City of SACRAMENTO
Community Development

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Photovoltaic Inspection Guidelines

Residential Interactive Systems

In General

- ☐ Per 2022 CEC 690.4(C) – the installation of equipment and associated wiring and interconnections (of a PV system) shall be performed only by Qualified Persons.
  - ☐ Customer/Installer shall provide Approved Plans on site for inspector.
  - ☐ Photovoltaic module number and location of installation must match Approved Site Plan.
  - ☐ Customer/Installer shall provide access to all areas needed for inspection.
- ☐ On Roof, if Tile – Installer shall provide properly supported temporary walking surface to access all connections of all modules or the contractor shall provide a letter to the building inspector stating that the solar company will assume responsibility for any tile broken by the inspector. If two story – Installer shall provide a proper and secured ladder(s) to access all areas.
- ☐ In House – If wiring in attic and/or garage area, the customer/installer shall ensure access to attic and/or garage.

On Roof

- ☐ Verify all structural supports are properly installed per listing and properly sealed.
- ☐ Verify all metallic raceways, J-boxes, supports and modules are properly grounded. Modules shall be grounded separately to allow removal of a single module and without disrupting the grounding of other modules by means of properly installed wires, lugs, screws, bolts or other listed methods. (Sheet Metal Screws are not allowed – 250.8). 2022 CEC 690.43
- ☐ Verify all exposed wiring is listed Sunlight Resistant. 2022 CEC 690.31
- ☐ Verify all module interconnections connectors require a tool for opening. 2022 CEC 690.33

DC Disconnect

- ☐ If DC wiring is run through the building, a DC Disconnect shall be installed prior to the conductors entering the building or the conductors shall be installed in metallic raceways, mc cable or metallic enclosures from the point of entrance to the DC Disconnect and all conduits and J-boxes shall be labeled “PHOTOVOLTAIC POWER SOURCE”. 2022 CEC 690.31(G)
- ☐ Verify proper and permanent labeling with the following information: “PV SYSTEM DISCONNECT” and “WARNING ELECTRIC SHOCK HAZARD – TERMINALS ON BOTH THE LINE AND LOAD SIDE MAY BE ENERGIZED IN THE OPEN POSITION”. 2022 CEC, Article 690.13.
- ☐ The DC disconnect shall also be properly and permanently labeled with the following Installed System Information: (1) Maximum Voltage (2) Maximum Circuit Current (3) Maximum Rated Output Current of the Charge Controller or DC to DC Converter. 2022 CEC, 690.53

Grounding

- ☐ The Utility Service Panel shall have a grounding electrode system. 2022 CEC 690.47(A)
- ☐ Both the DC system and the AC system shall have a minimum of a # 8 copper grounding electrode conductor and both electrode conductors shall be solidly bonded to the Utility Service Panel electrode system as well as any new grounding electrodes. 2022 CEC 690.47(B)

AC Disconnect and Utility Panel

- ☐ The AC Disconnect shall be permanently identified with (1) Rated AC Output Current, and (2) Operating AC Voltage. 2022 CEC 690.54
- ☐ If DC Disconnect, Inverter, and/or AC Disconnect are not in the same location as the Utility Service Panel is located, a permanent Plaque shall be installed on the Utility Panel identifying the location(s) of the other equipment. 2022 CEC 705.10.
- ☐ Photovoltaic interconnection at the Utility Service Panel shall be installed per 2022 CEC 705.12 or 705.13.

Testing

- ☐ Verify Installer has installed meter jumpers, if so equipped, at PV meter socket.
- ☐ Energize system and check display for output (wait time could be up to 5 min).

Note: Rooftop Micro-inverter Systems have LED lights to show conditions, or a Voltage tester can be used at load terminals of the circuit breaker/disconnect at the service panel.