSHA in the NRTL program.
- 167 “Parallel Operation” or “Parallel”** means the sustained state of operation over 100 milliseconds, which occurs when a DGF is connected electrically to the EDS and thus has the ability for electricity to flow from the DGF to the EDS.
- 168 “Point of Common Coupling” or “PCC”** means the point where the DGF is electrically connected to the EDS. Point of common coupling has the same meaning as defined in 3.1.13 of IEEE Standard 1547.
- 169 “Primary Line”** means a distribution line rated at greater than 600 volts.
- 170 “Production Test”** means production test as defined in IEEE Standard 1547.
- 171 “Queue Position”** means the order of a valid Interconnection Request, relative to all other pending valid Interconnection Requests, that is established based upon the date and time of receipt of the valid Interconnection Request by the ~~EDC~~ EU.
- 172 “Radial Distribution Circuit”** means a circuit configuration where independent feeders branch out radially from a common source of supply. From the standpoint of a utility system, the area described is between the generating source or intervening substations and the customer’s entrance equipment. A radial distribution system is the most common type of connection between a utility and load in which power flows in one direction from the utility to the load.
- 173 “Scoping Meeting”** means a meeting between representatives of the Interconnection Customer and ~~EDC~~ EU conducted for the purpose of discussing alternative interconnection options, exchanging information including any EDS data and earlier

study evaluations that would be reasonably expected to impact interconnection options, analyzing information, and determining the potential feasible points of interconnection.

- 174 “Secondary Line”** means a service line subsequent to the Primary Line that is rated for 600 volts or less, also referred to as the customer’s service line.
- 175 “System Impact Study”** means a study that identifies the electric system impacts that would result if the proposed DGF were interconnected without DGF modifications or EDS modifications, focusing on the Adverse System Impacts identified in the Feasibility Study.
- 176 “UL Standard 1741”** means Underwriters Laboratories' standard titled "Inverters Converters, and Controllers for Use in Independent Power Systems,” as amended and supplemented at the time the Interconnection Request is submitted.
- 177 “Witness Test”** means verification (~~either by an~~ through on-site observation ~~or review of documents~~) by the ~~EDC~~ EU that the 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 Certified, the Witness Test shall also include the verification by the ~~EDC~~ EU of the on-site design tests as required by IEEE Standard 1547 Section 5.1 and verification by the ~~EDC~~ EU of Production Tests required by IEEE Standard 1547 Section 5.2. All tests verified by the ~~EDC~~ EU are to be performed in accordance with the applicable test procedures specified by IEEE Standard 1547.1.

### **Chapter 03: INTERCONNECTION REQUESTS, FEES, AND FORMS**

- 104** Interconnection Customers seeking to interconnect a DGF shall submit an Interconnection Request to the ~~EDC~~ EU that owns the EDS to which interconnection is sought, using an application approved by the Commission. Electronic versions of such Commission-proved Application forms shall be posted on the ~~EDC~~ EU’s website. The ~~EDC~~ EU shall establish processes for accepting Interconnection Requests electronically.
- 105** When an Interconnection Customer is not currently a customer of the ~~EDC~~ EU at the proposed PCC, upon request from the ~~EDC~~ EU, the Interconnection Customer shall provide proof of site control evidenced by a property tax bill, deed, lease agreement, or other legally binding contract.
- 106** Interconnection fees shall be governed as follows for all Interconnection Requests and shall be published on each ~~EDC~~ EU’s website:
1. An ~~EDC~~ EU may not charge an application, or other fee, to an applicant that requests Level 1 interconnection review. However, if an application for Level 1 interconnection review is denied because it does not meet the requirements for Level 1 interconnection review and the applicant resubmits the application under



another review procedure in accordance with the MDGIR, the EDC EU may impose a fee for the resubmitted application, consistent with this section.

2. For a Level 2 interconnection review, the EDC EU may charge fees of up to \$50.00 plus \$1.00 per kilowatt of the customer-generator facility's capacity, plus the reasonable cost of any required minor modifications to the electric distribution system or additional review. Costs for such minor modifications or additional review will be based on the EDC EU's non-binding, good faith estimates and the ultimate actual installed costs. Costs for engineering work done as part of any additional review will not exceed \$100.00 per hour.
  3. For a Level 3 interconnection review, the EDC EU may charge fees of up to \$100.00 plus \$2.00 per kilowatt of the customer-generator facility's capacity, as well as charges for actual time spent on any required impact or facilities studies. Costs for engineering work done as part of an impact study or interconnection facilities study will not exceed \$100.00 per hour. If the EDC EU must install facilities in order to accommodate the interconnection of the customer generating facility, the cost of such facilities will be the responsibility of the applicant.
- 107** When the EDC EU determines that an Interconnection Request is complete, a modification of DGF design by the Interconnection Customer other than a Minor Equipment Modification that is not agreed to in writing by the EDC EU shall require submission of a new Interconnection Request.

#### **Chapter 04: INTERCONNECTION REVIEW LEVELS**

- 103** The EDC EU shall review Interconnection Requests using one of the three levels of review procedures established below. The EDC EU shall first use the level of DGF Agreement specified by the Interconnection Customer in the Application. The EDC EU may not impose additional requirements not specifically authorized unless the EDC EU and the Interconnection Customer mutually agree to do so in writing.
- 104** When an Interconnection Request is for an increase in capacity for an existing DGF, the Interconnection Request shall be evaluated on the basis of the new total Nameplate Capacity of the DGF.
- 105** When an Interconnection Request is for a DGF that includes multiple energy production devices at a site for which the Interconnection Customer seeks a single PCC, the Interconnection Request shall be evaluated on the basis of the aggregate Nameplate Capacity of the multiple devices.

#### **Chapter 05: LEVEL 1 INTERCONNECTION REVIEWS**

- 106** The EDC EU shall use Level 1 review procedures to evaluate Interconnection Requests when:

1. The DGF is inverter-based;
2. The DGF has a Nameplate Capacity of ~~2040~~ kW or less; and
3. The Interconnection Equipment proposed for the DGF is Certified.

**107** For Level 1 Interconnection Review, the ~~EDC~~ EU shall first evaluate the potential for Adverse System Impacts using the following screens, which must be satisfied:

1. For interconnection of a proposed DGF to a Line Section on a Radial Distribution Circuit, the aggregated generation on the Line Section, including the proposed DGF, shall not exceed 15% of the Line Section annual peak load.
2. When a proposed DGF is to be interconnected to a single-phase shared Secondary Line, the aggregate generation capacity on the shared Secondary Line, including the proposed DGF, may not exceed 20 kW.
3. When a proposed DGF is single-phase and is to be interconnected to a center tap neutral of a 240 volt service, its addition may not create an imbalance between the two sides of the 240 volt service of more than 20% of the nameplate rating of the service transformer.
4. Construction of facilities by the ~~EDC~~ EU on its own system is not required to accommodate the DGF.

**108** The Level 1 Interconnection Review shall then be conducted in accordance with the following procedures:

1. An ~~EDC~~ EU shall, within 10 business days after receipt of the Interconnection Request, inform the Interconnection Customer in writing or by electronic mail that the Interconnection Request is complete or incomplete and indicate what, if any, materials are missing.
2. When an Interconnection Request is complete, the ~~EDC~~ EU shall assign a Queue Position.
3. The ~~EDC~~ EU shall, within 15 business days after notifying a Level 1 applicant that the application is complete, indicate that the DGF equipment meets all Level 1 criteria, verify the DG can be interconnected safely and reliably using Level 1 screens, and provide a conditionally approved Level 1 Interconnection Application Form and Agreement to the Interconnection Customer.

**109** Unless the ~~EDC~~ EU determines and demonstrates to the Interconnection Customer that a DGF cannot be interconnected safely or reliably to its system and provides a letter to the Interconnection Customer explaining its reasons for denying an Interconnection

Request, the ~~EDC~~ EU's final approval of the Interconnection Agreement is subject to the following conditions:

1. 'The DGF has been approved by local or municipal electric code officials with jurisdiction over the interconnection;
2. The ~~EDC~~ EU has received the required information on the Certificate of Completion from the Interconnection Customer. Completion of local inspections may be designated on inspection forms used by local inspecting authorities; and
3. The ~~EDC~~ EU has ~~either waived the right to a Witness Test or has~~ completed its Witness Test in accordance with the MDGIR.

**110** Within 10 business days of the estimated commissioning date indicated on the Interconnection Request, the ~~EDC~~ EU shall ~~may~~, upon reasonable notice and at a mutually convenient time, conduct a Witness Test of the DGF to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with applicable codes. ~~If the EDC does not perform the Witness Test within the 10 business day period or such other time as is mutually agreed to by the parties, the Witness Test is deemed waived.~~

**111** When a DGF is not approved under a Level 1 review, the Interconnection Customer may submit a new Interconnection Request for consideration under Level 2 or Level 3 procedures.

#### **Chapter 06: LEVEL 2 INTERCONNECTION REVIEWS**

**111** The ~~EDC~~ EU shall use the Level 2 Interconnection Review procedure to evaluate an Interconnection Request when:

1. The DGF has a Nameplate Capacity rating of 2 MW or less; ~~and~~
2. The Interconnection Equipment proposed for the DGF is Certified; and
3. The aggregated total of the Nameplate Capacity of all of the generators on the circuit, including the proposed DGF, is 2 MW or less.

~~or when:~~

- ~~4. The DGF has a Nameplate Capacity of 10 MW or less; and~~
- ~~5. The aggregated total of the Nameplate Capacity of all of the generators on the circuit, including the proposed DGF, is 10 MW or less; and~~
- ~~6. The DGF uses reverse power relays or other protection functions that prevent power flow onto the EDS; and~~

~~7. The DGF is not served by a shared transformer.~~

- 112** No construction of facilities by an ~~EDC~~ EU shall be required to accommodate the DGF, except as permitted by an additional review for minimal modifications of the EDS, as described in these Level 2 procedures.
- 113** For Level 2 Interconnection Review, the ~~EDC~~ EU first shall evaluate the potential for Adverse System Impacts using the following screens, which must be satisfied:
1. For interconnection of a proposed DGF to a radial distribution circuit, the aggregated generation on the Line Section, including the proposed DGF, may not exceed 15% of the Line Section annual peak load.
  2. The proposed DGF, in aggregation with other generation on the distribution circuit, may not contribute more than 10% to the distribution circuit's maximum Fault Current at the point on the Primary Line nearest the Point of Common Coupling (PCC).
  3. The proposed DGF, in aggregate with other generation on the distribution circuit, may not cause any distribution protective devices and equipment (including substation breakers, fuse cutouts, and line reclosers), or other customer equipment on the EDS to be exposed to Fault Currents exceeding 87.5% of the short circuit interrupting capability. The Interconnection Request may not receive approval for interconnection on a circuit that already exceeds 87.5% of the short circuit interrupting capability.
  4. When a DGF is to be connected to three-phase, three-wire primary ~~EDC~~ EU distribution lines, a three-phase or single-phase generator shall be connected phase-to-phase.
  5. When a DGF is to be connected to three-phase, four-wire primary ~~EDC~~ EU distribution lines, a three-phase or single-phase generator shall be connected line-to-neutral and shall be effectively grounded.
  6. When the proposed DGF is to be interconnected on a single-phase shared Secondary Line, the aggregate generation capacity on the shared Secondary Line, including the proposed DGF, shall not exceed 20 kW.
  7. When a proposed DGF is single-phase and is to be interconnected on a center tap neutral of a 240 volt service, its addition may not create an imbalance between the two sides of the 240 volt service of more than 20% of the nameplate rating of the service transformer.
  8. A DGF, in aggregate with other generation interconnected to the distribution side of a substation transformer feeding the circuit where the DGF proposes to

interconnect, may not exceed 10 MW in an area where there are known or posted transient stability limitations to generating units located in the general electrical vicinity.

9. No construction of facilities by an EDC EU on its own system shall be required to accommodate the DGF.
- 114** The Level 2 Interconnection Review shall then be conducted in accordance with the following procedures:
1. An EDC EU shall, within 10 business days after receipt of the Interconnection Request, inform the Interconnection Customer in writing or by electronic mail that the Interconnection Request is complete or incomplete and indicate what, if any, materials are missing. As part of this process, the EDC EU shall assign a Queue Position. The Queue Position of the Interconnection Request shall be used to determine the potential Adverse System Impact of the DGF based on the relevant screening criteria. If there are higher queued Interconnection Requests on the same radial line circuit, the EDC EU shall evaluate the Interconnection Requests by performing any Level 2 screens requiring aggregate capacity calculations and determine if the DGF in combination with the higher queued Interconnection Requests exceeds any of the aggregate capacity requirements. If an aggregate capacity requirement is exceeded, the EDC EU shall notify the Interconnection Customer and shall not be obligated to meet the timeline for reviewing the Interconnection Request until such time as the EDC EU has completed the review of all other Interconnection Requests that have a higher Queue Position and impact the aggregate capacity calculation that has been exceeded.
  2. At the time an EDC EU determines additional information is required to complete an evaluation, the EDC EU shall request the information. The time necessary to complete the evaluation may be extended by mutual agreement of the parties, but only to the extent of the time required for receipt of the additional information. During an extension of time to submit additional information, the EDC EU may not alter the Interconnection Customer's Queue Position.
  3. Within 20 business days after the EDC EU notifies the Interconnection Customer that it has received a completed Interconnection Request, the EDC EU shall:
    - a. Evaluate the Interconnection Request using the Level 2 screening criteria;
    - b. Review any analysis provided by the Interconnection Customer, using the same criteria used by the customer; and
    - c. Provide the Interconnection Customer with the EDC EU's evaluation, including a comparison of the results of its own analyses with those of

Interconnection Customer, if applicable. When an ~~EDC~~ EU does not have a record of receipt of the Interconnection Request and the Interconnection Customer can demonstrate that the original Interconnection Request was delivered, the ~~EDC~~ EU shall expedite its review to complete the evaluation of the Interconnection Request within 20 business days of the Interconnection Customer's re-submittal.

- 115** The ~~EDC~~ EU shall provide the Interconnection Customer a DGF Interconnection Agreement within 5 business days of its determination that the Interconnection Request passes the Level 2 screening criteria.
- 116** When a DGF has failed to meet one or more of the Level 2 screens, the ~~EDC~~ EU shall offer to perform additional review for minimal modifications of the EDS to determine whether minimal modifications to the EDS would enable the interconnection to be made consistent with safety, reliability and power quality criteria. The ~~EDC~~ EU shall provide the Interconnection Customer with a nonbinding, good faith estimate of the costs of additional review for minimal modifications of the EDS. The ~~EDC~~ EU shall undertake the additional review for minimal modifications of the EDS or the modifications only after the Interconnection Customer consents to pay for the review and modifications.
- 117** If the DGF fails one or more of the Level 2 screening criteria but the ~~EDC~~ EU determines that minimal modifications to the EDS would enable the DGF to interconnect safely and reliably, the ~~EDC~~ EU shall provide the Interconnection Customer a DGF Interconnection Agreement within 5 business days of making that determination.
- 118** If the ~~EDC~~ EU finds that the DGF cannot be interconnected with minimal modifications to the EDS, the ~~EDC~~ EU shall provide the Interconnection Customer a letter explaining its reasons for denying the Interconnection Request. The Interconnection Customer may submit a new Interconnection Request for consideration under a Level 3 interconnection review.
- 119** An Interconnection Customer shall have 30 business days to sign and return the Agreement. When an Interconnection Customer does not sign the DGF Interconnection Agreement within 30 business days, the Interconnection Request shall be deemed withdrawn unless the Interconnection Customer requests in writing prior to the expiration of the 30 business day period to extend the deadline. The ~~EDC~~ EU may not unreasonably deny the request for extension.
- 120** The DGF Interconnection Agreement shall not become final until:
5. The milestones agreed to in the DGF Interconnection Agreement are satisfied;
  6. The DGF is approved by electric code officials with jurisdiction over the interconnection;

7. The Interconnection Customer provides a Certificate of Completion to the ~~EDC~~ EU. Completion of local inspections may be designated on inspection forms used by local inspecting authorities; and
8. The Witness Test was successfully completed per the terms and conditions found in the Agreement, ~~unless waived by the EDC~~.

**121** If the DGF is not approved under a Level 2 review, the ~~EDC~~ EU shall provide the Interconnection Customer a letter explaining its reasons for denying the Interconnection Request. The Interconnection Customer may submit a new Interconnection Request for consideration under a Level 3 interconnection review. The Queue Position assigned to the Level 2 Interconnection Request shall be retained provided the request is made within 15 business days of notification that the current Interconnection Request is denied.

### **Chapter 07: LEVEL 3 INTERCONNECTION REVIEWS**

**104** The ~~EDC~~ EU shall use the Level 3 review procedure to evaluate an Interconnection Request when the Interconnection Customer requests Level 3 review.

**105** The Level 3 review shall be conducted in accordance with the following process:

1. An ~~EDC~~ EU shall, within 10 business days of receipt of an Interconnection Request, inform the Interconnection Customer in writing or by electronic means that the Interconnection Request is complete or incomplete and indicate what, if any, materials are missing.
2. When the Interconnection Request is deemed not complete, the ~~EDC~~ EU shall provide the Interconnection Customer with a written list detailing information required to complete the Interconnection Request. The Interconnection Customer shall have 10 business days to provide appropriate data in order to complete the Interconnection Request, or the Interconnection Request shall be considered withdrawn. The parties may agree to extend the time for receipt of the additional information. The Interconnection Request shall be deemed complete when the required information has been provided by the Interconnection Customer, or the parties have agreed that the Interconnection Customer may provide additional information at a later time.
3. When an Interconnection Request is complete, the ~~EDC~~ EU shall assign a Queue Position. The Queue Position of an Interconnection Request shall be used to determine the cost responsibility necessary for the facilities to accommodate the interconnection. The ~~EDC~~ EU shall notify the Interconnection Customer about other higher-queued Interconnection Customers that have the potential to impact the cost responsibility.
4. Level 3 Scoping Meetings shall be conducted as follows:

- a. By mutual agreement of the parties, the Scoping Meeting, interconnection Feasibility Study, interconnection System Impact Study, or interconnection Facilities Study provided for in a Level 3 review may be waived;
  - b. If agreed to by the parties, a Scoping Meeting shall be held within 10 business days, or other mutually agreed to time, after the ~~EDC~~ EU has notified the Interconnection Customer that the Interconnection Request is deemed complete, The purpose of the meeting shall be to review the Interconnection Request, existing studies relevant to the Interconnection Request, and the results of the Level 1 or Level 2 screening criteria;
  - c. When the parties agree at a Scoping Meeting that an interconnection Feasibility Study shall be performed, the ~~EDC~~ EU shall provide to the Interconnection Customer, no later than 5 business days after the Scoping Meeting, an interconnection Feasibility Study agreement, including an outline of the scope of the study and a nonbinding good faith estimate of the cost to perform the study;
  - d. When the parties agree at a Scoping Meeting that an interconnection Feasibility Study is not required, the ~~EDC~~ EU shall provide to the Interconnection Customer, no later than 5 business days after the Scoping Meeting, an interconnection System Impact Study agreement, including an outline of the scope of the study and a nonbinding good faith estimate of the cost to perform the study; and
  - e. When the parties agree at the Scoping Meeting that an interconnection Feasibility Study and System Impact Study are not required, the ~~EDC~~ EU shall provide to the Interconnection Customer, no later than 5 business days after the Scoping Meeting, an interconnection Facilities Study agreement including an outline of the scope of the study and a nonbinding good faith estimate of the cost to perform the study.
5. Any required interconnection studies shall be carried out using the following guidelines:
- a. An interconnection Feasibility Study shall include the following analyses and conditions for the purpose of identifying and addressing potential Adverse System Impacts to the ~~EDC~~ EU's EDS that would result from the interconnection:
  - b. Initial identification of any circuit breaker short circuit capability limits exceeded as a result of the interconnection;



- c. Initial identification of any thermal overload or voltage limit violations resulting from the interconnection;
  - d. Initial review of grounding requirements and system protection;
  - e. Description and nonbinding estimated cost of facilities required to interconnect the DGF to the ~~EDC~~ EU's EDS in a safe and reliable manner; and
  - f. Additional evaluations at the expense of the Interconnection Customer, when an Interconnection Customer requests that the interconnection Feasibility Study evaluate multiple potential points of interconnection.
6. An interconnection System Impact Study shall evaluate the impact of the proposed interconnection on both the safety and reliability of the ~~EDC~~ EU's EDS. The study shall identify and detail the system impacts that result when the proposed DGF is interconnected without project or system modifications, focusing on the Adverse System Impacts identified in the interconnection Feasibility Study and potential impacts including those identified in the Scoping Meeting. The study shall consider all generating facilities that, on the date the interconnection System Impact Study is commenced, are directly interconnected with the ~~EDC~~ EU's system, have a pending higher Queue Position to interconnect to the system, and have signed a DGF Interconnection Agreement.
- a. An interconnection System Impact Study shall be performed when the interconnection Feasibility Study identifies a potential distribution system Adverse System Impact. The ~~EDC~~ EU shall send the Interconnection Customer an interconnection System Impact Study agreement within 5 business days of transmittal of the interconnection Feasibility Study report. The agreement shall include an outline of the scope of the study and a good faith estimate of the cost to perform the study. The System Impact Study shall include:
    - i. A load flow study;
    - ii. Identification of affected systems;
    - iii. An analysis of equipment interrupting ratings;
    - iv. A protection coordination study;
    - v. Voltage drop and flicker studies;
    - vi. Protection and set point coordination studies;
    - vii. Grounding reviews; and
    - viii. Impact on system operation.
  - b. An interconnection System Impact Study shall consider the following criteria:
    - i. A short circuit analysis;

- ii. A stability analysis;
  - iii. Alternatives for mitigating Adverse System Impacts on affected systems;
  - iv. Voltage drop and flicker studies;
  - v. Protection and set point coordination studies; and
  - vi. Grounding reviews.
- c. The interconnection System Impact Study shall provide the following:
- i. The underlying assumptions of the study;
  - ii. The results of the analyses;
  - iii. A list of any potential impediments to providing the requested interconnection service;
  - iv. Required Distribution System Upgrades; and
  - v. A nonbinding good faith estimate of cost and time to construct any required Distribution System Upgrades.
- d. The parties shall use an interconnection System Impact Study agreement approved by the Commission.

7. The interconnection Facilities Study shall be conducted as follows:

- a. Within 5 business days of completion of the interconnection System Impact Study, the ~~EDC~~ EU shall send a report to the Interconnection Customer with an interconnection Facilities Study agreement, which includes an outline of the scope of the study and a nonbinding good faith estimate of the cost to perform the study;
- b. The interconnection Facilities Study shall estimate the cost of the equipment, engineering, procurement and construction work including overheads needed to implement the conclusions of the interconnection Feasibility Study and the interconnection System Impact Study to interconnect the DGF. The interconnection Facilities Study shall identify:
  - i. The electrical switching configuration of the equipment, including transformer, switchgear, meters and other station equipment;
  - ii. The nature and estimated cost of the ~~EDC~~ EU's Interconnection Facilities and Distribution System Upgrades necessary to accomplish the interconnection; and
  - iii. An estimate of the time required to complete the construction and installation of the facilities;
- c. The parties may agree to permit an Interconnection Customer to separately arrange for a third party to design and construct the required

Interconnection Facilities. The ~~EDC~~ EU may review the design of the facilities under the interconnection Facilities Study agreement. When the parties agree to separately arrange for design and construction and to comply with security and confidentiality requirements, the ~~EDC~~ EU shall make all relevant information and required specifications available to the Interconnection Customer to permit the Interconnection Customer to obtain an independent design and cost estimate for the facilities, which shall be built in accordance with the specifications;

- d. Upon completion of the interconnection Facilities Study, and with the agreement of the Interconnection Customer to pay for the Interconnection Facilities and Distribution System Upgrades identified in the interconnection Facilities Study, the ~~EDC~~ EU shall provide the Interconnection Customer with a DGF Interconnection Agreement within 5 business days; and
8. When an ~~EDC~~ EU determines, as a result of the interconnection studies conducted under a Level 3 review, that it is appropriate to interconnect the DGF, the ~~EDC~~ EU shall provide the Interconnection Customer with a DGF Interconnection Agreement. If the Interconnection Request is denied, the ~~EDC~~ EU shall provide a written explanation setting forth the reasons for denial;
  9. An Interconnection Customer shall have 30 business days from receipt of the DGF Interconnection Agreement, unless another mutually agreeable time frame is reached, to sign and return the DGF Interconnection Agreement to the ~~EDC~~ EU. If an Interconnection Customer does not sign the DGF Interconnection Agreement within 30 business days, the Interconnection Request shall be deemed withdrawn unless the Interconnection Customer requests in writing, prior to the expiration of the 30 business-day period, to extend the deadline. The ~~EDC~~ EU may not unreasonably deny the request for extension. When construction is required, the interconnection of the DGF shall proceed according to milestones agreed to by the parties in the DGF Interconnection Agreement. The DGF Interconnection Agreement may not be final until:
    - a. The milestones agreed to in the DGF Interconnection Agreement are satisfied;
    - b. The DGF is approved by electric code officials with jurisdiction over the interconnection;
    - c. The Interconnection Customer provides a Certificate of Completion to the ~~EDC~~ EU. Completion of local inspections may be designated on inspection forms used by local inspecting authorities; and
    - d. The Witness Test was successfully completed per the terms and conditions found in the Agreement, ~~unless waived by the EDC.~~

- 106** An interconnection System Impact Study is not required when the interconnection Feasibility Study concludes there is no Adverse System Impact, or when the study identifies an Adverse System Impact, but the EDC EU is able to identify a remedy without the need for an interconnection System Impact Study.
- 107** The parties shall use a form of interconnection Feasibility Study agreement approved by the Commission.

### **Chapter 08: TECHNICAL STANDARDS**

- 101** The technical standard to be used in evaluating all Interconnection Requests under Level 1, Level 2, and Level 3 reviews, unless otherwise provided for in these procedures, is IEEE Standard 1547. IEEE 1547.2, “Application Guide for IEEE 1547 Standard for Interconnecting Distributed Resources with Electric Power Systems,” shall be used as a guide (but not a requirement) to detail and illustrate the interconnection protection requirements that are provided in IEEE 1547.

### **Chapter 09: POINT OF COMMON COUPLING**

- 101** To minimize the cost of interconnecting multiple DGFs, the EDC EU or the Interconnection Customer may propose a single PCC for multiple DGFs located at a single site. If the Interconnection Customer rejects the EDC EU's proposal for a single PCC, the Interconnection Customer shall pay the additional cost, if any, of providing a separate PCC for each DGF. If the EDC EU rejects the customer's proposal for a single PCC without providing a written technical explanation, the EDC EU shall pay the additional cost, if any, of providing a separate PCC for each DGF.

### **Chapter 10: RECORDS AND REPORTS**

- 102** An EDC EU shall maintain records of the following for a minimum of 3 years:
1. The total number of and the Nameplate Capacity of the Interconnection Requests received, approved and denied under Level 1, Level 2, and Level 3 reviews;
  2. The number of Interconnection Requests that were not processed within the timelines established in this rule;
  3. The number of Scoping Meetings held and the number of feasibility studies, impact studies, and facility studies performed and the fees charged for these studies;
  4. The justifications for the actions taken to deny Interconnection Requests; and
- 103** An EDC EU shall provide a report to the Commission containing the information required in paragraphs (a)-(d) above within 90 calendar days of the close of each year.

## **Chapter 11: INFORMATION FOR PROSPECTIVE INTERCONNECTION CUSTOMERS**

- 102** An EDC EU shall designate a contact person and contact information on its website and for the Commission's website for submission of all Interconnection Requests and from whom information on the Interconnection Request process and the EDC EU's EDS can be obtained regarding a proposed DGF. The information shall include studies and other materials useful to an understanding of the feasibility of interconnecting a DGF at a particular point on the EDC EU's EDS, except to the extent that providing the materials would violate security requirements or confidentiality agreements, or otherwise would be contrary to Mississippi or federal law and regulations. In appropriate circumstances, the EDC EU may require execution of a confidentiality agreement prior to release of information about the EDC EU's EDS.
- 103** When the EDC EU determines that an Interconnection Request is complete, a modification of DGF design by the Interconnection Customer other than a Minor Equipment Modification that is not agreed to in writing by the EDC EU shall require submission of a new Interconnection Request.

## **Chapter 12: ADDITIONAL TECHNICAL REQUIREMENTS**

- 105** DGFs shall be capable of being isolated from the EDC EU. For Level 2 and Level 3 interconnection, the isolation shall be by means of a lockable, visible-break isolation device whose status is clearly indicated and is accessible by the EDC EU. The isolation device shall be installed, owned and maintained by the owner of the DGF and located between the DGF and the PCC. A draw-out type circuit breaker with a provision for padlocking at the draw-out position can be considered an isolation device for purposes of this requirement. A draw-out type circuit breaker has a switching device capable of making, carrying and breaking currents under normal and abnormal circuit conditions such as those of a short circuit. A draw-out circuit breaker can be physically removed from its enclosure creating a visible break in the circuit. For the purposes of these regulations, the draw-out circuit breaker shall be capable of being locked in the open, draw-out position. Level 1 interconnections do not require an external isolation device.
- 106** A Level 2 or Level 3 Interconnection Customer may elect to provide the EDC EU access to an isolation device that is contained in a building or area that may be unoccupied and locked or not otherwise readily accessible to the EDC EU, by installing a lockbox provided by the EDC EU that shall provide ready access to the isolation device. The Interconnection Customer shall install the lockbox in a location that is readily accessible by the EDC EU, and the Interconnection Customer shall permit the EDC EU to affix a placard in a location of its choosing that provides clear instructions to EDC EU operating personnel on access to the isolation device. In the event that the Interconnection Customer fails to comply with the terms of this subsection and the EDC EU needs to gain access to the isolation device, the EDC EU shall not be held liable for any damages resulting from any necessary EDC EU action to isolate the Interconnection Customer.

- 107** Any metering necessitated by a DGF shall be installed, operated and maintained in accordance with applicable tariffs. Any such metering requirements shall be clearly identified as part of the DGF Interconnection Agreement executed by the Interconnection Customer and the EDC EU.
- 108** The EDC EU shall design, procure, construct, install, and own any Distribution System Upgrades. The actual cost of the Distribution System Upgrades, including overheads, shall be directly assigned to the Interconnection Customer. The Interconnection Customer may be entitled to financial contribution from any other EDC EU customers who may in the future utilize the upgrades paid for by the Interconnection Customer. Such contributions shall be governed by the rules, regulations, and decisions of the Commission.
- 109** The Interconnection Customer shall design its DGF to maintain a composite power delivery at continuous rated power output at the Point of Common Coupling at a power factor within the power factor range required by the EDC EU's applicable tariff for a comparable load customer. EDC EU may also require the Interconnection Customer to follow a voltage or VAR schedule if such schedules are applicable to similarly situated generators in the control area on a comparable basis and have been approved by the Commission. The specific requirements for meeting a voltage or VAR schedule shall be clearly specified in Attachment 3 of the "Mississippi Distributed Generator Interconnection Rule Level 2 and Level 3 Agreement for Interconnection of Distributed Generator Facilities." Under no circumstance shall these additional requirements for voltage support or reactive power exceed the normal operating capabilities of the DGF. The requirements in this paragraph may be additional to requirements in IEEE 1547.

### **Chapter 13: DISPUTES**

- 104** A party shall attempt to resolve all disputes regarding interconnection as provided in the MDGIR promptly, equitably, and in a good faith manner.
- 105** When a dispute arises, a party may seek immediate resolution through complaint procedures available through the Commission by providing written notice to the Commission and the other party stating the issues in dispute.
- 106** When disputes relate to the technical application of the MDGIR, the Commission may designate a technical consultant to resolve the dispute. Upon Commission designation, the parties shall use the technical consultant to resolve disputes related to interconnection. Costs for dispute resolution conducted by the technical consultant shall be established by the technical consultant and subject to review by the Commission. The EDC EU and the Interconnection Customer shall share equally the costs of an outside arbitrator unless they mutually agree to a different payment arrangement.

**107** Pursuit of dispute resolution shall not affect an Interconnection Customer with regard to consideration of an Interconnection Request or an Interconnection Customer's Queue Position.

## TITLE 39: UTILITIES

### PART IV: Mississippi Distributed Generator Interconnection and Net Metering

#### Subpart II: Mississippi Renewable Energy Net Metering Rule

##### Chapter 01: Introduction

- 101** The Mississippi Renewable Energy Net Metering Rule (MRENMR) sets forth technical and procedural requirements for Net Metering on qualified Distributed Generator Facilities (DGFs). These DGFs are also subject to the requirements of the Mississippi Distributed Generator Interconnection Rule (MDGIR).

##### Chapter 02: DEFINITIONS

The following capitalized terms, when used in this Rule, shall have the following meanings unless the context clearly indicates otherwise. These definitions are in addition to those found in the MGDIR, which also apply to the MRENMR.

- 111** **“Annualized Billing Period”** means ~~a period of 12 consecutive~~ the monthly billing periods used by an Electric Utility (EU) to measure usage and any excess energy exported by a DGF to the EU, and to bill customers. A Renewable Energy Net Metered Interconnection Customer’s (RENMIC’s) first annualized period begins on the first day of the first monthly billing period in which the RENMIC generates electricity using Renewable Energy on the electricity customer’s side of the meter under this MRENMR.
- 112** **“Avoided Cost of Wholesale Power”** means the cost to an ~~EU Electric Distribution Company (EDC)~~<sup>2</sup> of electric energy that the ~~EU-EDC~~ would generate itself or purchase from another source, such as from an organized wholesale power market, but for the purchase from a the Renewable Energy Net Metered Interconnection Customer (RENMIC)s. In essence, the avoided cost is the marginal cost to produce or purchase one more unit of electrical energy. When a RENMIC delivers electricity to an EU EDC, the EU-EDC will reduce the equivalent amount of electricity that either is generated at its most expensive operating plant that is not running for reliability purposes or is purchased from an organized wholesale power market. For power generated by an EU, — ~~the cost avoided consists of the cost of fuel needed to produce that electricity and the corresponding portion of the plant’s operation and maintenance costs and shall include an appropriate average line loss adjustment.~~ No capacity credit is given as part of the calculation of Avoided Cost of Wholesale Power. For an EU that is a member of a regional transmission organization (RTO), the Avoided Cost of Wholesale Power shall be the average real-time locational marginal price (LMP) calculated by the RTO for the EU’s load zone(s). Such LMP may be adjusted to reflect the daytime energy production of a solar PV system and shall include an appropriate average line loss adjustment.

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<sup>2</sup> An EU is an electric utility within the meaning of Miss. Code Ann. section 77-3-3(d)(i) (Supp 2014).



- 113** “Non-Quantifiable Expected Benefits” means a temporary adjustment to be included in the Total Benefits of Distributed Generation for benefits of distributed generation that, while expected to occur, are currently non-quantifiable. The Non-Quantifiable Expected Benefits shall be no more than 2.5 cents per kilowatt hour for no longer than three (3) years after the effective date of this rule, which shall serve as a proxy for the Actual Benefits of Distributed Generation further defined below.
- 114** “Actual Benefits of Distributed Generation” means actual, quantifiable benefits realized by installed distributed generation over and above the Avoided Cost of Wholesale Power, which shall be calculated based upon information derived from the report of a third party consultant chosen by the Commission (further described below) and the experience of the utilities since implementation of this rule, as well as any additional information that may be available in the industry at that time. The calculation of the Actual Benefits of Distributed Generation shall replace the temporary Non-Quantifiable Expected Benefits no later than three (3) years following the effective date of this rule.
- 115** “Low-Income Benefits Adder” means an additional amount to be included in the Total Benefits of Distributed Generation that shall flow to the first 1,000 qualifying customers whose household income is at or below 200% of the federal poverty level (or similar requirement proposed by the EU to be approved by the Commission) who is approved to take service under the EU’s net metering tariff. Beginning with the effective date of this rule, the Low-Income Benefits Adder shall be equal to 2 cents per kilowatt hour. To provide sufficient financial certainty to qualifying low income customers that install DGFs, this Low-Income Benefits Adder shall remain in place for a period of fifteen (15) years from the date the customer begins taking net metering service under the EU’s net metering tariff.
- 116** “Total Benefits of Distributed Generation” means the total amount – expressed in cents per kilowatt hour - that shall be credited to EU customers as a result of excess energy exported by a DGF to the EU, which shall include the Avoided Cost of Wholesale Power plus the Non-Quantifiable Expected Benefits or the Actual Benefits of Distributed Generation, plus, if applicable, the Low-Income Benefits Adder, as further outlined in this rule.
- 117** “Exit Fee” means a fee that is paid by a customer that reduces load by using a DGF and is intended to compensate the ~~EUEDC~~ in whole or part for the loss of fixed cost contribution from that customer. Exit fees are not allowed under this Rule, unless otherwise approved by the Commission.
- 118** “Renewable Energy Net Metered Interconnection Customer” or “RENMIC” is any electricity customer, such as an industrial, large commercial, residential or small commercial customer, that generates electricity on the customer's side of the meter using a Renewable Energy source. The electricity customer must ~~does not need to own or lease~~ the DGF producing the Renewable Energy on the electricity customer's side of

the meter in order to qualify as a RENMIC under this MRENMR, unless otherwise approved by the Commission.

**119 “Net Metering”** means measuring ~~the difference between~~ the real-time kilowatt-hours supplied by the EU to the RENMIC ~~EDC~~ and the kilowatt-hours produced by ~~at~~ the RENMIC’s DGF and exported ~~fed back~~ to the EU ~~EDC~~ over the applicable ~~to~~ Billing ~~period.~~ Net metering includes the real-time displacement of kilowatt-hours that otherwise would be provided by the EU by kilowatt-hours that were generated by the RENMIC’s DGF. An EU may employ a multi-channel meter for separately measuring the RENMIC’s electric usage and excess energy exported to the EU.

**120 “Renewable Energy”** means electric energy produced from solar technologies, wind energy, geothermal technologies, wave or tidal action, hydro-power facilities, and biomass. Any energy derived from fossil fuels is not considered renewable and does not qualify under the MRENMR.

**121 “Biomass”** means a power source that is comprised of combustible solids or gases from forest products, manufacturing, waste, or byproducts; products from agricultural and orchard crops; waste or co-products from livestock and poultry operations; waste or byproducts from food processing; urban wood waste; municipal liquid waste treatment operations; and landfill gas.

### **Chapter 03: NET METERING REQUIREMENTS**

**116** This MRENMR sets forth the Net Metering requirements that apply to EUs ~~Electric Distribution Companies (EDCs) which~~ that have customers who self-generate electricity with Renewable Energy on the customer's side of the EU’s meter that wish to Net Meter, as indicated by the customer on the Standard Application. These customers are referred to as ~~a Renewable Energy Net Metered Interconnection Customers~~ (RENMICs) in this Rule.

**117** All EU ~~EDCs~~ shall offer Net Metering to any customer that seeks to generates electricity on the customer's side of the EU’s meter using Renewable Energy sources, provided:

1. For residential customers, Net Metering ~~N~~ nameplate direct current capacity of the aggregated DGFs at the ~~facility~~ customer’s premises shall be limited to ~~40~~ 20 kW and shall meet the requirements of the MDGIR;
2. For non-residential customers, Net Metering ~~N~~ nameplate direct current capacity for the aggregate DGFs at the customer’s premises shall be limited to 2 MW and shall meet the requirements of the MDGIR.

**118** EU ~~EDC~~ may refuse additional net metering requests if the ~~combined~~ total Net Metering direct current capacity in kW, as reported through these requirements, exceeds at any time 3 percent of the EU’s ~~if current~~ total ~~distribution~~ system peak demand expressed in kW recorded during the prior calendar year.

- 119** Each EU/EDC shall develop a tariff for Net Metering and interconnection policies in concordance with this MRENMR and the MDGIR. Each EU/EDC shall make Net Metering available to eligible RENMICs on a first-come, first-served basis until such time as the aforementioned cap has been reached.
- 120** An EU/EDC shall provide Net Metering at non-discriminatory rates that are identical, with respect to rate structure and level, retail rate components, and any monthly fixed charges, to the rates that a RENMIC would be charged if not a RENMIC, unless otherwise approved by the Commission.
- 121** In each ~~monthly~~ Billing p-Period, ~~electricity energy~~ energy supplied ~~from~~ to the RENMIC ~~from the EU to the EDC~~ as recorded on the EU's bi-directional net meter will be billed using appropriate commission-approved rate and rider schedules. This provisoin means that energy self-supplied by the RENMIC, up to the amount supplied from the EU/EDC to the RENMIC (e.g., through the recording of meter Channel 1), will be credited to the bill ~~RENMIC~~ at the full retail rate (i.e., effectively displacing energy supplied from the EU). During that same Billing Period, any excess energy supplied from the RENMIC to the EU and recorded on the EU's bi-directional net meter in kWh (e.g., through meter Channel 2) will be credited on the RENMIC's bill at the applicable Total Benefits of Distributed Generation expressed in cents per kWh and shall be accounted for through the EU's fuel adjustment clause. If in any monthly billing period a RENMIC supplies more electricity to the EDC than the EDC delivers to the RENMIC, the EDC shall credit the RENMIC by carrying over any excess kWh credits earned and applying those credits to subsequent billing periods to offset any EDC produced electricity consumed by the RENMIC in those billing periods until the end of each Annualized Period. At that point, the EDC shall compensate the RENMIC for any remaining credited excess kilowatt-hours generated at the EDC EU's Avoided Cost of Wholesale Power, and each new Annualized Period shall begin with zero kWh credits. The customer's monthly bill will be the total of billing for any usage (i.e., as recorded on meter Channel 1) subject to any customer charge and/or minimum bill provisions in the EU's rate and rider schedules less any credit due to the customer from excess energy exported to the EU (i.e., as recorded on meter Channel 2). If the sum total of the monthly bill is negative, any such amount will be carried over to the next Billing Period and applied to any charges arising during the subsequent Billing Period.
- 122** Beginning with the effective date of this rule, Total Benefits of Distributed Generation shall temporarily be equal to the Avoided Cost of Wholesale Power plus Non-Quantifiable Expected Benefits. Further, Non-Quantifiable Expected Benefits shall be equal to 2.5 cents/kWh, which may be modified downward at any time by order of this Commission, should the Commission find it is in the public interest to do so. Within sixty (60) days of the effective date of this rule, each EU shall file with the Commission net metering tariffs consistent with the provisions of this rule for consideration and approval by the Commission.

**123** In the calculation of Total Benefits of Distributed Generation, Non-Quantifiable Expected Benefits shall be replaced and subsumed by Actual Benefits of Distributed Generation no later than three (3) years following the effective date of this rule. In order to develop a calculation for Actual Benefits of Distributed Generation within that three-year timeframe, the Commission shall cause a study to be performed by an independent consultant beginning no earlier than one year after the effective date of this rule, the costs of which shall be paid by each EU whose rates are regulated by the Commission under the Mississippi Public Utilities Act, §§ 73-3-1 et seq., and recovered through each such EU's net metering tariff. Said independent consultant will work collaboratively with the utilities and gather information from other stakeholders to provide the Commission with guidance in developing a calculation of benefits that can be demonstrated to have been realized and quantified as a result of the adoption of distributed generation in Mississippi. No later than three (3) years from the effective date of this rule, the Commission shall instruct each EU to file modifications to their net metering tariffs to reflect a calculation of Actual Benefits of Distributed Generation consistent with conclusions of the study and data provided by the EUs.

**124** Each new Billing Period shall begin with zero kWh credits to the RENMIC; however, subject to the provisions above, the customer may carry over any value of energy credit arising from the prior Billing Period(s). When a customer closes his or her account with the EU, if the RENMIC has accumulated a dollar balance as a result of excess energy delivered to the EU, any such balance, net of costs owed to the EU, shall be paid to the RENMIC.

~~The Annualized Period shall start the first day of the first monthly billing period the RENMIC generates electricity with Renewable Energy on the customer's side of the meter under this MRENMR.~~

~~A RENMIC shall retain this Annualized Period permanently unless either of the following occurs:—~~

- ~~1. The RENMIC switches EDCs. In such a case, the EDC with whom service is terminating shall treat the end of the service period as if it were the end of the Annualized Period; or~~
- ~~2. The EDC, at its discretion, chooses to accept a RENMIC's request for a new Annualized Period.~~

**125** Credit for any excess energy exported to the EU kWh credits shall not be applied to reduce any fixed monthly customer charges or minimum bill provisions imposed by the EUEDC under Commission-approved rate and rider schedules.

**126** An EUEDC shall offer a RENMIC the choice of a time differentiated energy tariff rate or a non-time-differentiated energy tariff rate, if the EUEDC offers the choice to customers in the same rate class as the RENMIC. If a RENMIC uses a retail billing arrangement that has time-differentiated rates, the EUEDC shall net any excess

production from the DGFs against the customer's on-site consumption within the same time-of-use period in the Billing Period and any excess energy exported to the EU kWh credits will apply to the same time-of-use period be credited as described above.

- 127** Any renewable energy credits (RECs) created by the RENMIC are the property of the RENMIC, unless otherwise approved by the Commission. The EU shall not charge any back-up, standby, or Exit Fees to a RENMIC, unless otherwise approved by the Commission.

~~The EDC shall not charge any back-up, standby, or Exit Fees to RENMICs.~~

- 128** An ~~EUEDC~~ shall not charge a RENMIC any fee or charge, or require additional equipment, insurance or any other requirement, unless the fee, charge, or other requirement is specifically authorized in this MRENMR or the MDGIR, or the fee would apply to other customers in the same rate class that are not RENMICs, unless otherwise approved by the Commission.

- 129** All RENMICs must be electrically interconnected with their ~~EUEDC~~ pursuant to the provisions of the MDGIR. All rules and regulations for interconnected DGFs within the MDGIR apply to RENMICs. Any Distribution System Upgrades, including additional equipment needed that is associated with the export of electricity, shall be at the RENMIC's expense, per the MDGIR.

- 130** As a further requirement under this rule, each EU shall file with the Commission within three months of the effective date of this rule the EU's plan to publicize and inform its customers, whether through a website, a bill insert, or other form of communication, of the opportunities available to interconnect DGFs and receive compensation for excess energy delivered to the grid.

- 131** Nothing in this document shall abrogate any person's obligation to comply with all applicable Federal or State laws, rules or regulations, including the MDGIR.

#### **Chapter 04: METERS AND METERING**

- 104** A RENMIC ~~DGF~~ shall be equipped with metering equipment that can measure the flow of electricity in each both directions at the same time rate. This is typically accomplished through use of a single bi-directional meter that records customer usage as well as excess energy exported to the EU (e.g., energy supplied to the customer net of the output of the RENMIC is measured on Channel 1 and excess energy supplied by the RENMIC to the EU in excess of the customer's requirements is measured on Channel 2).

- 105** An ~~EU RENMIC~~ may choose to use an existing electric revenue meter if the following criteria are met:

1. The meter is capable of measuring the flow of electricity both into and out of the

RENMIC's ~~facility~~ at the same time rate; and

2. The meter is accurate to within plus or minus five percent when measuring electricity flowing from the RENMIC facility to the Electric Distribution System (EDS).

- 106** If the RENMIC's existing electric revenue meter does not meet the requirements above, the ~~EU~~EDC shall install a new revenue meter for the RENMIC, at the RENMIC's expense, within 10 business days after the interconnection agreement is executed and is approved. If the ~~RENMIC uses a retail billing arrangement that has~~ EU offers a time-differentiated rates chosen by the RENMIC, the meter shall have the capability to ~~meter excess production against on-site consumption within the same time-of-use period in the monthly billing period~~ appropriately record energy flows in each direction during any time-differentiated period.
- 107** Any subsequent revenue meter change will be at the ~~EDC~~ EU's expense, meaning such meter expense will not be charged to an individual RENMIC but shall become part of the EU's overall cost of service and subsequent revenue requirement.

#### **Chapter 05: REPORTING REQUIREMENTS**

- 102** Each ~~EU~~EDC with one or more RENMICs connected to its grid ~~EDS~~ shall submit to the Mississippi Public Service Commission a Net Metering report within 90 days of the end of ~~the each~~ calendar year. The report shall include the following information regarding RENMICs during the reporting period:
1. The ~~estimated~~ total energy expressed in kilowatt-hours supplied to the EU's grid ~~EDS~~ by RENMICs and a description of ~~the~~ any estimation methodology used;
  2. The total number of RENMICs that were paid for excess generation energy exported to the EU at the end of ~~the any~~ RENMICs' Annualized Billing Period(s) during the prior calendar year;
  3. The total dollar amount by month that the ~~EU~~EDC paid to RENMICs for excess generation energy exported to the EU at the end of ~~the~~ RENMIC Annualized Periods during the prior calendar year;
  4. The total number of net metering facilities DGFs by resource type that were interconnected at the end of the prior calendar year;
  5. The ~~range and~~ total rated nameplate direct current generating capacity of net metering facilities DGFs installed during the prior calendar year broken out by resource type; and

6. The percentage of ~~distribution~~ the EU's total system peak demand from the prior calendar year represented by the total rated nameplate direct current generating capacity of net metering DGFs facilities.

- 103 For purposes of these reporting requirements, any estimates shall be made using Commission-approved protocols unless no such protocols are available, in which case the estimates shall be accompanied by detailed calculations demonstrating how the estimates were made.

#### **Chapter 06: SAFETY AND CONSUMER PROTECTION WORKING GROUP**

- 101 In order to ensure adequate safeguards for safety and consumer protection, a joint working group shall be established between representatives of the Commission, the Mississippi Public Utilities Staff, the Office of the Mississippi Attorney General, and qualified stakeholders, as identified and requested by the working group. Prior to January 1, 2017, the working group shall establish and present to the Commission an initial set of consumer protection and safety standards and guidelines related to the installation and use of distributed generation systems. Thereafter, the working group shall reconvene as necessary to discuss additional issues related to net metering as they arise, and to present any recommendations on such issues to the Commission.

#### **Chapter 07: REOPENER**

- 101 Five years from the effective date of this Rule, the Commission shall open a new docket to assess the efficacy and functionality of the MRENMR, and make any subsequent revisions or modifications of the Rule that may be deemed necessary at that time.

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**APPENDIX "A"      Mississippi Distributed Generator Interconnection Rule Proposed  
Level 1 Application Form and Agreement for Interconnection of  
Distributed Generation Facilities**

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**Interconnection Customer Contact Information**

Name \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Alternative Contact Information (if Different from Customer Contact Information)**

Name: \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Distributed Generator Facility (DGF) Equipment Contractor**

Name: \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Electrical Contractor** (if different from DGF equipment contractor):

Name: \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_  
License number: \_\_\_\_\_





**Interconnection Customer Signature**

I hereby certify that: 1) I have read and understand the terms and conditions which are attached hereto by reference and are a part of this Agreement; 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.

Interconnection Customer signature: \_\_\_\_\_

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

~~An application fee of \$100 is required before the application can be processed. Please verify that the fee is included with the application: Application fee included~~

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**Conditional Agreement to Interconnect the DGF (for ~~EDC~~ EU use only)**

Receipt of the application fee is acknowledged and, by its signature below, the ~~EDC~~ EU has determined the Interconnection Request is complete. Interconnection of the DGF is conditionally approved contingent upon the attached terms and conditions of this agreement, the return of the attached Certificate of Completion duly executed, and verification of electrical inspection and successful Witness Test ~~or EDC waiver thereof~~.

~~EDC~~ EU Signature: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_

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

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**Terms and Conditions for Interconnection**

- 3) **Construction of the DGF.** The Interconnection Customer may proceed to construct (including operational testing not to exceed 2 hours) the DGF once the conditional agreement to interconnect a DGF has been signed by the ~~EDC~~ EU.
- 4) **Final Interconnection and Operation.** The Interconnection Customer may operate the DGF and interconnect with the ~~EDC~~ EU's EDS once all of the following have occurred:
  - a) **Electrical Inspection:** Upon completing construction, the Interconnection Customer will have the DGF inspected by the local electrical wiring inspector with jurisdiction who shall establish that the DGF meets the requirements of the National Electrical Code.
  - b) **Certificate of Completion:** The Interconnection Customer shall provide the ~~EDC~~ EU with a completed copy of the Certificate of Completion (Attachment 1), including evidence of the electrical inspection performed by the local authority having jurisdiction. The evidence of completion of the electrical inspection may be provided on inspection forms

- used by local inspecting authorities. The interconnection request shall not be finally approved until the EDC EU's representative signs the Certificate of Completion.
- c) EDC EU has ~~either waived the right to a Witness Test in the interconnection request, or completed its Witness Test as per the following:~~
- i) Within ten (10) business days of the estimated commissioning date, the EDC EU shall ~~may~~, upon reasonable notice and at a mutually convenient time, conduct a Witness Test of the DGF to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with applicable codes.
  - ii) ~~If the EDC does not perform the Witness Test within the 10 day period or such other time as is mutually agreed to by the parties, the Witness Test is deemed waived.~~
- 4) **IEEE 1547.** The DGF is installed, operated, and tested in accordance with the requirements of IEEE Std 1547, "Standard for Interconnecting Distributed Resources with Electric Power Systems", as amended and supplemented, at the time the interconnection request is submitted.
- 13) **Access.** The EDC EU shall have direct, unabated access to the metering equipment of the DGF at all times. The EDC EU shall provide reasonable notice to the customer when possible prior to using its right of access.
- 14) **Metering.** Any required metering shall be installed pursuant to appropriate tariffs and tested by the EDC EU pursuant to the EDC EU's meter testing requirements
- 15) **Disconnection.** The EDC EU may temporarily disconnect the DGF upon the following conditions:
- a) For scheduled outages upon reasonable notice;
  - b) For unscheduled outages or emergency conditions;
  - c) If the DGF does not operate in the manner consistent with this agreement;
  - d) Improper installation or failure to pass the Witness Test;
  - e) If the DGF is creating a safety, reliability or a power quality problem; or
  - f) The Interconnection Equipment used by the DGF is de-listed by the Nationally Recognized Testing Laboratory that provided the listing at the time the interconnection was approved.
- 16) **Indemnification.** The parties shall at all times indemnify, defend, and save the other party harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other party's action or inactions of its obligations under this agreement on behalf of the indemnifying party, except in cases of gross negligence or intentional wrongdoing by the indemnified party.
- 17) **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.
- 18) **Termination.** This agreement may be terminated under the following conditions:
- a) By Interconnection Customer - The Interconnection Customer may terminate this application agreement by providing written notice to the EDC EU.
  - b) By the EDC EU - The EDC EU may terminate this agreement if the Interconnection Customer 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 prior to the expiration of the 30 calendar day remedy period. The termination date can be no less than 30 calendar days after the Interconnection Customer receives notice of its violation from the EDC EU.

- 19) **Modification of DGF.** The Interconnection Customer must receive written authorization from the EDC EU before making any changes to the DGF, other than Minor Changes that do not have a significant impact on safety or reliability of the EDS as determined by the EDC EU. If the Interconnection Customer makes such modifications without the EDC EU's prior written authorization, the EDC EU shall have the right to temporarily disconnect the DGF until such authorization can be obtained.
- 20) **Permanent Disconnection.** In the event the agreement is terminated, the EDC EU shall have the right to disconnect its facilities or direct the Interconnection Customer to disconnect its DGF.
- 21) **Disputes.** Each party agrees to attempt to resolve all disputes regarding the provisions of these interconnection procedures pursuant to the dispute resolution provisions of the Mississippi Distributed Generator Interconnection Rule (MGDIR).
- 18) **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 Mississippi. Nothing in this agreement is intended to affect any other agreement between the EDC EU and the Interconnection Customer. However, in the event that the provisions of this agreement are in conflict with the provisions of the EDC EU's tariff, the EDC EU tariff shall control.
- 19) **Survival Rights.** This agreement shall continue in effect after termination to the extent necessary to allow or require either party to fulfill rights or obligations that arose under the agreement.
- 20) **Assignment/Transfer of Ownership of the DGF:** This agreement shall terminate upon the transfer of ownership of the DGF to a new owner unless the transferring owner assigns the agreement to the new owner and so notifies the EDC EU in writing prior to the transfer of electric service.
- 21) **Definitions.** Any capitalized term used herein and not defined shall have the same meaning as the defined terms used in the MGDIR.
- 22) **Notice.** 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 to Interconnection Customer)

Use the contact information provided in the agreement for the interconnection customer. The interconnection customer is responsible for notifying the EDC EU of any change in the contact party information, including change of ownership.

(If to EDC EU)

Use the contact information provided on the EDC EU's web page for DGF interconnection.

**Attachment 1**

**Certificate of Completion**

To be completed and returned to the EDC EU when the installation is complete and final electrical inspector approval has been obtained.

**Interconnection Customer Contact Information**

Name \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Distributed Generator Facility (DGF) Equipment or Electrical Contractor**

Name: \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Final Electric Inspection and Interconnection Customer Signature**

The DGF 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 Customer acknowledges that it shall not operate the DGF until receipt of the final acceptance and approval by the EDC EU as provided below.

Signed \_\_\_\_\_ Date \_\_\_\_\_  
(Signature of Interconnection Customer)

Printed name: \_\_\_\_\_

Attached signed electric inspection form to this document and return to the EDC EU.

**Acceptance and Final Approval for Interconnection (for EDC EU use only)**

The Interconnection Agreement is approved and the DGF is approved for interconnected operation upon the signing and return of this Certificate of Completion by EDC EU.

~~Electric Distribution Company waives Witness Test? (Initial) Yes (\_\_\_\_\_) No (\_\_\_\_\_)~~

If not waived, ~~d~~ Date of successful Witness Test: \_\_\_\_\_ Passed: (Initial) (\_\_\_\_\_)

~~EDC~~ EU signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed name: \_\_\_\_\_ Title: \_\_\_\_\_

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**APPENDIX “B”      Mississippi Distributed Generator Interconnection Rule Mississippi  
Distributed Generator Interconnection Rule Proposed Level 2 and  
Level 3 Application Form for Interconnection of Distributed  
Generation Facilities**

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**Interconnection Customer Contact Information**

Name \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Alternative Contact Information (if Different from Customer Contact Information)**

Name: \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Facility Address (Building Where the Distributed Generator Facility (DFG) is Located)**

Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

**DGF Equipment Contractor**

Name: \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Electrical Contractor** (if different from DGF equipment contractor):

Name: \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_  
Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_  
License number: \_\_\_\_\_  
Active license? yes \_\_\_ no \_\_\_

**Electric Service Information for Customer Facility Where the DGF Will Be Interconnected**

Electric account number of facility site: \_\_\_\_\_  
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 (choose one)**

- Offset load (DGF will operate in parallel, but will not export power to ~~EDC~~ EU)
- Net Meter (DGF will export power pursuant to the Mississippi Renewable Energy Net Energy Metering Rule and tariff)
- Export power (DGF will operate in parallel and will export power, but does not fit the criteria established in the Mississippi Renewable Energy Net Metering Rule and tariff)
- Back-up generation (Units that temporarily parallel for more than 100 milliseconds)

Backup units that do not operate in Parallel for more than 100 milliseconds do not need an Interconnection Agreement.

**Requested Procedure Under Which to Evaluate Interconnection Request**

Please indicate below which review procedure applies to the interconnection request.

- Level 2** - Application fee amount is \$\_\_\_\_\_ \$500.
- Level 3** – Application fee amount is \$\_\_\_\_\_ \$1,000, to be applied toward any subsequent studies related to this application.



Descriptions for interconnection review categories do not list all criteria that must be satisfied. For a complete list of criteria, please refer to the Mississippi Distributed Generator Interconnection Rule.

**DGF Information**

**Energy Production Equipment/Inverter Information**

Energy Source:  Hydro  Wind  Solar  Diesel  Biomass  Natural gas  
 Coal  Oil  Other \_\_\_\_\_

Energy Converter Type:  Water turbine  Wind turbine  Photovoltaic cell  
 Steam turbine  Combustion turbine  Reciprocating engine  
 Other \_\_\_\_\_

Generator Type:  Synchronous  Induction  Inverter  Other \_\_\_\_\_

Nameplate Rating: \_\_\_\_\_ kW \_\_\_\_\_ kVA \_\_\_\_\_ AC Volts

System design capacity: \_\_\_\_\_ (kW) \_\_\_\_\_ (kVA)

Number of Units: \_\_\_\_\_

Rated Voltage: \_\_\_\_\_ Volts

Rated Current: \_\_\_\_\_ Amps

**Interconnection Equipment components/system(s) to be used in the DGF that are Certified (if Certified equipment is used).**

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

Attach manufacturer's cut sheet showing certification listing and label information from the appropriate listing authority, e.g. UL 1741 listing.

**For Synchronous Machines:**

Note: ~~EDC~~ EU may be contacted to determine if all the information requested in this section is required for the proposed DGF.

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

Direct-axis sub-transient reactance (X''d) \_\_\_\_\_ ohms

Negative sequence reactance: \_\_\_\_\_ ohms

Zero sequence reactance: \_\_\_\_\_ ohms

Neutral impedance or grounding resistor (if any): \_\_\_\_\_ ohms

### **For Induction Machines:**

Note: ~~EDC~~ EU may be contacted to determine if all the information requested in this section is required for the proposed DGF.

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: \_\_\_\_\_ Temperature rise: \_\_\_\_\_ °C.

### **Additional Information For Inverter-Based DGF**

Inverter information:

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

Type:  Forced commutated  Line commutated

Rated output \_\_\_\_\_ Watts \_\_\_\_\_ Volts

Efficiency \_\_\_\_\_% Power factor \_\_\_\_\_%

Inverter UL1547 Listed: :  Yes  No

DC source / prime mover:

Rating: \_\_\_\_\_ kW Rating: \_\_\_\_\_ kVA

Rated voltage: \_\_\_\_\_ Volts

Open circuit voltage (If applicable): \_\_\_\_\_ Volts

Rated current: \_\_\_\_\_ Amps

Short circuit current (If applicable): \_\_\_\_\_ Amps

**Other Required Facility Information:**

One line diagram attached:  Yes

Plot plan attached:  Yes

**Estimated Commissioning Date:** \_\_\_\_\_

**Interconnection Customer Signature**

I hereby certify that all of the information provided in this application request form is true.

Interconnection Customer 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 (see page two):

Application fee included

Amount \_\_\_\_\_

**EDC EU Acknowledgement**

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

EDC EU signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed name: \_\_\_\_\_ Title: \_\_\_\_\_

**Definitions**

Any capitalized term used herein shall have the same meaning as the defined terms used in the Mississippi Distributed Generator Interconnection Rule.

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**APPENDIX “C”:**    **Mississippi Distributed Generator Interconnection Rule Mississippi Distributed Generator Interconnection Rule Proposed Level 2 and Level 3 Agreement for Interconnection of Distributed Generation Facilities**

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This Agreement is made and entered into this \_\_\_\_ day of \_\_\_\_\_, by and between \_\_\_\_\_, a \_\_\_\_\_ organized and existing under the laws of \_\_\_\_\_ (“Interconnection Customer”), and \_\_\_\_\_, a \_\_\_\_\_ existing under the laws of \_\_\_\_\_ (“~~Electric Utility Distribution Company (EDCEU)~~”). Interconnection Customer and ~~EDC EU~~ each may be referred to as a “Party,” or collectively as the “Parties.”

**Recitals:**

**Whereas**, Interconnection Customer is proposing to, install or direct the installation of a Distributed Generator Facility (DGF), or is proposing a generating capacity addition to an existing DGF, consistent with the Interconnection Request completed by Interconnection Customer on \_\_\_\_\_; and

**Whereas**, the Interconnection Customer will operate and maintain, or cause the operation and maintenance of the DGF; and

**Whereas**, Interconnection Customer desires to interconnect the DGF with ~~EDC EU~~’s Electric Distribution System (EDS).

**Now, therefore**, in consideration of the premises and mutual covenants set forth herein, and other good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, the Parties covenant and agree as follows:

**Article 1.        Scope and Limitations of Agreement**

- 1.3        This Agreement shall be used for all Level 2 and Level 3 Interconnection Requests according to the procedures set forth in the Mississippi Distributed Generator Interconnection Rule (MDGIR).
- 1.4        This Agreement governs the terms and conditions under which the DGF will interconnect to, and operate in Parallel with, the ~~EDC EU~~’s EDS.
- 1.3        This Agreement does not constitute an agreement to purchase or deliver the Interconnection Customer’s power.
- 1.4        Nothing in this Agreement is intended to affect any other agreement between the ~~EDC EU~~ and the Interconnection Customer. However, in the event that the provisions of this Agreement are in conflict with the provisions of the ~~EDC EU~~’s

tariff, the ~~EDC~~ EU tariff shall control.

1.5 Responsibilities of the Parties

1.5.1 The Parties shall perform all obligations of this Agreement in accordance with all Applicable Laws and Regulations.

1.5.6 The ~~EDC~~ EU shall construct, own, operate, and maintain its Interconnection Facilities in accordance with this Agreement, IEEE Standard 1547, the National Electrical Safety Code and applicable standards promulgated by the Mississippi Public Service Commission.

1.5.7 The Interconnection Customer shall construct, own, operate, and maintain its DGF in accordance with this Agreement, IEEE Standard 1547, the National Electrical Code and applicable standards promulgated by the Mississippi Public Service Commission.

1.5.8 Each Party shall operate, maintain, repair, and inspect, and shall be fully responsible for the facilities that it now or subsequently may own unless otherwise specified in the attachments to this Agreement. Each Party shall be responsible for the safe installation, maintenance, repair and condition of their respective lines and appurtenances on their respective sides of the Point of Common Coupling.

1.5.9 The Interconnection Customer agrees to design, install, maintain and operate its DGF so as to minimize the likelihood of causing an Adverse System Impact on an electric system that is not owned or operated by the ~~EDC~~ EU.

1.6 Metering

The Interconnection Customer shall be responsible for the cost of the purchase and installation of metering equipment specified in Attachments 2 and 4 of this Agreement if new meter equipment is required by a tariff or study associated with the DGF interconnection.

1.7 Reactive Power

The Interconnection Customer shall design its DGF to maintain a composite power delivery at continuous rated power output at the Point of Common Coupling at a power factor within the power factor range required by the ~~EDC~~ EU's applicable tariff for a comparable load customer. ~~EDC~~ EU may also require the Interconnection Customer to follow a voltage or VAR schedule if such schedules are applicable to similarly situated generators in the control area on a comparable basis and have been approved by the Commission. The specific requirements for meeting a voltage or VAR schedule shall be clearly specified in Attachment 3. Under no circumstance shall these additional requirements for reactive power or voltage support exceed the normal operating capabilities of the DGF. The requirements in 1.7 may fall outside the requirement for using IEEE 1547 as a technical standard.

1.8 Capitalized Terms

Capitalized terms used herein shall have the meanings specified in the definitions section of the MDGIR.

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

### 2.2 Equipment Testing and Inspection

The Interconnection Customer shall test and inspect its DGF including the Interconnection Equipment prior to interconnection in accordance with IEEE Std 1547, IEEE Std 1547.1, and the technical and procedural requirements in the MDGIR. The Interconnection Customer shall not operate its DGF in Parallel with ~~EDC EU~~'s EDS without prior written authorization by the ~~EDC EU~~ as provided for in 2.1.1 – 2.1.3.

2.1.1 The ~~EDC EU~~ shall ~~perform~~ ~~have the option of performing~~ a Witness Test after construction of the DGF is completed. The Interconnection Customer shall provide the ~~EDC EU~~ at least 20 days' notice of the planned Commissioning Test for the DGF. ~~The EU~~ ~~if the EDC elects to perform a Witness Test,~~ it shall contact the Interconnection Customer to schedule the Witness Test at a mutually agreeable time within 10 business days of the scheduled commissioning test. ~~If the EDC does not perform the Witness Test within 10 business days of the commissioning test, the Witness Test is deemed waived unless the parties mutually agree to extend the date for scheduling the Witness Test.~~ If the Witness Test is not acceptable to the ~~EDC EU~~, the Interconnection Customer will be granted a period of 30 calendar days to address and resolve any deficiencies. The time period for addressing and resolving any deficiencies may be extended upon the mutual agreement of the ~~EDC EU~~ and the Interconnection Customer. If the Interconnection Customer fails to address and resolve the deficiencies to the satisfaction of the ~~EDC EU~~, the applicable termination provisions of 3.3.7 shall apply. ~~If a Witness Test is not performed by the EDC or an entity approved by the EDC, the Interconnection Customer must still satisfy the interconnection test specifications and requirements set forth in IEEE Standard 1547 Section 5. The Interconnection Customer shall, if requested by the EDC, provide a copy of all documentation in its possession regarding testing conducted pursuant to IEEE Std 1547.1.~~

- 2.1.4 To the extent that the Interconnection Customer decides to conduct interim testing of the DGF prior to the Witness Test, it may request that the EDC observe these tests and that these tests be deleted from the final Witness Test. The ~~EDC EU~~ may, at its own expense, send qualified personnel to the DGF to observe such interim testing. Nothing in this Section 2.1.2 shall require the ~~EDC EU~~ to observe such interim testing or preclude the ~~EDC EU~~ from performing these tests at the final Witness Test. Regardless of whether the ~~EDC EU~~ observes the interim testing, the Interconnection Customer shall obtain permission in advance of each occurrence of operating the DGF in parallel with the ~~EDC EU~~'s system.
- 2.1.5 Upon successful completion of the Witness Test, the ~~EDC EU~~ shall affix an authorized signature to the Certificate of Completion (Attachment 5) and return it to the Interconnection Customer approving the interconnection and authorizing Parallel Operation. Such authorization shall not be unreasonably withheld, conditioned, or delayed.

## 2.2 **Commercial Operation**

The Interconnection Customer shall not operate the DGF in Parallel, except for interim testing as provided in 2.1, until such time as the Certificate of Completion is signed by all Parties.

## 2.3 **Right of Access**

The ~~EDC EU~~ shall have access to the isolation device and metering equipment of the DGF at all times. The ~~EDC EU~~ shall provide reasonable notice to the customer when possible prior to using its right of access.

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

### 3.1 **Effective Date**

This Agreement shall become effective upon execution by the Parties.

### 3.2 **Term of Agreement**

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

### 3.3 **Termination**

No termination shall become effective until the Parties have complied with all Applicable Laws and Regulations applicable to such termination.

3.3.1 The Interconnection Customer may terminate this Agreement at any time by giving the ~~EDC EU~~ 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 ~~EDC EU~~ may terminate upon 60 calendar days' prior written notice for failure of the Interconnection Customer to complete construction of the DGF within 12 months of the in-service date as specified by the Parties in

Attachment 1, which may be extended by mutual agreement of the Parties which shall not be unreasonably withheld.

- 3.3.4 The EDC EU may terminate this Agreement upon 60 calendar days' prior written notice if the Interconnection Customer fails to operate the DGF in parallel with EDC EU's EDS for three consecutive years.
- 3.3.5 Upon termination of this Agreement, the DGF will be disconnected from the EDC EU's EDS. The termination of this Agreement shall not relieve either Party of its liabilities and obligations, owed or continuing at the time of the termination.
- 3.3.6 The provisions of this Article shall survive termination or expiration of this Agreement.
- 3.3.7 The EDC EU may terminate this Agreement if the Interconnection Customer fails to comply with the Witness Test requirement in 2.2.1.

### **3.4 Temporary Disconnection**

Either party may temporarily disconnect the DGF from the EDS in the event of an Emergency Condition (see definition below) for so long as the Party determines it is reasonably necessary 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 reasonably likely to endanger life or property; or (2) that, in the case of the EDC EU, is reasonably likely to cause an Adverse System Impact; or (3) that, in the case of the Interconnection Customer, is reasonably likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the DGF or the Interconnection Equipment. Under Emergency Conditions, the EDC EU or the Interconnection Customer may immediately suspend interconnection service and temporarily disconnect the DGF. The EDC EU shall notify the Interconnection Customer promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect the Interconnection Customer's operation of the DGF. The Interconnection Customer shall notify the EDC EU promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect the EDC EU's EDS. To the extent information is known, the notification shall describe the Emergency 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 EDC EU may interrupt interconnection service or curtail the output of the DGF and temporarily disconnect the DGF from the EDC EU's EDS when necessary for scheduled maintenance, construction, or repairs on EDC EU's EDS. The EDC EU shall provide the Interconnection Customer with five business days' notice prior to such interruption. The EDC EU shall use reasonable efforts to coordinate such reduction or temporary disconnection with the Interconnection Customer.



- 3.4.3 Forced Outages - During any forced outage, the EDC EU may suspend interconnection service to effect immediate repairs on the EDC EU's EDS. The EDC EU shall use reasonable efforts to provide the Interconnection Customer with prior notice. If prior notice is not given, the EDC EU shall, upon written request, provide the Interconnection Customer written documentation after the fact explaining the circumstances of the disconnection.
- 3.4.4 Adverse Operating Effects – the EDC EU shall provide the Interconnection Customer with a written notice of its intention to disconnect the DGF if, based on the operating requirements specified in Attachment 3, the EDC EU determines that operation of the DGF will likely cause disruption or deterioration of service to other customers served from the same electric system, or if operating the DGF could cause damage to the EDC EU's EDS. Supporting documentation used to reach the decision to disconnect shall be provided to the Interconnection Customer upon written request. The EDC EU may disconnect the DGF if, after receipt of the notice, the Interconnection Customer fails to remedy the adverse operating effect within a reasonable time unless Emergency Conditions exist in which case the provisions of 3.4.1 apply.
- 3.4.5 Modification of the DGF - The Interconnection Customer must receive written authorization from the EDC EU prior to making any change to the DGF, other than a Minor Equipment Modification, that could cause an Adverse System Impact. If the Interconnection Customer makes such modification without the EDC EU's prior written authorization, the EDC EU shall have the right to temporarily disconnect the DGF until such time as the EDC EU reasonably concludes the modification poses no threat to the safety or reliability of its EDS.
- 3.4.6 Reconnection - The Parties shall cooperate with each other to restore the DGF, Interconnection Facilities, and EDC EU's EDS to their normal operating state as soon as reasonably practicable following any disconnection pursuant to this section; provided, however, if such disconnection is done pursuant to Section 3.4.5 due to the Interconnection Customer's failure to obtain prior written authorization from the EDC EU for Minor Equipment Modifications, the EDC EU shall reconnect the Interconnection Customer only after determining the modifications do not impact the safety or reliability of its EDS.

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

**4.1 Interconnection Facilities**

- 4.1.1 The Interconnection Customer shall pay for the cost of the Interconnection Facilities identified in the Facilities Study or the Level 2 additional review for initial modifications itemized in Attachment 2 of this Agreement. The EDC EU shall identify the Interconnection Facilities necessary to safely interconnect the DGF with the EDC EU's EDS, the cost of those facilities, and the time required to build and install those facilities.

- 4.1.2 The Interconnection Customer shall be responsible for its expenses, including overheads, associated with (1) owning, operating, maintaining, repairing, and replacing its Interconnection Equipment, and (2) its reasonable share of operating, maintaining, repairing, and replacing any Interconnection Facilities owned by the EDC EU as set forth in Attachment 2.

#### **4.2 Distribution System Upgrades**

The EDC EU shall design, procure, construct, install, and own any Distribution System Upgrades. The actual cost of the Distribution System Upgrades, including overheads, shall be directly assigned to the Interconnection Customer. The Interconnection Customer may be entitled to financial contribution from any other EDC EU customers who may in the future utilize the upgrades paid for by the Interconnection Customer. Such contributions shall be governed by the rules, regulations and decisions of the MDGIR.

### **Article 5. Billing, Payment, Milestones, and Financial Security**

#### **5.1 Billing and Payment Procedures and Final Accounting**

- 5.1.1 The EDC EU shall bill the Interconnection Customer for the design, engineering, construction, and procurement costs of EDC EU provided Interconnection Facilities and Distribution System Upgrades contemplated by this Agreement as set forth in Appendix 3, on a monthly basis, or as otherwise agreed by the Parties. The Interconnection Customer shall pay each bill within 30 calendar days of receipt, or as otherwise agreed to by the Parties.
- 5.1.2 Within ninety (90) calendar days of completing the construction and installation of the EDC EU's Interconnection Facilities and Distribution System Upgrades described in the Attachments 2 to this Agreement, the EDC EU shall provide the Interconnection Customer with a final accounting report of any difference between (1) the actual cost incurred to complete the construction and installation and the budget estimate provided to the Interconnection Customer and a written explanation for any significant variation; and (2) the Interconnection Customer's previous deposit and aggregate payments to the EDC EU for such Interconnection Facilities and Distribution System Upgrades. If the Interconnection Customer's cost responsibility exceeds its previous deposit and aggregate payments, the EDC EU shall invoice the Interconnection Customer for the amount due and the Interconnection Customer shall make payment to the EDC EU within thirty (30) calendar days. If the Interconnection Customer's previous deposit and aggregate payments exceed its cost responsibility under this Agreement, the EDC EU shall refund to the Interconnection Customer an amount equal to the difference within thirty (30) calendar days of the final accounting report.

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

## **5.2 Interconnection Customer Deposit**

When a Level 3 Interconnection Feasibility Study, Interconnection System Impact Study, or Interconnection Facility Study or a Level 2 review of minimal modifications is required under the MDGIRs, the ~~EDC EU~~ may require the Interconnection Customer to pay a deposit equal to 50% of the estimated cost to perform the study or review. At least twenty (20) business days prior to the commencement of the design, procurement, installation, or construction of a discrete portion of the ~~EDC EU~~'s Interconnection Facilities and Distribution **System** Upgrades, the Interconnection Customer shall provide the ~~EDC EU~~ with a deposit equal to 50% of the estimated costs prior to its beginning design of such facilities, provided the total cost is in excess of \$1,000.

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

### **6.3 Assignment**

This Agreement may be assigned by either Party upon fifteen (15) Business Days prior written notice, and with the opportunity to object by the other Party. Should the Interconnection Customer assign this agreement, the ~~EDC EU~~ has the right to request the assignee agree to the assignment and the terms of this Agreement in writing. When required, consent to assignment shall not be unreasonably withheld; provided that:

- 6.1.1 Either Party may assign this Agreement without the consent of the other Party to any affiliate (which shall include a merger of the Party with another entity), of the assigning Party with an equal or greater credit rating and with the legal authority and operational ability to satisfy the obligations of the assigning Party under this Agreement;
- 6.1.2 The Interconnection Customer shall have the right to assign this Agreement, without the consent of the ~~EDC EU~~, for collateral security purposes to aid in providing financing for the DGF. For DGFs that are integrated into a building facility, the sale of the building or property will result in an automatic transfer of this agreement to the new owner who shall be responsible for complying with the terms and conditions of this Agreement.
- 6.1.3 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 thereof. An assignee is responsible for meeting the same obligations as the Interconnection Customer.

## **6.4 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, 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 Section 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 to third parties 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 Parties shall at all times indemnify, defend, and hold the other Party harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other Party's action or failure to meet its obligations under this Agreement on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party.
- 6.3.3 Promptly after receipt by an indemnified Party of any claim or notice of the commencement of any action or administrative or legal proceeding or investigation as to which the indemnity provided for in this Article may apply, the indemnified Party shall notify the indemnifying Party of such fact. Any failure of or delay in such notification shall not affect a Party's indemnification obligation unless such failure or delay is materially prejudicial to the indemnifying Party.
- 6.3.4 If an indemnified Party is entitled to indemnification under this Article as a result of a claim by a third party, and the indemnifying Party fails, after notice and reasonable opportunity to proceed under this Article, to assume the defense of such claim, such 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, such claim.
- 6.3.5 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 such indemnified Party's actual loss, net of any insurance or other recovery.

## **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, or any other cause beyond a Party's control. A Force Majeure Event does not include an act of gross negligence or intentional wrongdoing.
- 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 promptly notify the other Party of the existence of the Force Majeure Event. The notification must specify in reasonable detail the circumstances of the Force Majeure Event, its expected duration, and the steps that the Affected Party is taking and will take to mitigate the effects of the event on its performance, and if the initial notification was verbal, it should be promptly followed up with a written notification. The Affected Party shall keep the other Party informed on a continuing basis of developments relating to the Force Majeure Event until the event ends. The Affected Party shall be entitled to suspend or modify its performance of obligations under this Agreement (other than the obligation to make payments) only to the extent that the effect of the Force Majeure Event cannot be reasonably mitigated. The Affected Party shall use reasonable efforts to resume its performance as soon as possible.

## **6.5 Default**

- 6.5.5 No default shall exist where such failure to discharge an obligation (other than the payment of money) is the result of a Force Majeure Event as defined in this Agreement, or the result of an act or omission of the other Party.
- 6.5.6 Upon a default of this Agreement, the non-defaulting Party shall give written notice of such default to the defaulting Party. Except as provided in Article 6.5.3 the defaulting Party shall have 60 calendar days from receipt of the default notice within which to cure such default; provided however, if such default is not capable of cure within 60 calendar days, the defaulting Party shall commence such cure within 20 calendar days after notice and continuously and diligently complete such cure within six months from receipt of the default notice; and, if cured within such time, the default specified in such notice shall cease to exist.
- 6.5.7 If a Party has made an assignment of this Agreement not specifically authorized by Article 6.1, fails to provide reasonable access pursuant to

Article 2.3, 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 shall have 30 days from receipt of the default notice within which to cure such default.

- 6.5.8 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 herein, the non-defaulting Party shall have the right to terminate this Agreement by written notice at any time until cure occurs, and be relieved of any further obligation hereunder and, whether or not that Party terminates this Agreement, to recover from the defaulting Party all amounts due hereunder, plus all other damages and remedies to which it is entitled at law or in equity. The provisions of this Article will survive termination of this Agreement.

## **Article 7. Insurance**

For DGFs with a Nameplate Capacity of 2 MW or above, the Interconnection Customer shall carry adequate insurance coverage that shall be acceptable to the ~~EDC EU~~; provided, that the maximum comprehensive/general liability coverage that shall be continuously maintained by the Interconnection Customer 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 ~~EDC EU~~, its officers, employees and agents will be added as an additional insured on this policy.

## **Article 8. Dispute Resolution**

- 8.1 A party shall attempt to resolve all disputes regarding interconnection as provided in this Agreement and the MDGIR promptly, equitably, and in a good faith manner.
- 8.2 When a dispute arises, a party may seek immediate resolution through complaint procedures available through the Commission, or an alternative dispute resolution process approved by the Commission, by providing written notice to the Commission and the other party stating the issues in dispute. Dispute resolution will be conducted in an informal, expeditious manner to reach resolution with minimal costs and delay. When available, dispute resolution may be conducted by phone.
- 8.4 When disputes relate to the technical application of this Agreement and the MDGIR, the Commission may designate a technical consultant to resolve the dispute. Upon Commission designation, the parties shall use the technical consultant to resolve disputes related to interconnection. Costs for a dispute resolution conducted by the technical consultant shall be established by the technical consultant, subject to review by the Commission.
- 8.4 Pursuit of dispute resolution may not affect an Interconnection Customer with regard to consideration of an Interconnection Request or an Interconnection Customer's queue position.

8.6 If the Parties fail to resolve their dispute under the dispute resolution provisions of this Article, nothing in this Article shall affect any Party's rights to obtain equitable relief, including specific performance, as otherwise provided in this Agreement.

## **Article 9.      Miscellaneous**

### **9.1      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 Mississippi, without regard to its conflicts of law principles. This Agreement is subject to all Applicable Laws and Regulations.

### **9.2      Amendment**

Modification of this Agreement shall be only by a written instrument duly executed by both Parties.

### **9.3      No Third-Party Beneficiaries**

This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and where permitted, their assigns.

### **9.4      Waiver**

9.4.1 The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement shall not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.

9.4.3 Any waiver at any time by either Party of its rights with respect to this Agreement shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of this Agreement. Termination or default of this Agreement for any reason by Interconnection Customer shall not constitute a waiver of the Interconnection Customer's legal rights to obtain an interconnection from ~~EDC~~ EU. Any waiver of this Agreement shall, if requested, be provided in writing.

### **9.5      Entire Agreement**

This Agreement, including all attachments, constitutes the entire Agreement between the Parties with reference to the subject matter hereof, 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) such 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 such 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, first orally and then in writing, of the release any hazardous substances, any asbestos or lead abatement activities, or any type of remediation activities related to the DGF 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 such Party makes a good faith effort to provide the notice no later than 24 hours after such 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 utilizing the services of any subcontractor as 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 such services and each Party shall remain primarily liable to the other Party for the performance of such subcontractor.

9.10.1 The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under this Agreement. The hiring Party shall



be fully responsible to the other Party for the acts or omissions of any subcontractor the hiring Party hires as if no subcontract had been made. 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 such Party.

9.10.2 The obligations under this Article will not 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 to Interconnection Customer:**

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

**If to EDC EU:**

~~EDC EU~~ \_\_\_\_\_  
Attention: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail \_\_\_\_\_

**10.2 Billing and Payment**

Billings and payments shall be sent to the addresses set out below:

**If to Interconnection Customer**

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

**If to EDC EU:**

~~EDC EU~~ \_\_\_\_\_

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

**10.3 Designated Operating Representative**

The Parties may also designate operating representatives to conduct the communications which 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:**

\_\_\_\_\_  
*Attention:* \_\_\_\_\_  
*Address:* \_\_\_\_\_  
*City:* \_\_\_\_\_ *State:* \_\_\_\_\_ *Zip:* \_\_\_\_\_  
*Phone:* \_\_\_\_\_ *Fax:* \_\_\_\_\_

**EDC EU's Operating Representative:**

\_\_\_\_\_  
*Attention:* \_\_\_\_\_  
*Address:* \_\_\_\_\_  
*City:* \_\_\_\_\_ *State:* \_\_\_\_\_ *Zip:* \_\_\_\_\_  
*Phone:* \_\_\_\_\_ *Fax:* \_\_\_\_\_

**10.4 Changes to the Notice Information**

Either Party may change this notice information by giving five business days written notice prior to 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 EDC EU:**

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

## **Attachment 1**

### **Construction Schedule, Proposed Equipment and Settings**

This attachment shall include the following:

6. The construction schedule for the DGF
7. A one-line diagram indicating the DGF, Interconnection Equipment, Interconnection Facilities, metering equipment, and Distribution System Upgrades
8. Component specifications for equipment identified in the one-line diagram
9. Component settings
10. Proposed sequence of operations

## **Attachment 2**

### **Description, Costs and Time Required to Build and Install EDC EU's Interconnection Facilities and Distribution System Upgrades**

This attachment shall include the following:

EDC EU's Interconnection Facilities and Distribution System Upgrades including any required new metering shall be itemized and a best estimate of itemized costs, including overheads, shall be provided based on the Facilities Study or Level 2 additional review for minimal modifications of the EDS.

Also, a best estimate for the time required to build and install EDC EU's Interconnection Facilities and Distribution System Upgrades will be provided based on the Facilities Study or Level 2 additional review for minimal modifications of the EDS.

### **Attachment 3**

#### ***Operating Requirements for DGFs Operating in Parallel***

This attachment shall include the following:

Applicable sections of EDC EU's operating manuals applying to the DGF interconnection shall be listed and Internet links shall be provided. Any special operating requirements not contained in EDC EU's existing operating manuals shall be clearly identified. These operating requirements shall not impose additional technical or procedural requirements on the DGF beyond those found the MDGIR, except those required for safety.

## **Attachment 4**

### **Metering Requirements**

This attachment shall include the following:

Metering requirements for the DGF shall be clearly indicated along with an identification of the appropriate tariffs that establish these requirements and an internet link to these tariffs.

Attachment 5

***Certificate of Completion***

To be completed and returned to the EDC EU when the installation is complete and final electrical inspector approval has been obtained.

**Interconnection Customer Contact Information**

Name \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_

Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Distributed Generator Facility (DGF) Equipment or Electrical Contractor**

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

Mailing address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Mobile): \_\_\_\_\_

Facsimile number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Final Electric Inspection and Interconnection Customer Signature**

The DGF 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 Customer acknowledges that it shall not operate the DGF until receipt of the final acceptance and approval by the EDC EU as provided below.

Signed \_\_\_\_\_ Date \_\_\_\_\_  
(Signature of interconnection customer)

Printed name: \_\_\_\_\_

Attached signed electric inspection form to this document and return to the EDC EU.

**Acceptance and Final Approval for Interconnection (for EDC EU use only)**

The Interconnection Agreement is approved and the DGF is approved for interconnected operation upon the signing and return of this Certificate of Completion by EDC EU:

~~Electric Distribution Company waives Witness Test? (Initial) Yes ( ) No ( )~~

~~If not waived, d~~Date of successful Witness Test: \_\_\_\_\_ Passed: (Initial) ( )

~~EDC EU~~ signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed name: \_\_\_\_\_ Title: \_\_\_\_\_