



Community Development Department

SUBMITTAL REQUIREMENTS FOR RESIDENTIAL STANDBY GENERATORS

This handout is designed for assistance in Residential Standby Generator Plan Submittal to the Building and Safety Division. All generators must be reviewed to verify code compliance, method of installation, and placement. Omission of any of the following plan review items shall be deemed an Incomplete Submittal and will not be accepted for plan review.

The California Model Codes currently in effect are the 2019 California Codes, based on the 2018 International Residential Code (IRC), 2018 Uniform Plumbing and Mechanical Codes (UPC, UMC), 2017 National Electric Code (NEC), 2018 International Fire Code (IFC) and the 2019 California Energy Code and the 2019 California Green Building Standard Code (“Cal Green”).

Plans shall be identical copies on a minimum 11” x 17” plan size sets or, a maximum 18” X 24” plan size. Building Permit Application form must be filled out completely.

CONSTRUCTION PLANS SHALL INCLUDE BUT NOT LIMITED TO:

- A. Site Plans (3 sets) – Indicating location of generator, transfer switch, raceway(s), and fuel/gas piping.
- B. (2) Copies of generator manufacturer’s installation instructions/specifications.
- C. (2) Copies of transfer switch manufacturer’s installation instructions/specifications.
- D. (3) Copies of electrical / plumbing plans which must include the following:
 - The brand, model, KW-output of generator to be installed – This information can be obtained from the generator’s installation manual.
 - The brand, model, and specifications of the transfer switch to be utilized – This can be obtained from the switch manufacturer.
 - Location of generator, transfer switch, raceways, and fuel gas piping to/from the unit, surface or material generator will be mounted or placed on with dimensions, pad material, seismic connection and distance to structure.
 - Electrical single line diagram – specifying size of conductors and size/material of raceway(s) used. Grounding and bonding requirements for separately derived systems.
 - Building footprint showing operable windows, doors, vents, and forced air intakes.
 - Generators are not allowed to be placed in the side yard set-backs or easement of any property. Placement in a hazardous location is also forbidden, maintain required clearances to openings.
 - Generator’s exhaust outlet must meet the following clearances: Minimum ten (10) feet from any property line, Minimum three (3) feet from exterior walls or roofs of any structure, Minimum ten (10) feet from openings into the building.

- The generator's ignition source must be a minimum of five (5) feet from a propane regulator, if applicable.
- Size dimensions of the generator. (length, width, height)
- If generator is placed inside a structure it is required to be listed for interior installations, specify exhaust system and ventilation requirements.
- Generators shall be equipped with a disconnect for service of equipment.
- Type of fuel supply for generator.
- Plumbing diagram to include size and type of fuel gas supply piping used.
- Signs. (A) Standby: A sign shall be placed at the service-entrance equipment that indicates the type and location of on-site optional standby power sources. (B) Grounding: Where removal of a grounding or bonding connection in normal power source equipment interrupts the grounding electrode conductor connection to the alternate power source(s) grounded conductor, a warning sign shall be installed at the normal power source equipment stating,

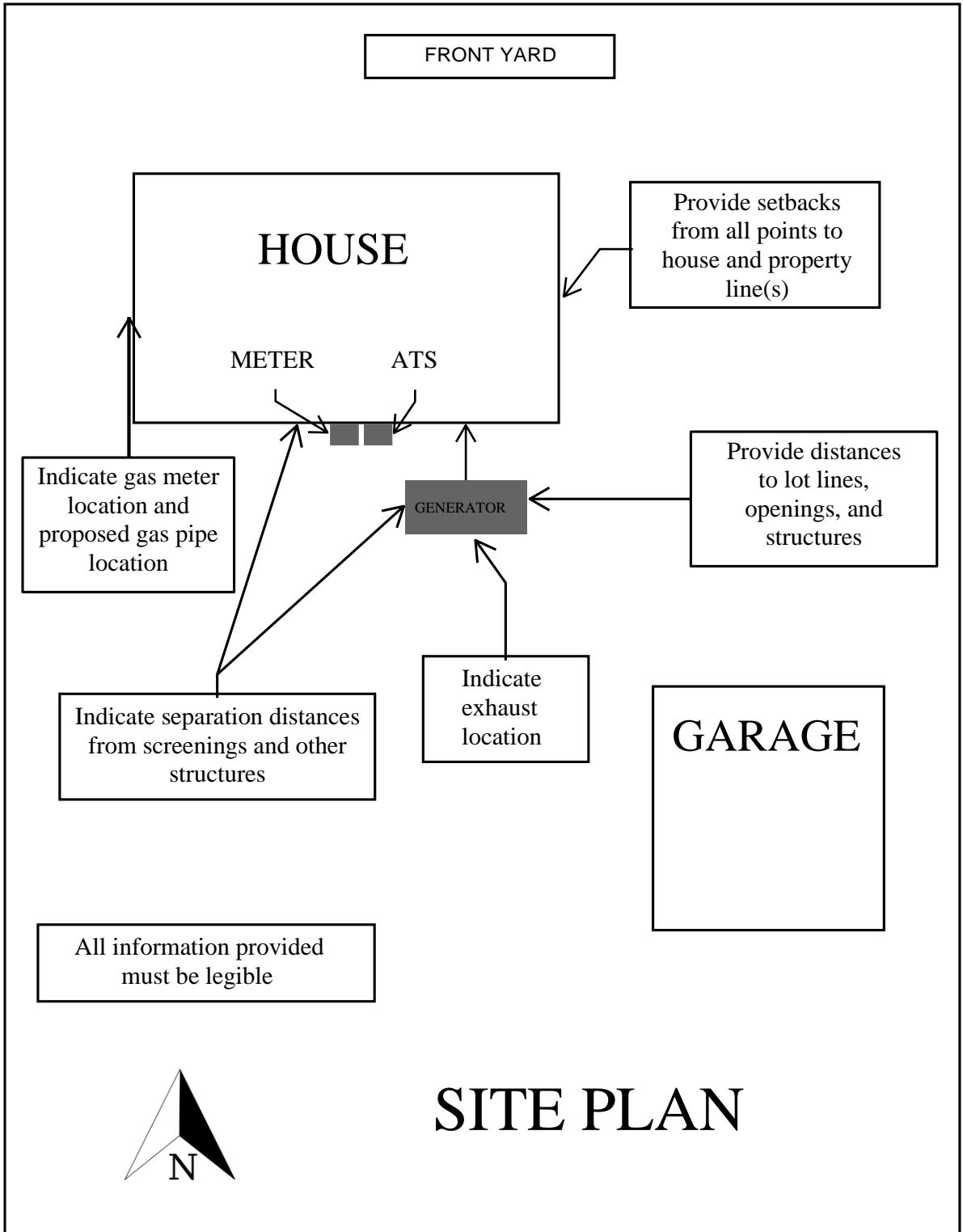
“WARNING: SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED.”

- Portable Generator Grounding. (A) Separately Derived System: Where a portable optional standby source is used as a separately derived system, it shall be grounded to a grounding electrode in accordance with 2016 CEC, Article 250.30. (B) Non-separately Derived System: Where a portable optional standby source is used as a non-separately derived system, the equipment grounding conductor shall be bonded to the system grounding electrode. (CEC 702.11)
- Electrical Main Service Panel (existing): The new added breaker together with the electric panel main breaker rating may not exceed 120% of the panel bus bar or conductor rating. (CEC 705.12(D)(2)). Please confirm this requirement has been met.

Supplemental Information:

1. Permanent generators shall comply with the property line sound level limits of the City of Fontana Noise Ordinance (Section 30-469).
2. Portable generator installations shall be a plug-in type with a self-contained fuel source; portable generators may not serve as a required back-up, stand-alone unit, or for back-feeding a structure's permanent wiring system.
3. Fees are based on the current City of Fontana annually Adopted Fee Schedule.
4. All contractors/sub-contractors must show proof of State and City licenses and shall comply with Sec. 3800 of the Labor Code regarding Workers Compensation.
5. Applicant shall obtain all required clearances and/or approvals from the appropriate Department(s) (Planning, & Fire) prior to issuance of any building permits.
6. Each project will be reviewed on its own merits and may have special individual requirements.

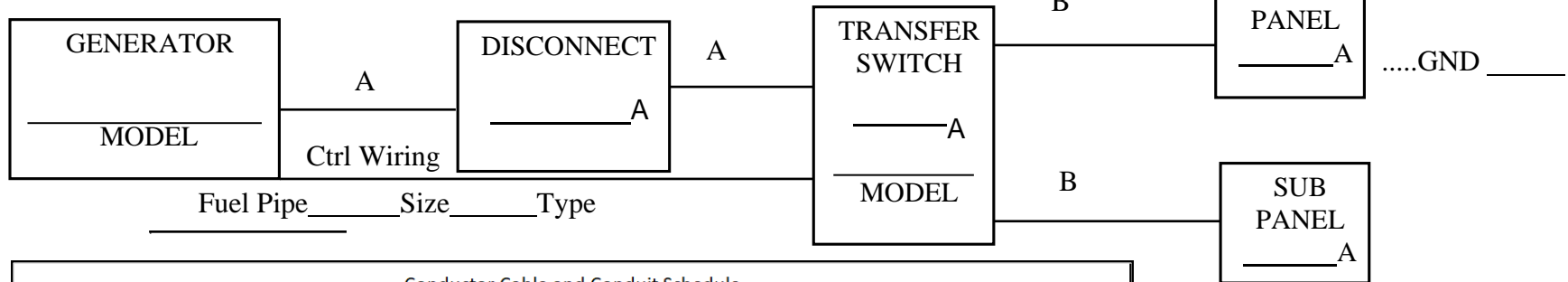
STREET



Residential Backup Generator One and Two Family Dwellings Line Diagram

Equipment	
Generator Model:	_____
Generator Rating:	_____ W
Transfer Switch Model:	_____
Disconnect: Y / N Rating:	_____ A
Main Model and Rating:	_____/____ A
Subpanel: Y / N Rating:	_____ A

Notes



Conductor Cable and Conduit Schedule					
TAG	Description and Conductor Type	Conductor Size	Number of Conductors	Conduit / Conductor/ Cable Type	Conduit Size
A	Current Carrying Conductors:				
	EGC:				
	GEC: (when required)				
B	Current Carrying Conductors:				
	EGC:				
	GEC: (when required)				

Items required: Equipment model, manufacturer, and rating. Wire and conduit size. Fuel source, pipe size, and type. Equipment grounding.