

**Building and Safety Division
E-Inspection Compliance and Certification Form**

Residential Roof Mounted PV Permit under 15 KW

IMPORTANT! Completion and submittal of this form is *required* in order to pass inspections and finalize this roof-mounted solar permit. Incomplete or non-legible forms will *not* be accepted by the Tuolumne County Building and Safety Division.

Directions: Please verify, complete and initial each item below before you sign and upload this form.

1. _____ I certify that the **roof structure** has been reviewed for compliance with applicable provisions of CRC 301 and CRC Chapter 8 and is adequate to support the additional loads imposed by the photovoltaic system installed under the provisions of this permit.
2. _____ I certify that the **rack system** supporting the photovoltaic equipment is installed and attached to the roof in compliance with my manufacturer's specifications for the type of photovoltaic equipment installed under the provisions of this permit.
3. _____ I certify that all **warning labels** are installed in compliance with CEC Article 690 and 705 for the photovoltaic system installed under the provisions of this permit.
4. _____ I certify that the photovoltaic **overcurrent protection and disconnecting means** are in compliance with CEC 690.9, 690.13, 690.15, and Tuolumne County Ordinance Code Section 15.04.45 for the photovoltaic system installed under the provisions of this permit.
5. _____ I certify all **conductor sizes** are in compliance with applicable sections of CEC 220.61, Table 310.15(B)(16), 690.8, and my manufacture's specifications for the photovoltaic system installed under the provisions of this permit.
6. _____ I certify that the **electrical conduit** was sized and installed in compliance with applicable provisions of CEC Article 320 - 362, CEC Annex C, and my manufacture's specifications for the type of conduit installed under the provisions of this permit and that all changes in wiring method are completed in compliance with CEC Article 300.
7. _____ I certify all **grounding and bonding** is in compliance with CEC 690.41 through 690.50 and my manufacture's specifications for photovoltaic system installed under the provisions of this permit.
8. _____ I certify that all **utility-interactive inverters** are installed in compliance with applicable provisions of CEC Article 690.59, and my manufacture's specifications for the type of inverters installed under the provisions of this permit.
9. _____ I certify that all **storage batteries** are installed in compliance with applicable provisions of CEC Article 706, and my manufacture's specifications for the type of storage system installed under the provisions of this permit.

10. _____ I certify that at all components of the photovoltaic system meet the requirements of CRC 324.6 for roof access and pathways for the safety of maintenance and Fire Department personnel.

11. _____ I certify that I have advised the owner of this dwelling of their obligation to install **smoke detectors and carbon monoxide detectors** in compliance with CRC R314 – R315 for quantity, location, power supply and listing.

I hereby affirm under penalty of perjury by my signature below, I have: 1) reviewed and satisfied all applicable Code requirements contained within this permit application; and 2) inspected and verified each of the provisions enumerated above prior to my certifying their compliance with my initials.

Contractor's Signature: _____ Date: _____

Contractor's License #: _____ Permit #: _____

**Building and Safety Division
E-Inspection Picture Instructions**

Residential Roof Mount PV Permit under 15 KW

NOTE: if the project includes a new or existing generator, it does not qualify for the E-Inspection program. Please call for an in-person inspection. **Ensure structure/re-roof permits are finalized prior to Solar Inspection request.**

IMPORTANT: Submittal of pictures for the work performed is *required* to pass inspections and finalize the PV permit. Incomplete or poor-quality picture sets will *not* be accepted by the Tuolumne County Building and Safety Division.

Directions: Digitally photograph/upload the following details/documents to the system and request the inspection.

1. **Plan set** including:
 - a. Line diagram
 - b. Roof access and pathways diagram
2. **Front of House/Address**
 - a. Permit Placard displayed next to address
3. **Area of Installation**
 - a. Overview of location of array and equipment
 - b. Roof access and pathway measurements
4. **PV panel specifications**
 - a. Electrical specifications sticker on the specific panel installed. Picture should clearly indicate model, Isc, and Voc.
5. **Wire Management**
 - a. Clear space under panels
6. **Interior of Junction Box, Combiner, Inverter, Subpanels**
 - a. Wire sizing and configuration, bonding, and box fill.
 - b. Micro inverters or optimizers mounted to the module.
7. **Exterior of Junction Box, Combiner, Inverter Subpanels**
 - a. Include picture of Inverter specs on outside of inverter, and labels on all panels/boxes.
8. **Warning Labels**
 - a. Directory – a placard or legible depiction of all electrical generating equipment associated with this system. This is not limited to the current system installation.
 - b. Clearly identify and label all conduits at 10' max.
 - c. Show all required Warning Labels per CEC Article 690.
9. **Service panels**
 - a. Working clearance and exterior labels.
 - b. Interior of panel with dead-front removed demonstrating all wire sizes, grounding and bonding, and disconnect ratings. Photo with dead-front in place, showing required labeling.
 - c. Identify panel specification with main breaker size. Include busbar ratings if applicable.
10. **Ground System**
 - a. Pictures of all grounding connections and associated grounding conductors for array and support system.
 - b. UFER, existing ground rod. Two ground rods are required if a UFER is not present, and the service is being replaced.
11. **Rack system** Demonstrate proper attachment of rack system to roof, proper flashing, and proper attachment of each rack component.
12. **Attic Framing**

- a. If roof structure is inadequate, demonstrate bracing method in attic to support array. If roof trusses present, provide picture of truss design demonstrating adequate loading and compare to existing truss for verification.
- b. Show location and labeling of attic conduit.

13. **Completed smoke detector/carbon monoxide self-certification form**

14. **Completed compliance and certification form**