



## Community Development Department

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Building Division

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### GENERATOR AND TRANSFER SWITCHES

The information provided in this document is general and intended as a guide only. Each project is unique and additional requirements may be enforced as deemed appropriate.

- Fire inspection is required when there is fuel storage. (commercial and residential)
- Site plan showing location of generator and distant from all property lines.
- Install grounding electrode as close as practicable to the GEC connection to metal water pipe or structural steel. Where neither of the above is available, driven ground rods may be installed. **CEC 250.30 (A)(7) & 250.52**
- If pouring a foundation is part of the installation, install grounding electrode per plans
- Manufacturer's installation manual shall be on site at time of all inspections.
- A permanent phenolic plaque shall be installed at the main switch gear/service stating the type and location of the on-site generator. **CEC 702.7**
- Install per plans and per the manufacturer's installation instructions and per Articles 700, 701 and 702.
- Torque all connections per manufacturer's specifications. Electrician shall be onsite with torque wrench for final inspection to verify all connections have been properly torqued.
- Verify all specified torque requirements at generator and transfer switch and at all new breakers.
- When the neutral has been broken, bond grounded conductors and equipment grounding conductors (neutrals and grounds) for separately derived systems per **CEC 250.30(A)(1)**
- Anchor generator per plans/manufacturer's requirements
- Contractor shall verify prior to our inspection that access will be possible to all panels fed from the generator.
- Disconnects shall be provided at each structure where the conductors enter the building when the generator disconnect is not within sight. **CEC 230.70(A)(1)**
- Provide working clearance to all electrical equipment and connections

#### **Transfer switch (manual or automatic)**

- \*Switch shall be listed for emergency use. **CEC 700.5(C)**
- \*Control wiring must be kept separate from all other wiring. **CEC 700.10 (D)(3)**
- Verify wire size
- Verify compliance with the approved drawings.
- Rated at the same or above the KVA rating the generator will provide.
- Torque connections
- Verify AIC of generator transfer disconnect (ATS) is compatible with utility short circuit current available at main electrical service.
- Where the ATS is the first means of disconnect from the utilities, the ATS shall be rated as service equipment.