## COUNTY OF SANTA CLARA Electric Vehicle Charging System Over the counter permit guidelines

An electrical permit is required for an EV charging system to be installed in the garage or carport of a single-family dwelling. Electric Vehicle Supply Equipment (EVSE) consists of the connector, cord, and interface to utility power. The interface between the EVSE and utility power is typically directly hard-wired to the control device, and each automaker has its own EVSE design. A J1772 Standard EV coupler should be utilized for all installations.

The following information is required with the application for an over-the-counter permit:

- 1. EV charging system information: Level 1 or 2, EVSE system with UL listed number or other approved nationally recognized testing laboratory, in compliance with UL2202, "Standard for Electric Vehicle (EV) Charging System Equipment."
- 2. Existing electrical service panel size and location at the residence. Include EVSE load and circuit size. A load calculation is required if the existing service is less than 200 Amp. *Note: some manufacturers require a minimum service size of 200A.* Identify if a second electric meter is being installed, and check with PG&E for their requirements.
- 3. Clarify EVSE location and wiring method. EVSE shall be installed in accordance with manufacturer's guideline and must be suitable for the location (indoor/outdoor).
- 4. The manufacturer's installation guideline **must** be available at the site for the inspector.
- 5. All new electrical wiring, including a service panel upgrade if necessary, shall be in conformance with the *current* California Electrical Code.

Typical installation criteria for an EV installation:

