

#### **RESIDENTIAL SOLAR INSTALLATION STANDARD**

In accordance with section 101.3 of the California Fire Code: For subjects not specifically covered by the code, as deemed necessary for firefighter safety and suppression activities, the Woodside Fire Protection District, as of June 1<sup>st</sup> 2007, does hereby formally accept article 690 of NFPA 70 National Electric Code. This standard identifies and indicates safe installation practices of Solar PV systems. All sections of 690 that relate to safe installations practices, usage, storage and safety parameters shall be adhered to. To further include additional safety requirements and to clarify installation requirements, The Woodside Fire Protection District will also include the following standards for all Solar PV installations

- 1. There will be a minimum of 36" of clearance at the ridge line where Solar Array's are installed on roofs. Arrays are allowed to be installed down to the eaves if there remains (3) three access points from the ground to the ridge. If there is less than (3) three access points to the roof ridge there shall remain a 36" perimeter of walking area around the array.
- 2. Ground mounted Solar arrays will be erected in areas clear of combustible vegetation. A minimum vegetation clearance or mowed perimeter of 10' shall be maintained.
- 3. All Solar conduits, interior or exterior, will be permanently labeled with fade resistant, reflective material stating: CAUTION: "Solar PV May Remain Energized After Disconnection During Daylight Hours". (*see attached signage req*)
- 4. Battery storage in enclosed rooms to be mounted a minimum of 24" above floor. If contained within cabinet a permanent placard to be posted.
- 5. Permanent placard installed on exterior and interior of main electrical panel stating CAUTION: "Solar PV System Installed. When Power Disconnected Solar Panels And Wiring May Remain Energized During Daylight Hours"



- 6. All disconnects shall be accessible to fire department and located together when possible.
- 7. A separate emergency disconnect on roof to disconnect solar panels from interior and exterior wiring running to inverter. This disconnect must be permanently labeled, in fade resistant material, "Emergency Disconnect"

## SIGNAGE REQUIREMENTS FOR SOLAR PV SYSTEMS

Two forms of signage are required for Solar PV Systems. Permanently affixed labels should have a red background with white lettering. Printed material should resist fading and have reflective qualities. Size of lettering should be equal to the example below.

#### 1. Exterior/Interior Conduit signage:

To be installed every 20'. For vertical conduit a minimum of 1 label to be affixed at eye level.

<u>CAUTION</u> Solar PV Wiring May Remain Energized After Disconnection During Daylight Hours.

### 2. Exterior/Interior of Electrical Panel signage:

# CAUTION

Solar PV System Installed. When Power Disconnected Solar Panels And Wiring In Conduit To Inverter May Remain Energized During Daylight Hours.