

Dominion Energy South Carolina Residential Solar Equipment Requirements



The purpose of this document is to assist installers with the installation process and reduce the amount of Meter Order Turndowns by providing supplemental material. This is not intended to be an installation guide.



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Equipment Requirements: AC Disconnect Switch



Must be:

- [Accessible](#) to Dominion Energy South Carolina personnel.
- Installed in close and visible proximity (adjacent) to the main meter.
- Load break rated and shall provide a visible air gap and be lockable in the **OFF** position.

Be sure that:

- The switch is in the **OFF** position prior to Meter Order Inspection.
- It successfully energizes the [Customer Generation Meter](#) socket when in the **ON** position.
- It successfully deenergizes Customer Generation Meter socket when in the **OFF** position.

Inspection Checklist ✓: Solar Panels



PV Array # 1 Model: 340 (Model REC340TP 72)	DC/AC Inverter Model: 7.6 KW (Model Fronius Primo 7.6)
<input type="checkbox"/> Existing <input checked="" type="checkbox"/> New	<input type="checkbox"/> Micro-Inverter <input checked="" type="checkbox"/> Inverter
Module Wattage: 340	
# of PV Modules in Array: 27	# of Inverters: 1

Please be sure:

- The model and total number of panels installed correctly represent the number and model of panels submitted on the [Single-Line Diagram](#) (Note: Any changes made to the system after approval should be recorded in PowerClerk as a 'PV System Update').

Inspection Checklist ✓: Customer Generation Meter Socket



Must be:

- A Ringless Meter Socket.
- [Accessible](#) to Dominion Energy South Carolina personnel.
- Installed in close and visible proximity to the main meter.
- Located immediately following the customer (load) side of the [AC Disconnect Switch](#).



a. Ringed Meter Socket

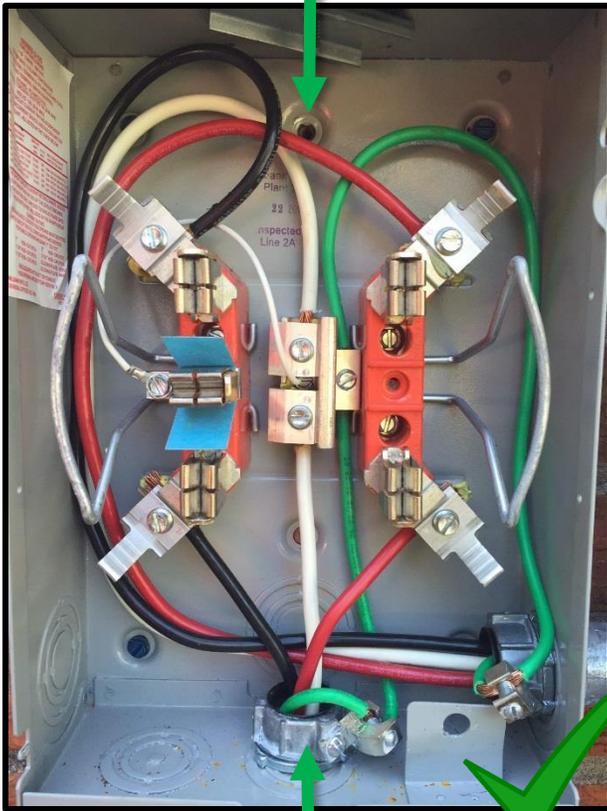
Be sure that:

- The meter socket is deenergized when AC Disconnect Switch is in the **'OFF'** position.
- The meter socket is energized when AC Disconnect Switch is in the **'ON'** position.



b. Ringless Meter Socket

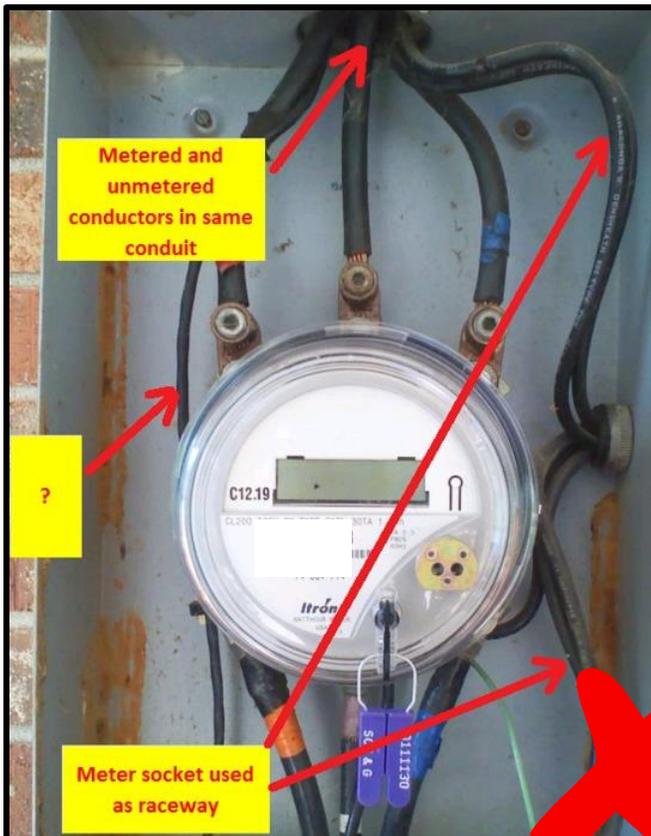
Utility on **Top**.



Additional Requirements:

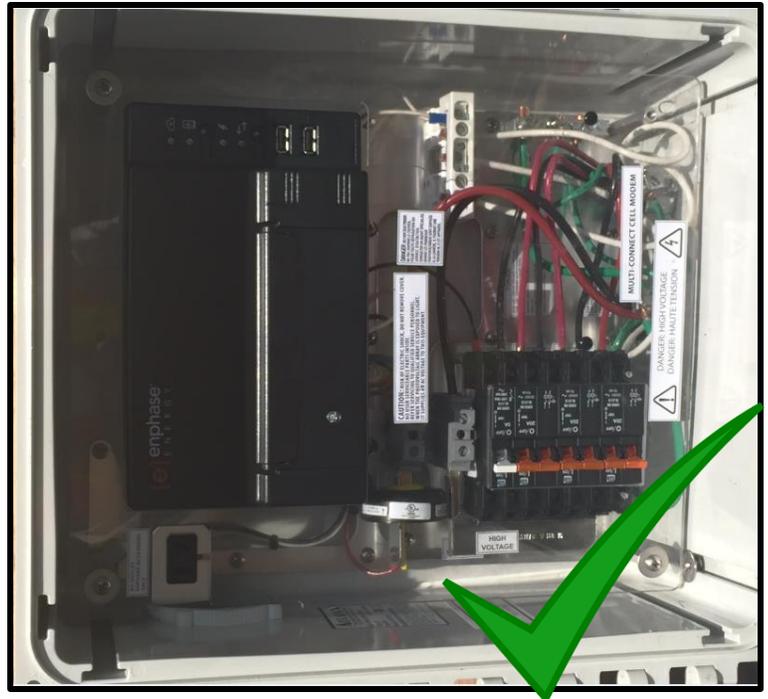
- All wires entering meter socket must be terminated inside (including neutrals).
- Solar Generation must be wired to bottom lugs while utility must be connected to top lugs for customer to receive credit.

Solar Generation on **Bottom**.



- Meter Socket must **NOT** be used as a “raceway” by conductors.
- Metered and Unmetered conductors must **NOT** share the same conduit.

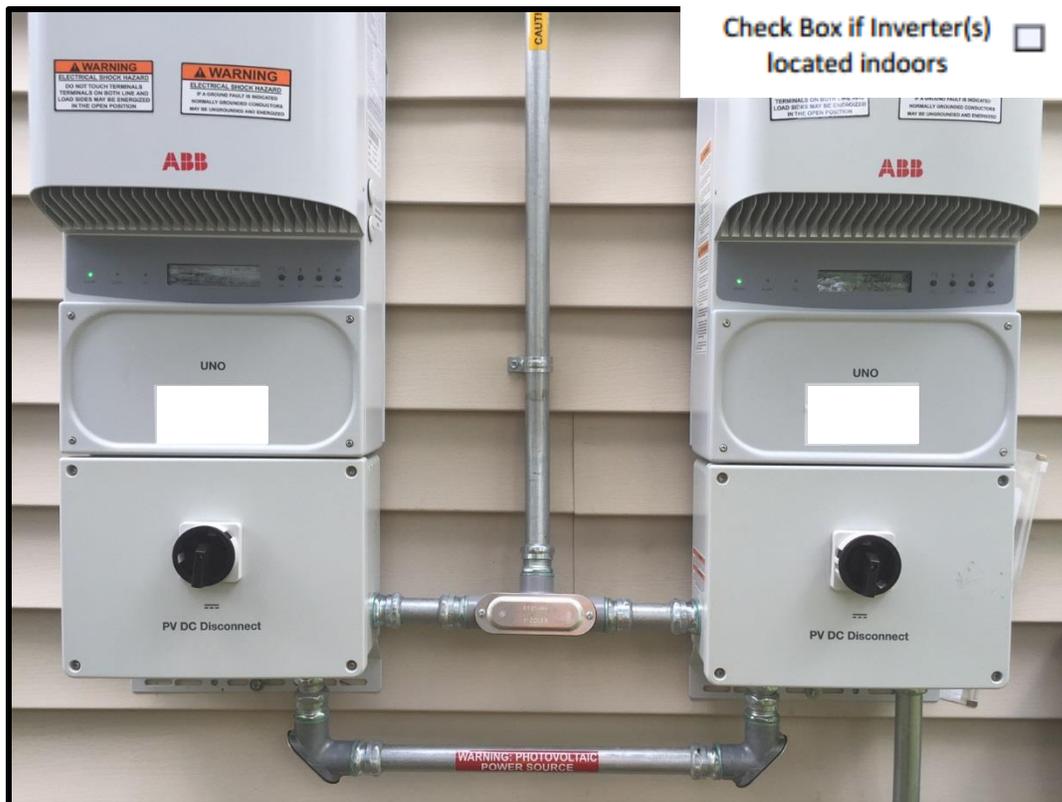
Inspection Checklist ✓: Breaker Panels & Additional Disconnect Switches



Be sure that:

- All breaker panels, fuses, combiner boxes, and additional disconnect switches (apart from the required main [AC Disconnect Switch](#)) are in the **ON** position if located in inaccessible locations (i.e. garages, indoors, etc.).
- Any additional Disconnect switches and fuses must **NOT** bypass the required AC Disconnect Switch.

Inspection Checklist ✓: String-Inverters



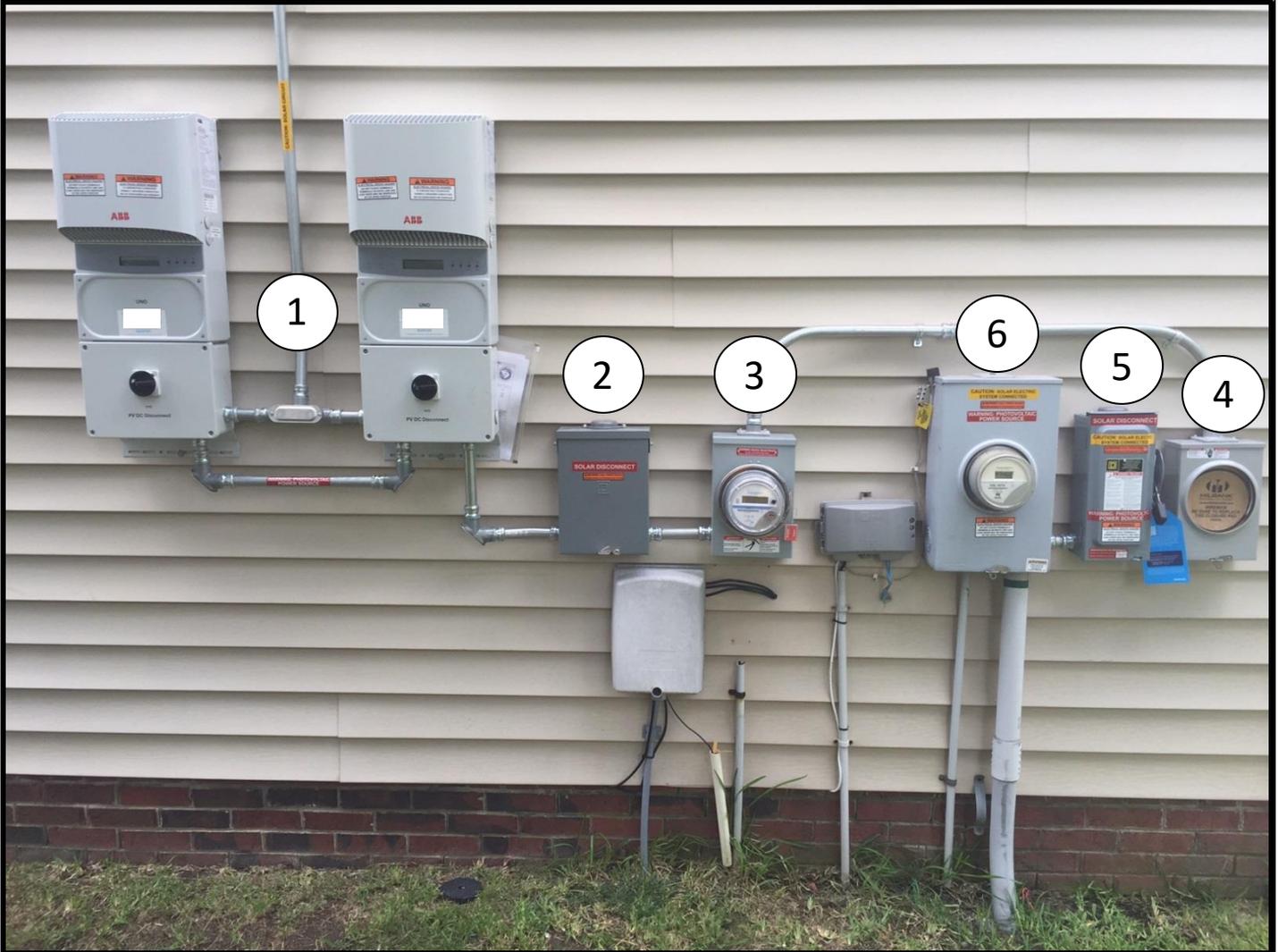
Be sure that:

- Inverter model and size installed matches submitted [Single-Line Diagram](#).
- If inverters are located indoors be sure to check the box labeled on the Single-Line Diagram.
- Inverters have been paired/initialized and are working properly prior to utility inspection.

Note:

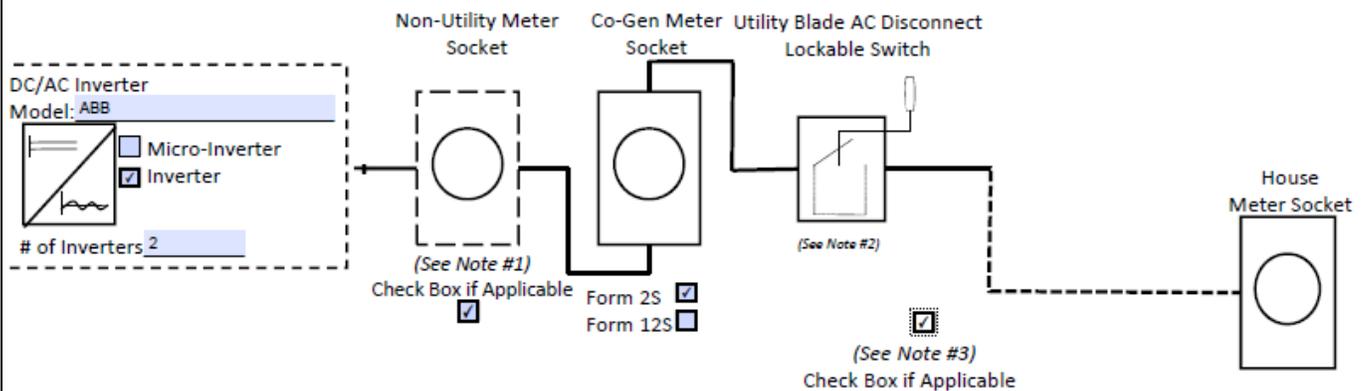
- [Accessibility](#) is **NOT** required for Inverters. however, Inverters that fail to pair/initialize will also fail Meter Order Inspection.

Inspection Checklist ✓: String-Inverters

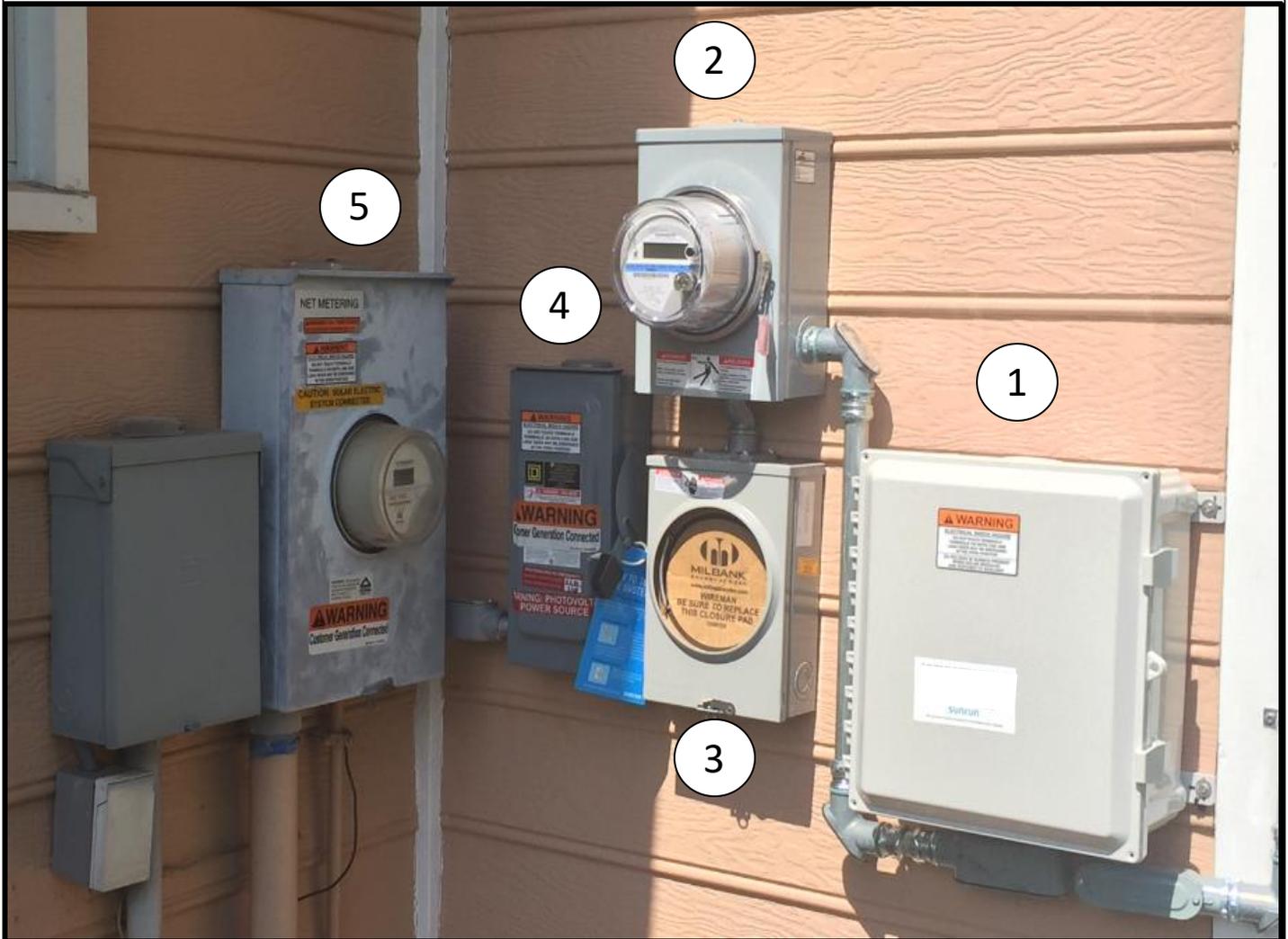


Checklist:

1. [DC/AC Inverter\(s\)](#)
2. (Optional) [Circuit Breaker/Combiner Box](#)
3. (Optional) Non-Utility Meter
4. [Customer Generation Meter Socket](#)
5. [AC Disconnect Switch](#)
6. House Meter Socket

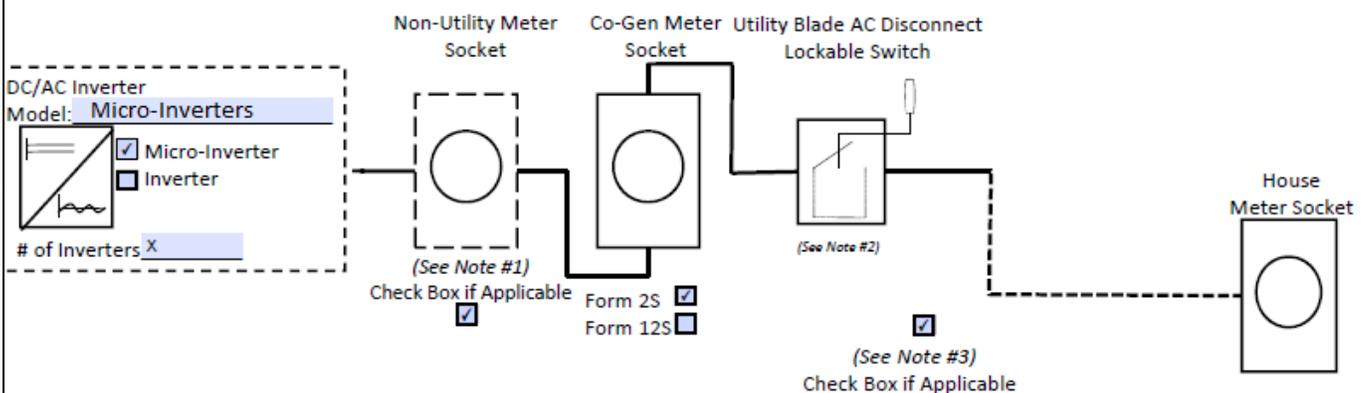


Inspection Checklist ✓: Micro-Inverters



Checklist:

1. (Optional) [Circuit Breaker/Combiner box](#)
 2. (Optional) Non-Utility Meter
 3. [Customer Generation Meter Socket](#)
 4. [AC Disconnect Switch](#)
 5. House Meter Socket
- *Micro-Inverters not shown as they are attached to PV Panels.**



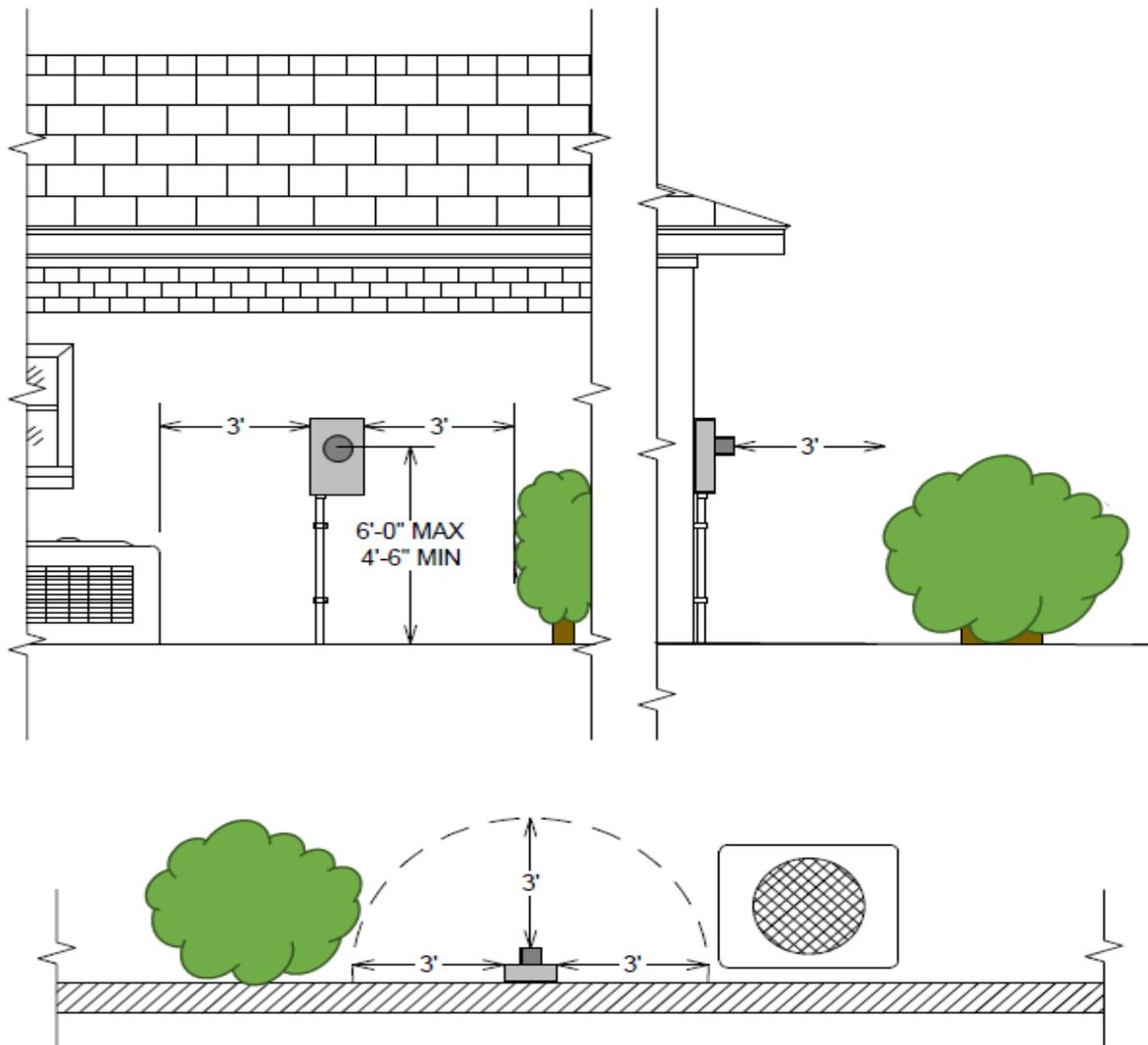
Inspection Checklist ✓: Metering Equipment Accessibility



Be Aware:

- Dominion Energy South Carolina must have access to the main [disconnect switch](#) and [metering equipment](#) at all times, not only at the time of our Inspection and Meter Set.
- Meter(s) and main disconnect switch should be located in immediate proximity of main house meter.
- Meter(s)/Area must be accessible and made safe, not blocked by plants or gates.
- Pets/animals should be confined and away from the meter area.
- If current equipment location does not provide adequate access, please contact us at **(800)251-7234** to coordinate relocating your equipment.

Inspection Checklist ✓: Metering Equipment Accessibility



Note: **Taken from [Electric Service and Meter Installations manual](#) (page 50).*

- Clearance and mounting height is a safety requirement.
- Horizontal clearance of 3 feet is minimum requirement for obstructions in any direction.
- Meter mounting height for residential or commercial meters is 6' maximum and 4'-6" minimum.
- Obstructions include, but not limited to trees, shrubs, HVAC units, walls or buildings
- Customer responsible for removal/relocation of any obstruction.

Additional Information:

Resources:

- [Solar For Your Home](#)
- [Solar Homeowners Guide](#)
- [Single-Line Diagram Template](#)
- [PowerClerk – Installer User Guide](#)
- [Electric Service and Meter Installation Manual](#)

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