# ENTERGY MISSISSIPPI, LLC
# STANDARD INTERCONNECTION APPLICATION
# FOR NON-RESIDENTIAL NET METERING FACILITIES (for 500 kW – 2 MW systems)

INSTRUCTIONS: Enter information in the empty fields below and send this form to Entergy Mississippi, LLC ("Entergy" or the "Company"). **This Standard Interconnection Application shall be completed, submitted and approved before** the net metering facility is installed and connected to the Company's Distribution grid. If you have questions related to this form, contact your Entergy representative or if you do not have an assigned representative contact 1-800–Entergy. (Form date 12-1-2018 – MPSC Docket 2018-UA-39.)

*The Customer may want to have the vendor of the equipment help fill out this application.*

## I. STANDARD INFORMATION

**Section 1. Customer Information**

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Facility Location (if different from above): _____

Daytime Phone: _____ Evening Phone: _____

Entergy Account Number (from electric bill): _____

Customer Email Address: _____

**Note: For new customers, Entergy may require proof of site control evidenced by a property tax bill, deed, lease agreement, other legally binding contract, etc.**

**Section 2. Generator and Facility Information (Circle correct answer when possible)**
**Note: Attach One-line Diagram (electrical drawing of installation) with this agreement with Location of Accessible Disconnect clearly shown.**

Customer Type: **Residential, Commercial, Other** _____ **(circle one)**

Is there an existing interconnected generator at this facility?
**Yes description attached No (circle one)**

Number of Entergy meters on this house/building? **2 or less 3 or more (circle one)**

Is electric service to your location provided from the Entergy Downtown Jackson network?
**Yes, No (circle one)** (Net metering is prohibited in the Downtown Network)

Do you plan to export power? **Yes No (circle one)**

Do you elect to transfer the rights to any Renewable Energy Credits ("RECs") associated with your proposed Facility to the Company? (By selecting yes, you will be eligible to receive the Non-Quantifiable Expected Benefits Adder as a component of your Total Benefits of Distributed Generation)
**Yes No (circle one)**

If no, please confirm you understand that retaining the RECs associated with your proposed Facility means you will not be eligible to receive the Non-Quantifiable Expected Benefits Adder as a component of your Total Benefits of Distributed Generation _____ **(please initial, if applicable)**

**ENTERGY MISSISSIPPI, LLC**
**STANDARD INTERCONNECTION APPLICATION**
**FOR NON-RESIDENTIAL NET METERING FACILITIES (for 500 kW – 2 MW systems)**

Proposed aggregate generation output rating at this site (Total kW): _____

Expected annual energy generation from system (Total kWh/year): _____ **Note: system can be sized to offset no more than 110% of the Customer's annual energy usage at that location.**

Is the unit able to run when Company electricity is unavailable? **Yes, No (circle one)**

Battery Backup **Yes description attached No (circle one)**

For Solar Installations: Tilt Angle (°):_____ Azimuth Angle (°): _____

Inverter Size (Total kW): _____

Number of phases: _____

Frequency: _____

Voltage at interconnection point: **120/240 120/208 277/480 480 (circle one)**
**or other explain**_____

Does the unit

- Disconnect intertie within 10 cycles of a service interruption or fault? **Yes, No (circle one)**
- Block generator from energizing dead circuits for five minutes after most recent fault? **Yes, No (circle one)**

| | Source of Eligible Renewable Energy[1] Power Generation: **Solar, Wind, Hydro, Geothermal, Biomass, Wave or Tidal (circle answer or describe)** | Type of Interface **Inverter, Synchronous, Induction or other (circle answer or describe)** |
|---|---|---|
| Manufacturer: | | |
| Model: | | |
| Number of Units | | |
| kW Rating(s): 95°F at location) | | |
| Ampere Rating | → | **Amps AC** |
| Short Circuit Current (For entire generation system) | → Answer only if total units greater than 25kW | **Amps** |
| **For battery backup or non-solar units only** | | **At interface with utility** |

[1] See Mississippi Distributed Generator Net Metering Rule, page 3 for definition of "Renewable Energy" eligible for net metering.

**ENTERGY MISSISSIPPI, LLC**
**STANDARD INTERCONNECTION APPLICATION**
**FOR NON-RESIDENTIAL NET METERING FACILITIES (for 500 kW – 2 MW systems)**

| | | |
|---|---|---|
| kVA Rating (s):(95°F at location) | | |
| Power Factor: | → | |

Note:
1. Include manufacturer literature describing the specific system(s).
2. If more units will be used, complete separate attachment with the information above.

Will the Facility supply the necessary VAr requirements? **Yes No (circle one)**

Does the Facility plan to export power? **Yes No (circle one)**

If yes, what is the maximum amount of export power expected? _____

What is the expected Energizing and Startup Date? _____

Normal Operation of Interconnection: (examples: provide power to meet base load, demand management, standby, back-up, other (please describe))

_____
_____
_____

One-line diagram attached: _____Yes

(Adequate drawings of the Customer's proposed facility, which will include a one line diagram and proposed relay systems, must be submitted to the Company for review during the planning stage. Additional drawings may be required on a case by case basis. (3.8.4))

Manufacturer certified relay response curves submitted/included _____

List of specifications on protective devices attached? _____

Has the generator Manufacturer supplied its dynamic modeling values to Entergy?

Distributed Generation Technical Requirements Compliance Checklist included as attachment with answers to requirements based upon Customer's Generation Case ___Yes____No

**Section 3. Certification**

I hereby certify the following:

1. The system shall be installed in compliance with the Building/Electrical Code of that city/county.
2. This system meets the latest edition of the Entergy Standard: "Connecting Large Electric Generators to the Entergy Distribution System".
3. The interconnection protection system is tested and listed for compliance with the latest published edition of Underwriters Laboratories (UL) 1741 including the anti-islanding test.
4. The system will be installed in compliance with IEEE 1547 as applicable, all manufacturer specifications, the National Electric Code and all local codes. No protection settings affecting anti-islanding have been or will be adjusted or modified.
5. The system shall be installed in accordance with the attached one-line Diagram and the system description provided in this document.

6. The customer has been given system warranty information, an operation manual, and shall be instructed in the operation of the system.

I hereby certify that all of the information provided herein (including all attachments) is true and correct and the generator will comply with the Interconnection Standard stated above. Customer or installer shall not commence parallel operation of the Facility until the Facility has been inspected and the approval to operate has been issued by the Company.

Signature of Customer: _____ Date: _____

Signature of Installer: _____ Date: _____

Installed by: _____ Qualifications/Credentials: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Installer Email Address: _____

Daytime Phone: _____ Projected Installation Date: _____

**ENTERGY MISSISSIPPI, LLC**
**STANDARD INTERCONNECTION APPLICATION**
**FOR NON-RESIDENTIAL NET METERING FACILITIES (for 500 kW – 2 MW systems)**

**Section 4. Distributed Generation Technical Requirements Checklist**

**The Customer is responsible for all the applicable requirements in this Standard.** This checklist is a guide to the requirements that can be found in detail in distribution standard DR07-01, (Section numbers are provided after each requirement.) Two objectives must be met to arrive at compliance by the proposed installation:

- **Safety**: The Customer's facilities will be held to the same standard of care, as the Company is required to maintain. In addition, the safety of the general public and the personnel and equipment of the Company shall in no way be reduced or impaired as a result of the interconnection.

- **Customer Impact**: The quality, reliability and the availability of service to the Company's other Customers shall not be diminished or impaired as a result of the Interconnection.

**(Customer shall supply Description of Proposed Compliance information consistent with the Generation Case)**
Customer's Generation Case: _____
**Customers 1 MW and larger should also see sections 3.17, 3.19**

| Entergy Requirement | Description of Proposed Compliance | Adequate (Y/N) | Comments |
|---|---|---|---|
| **Required for Case 2** | | | |
| 1. Provide accessible gang operated load break switch. (3.2) | | | |
| | | | |
| **Also required for Case 3** | | | |
| 2. Block generator from energizing dead circuits. (3.13.3.4) | | | |
| 3. Synchronize system within ½ cycle. (3.16) | | | |
| 4. Appropriate Transformation (3.20) | | | |
| 5. Specify protective devices and settings. (3.13,3.14 & 3.17) | | | |
| 6. Supply reactive power. (3.8.7 & 3.8.8) | | | |
| **Additional Requirements for Cases 4,5,6 & 7 on following page** | | | |

**ENTERGY MISSISSIPPI, LLC**
**STANDARD INTERCONNECTION APPLICATION**
**FOR NON-RESIDENTIAL NET METERING FACILITIES (for 500 kW – 2 MW systems)**

| Entergy Requirement | Description of Proposed Compliance | Adequate (Y/N) | Comments |
|---|---|---|---|
| **Requirements for Cases 2 & 3 which apply to Cases 4,5,6 & 7 on previous page** | | | |
| | | | |
| **Also required for Case 4** | | | |
| 7. Disconnect intertie within 10 cycles of a service interruption or fault. (3.8.9, 3.8.11, 3.13.3, 3.15 & 3.20) and do not come back on the system for five minutes (3.8.12) | | | |
| 8. Install fault-interrupting device (3.13.3.3) | | | |
| 9. Limit voltage flicker, harmonic voltage and current. (3.8.10) | | | |
| 10. Limit voltage surges and sags to range of +10% of nominal voltage. (3.8.9) | | | |
| 11. Limit abnormal frequency (3.8.11) | | | |
| | | | |
| **Also required for Cases 5-6** | | | |
| 12. Install metering and telemetering equipment. (3.18 & 3.19) | | | |
| 13. Maintain continual operating communications. (3.19) | | | |
| | | | |
| **Also Required for Case 7** | | | |
| 14. Transmission Standard PM3901 | | | |
| 15. FERC Orders 2006, 2006A & 2006B (see 4.0 References) | | | |