



City of Carpinteria

Building & Safety Division

EMERGENCY, REQUIRED STANDBY, AND OPTIONAL STANBY

GENERATORS INCLUDING ALL ASSOCIATED EQUIPMENT

THIS EQUIPMENT SHALL BE INSTALLED BY QUALIFIED PERSONS ONLY

SEE NEC ARTICLE 100

1. Planning/zoning requirements:
 - a. Planning division approval will be required when located at exterior, the generator is visible either in a ground-mounted location or on the roof of a building.
 - b. Parking needs to be addressed if a generator is located in currently provided parking space.
 - c. Noise must be addressed if the unit is located such that it may create a nuisance to adjacent neighbors.
2. Building code - structural support of the emergency generator is an issue if it is mounted on the roof of a building. A building permit is required if structural strengthening is needed.
3. Fire Code - requirements are based on the type of fuel for the generator:
 - a. A fire permit is required for diesel or LPG supply:
 - Location of fuel supply with respect to buildings, building openings, and property lines.
 - Type and design of fuel tank. Diesel over 60 gallons Propane over 500 Gallons
 - Location of generator exhaust and fuel tank vent.

Contact the Carpinteria Fire District For Further Information at (805) 684-4591

NATIONAL ELECTRICAL CODE REQUIREMENTS

1. Generator installations of 600 volts or less shall comply with the current version of the NEC, specifically articles 220, 250, 445, 700, 701, and 702. Under certain conditions NEC article 708 shall be used to evaluate the installation.
2. Generators and associated equipment ***SHALL NOT*** be connected to the LINE SIDE of a building electrical service main. Generators and associated equipment SHALL NOT be connected at or in the utility metering enclosures or pull sections without the expressed written permission of the serving utility, there will be no exceptions.
3. Generators and associated equipment may be connected to the load side of electrical systems, however in some cases the AHJ may require a THIRD-PARTY EVALUATION to document the work is done in compliance with all required listing standards, see NEC 110.2 and 110.3.
4. Generators and associated equipment ***SHALL NOT*** be installed in an electrical system where they will interconnect or interact with Solar Photovoltaic Systems, ESS Systems, or other Generators and Associated Equipment unless specifically listed to do so.
5. Generators and associated equipment installations shall require a site plan showing all equipment location(s) including required working clearance, electrical service equipment, sub panels, gas meters, windows, and doors. Provide the property back, front, and side yard setback(s) where the generator will be located. All required electrical working space shall be required, see NEC 110.26.
6. Generators and associated equipment installations shall be required to be installed on a concrete pad or listed platform. Provide an electrical single line diagram design done by a qualified electrical professional. For systems installed ***in other than single family dwellings*** the Utility Available Fault Current shall be shown and labeled on the installed equipment as required in NEC 110.24. Design shall include load schedules for the backup load being served, conduit size, wire size, generator size in in KW, voltage, and phase. Power transfer equipment size, type, voltage, and number of poles. Show generator fuel type and capacity, include any gas pipe sizing. Provide all manufacturer specifications. ALL EQUIPMENT MENTIONED ABOUT SHALL BE LISTED FOR THE INTENDED USE.
7. Provide a copy of the Santa Barbara County APCD Permit for all generators installations that are ***over 50 HP or 38 KW***. For more information go online or call the ACPD at 805-961-8600

SAMPLE SINGLE FAMILY RESIDENTIAL GENERATOR INSTALLATION

