



2022 CALIFORNIA BUILDING STANDARDS CODE OF REGULATIONS TITLE 24

Residential Generator Checklist (For Permanently Installed Generators)

The following items are required for a complete submittal.

YES

Is this a digital submittal? To avoid delay, please use the attached Document Naming Conventions

Plans and Documents Required:

- Completed Building Permit Application
- 2 complete sets of plans with ALL the information detailed below (minimum size 11" x 17"), *only 1 if digital*
- 2 copies of installation manuals / spec sheets for the generator and transfer switch, *only 1 if digital*

Site Plan / Cover Sheet:

- Owner's name / site address / contact information
- Designer's name / address / signature, project scope, and applicable City of Auburn Ordinance
- Identify existing structures and proposed generator equipment
- Amperage size and location of main service panels, sub panels, junction boxes, disconnects, or any associated electrical equipment
- Setbacks from the generator to buildings, septic/leach lines, and property lines (*Generators require a 5' setback from all building openings per NFPA 37*)
- Location, size, and status (new or existing) of propane tanks (*Indicate distance from generator*)

Electrical Single Line Diagram:

- Load calculation demonstrating back-up power does not exceed the capacity of the generator
- Conductor wiring types / sizes and conduit / raceway types / sizes
- Generator size, brand, model, and output
- Transfer switch brand, model, type, and location
- Manual transfer equipment with adequate capacity to supply all the equipment intended to be used at one time
- Automatic transfer equipment capable of supplying the full load that is transferred, or the system shall be designed with load management per CEC 702.4
- Identify if PV solar is present in the electrical system. *If yes, the electrical diagram shall detail the wiring and interconnection of the PV system.*
- Generator shall have provisions to shut down the prime mover per CEC 445.18. Prime mover shutdown on systems over 15 KW shall be externally operable. **SEE REVERSE FOR GENERATOR SIGNAGE REQUIREMENTS**
- Generator systems shall have (1) or more disconnecting means. An additional disconnecting means is required unless the following conditions are met: A readily accessible disconnect lockable in the open position and located within site and 50' of the building served per CEC 702.12. **SEE REVERSE FOR GENERATOR SIGNAGE REQUIREMENTS**

Equipment Pad:

- Provide concrete slab thickness and attachment to generator, or prefabricated pad per ASCE-7 (Red Line on Plans)

Gas Lines:

- Provide gas piping diagram showing pipe size, type, depth, length, and all equipment/appliances served. If utilizing Building gas line (existing) link this to the Gas Line Schematic Form on our website at <https://www.auburn.ca.gov/DocumentCenter/View/3456/Gas-Line-Schematic>

I understand applications for building permits will be reviewed for plan completeness.

An incomplete submittal package may be returned, and additional fees assessed, for subsequent reviews.

ADDRESS: _____

APN #: _____

SIGNATURE: _____

DATE: _____



COMMUNITY & ECONOMIC DEVELOPMENT

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Signage placed at the main service panel:

- A sign shall be placed at the service entrance equipment that indicates the type and location of each on site optional standby power source per CEC 702.7. The sign shall be a permanent label with contrasting background/lettering, not handwritten and weather resistant per 110.21

Example of appropriate signage:

**CAUTION
TWO SOURCES OF SUPPLY

STANDBY POWER SOURCE
LOCATED AT NW CORNER OF BUILDING**

Directory:

- A permanent plaque or directory denoting the source of all electric power source disconnecting means on the premises shall be installed per 705.10.

Example:

**WARNING:

PANELBOARD IS ENERGIZED FROM THREE
SOURCES OF POWER:

SOLAR 38.6A AT 240V-INVERTER LOCATED IN GARAGE
GENERATOR 90A AT 240V-TRANSFER SWITCH IN GARAGE
UTILITY 200A AT 240V**



RESIDENTIAL GENERATOR DESIGN TEMPLATE

**2019 CALIFORNIA ELECTRICAL CODE
2019 CALIFORNIA BUILDING CODE
2019 CALIFORNIA RESIDENTIAL CODE
2019 MECHANICAL CODE
2019 CALIFORNIA PLUMBING CODE**

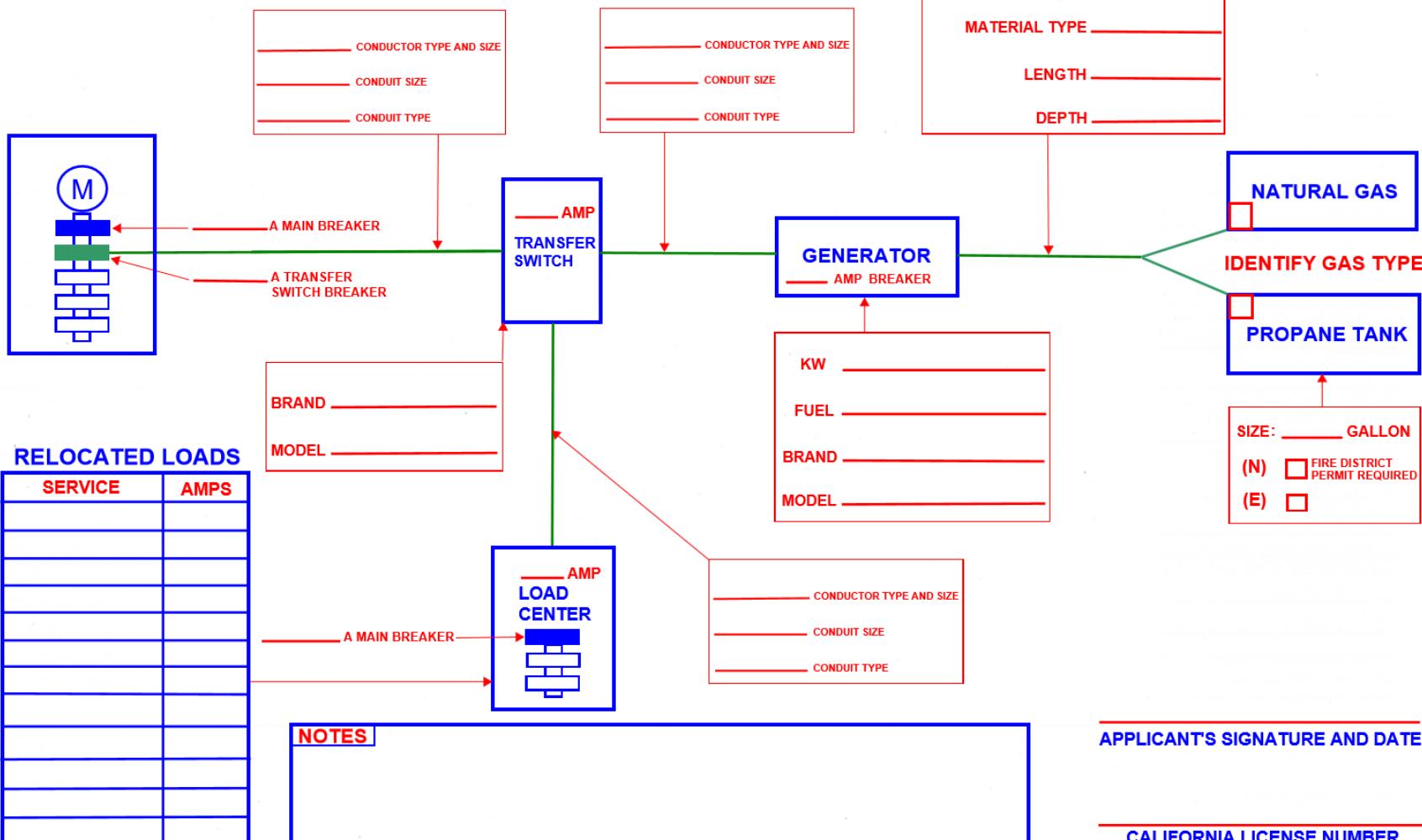
PROJECT ADDRESS .

FUEL GAS PIPE SIZE _____

MATERIAL TYPE _____

LENGTH _____

DEPTH _____





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Electric Load Worksheet

Address: _____ Date: _____

Main Electric Panel Service Size: Existing _____ (Amps) / New (if applicable) _____ (Amps)

Quantity of Existing Subpanels: _____ Quantity of New Subpanels: _____ Gas Furnace (Y/N) _____

Breaker Size(s) feeding subpanel(s)? _____ Wires Size(s) feeding subpanel(s)? _____

A. Calculate Habitable¹ Square Footage

_____ (Existing S.F.) + _____ (New S.F., if any) = _____ Total Habitable¹ Square Footage

B. Identify General Loads

General Lighting and Use Receptacles: _____ Total Habitable¹ SF x 3 = _____ total watts

Kitchen Small Appliance Branch Circuits: _____ (Quantity, Min. 2) x 1500 = _____ total watts

Bathroom Small Appliance Branch Circuits: _____ (Quantity, Min. 1) x 1500 = _____ total watts

Range: _____ (Nameplate Rating) x 1 = _____ total watts

Oven: _____ (Nameplate Rating) x 1 = _____ total watts

Water Heater: _____ (Nameplate Rating) x 1 = _____ total watts

Other: _____ (Nameplate Rating) x 1 = _____ total watts

e.g. FAU, EV, } Other: _____ (Nameplate Rating) x 1 = _____ total watts

Hood, etc. } Other: _____ (Nameplate Rating) x 1 = _____ total watts

Other: _____ (Nameplate Rating) x 1 = _____ total watts

Total Subpanel Load²: _____ (Combined Watts²) x 1 = _____ total watts

Motor Loads: _____ (Nameplate Rating) x 1 = _____ total watts

Other Loads: _____ (Nameplate Rating) x 1 = _____ total watts

Add total watts together (from above) = _____ Total B

C. Identify Largest of the Following Six Heating and Air Conditioning (HAC) Loads

Electric Thermal Storage: _____ (Nameplate Rating) x 1 = _____ total watts

Air Conditioning and Cooling: _____ (Nameplate Rating) x 1 = _____ total watts

Heat Pump (without any supplemental electric heating): _____ (Nameplate Rating) x 1 = _____ total watts

3 or Less (Separately Controlled) Electric Space Heating Units: _____ (Nameplate Rating) x 0.65 = _____ total watts

4 or more (Separately Controlled) Electric Space Heating Units: _____ (Nameplate Rating) x 0.40 = _____ total watts

Central Electric Space Heating System³: _____ (Combined Nameplate Rating³) = _____ total watts

Enter single largest Heating and Air Conditioning Load (from above) = _____ Total C

D. Calculate Total Service Load

_____ - 10,000 watts x 0.40 + 10,000 watts + _____ ÷ 240 = _____ Total Amps
Total B (from above) Total C (from above)

Signature _____

Print Name _____

State License Number (if applicable) _____

¹Habitable square footage includes the floor area for each floor, calculated from the outside dimensions of the dwelling unit. It does not include open porches, garages, or unused or unfinished spaces not adaptable for future use.

²Add all subpanel loads here that are not already included elsewhere on this form.

³For Central Electric Space Heating Systems, add 100% of the heat pump compressor's nameplate rating plus 65% of the supplemental electric heating's nameplate rating. If the heat pump compressor is prevented from operating at the same time as the supplementary heat, it does not need to be added to the supplementary heat for the total central space heating load.