

City of Santa Clara Building Inspection Division 1500 Warburton Avenue Santa Clara, CA 95050

Residential (Single-Family) Solar Photovoltaic System Utility Grid-Tie Connection

PROPOSED GUIDELINES

Plans submitted for a permit must contain the following items:

- 1. Plan view showing location of the PV installation and layout of existing roof framing members that support the system. Provide one three-foot wide clear access pathway from the eave to the ridge on each roof slope where panels are located. Exceptions to this requirement may be requested where alternative access or ventilation is provided;
- 2. Details on mounting of PV modules, type and number of roof cover coverings, and subsequent weatherproofing of the roof;
- 3. Electrical single-line diagram clearly identifying all devices installed in the PV system and indicating total kVA rating of system. Total system wattage shall be 10 kW maximum;
- 4. Clearly identify the point of interconnection with the utility supplied wiring system and provide details on main breaker, PV breaker and rating of bussing;
- 5. Indicate type and size of all conduit and conductors throughout the PV system;
- 6. Provide manufacturer's cut-sheets and installation instructions for all PV modules, mounting system, combiner boxes (if used), inverters, and disconnects;
- 7. Provide structural calculations, prepared by a registered California design professional, if the total weight of the photovoltaic system is over five pounds per square foot;
- 8. The installation of the PV system shall conform to the requirements of CEC Article 690 and any other applicable articles or standards.

A sample of the plan view and electrical one-line diagram pages are attached.



