



COMMUNITY & ECONOMIC DEVELOPMENT

BUILDING DEPARTMENT

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:

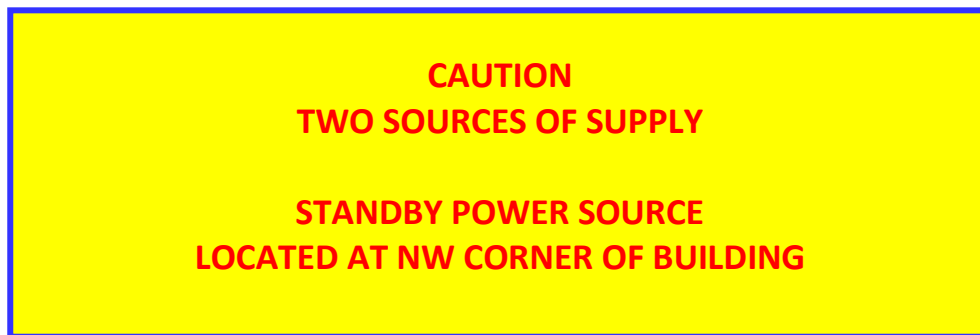


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Signage placed at the main service panel:

- 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

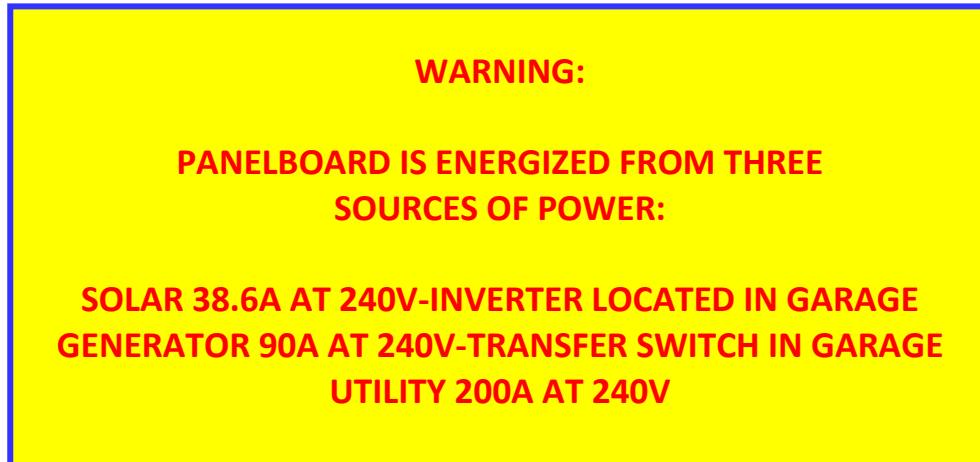
Example of appropriate signage:



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:





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 _____

CONDUCTOR TYPE AND SIZE _____
CONDUIT SIZE _____
CONDUIT TYPE _____

CONDUCTOR TYPE AND SIZE _____
CONDUIT SIZE _____
CONDUIT TYPE _____

FUEL GAS PIPE SIZE _____
MATERIAL TYPE _____
LENGTH _____
DEPTH _____

M

MAIN BREAKER

TRANSFER SWITCH BREAKER

TRANSFER SWITCH
AMP _____

GENERATOR
AMP BREAKER _____

IDENTIFY GAS TYPE
☐ NATURAL GAS
☐ PROPANE TANK
SIZE: _____ GALLON
(N) ☐ FIRE DISTRICT PERMIT REQUIRED
(E) ☐

KW _____
FUEL _____
BRAND _____
MODEL _____

CONDUCTOR TYPE AND SIZE _____
CONDUIT SIZE _____
CONDUIT TYPE _____

BRAND _____
MODEL _____

LOAD CENTER
AMP _____
MAIN BREAKER

SERVICE	AMPS

NOTES

APPLICANT'S SIGNATURE AND DATE

CALIFORNIA LICENSE NUMBER

CITY OF AUBURN - 1225 Lincoln Way / Auburn, California 95603 / (530) 823-4211
Web Site Address: <http://www.auburn.ca.gov> / Email: building@auburn.ca.gov
306 Residential Generator Design



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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 Habitable ¹ 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, Hood, etc. }	Other:	_____	(Nameplate Rating)	x	1	=	_____	total watts
	Other:	_____	(Nameplate Rating)	x	1	=	_____	total watts
	Other:	_____	(Nameplate Rating)	x	1	=	_____	total watts
Total Subpanel Load ² :	_____	(Combined Watts ²)	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 System ³ :	_____	(Combined Nameplate Rating ³)	=	_____	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.