



CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT

_____ **PV**
F.D. Project Number

Date

Description of Work: _____

Project Name: _____ Address: _____

Suite: _____ City: _____ Zip: _____

Contractor: _____ Contractor's License/Type #: _____

Address: _____ City: _____ State: _____ Zip: _____

Contact Person: _____ Phone No. (): _____ Email: _____

OFFICE USE ONLY: DO NOT COMPLETE BELOW THIS LINE

The Fire District has reviewed the proposed photovoltaic roof system plans for the subject project. Our non-structural review is to ensure compliance with minimum code requirements related to fire and life safety as set forth in the 2022 California Fire Code. Exceptions taken are subject to the approval of the fire inspector of record.

FIRE DEPARTMENT NOTIFICATION

Applicant shall fill out the attached form (ENG 026) and return to the clerk at the front counter. The form is to provide information that will be entered into the departments dispatch system to provide information to responding fire crews of the use of solar power on the property.

REQUIREMENTS FOR MARKING

- Provide markings for DC circuit wiring methods and enclosures. Materials shall be weather resistant reflective materials for markings with minimum 3/8" letters white on red background. Typical wording "WARNING: PHOTOVOLTAIC POWER SOURCE" or as otherwise approved. Locate as follows:
 - a. Exposed raceways, cable trays and other wiring methods
 - b. Covers or enclosures of pull boxes and junction boxes
 - c. Conduit bodies in which any of the available conduit openings are unused
 - d. Every section of wiring separated by enclosures, walls, partitions, ceilings or floors
 - e. Every 10 feet
 - f. At all DC combiner and junction boxes. (CEC 690.31(1) (D) and (2))

LOCATION OF DC CONDUCTORS

- Locate conduit, wiring systems, and raceways as close as possible to ridge, hip or valley and follow a direct route to an outside wall to reduce trip hazards and maximize ventilation opportunities. Locate DC combiner boxes such that conduit runs are minimized in the pathways between arrays. (CFC 1205.2.4 and 1205.3.4)

(CONTINUED OVER)

Fee computed by: _____ Amount Due: \$ _____

Received by: _____ Amount Received: \$ _____

Cash Credit Check No. _____ Invoice No. _____

- To limit the hazard of cutting live conduit in venting operations, run DC wiring in metallic conduit or raceways when located within enclosed spaces in a building, and to the maximum extent possible, along the bottom of load-bearing members. (CFC 1205.2.4 and 1205.3.4)

FIRE DEPARTMENT ACCESS

- For Group R-3 buildings**, no fewer than two 36 inch wide pathways on separate roof planes shall be provided from lowest roof edge to highest ridge. At least one shall be street or driveway side of the roof. (CFC 1205.2.1.1)
- For other than Group R-3 buildings**, provide a clear unobstructed perimeter around the edges of the roof 6 foot wide minimum, or 4 foot wide where either axis of the building is 250 feet or less. (CFC 1205.3.1)
- Provide Interior pathways that comply as follows: (CFC 1205.3.2)
 - a. Pathways shall be provided at 150 feet intervals throughout the length and width.
 - b. Straight line not less than 4 feet clear to skylights and ventilation hatches and roof standpipes.
 - c. Four feet clear around roof access hatch with at least 4 feet path to parapet or roof edge.

SMOKE VENTILATION

- Where non gravity operated smoke/heat vents occur not less than 4 feet wide shall be provided bordering all sides. (CFC 1205.3.3)
- Ventilation options between arrays shall be provided as follows: (CFC1205.3.3)
 - a. Pathway 8 feet or greater in width.
 - b. Pathway 4 feet or greater width bordering roof skylights, or smoke/heat vents.
 - c. Pathway 4 feet or greater and bordering 4-foot by 8-foot “venting cutouts” every 20 feet on alternating sides of the pathway.

RAPID SHUTDOWN TYPE

- Buildings with rapid shutdown solar PV systems shall have permanent labels. First two lines of the label shall be uppercase characters min height 3/8 inch in black on yellow SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN. TURN RAPID SHUTDOWN SWITCH TO THE “OFF” POSITION TO SHUTDOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY.(CFC 1205.5.1)

Additional comments: _____

Contact the Fire District at **925-941-3300 ext. 3902** (minimum **two** working days’ notice required) to schedule final inspection available Monday through Thursday excluding holidays.

On the morning of the inspection, a confirmation telephone call made to the Fire District at 925-941-3300 is necessary between 8:00 and 8:30 AM. Otherwise, the inspection will be cancelled.

Final acceptance is subject to field inspections and necessary tests.

Approval does not relieve the designer / contractor from complying with all applicable fire code requirements, nor does it abrogate the requirements of other authorities having jurisdiction.

- Approved as submitted Approved with Comments Denied, Resubmittal Required

Reviewed by: _____ Date: _____