



# REDWOOD VALLEY CALPELLA FIRE

8481 EAST RD

REDWOOD VALLEY CA 95470

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## PV AND ESS GENERAL REQUIREMENTS

- 1- Signage, **WARNING: PHOTOVOLTAIC POWER SOURCE** is required adjacent to the main service disconnect. Labels shall conform to UL 969, red labels with white lettering.
- 2- Signage, **WARNING: PHOTOVOLTAIC POWER SOURCE** shall be placed on conduit, raceways, enclosures, junction boxes. DC disconnects shall be labeled as such, with red labels having white lettering. All labels shall conform to UL 969, red labels with white lettering.
- 3- Conduit, wiring systems, and raceways for photovoltaic circuits shall be located as close as possible to the ridge or hip or valley and from the hip or valley as directly as possible to an outside wall to reduce trip hazards and maximize ventilation opportunities. Conduit runs between sub arrays and to DC combiner boxes shall be installed in a manner that minimizes the total amount of conduit on the roof by taking the shortest path from the array to the DC combiner box. The DC combiner boxes shall be located such that conduit runs are minimized in the pathways between arrays. DC wiring shall be installed in metallic conduit or raceways when located within enclosed spaces in a building. Conduit shall run along the bottom of load bearing members. *2019 CFC Section 1204.2.3*
- 4- All pathways shall be located over areas capable of supporting the live load of fire fighters accessing the roof.
- 5- Install a red permanent phenolic plaque on the service entrance door denoting **Photovoltaic Disconnect**.
- 6- Provide a red permanent phenolic plaque next to the main electrical disconnect denoting building site plan and solar array locations.
- 7- Install a red permanent phenolic plaque at the service entrance equipment denoting all electrical power sources and location of onsite emergency power sources (*CEC 705.10*). Minimum size shall be 3"x4."
- 8- Array DC disconnects shall be accessible and labeled with red weather resistant UL 969 compliant signage. **All conduit on roof shall be labeled if DC.**

9- Rooms and areas within dwelling units, basements, and attached garages in which ESS are installed shall be protected by smoke alarms in accordance with CRC Section R314. **A listed heat detector shall be installed in locations within dwelling units and attached garages where smoke alarms cannot be installed based on their listing.** Cut sheets must be present at time of final.

10- ESS shall maintain (3- Feet) between each unit, and be wall mounted at least (18") off the ground

11- ESS to have dedicated 30-amp breaker.

12- **CAUTION TRI POWER SOURCE**  
SECOND IS PHOTOVOLTAIC SYSTEM  
**THIRD SOURCE IS ENERGY STORAGE SYSTEM**  
All labels shall conform to UL 969, red labels with white lettering

13- Approved plans and permit must be on site at the time of inspection. No exceptions.

14- Final acceptance of this project is subject to field inspection.

Upon completion of work and prior to occupancy, **contact** Matt at [Mkeizer@redwoodvalleyfire.org](mailto:Mkeizer@redwoodvalleyfire.org) **to schedule a final inspection.**

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Matt Keizer  
Fire Marshal  
MKEIZER@REDWOODVALLEYFIRE.ORG

*\*\*Fire Department Project Review Comments are best recommendations based upon the information submitted. This review is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Corrections or comments made on the shop drawings during the review do not relieve Contractor from compliance with the requirement of the plans and specifications. Approval of a specific item shall not include approval of an assembly or with the item is a component. Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite: Information that pertains solely to the fabrication processes or to the mean, methods, techniques, sequences and procedures of construction: coordination of the Work of all trades: and for forming all work in a safe and satisfactory manner. Comments such as location of street numbers, door & exit signs, fire extinguishers, fire lanes & no parking areas, electrical shut off access, secure lock box, fire alarms, smoke detectors and other routine requirements will be annotated when construction plans are reviewed for a permit Actual locations will be field identified by the Fire Prevention Bureau.\*\**