

# **Rules and Regulations Addendum for Interconnection and Operation of Distributed Generation 25kW or Less**

The following Rules and Regulations Addendum (“Addendum”) governs the interconnection and operation of the Member-owned distributed generation facility (“DG Facility”) with the facilities of Northwestern Rural Electric Cooperative Association, Inc. (“Cooperative”) and in parallel with the Cooperative’s electric power distribution system (“Cooperative System”). The Member shall be bound by this Addendum, which may be changed, modified, supplemented, or replaced from time to time without notice by the Cooperative in its sole discretion. This Addendum shall be supplemental to and in addition to requirements and obligations set forth in the Interconnection and Power Purchase Agreement (or any other substantially similar agreement(s)) to be entered into between the Cooperative, the Member, and the Cooperative’s wholesale generation and transmission supplier, Allegheny Electric Cooperative, Inc. (“Allegheny”).

This Addendum is applicable only to conditions under which Cooperative and Member agree that one or more DG Facilities (described in Exhibit A) with Rated Capacity or Nameplate Capacity of twenty-five (25) kilowatt (kW) or less, to be interconnected at two hundred forty (240) volt or less, may be interconnected to the Cooperative System.

Nothing herein shall supersede any requirement of any applicable tariffs, rules, regulations, or applicable laws under which the Cooperative currently operates.

## **General Provisions**

It is the intent of the Cooperative to allow Members to install Distributed Generation (DG), provided the Member’s DG Facility does not adversely affect the Cooperative. The Member should conduct his or her own analysis to determine the economic benefit of DG Facility operation.

A DG Facility connected in any way to the Cooperative System shall be considered in parallel. For purposes of this Addendum, a DG Facility is considered operating in parallel anytime it is connected to the Cooperative System in any way, even if the Member does not intend to export power. All provisions of this Addendum shall apply to an in-parallel operation of DG Facilities as so defined. Members shall fully comply with this Addendum and any amendments thereto at the sole discretion of the Cooperative.

There is no “virtual net metering” to any other accounts, and no generation exceeding total usage at the DG Facility location shall be credited or used against, or transferred to, in any manner or form, any other accounts or electric services. Virtual billing is permitted, which includes the transferring of funds from a credit on one account to the bill of another.

This Addendum does not contain a complete description or listing of all applicable laws, ordinances, rules and regulations, nor is this Addendum intended to be an installation or safety manual. The Member requesting to interconnect a DG Facility to the Cooperative System is responsible for and must follow, in addition to all provisions of this Addendum, the following non-exhaustive items: the Cooperative’s Rules and Regulations, Tariffs for Electric Service, the Cooperative’s Line Extension Policy, the Policies and Procedures of the Cooperative’s Power Supplier (as defined in the Tariff) where applicable, the Policies and Procedures of the Cooperative’s transmission service provider where applicable, the current IEEE 1547 and other

applicable IEEE standards, applicable ANSI standards, including ANSI C84.1 Range A and any other applicable governmental and regulatory laws, rules, ordinances or requirements. All legal, technical, financial, or other requirements in the following sections of this Addendum must be met prior to the interconnection of the DG Facility to the Cooperative System.

Member may serve all load behind the Cooperative billing meter at the location serving the DG Facility. Member will not be allowed to serve multiple billing meters, multiple consuming facilities, or multiple Members with a single DG Facility or under a single DG application.

## **Section I. Distributed Generation Facility Category**

Prior to application, the Member shall determine the following for the proposed DG Facility:

1. Connection Limitation

The generator nameplate rating will be limited to 110% of the most recent twelve-month hourly consumption or 25 kW of electrical capacity for residential members, whichever is less. Subject to Cooperative system approval and capacity limitations.

2. Power Export Category

- a. Parallel – Excess energy sold and made available for purchase:

When the Member seeks to sell excess energy, a special meter installation is required. The meter will record the energy flowing to the Member, while also recording any excess energy flowing to and received by the Cooperative's system. The excess energy delivered to the Cooperative's system will be purchased at the current "avoided cost" by Allegheny, which is the entity that establishes the rate.

## **Section II. Member's Initial Requirements**

Prior to installation, Member shall comply with the following:

1. Notification

The Member must meet all the Cooperative's Membership and service requirements in addition to the requirements found in this Addendum.

2. Service Request

- a. In advance of the installation of generation or DG Facility equipment, the Member must complete a Northwestern Rural Electric Cooperative Association, Inc. Application for Interconnection and Operation of Member-Owned Generation" ("Application") attached hereto as Exhibit A and incorporated herein by reference and submit it to the appropriate Cooperative address.

- b. A separate form must be submitted for each Facility.
3. Submit a DG Facility Plan
- a. Member shall complete an Application, which includes detailing the electrical design, interconnection requirements, size, operational plans for the DG Facility, and a one-line diagram (the “DG plan”). Either at the time of submission or at any time during the review process, the Cooperative may require additional information or may require the DG plan to be prepared by a Professional Engineer registered in the Commonwealth of Pennsylvania.
  - b. Prior to the review of the application and DG plan by the Cooperative, the Member shall pay an application fee as indicated below. A separate fee must be submitted for each DG Facility.

|                                   |           |
|-----------------------------------|-----------|
| Application Fee                   | \$ 100.00 |
| Engineering & Interconnection Fee | \$ 350.00 |

**Section III. Cooperative and Power Supplier Review Process**

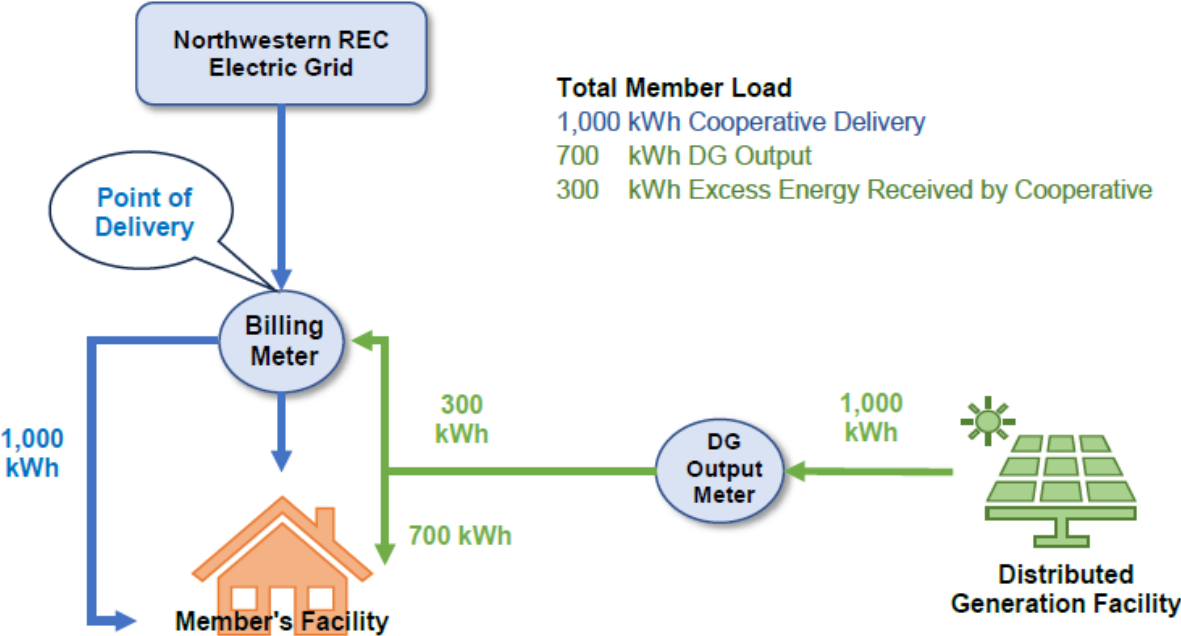
1. Plan Review Process
- a. The Cooperative will review the Application and accompanying documents, plans, specifications, and other information provided and will return an interconnection analysis to the Member. The technical review will be consistent with guidelines established by the most recent IEEE Standard 1547 Guide for Distributed Generation Interconnection. The Member may be required by the Cooperative to provide proof that their DG Facilities have been tested and certified by applicable IEEE guidelines.
  - b. If corrections or changes to the plans, specifications, and other information are to be made by the Member, a review period may be required when proof of such changes or corrections is provided to the Cooperative. In addition, any changes to the site or project requiring new analysis by the Cooperative may require an additional cost and a new DG plan. The cost will be determined by the Cooperative and shall be paid by the Member. Cooperative does not guarantee capacity to accept a generator at all points on its system. The Cooperative reserves the right to limit or deny access to the distribution system if engineering thresholds are exceeded.
  - c. The Member acknowledges and agrees that any review or acceptance of such plans, specifications, and other information by the Cooperative shall not impose any liability on the Cooperative and does not guarantee the adequacy of the Member’s equipment or DG Facility to perform its intended function. The Cooperative disclaims any expertise or special knowledge relating to the design or performance of generating installations and does not warrant the efficiency, cost-effectiveness, safety, durability, or reliability of such DG Facility installations. Installation and operation of the DG Facility shall always be at the Member’s sole risk and sole expense.

- d. In the event it is necessary at the time of initial interconnection or at some future time for the Cooperative to modify its electric delivery systems in order to serve the Member's DG Facilities or to facilitate the purchase or continued purchase of the output of the Member's DG Facilities, or because the quality of the power provided by the Member's DG Facilities adversely affects the Cooperative's delivery system, the Member will be responsible to pay the Cooperative in advance for all costs of modifications required for the interconnection of the Member's DG Facilities.
- e. There will be a charge of \$100 added to the application fee after two failed submittal attempts (per meter). It is recommended to fully review this Addendum, and the DG Guidelines and use the checklist provided with the DG Guidelines to submit what the Cooperative considers a complete application.

#### **Section IV. Net Billing for a DG Facility**

- 1. For all DG Facilities where the Member desires to export power
  - a. All DG Facilities shall be billed under one of the Cooperative's existing rate Tariffs.
  - b. All sales of electric power and energy by the Cooperative to a Member shall be consistent with the applicable retail rate schedule established by the Cooperative as if there were no DG Facility installation at the Member's premises, including any charges in the Cooperative's DG Tariff.
  - c. In addition to all other charges, the Cooperative may bill the Member for any additional facilities charges as determined in the sole discretion of the Cooperative.
  - d. Neither the Cooperative nor Allegheny is under any obligation to purchase power from a non-Qualifying Facility ("QF"), as defined under the Public Utility Regulatory Policies Act (PURPA). However, Allegheny may, at its sole discretion, purchase power from a non-QF, subject to one or more separately negotiated agreements.
  - e. The type of metering to be used shall be specified at the sole discretion of the Cooperative.
  - f. For power produced in excess of on-site requirements, Allegheny will purchase excess energy at its avoided cost. The Cooperative shall bill the Member for the energy supplied by the Cooperative as metered by the billing meter during each billing period according to the Cooperative's applicable retail rate schedule.
  - g. In addition to all other charges, the Cooperative may bill the Member for any additional facilities charges, billing charges, meter reading charges, or customer service costs as determined by the Cooperative and appended to this Addendum.
  - h. All power exported will be purchased by Allegheny at the avoided cost rate

as provided annually by Allegheny. Initial payment will be provided as a credit to the bill monthly, if power exported exceeds the billed member usage and service availability charge, a check will be issued with the reimbursement amount of what is exceeded.



**Figure 1.** Illustration of Payment by Cooperative to Member at avoided cost for excess energy and charge to Member by Cooperative at retail rate for energy delivered.

## **Section V. Operation of Parallel Facility**

The purpose of this section is to outline Members' responsibilities concerning the Cooperative's operational requirements for DG Facilities operated in parallel with the Cooperative System and is not intended to be a complete listing of all operational, regulatory, safety, and other requirements.

### **1. Ownership of facilities**

- a. The Member shall own and be solely responsible for all expenses, installation, maintenance, and operation of all the DG Facilities, including all power generating facilities, at and beyond the Point of Delivery as defined in the Tariffs. Leased systems are permitted under the guidelines of this addendum.
- b. At its sole discretion, the Cooperative may locate Cooperative-owned metering equipment and transformers past the Cooperative-owned meter.

### **2. Self-Protection of DG Facilities**

- a. The Member shall furnish, install, operate, and maintain in good order and repair all equipment necessary for the safe operation of DG Facilities operated in parallel with the Cooperative System.
- b. The Member's equipment shall have the capability to both establish and maintain synchronism with the Cooperative System and to automatically disconnect and isolate the DG Facility from the Cooperative System. The DG Facility is required to detect the loss of Cooperative service (island condition) and disconnect, and this delay can be up to 2 seconds per IEEE 1547 and UL 1741.
- c. The Member's DG Facility shall be designed, installed, and maintained to be self-protected from normal and abnormal conditions on the Cooperative System including, but not limited to, loss of service, overvoltage, undervoltage, overcurrent, frequency deviation, and faults. Self-protection will be compatible with all applicable Cooperative protection arrangements and operating policies.
- d. Additional protective devices and functions may be required by the Cooperative when, in the sole judgment of the Cooperative, the DG Facility installation or the Cooperative System characteristics so warrant.

### **3. Quality of service**

- a. The Member's DG Facility shall generate power at the nominal voltage of the Cooperative System at the Member's delivery point as defined by ANSI C84.1 Range A, or at the range determined by the Cooperative.

- b. Member's DG Facility shall generate power at a frequency within the tolerances as defined by IEEE 1547.
  - c. Member's DG Facility shall produce power at a minimum power factor of at least 95% or shall use power factor correction capacitors to ensure at least a 95% power factor.
  - d. Member's DG Facility shall be in accordance with the power quality limits specified in IEEE 519.
  - e. The overall quality of the power provided by the Member's DG Facility including, but not limited to, the effects of harmonic distortion, voltage regulation, voltage flicker, switching surges, and power factor, shall be such that the Cooperative System, or adjoining utility systems, is not adversely affected in any manner.
  - f. If adverse effects are caused in whole or in part by the Member's DG Facility, the Member shall correct the cause of such effects within 30 days of the initial adverse effect, and if applicable, reimburse the Cooperative for the required correction. The Cooperative reserves the right to disconnect the Member's DG Facility if the Cooperative determines adverse effects exist that warrant immediate disconnection, including but not limited to circumstances described in Section VII.4., below.
  - g. The Cooperative may perform an inspection on the DG Facility at any time.
4. Utility Disconnect Switch
- a. The Member shall install a lockable visible load break disconnect switch at the Member's expense and to the Cooperative's specifications.
  - b. The switch shall be located to be readily accessible to Cooperative personnel in a location acceptable to both the Member and Cooperative.
    - i. The utility disconnect should not be designated as the rapid shutdown initiation device.
  - c. The switch shall be of a type that can be secured in an open position by a lock owned by the Cooperative. If the Cooperative has locked the disconnect switch open, the Member shall not operate or close the disconnect switch.
    - i. The switch shall be connected so that the blades are de-energized when the switch is in the open position. The switch blades (load) will be connected to the inverter side and the switch jaws (line) to the utility side.

- d. The Cooperative shall have the right to lock the switch open when in the sole judgment of the Cooperative:
  - i. It is necessary to maintain safe electrical operating or maintenance conditions, or
  - ii. The Member's DG Facility adversely affects the Cooperative System or adjoining utility systems, or
  - iii. There is a system emergency or other abnormal operating condition warranting disconnection.
  
- e. The Cooperative reserves the right to operate the disconnect switch for the protection of the Cooperative System even if it affects the Member's DG Facility. In the event the Cooperative opens or closes the disconnect switch:
  - i. The Cooperative shall not be responsible for energizing or restoration of parallel operation of the DG Facility.
  
  - ii. The Cooperative will make reasonable efforts to notify the Member.
  
- f. The Member shall not bypass the DG Facility disconnect switch at any time for any reason.
  
- g. Signage shall be placed at the Member's expense and located at the disconnect indicating the purpose of the switch, along with contact names and numbers of both the Member and the Cooperative.
  
- h. Members with DG Facilities as defined in this Addendum which are solely for the purpose of emergency backup or peak shaving without intent to export power shall not operate their DG Facilities at any time unless visibly disconnected from the Cooperative System. At its sole discretion, the Cooperative may require the Member to install at his or her own expense an interlocking switch for the purpose of ensuring the Member's DG Facilities do not operate in parallel with the Cooperative's facilities.
  
- i. Should the Cooperative lose power serving the Member's DG Facilities for any reason, Members with DG Facilities shall **NOT** operate their DG Facilities unless visibly disconnected from the Cooperative System.

## 5. Allowable DG Connections

- a. Supply Side Connections
  - i. A supply-side connection is defined as a connection that is made on the load side of the meter base that houses the utility-owned meter.



- ii. Per NEC 230.82, Distributed Energy Resource (DER) such as Solar, Wind, and Energy Storage, etc. is allowed to be connected on the supply side if provided with a service entrance-rated disconnecting means.
- iii. All splices and taps that are acceptable if made in accordance with the NEC, must first be approved by the Cooperative.
- iv. The ampacity of the service conductors connected to a DER source shall not be less than the sum of the DER maximum circuit current.
- v. A neutral-to-ground bond must be re-established in the new DER service disconnect and connected to the grounding electrode system.

b. Load Side Connections

- i. A load-side connection is defined as a connection that is made within the member main or sub-panel.
- ii. A load-side connection shall be made at a dedicated circuit breaker of fusible disconnect means, per NEC705.12(A).
- iii. Due to potential busbar overloading, the NEC requires that the combination of source feeder breakers (main and alternate) equal no more than 120% of the busbar rating; NEC 705.12(B).
- iv. Though acceptable per NEC 705.12(A), the cooperative requires that load-side connections be made on the load side of the main breaker.
- v. Drilling, tapping, or replacing of factory-installed bus bars or conductors unless performed by the manufacturer should be avoided.

c. DER Meter Collar Devices

- i. A DER meter collar device is defined as a device that provides a DG interconnection point between the meter base and the utility-owned meter. These types of devices include but are not limited to GenerLink, ConnectDER, Tesla Backup Switch, etc.
- ii. All DER meter collar devices must first be approved by the Cooperative before installation.
- iii. A cooperative representative must be present during the installation of a DER meter collar device. The member or electrician is not permitted to pull the cooperative's meter to install or disconnect a DER meter collar device or for any reason.

6. DG output meter

- a. For DG Facilities that plan to operate in parallel, a DG Facility output meter is not required. The Member can opt to install a meter socket at the Member's expense and to the Cooperative's specifications for the DG Facility output meter.
- b. If the Member erects or maintains locked gates or other barriers, the Member will furnish the Cooperative with keys, codes, or other convenient means to circumvent the barrier for full access for the above-mentioned reasons.

7. Metering/Monitoring

- a. The Cooperative shall specify, install, and own all metering equipment.
  - i. A Cooperative billing meter will be in place that is capable of measuring power delivered and received.

8. Testing and Record Keeping

- a. The Member shall test all aspects of the protection systems up to and including tripping of the generator and interconnection point at start-up and thereafter as required. Testing shall verify all protective set points, relay and breaker trip timing and shall include procedures to functionally test all protective elements of the DG Facility. The Cooperative may witness the testing.
- b. The Member shall maintain records of all maintenance activities, which the Cooperative may review at reasonable times.

**Section XVIII. Member's Acceptance and Signature**

Member hereby accepts and acknowledges receipt of the rules and regulations set forth in this Addendum and agrees to abide and be bound by the same:

Signature:

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Print:

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Date:

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## Exhibit A: Northwestern Rural Electric Cooperative Association, Inc. Application for Interconnection and Operation of Member-Owned Generation (“Application”)

This Application should be completed as soon as possible and returned to a Cooperative representative to begin processing the request.

This Application is used by the Cooperative to determine the required equipment configuration for the Member interconnection. Every effort should be made to supply as much information as possible.

### Part 1

#### 1. Member / Applicant Information

Member:

(First and Last Name)

Mailing Address:

(Street, City, State, Zip)

Email Address:

County:

Phone:

NWREC Account #:

NWREC Meter #:

#### 2. Ownership and Possession

| Yes                 | No | Please mark a check in the appropriate yes or no column.  |
|---------------------|----|---|
|                     |    | Is the owner of the DG Facility the Member / Applicant listed above?  |
|                     |    | Is the owner of the DG Facility also the owner of the property where the DG Facility is located? If <b>NO</b> , who is the owner of the property?   |
| Legal Name:         |    |   |
| Type of Entity:     |    |   |
| DBA (if applicable) |    |   |
|                     |    | The Member name shown on the electric bill is the name that will be used for the Interconnection and Power Purchase Agreement. Is the owner of the DG Facility listed above the same as on the electric bill? |

3. Project Design / Engineering (as applicable)

Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
(Street, City, State, Zip)

Phone Number: \_\_\_\_\_ Representative: \_\_\_\_\_

4. Electrical Contractor (as applicable)

Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
(Street, City, State, Zip)

Phone Number: \_\_\_\_\_ Representative: \_\_\_\_\_

5. Type of Generator (check if applicable)

Photovoltaic:  Wind:  Microturbine:

Diesel Engine:  Gas Engine:  Turbine Other:

6. Estimated Load Information

The following information will be used to help properly design the Cooperative customer interconnection. This information is not intended as a commitment or contract for billing purposes.

Total Site Load: \_\_\_\_\_ (kW AC) Total DG Output: \_\_\_\_\_ (kW AC)

7. Mode of Operation (check all that apply)

If DG Owner/Operator does not plan on connecting to the grid, the DG Facility will be operating in isolated mode. If DG Owner/Operator plans to connect (or stay connected) to the grid, the DG Facility will be paralleling. If DG Owner/Operator intends to generate more than total site load, the DG Facility is exporting power.

Isolated:  Paralleling:  Power Export:

If exporting power, what is the maximum amount expected? \_\_\_\_\_



## Part 2

### Equipment Details

Complete all applicable items. Copy this page as required for additional DGs.

1. Battery Equipment  
(Skip if batteries are not incorporated in your DG Facility)

|                                   |  |
|-----------------------------------|--|
| Number of Batteries:              |  |
| Manufacturer:                     | Model:                                 |
| Rated Voltage (Volts):            | Rated Amperes (A):                     |
| Total Rated Kilowatts:<br>(kW DC) | Total Rated Kilowatt – Hours:<br>(kWh) |

2. Solar Photovoltaic Equipment  
Inverter Information

|  |                                    |                             |
|--|------------------------------------|-----------------------------|
| Quantity:  | Power Rating per inverter (watts): |                             |
| Total Maximum AC Power Output (kW AC):                                       |                                    |                             |
| Manufacturer:  | Model:                             |                             |
| Rated Power<br>Factor (%):   | Rated Voltage<br>(Volts):          | Rated<br>Amperes:           |
| Inverter Type:   |                                    |                             |
| (Ferro resonant, step, pulse-width modulation, central, micro, string, etc.) |                                    |                             |
| Harmonic<br>Distortion:  | Maximum Single Harmonic (%):       |                             |
|  | Maximum Total Harmonic (%):        |                             |
| UL – 1741<br>Certified?  | Yes <input type="checkbox"/>       | No <input type="checkbox"/> |

*Note: Attach all available calculations, test reports, and oscillographic prints showing inverter output voltage and current waveforms.*

### Solar Panel Information

|               |                          |                             |
|---------------|--------------------------|-----------------------------|
| Quantity:     | Power Rating<br>(watts): | Total DG Output<br>(kW DC): |
| Manufacturer: | Model:                   |                             |

3. Wind Equipment  
Inverter Information

|                        |   |
|------------------------|---|
| Quantity:              | Power Rating per inverter (watts):  |
| Manufacturer:          | Model:  |
| Rated Voltage (Volts): | Rated Amperes:  |
| Single Phase:          | UL – 1741 Certified? Yes <input type="checkbox"/> No <input type="checkbox"/> |

Wind Turbine Information

|               |                       |
|---------------|-----------------------|
| Quantity:     | Power Rating (watts): |
| Manufacturer: | Model:                |

Generator Equipment

Skip if generator is not incorporated in your DG Facility.

|                                |  |
|--------------------------------|--|
| Manufacturer:                  | Model:   |
| Rated Voltage (Volts):         | Rated Amperes:   |
| Total Rated Kilowatts (kW DC): | Transfer Switch: Auto <input type="checkbox"/> Manual <input type="checkbox"/> |
| Transfer Switch Manufacturer:  | Transfer Switch System:  |

**Part 3**

Layout and One-Line Sketch and Placards

Northwestern Rural Electric Cooperative Association, Inc. requires a visible, lockable, labeled AC disconnect (“VLLD”) for interconnection. The AC disconnect must have a visual break (with an external handle) that is appropriate to the voltage level, be accessible to Cooperative personnel, and be capable of being locked in the open position. The Cooperative requests the VLLD be located on an exterior wall and within ten feet from the Cooperative’s billing meter; only under approved exception should it be located elsewhere. If the VLLD is more than ten feet from the Cooperative meter, then the Cooperative requires a site directory placard (indicating the location of the VLLD) to be placed on the Member’s equipment beside the Cooperative’s meter. Note that a second meter (provided by the Cooperative) is required at the DG Facility for the purpose of metering the output of the DG Facility (see the example layout sketch and one-line diagram below).

The Cooperative requires a sketch depicting the physical layout (layout sketch) and a one-line diagram to be submitted with the interconnection Application. The one-line diagram shows the sequence of the Cooperative meters, the VLLD, and the generation equipment. The layout sketch is an overhead view of the physical layout between the Cooperative meter, the VLLD, and the distance between the two. Generic examples of these sketches are provided at the end of this Application for guideline purposes.

1. Checklist for Layout Sketch

**Yes No**

- Did you identify the address on the layout sketch?
- Did you identify the location of the Cooperative billing meter, the DG Output meter, the Visible, Lockable, Labeled, Disconnect (VLLD), and the distance between the two?
- Does the layout sketch have the words "Visible, Lockable, Labeled, Disconnect" written on the sketch?
- Is the VLLD located within ten feet of the Cooperative meter?
- If No, then did you provide placard proofs that will be used at or near the Cooperative meter base showing the location of the VLLD?

2. Checklist for One-Line Diagram

**Yes No**

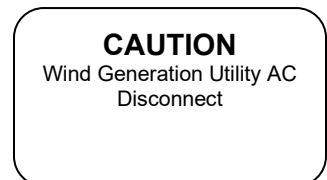
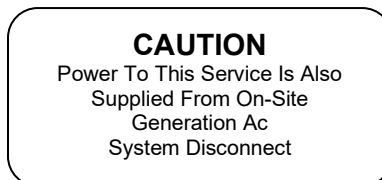
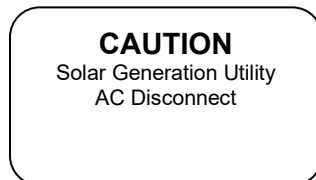
- Did you identify the address on the one-line diagram?
- Did you identify the location of the Cooperative billing meter, the DG Output meter, the VLLD, and the generation equipment?
- Does the one-line diagram have the words written on the sketch that show the location of the Cooperative Billing meter, the DG Output meter, the VLLD, and the generation equipment?

3. Caution or Warning Placard Language

a. Labeling for the Placard on Visible Disconnect

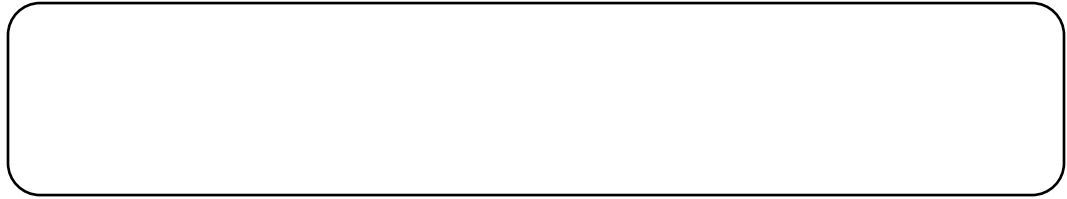
Please indicate the placard warning language that will be utilized on the VLLD:  
(or attached separately)

Examples:





b. Directory Warning Providing Visible Disconnect Location Language



Examples:

**CAUTION**  
Power To This Service Is Also Supplied from  
On-Site Generation Ac System Disconnect Is  
Located On South Wall Of Detached Garage

**CAUTION**  
Power To This Service Is Also Supplied from On-  
Site Generation Ac System Disconnect Is  
Located On the West Wall Of This Structure

c. Contact information

Contact names and numbers of both the Member and the Cooperative

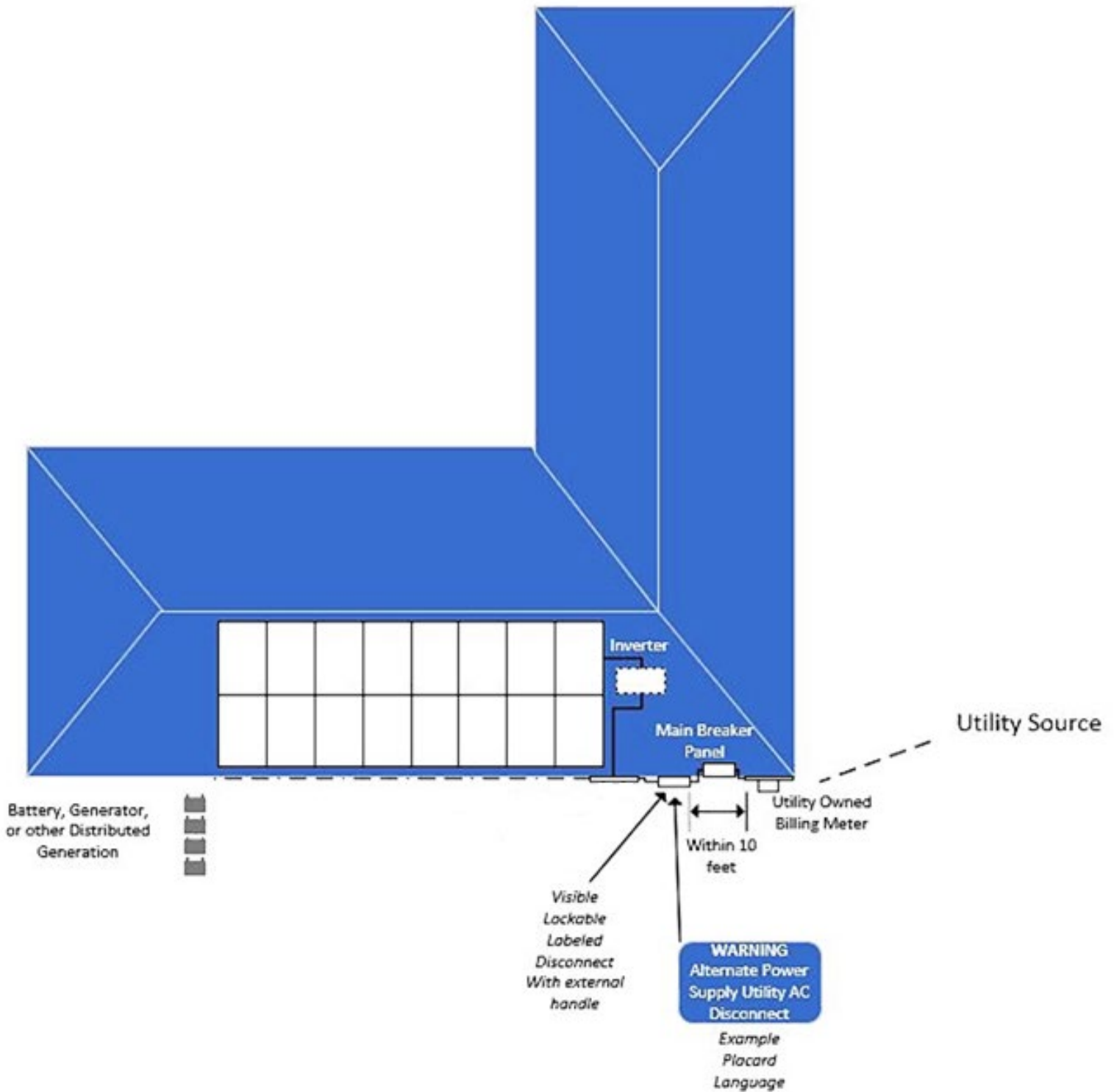
#### 4. Layout Sketch Requirements

Name:

Address:

(Street, City, State, Zip)

Utility Meter #



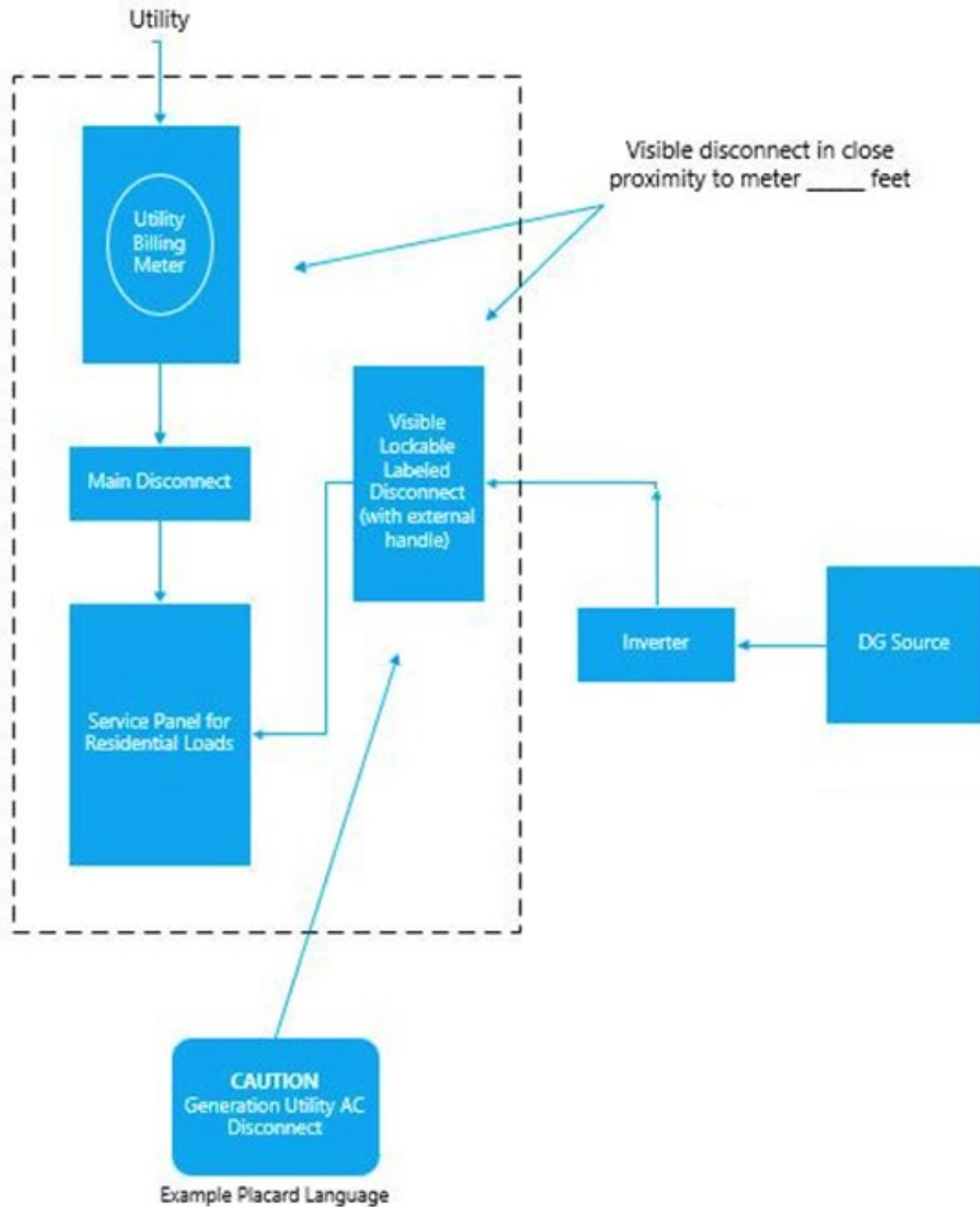
## 5. One Line Requirements

Name:

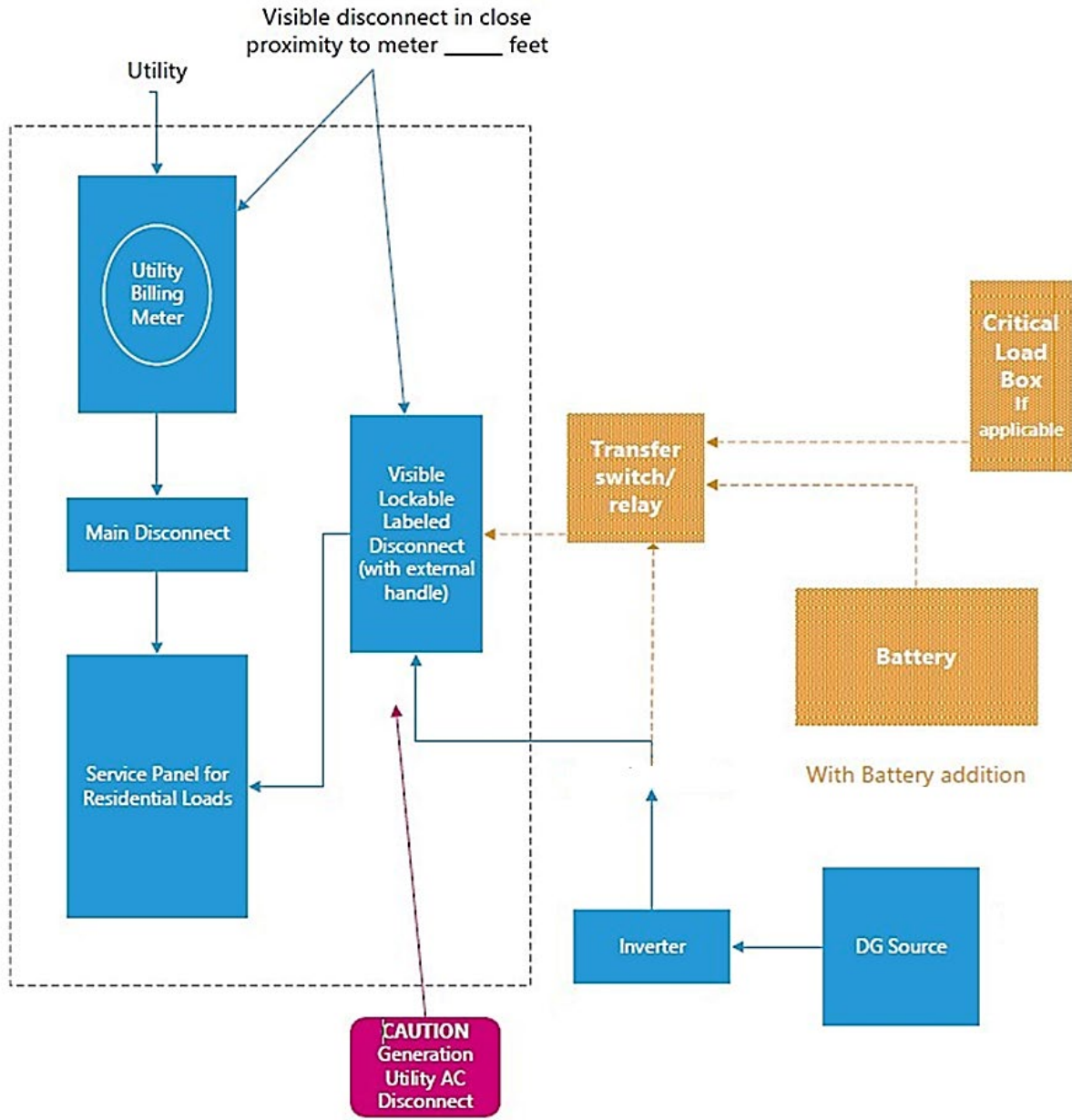
Address:

(Street, City, State, Zip)

Utility Meter #



# Distribution Generation Solar Installation Battery Addition

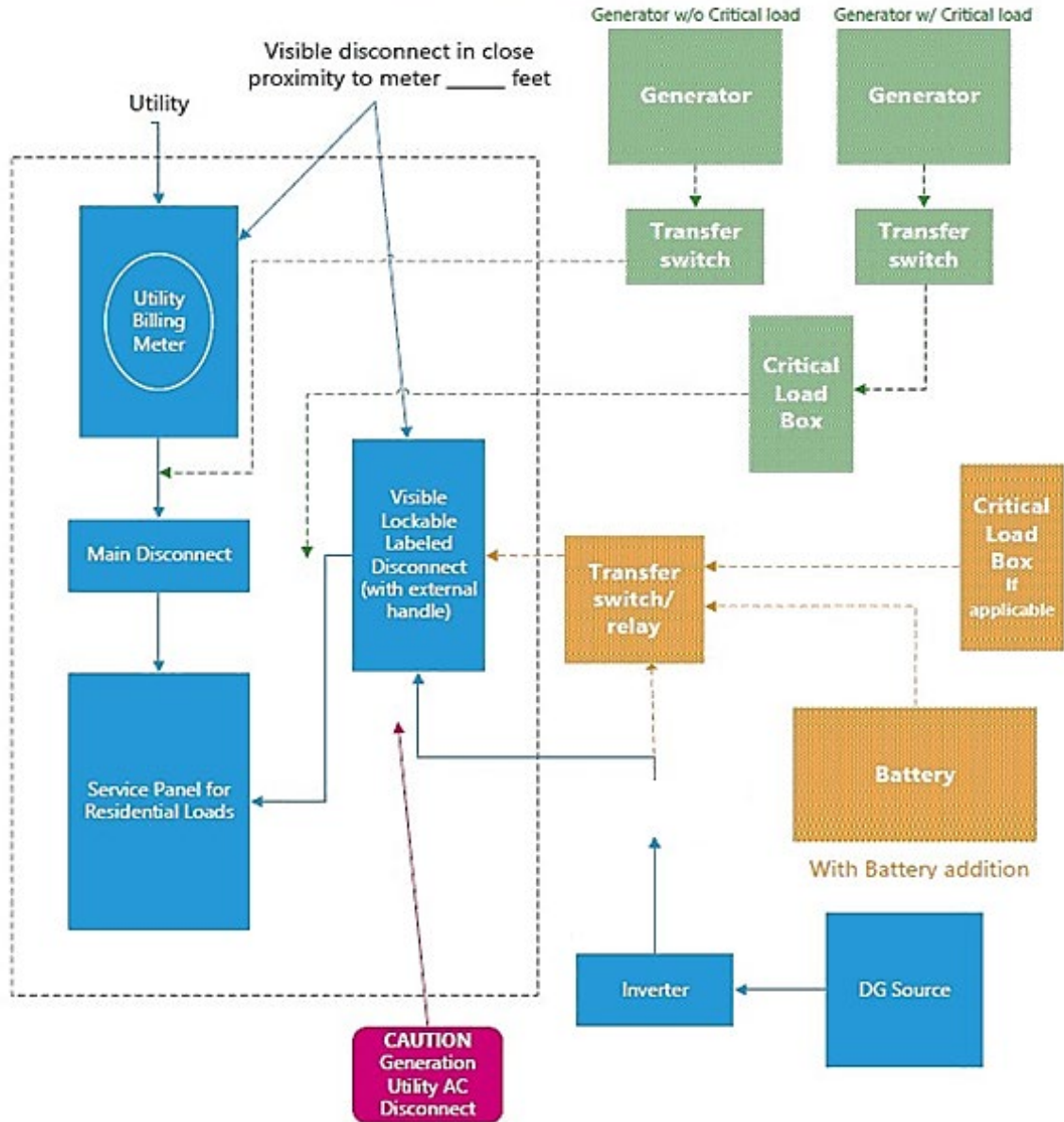


Example Placard Language

# Distribution Generation Solar Installation

## Battery Addition

## Generator Addition

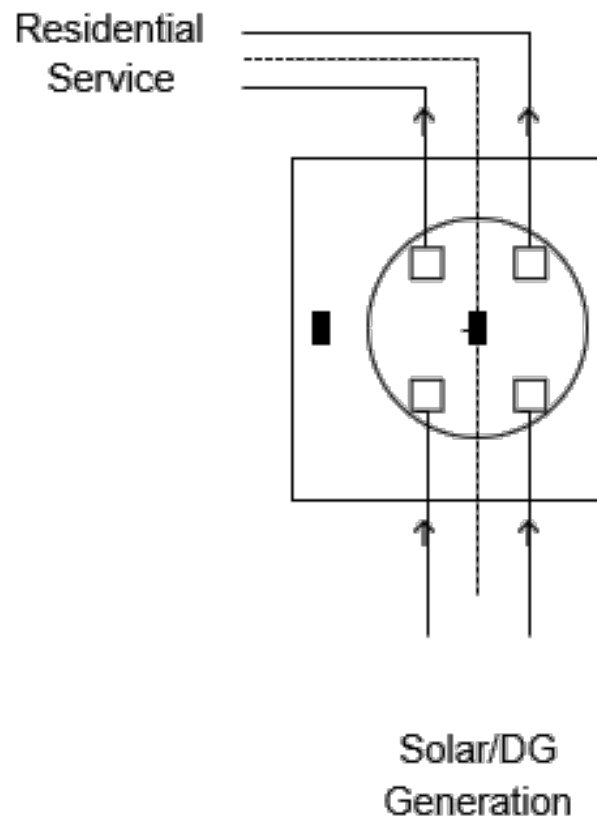


Example Placard Language

## 6. DG Output Meter Wiring Requirements

If installing a DG output meter base, Northwestern Rural Electric Cooperative Association, Inc. requires the DG output conductors wired to the bottom lugs of the meter base. This information is mainly for the electrician who is installing the DG Facility. The DG Facility will not be approved if the meter base is not wired as directed. Northwestern Rural Electric Cooperative Association, Inc. will provide a meter upon inspection.

Refer to this reference drawing:



## **Member Certification and Agreement**

The Member certifies that, to the best of its knowledge, the information provided in this Application is true. The Member agrees to provide the Cooperative with any additional information required to complete the interconnection. The Member shall operate its equipment within the guidelines set forth by the Cooperative. The Member further agrees to assign the energy generated by its Distributed Generation Facility to the Cooperative and to relinquish in favor of the Cooperative any claims to any Renewable Energy Credits (RECs) related to the energy production associated with the equipment made part of this Application.

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Applicant

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Date

Once this Application is submitted to the proper Cooperative contact and the DG Facility is constructed, an inspection will be scheduled. If the DG Facility is approved for operation, a Permission to Operate (PTO) document will be sent to the Member or their agent. The DG Facility should not be operated until the PTO is received.

### **NORTHWESTERN RURAL ELECTRIC COOPERATIVE ASSOCIATION, INC. CONTACT FOR APPLICATION SUBMISSION AND FOR MORE INFORMATION:**

Energy Solutions Representative  
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