



**COMMUNITY DEVELOPMENT AGENCY
BUILDING DEPARTMENT**

PO Box 599002, 950 Maidu Ave Ste 170, Nevada City, CA 95959
 Phone: (530) 265-1222 Email: buildingdept@nevadacountyca.gov
 Web: nevadacountyca.gov/1114

RESIDENTIAL GENERATOR PLAN SUBMITTAL CHECKLIST

THE FOLLOWING ITEMS ARE REQUIRED FOR A COMPLETE PLAN SUBMITTAL. INCOMPLETE SUBMITTALS WILL NOT BE ACCEPTED; PLEASE READ CAREFULLY! THIS COMPLETED FORM MUST ACCOMPANY A RESIDENTIAL GENERATOR PERMIT APPLICATION

JOB ADDRESS: _____

APN: _____

| | |
|--|---|
| | <p><u>TWO (2) SITE PLANS AND TWO (2) COMPLETE PLAN SETS ARE REQUIRED.</u> Plans must be to scale drawn in blue or black ink, on clear unlined paper; minimum size is 11" x 17", maximum size 24" X 36". The Scope of Work must be fully stated and detailed on the plans. For building plans to be useful, they must be legible and drawn to scale. Plans should be prepared with lettering of sufficient contrast to be readable when scanning. Photocopies or prints may be submitted. <u>Pencil, whiteout, taped notes/details and any other submittal that is illegible or not completed in a workmanlike manner will not be accepted.</u></p> |
| | <p><u>SITE PLAN/COVER SHEET:</u></p> <ul style="list-style-type: none"> • Owners name/site address/contact information, assessor's parcel number (APN), North arrow, sheet index, statement of compliance with specific CA codes used, preparers name/address/signature, and project scope • Identify all existing structures and proposed generator equipment • Location of wells, water storage tanks, bodies of water and 100yr floodplains. Include a setback from the generator (minimum 100ft) • Location and types (above ground or underground) of electrical and gas utilities • Identify any easements (PG&E, water, road, driveway, etc.) • Setbacks from the generator to buildings, property lines, water sources and septic/leach lines/pumps • Location, size, and setbacks to propane tanks from the generator, property lines and structures. Indicate if new or existing. All tanks above 4,000ft elevation, or underground require review/approval from the local fire district. |
| | <p><u>ELECTRICAL SINGLE LINE DIAGRAM:</u></p> <ul style="list-style-type: none"> • Amperage size and location of the main electrical panels and subpanels • Grounding/bonding conductor sizes/types for structure (main ground, water bonding, gas bonding, etc) • Equipment grounding conductor size, type and location for circuits and module/rackgrounding • Junction box locations • Disconnect types, sizes and locations (January 1st, 2020: Auxiliary disconnect within 3' of main service panel required) • Conduit sizes/types from the generator to the transfer switch and power source • Transfer switch type, size and location • Conductor wiring types and sizes, system and generator • NOTE: The generator must include the following features or an additional disconnecting means is required: a readily accessible disconnect lockable in the open position and located within line of sight and 50' of the building or structure supplied. |
| | <p><u>SIGNAGE:</u></p> <ul style="list-style-type: none"> • Required signage for panels, disconnects, transfer switches, etc pursuant to California Electrical Code Article 702.7 • Permanent labels with contrasting background/lettering, not handwritten and weather resistant pursuant to CA Electrical Code Article 110.21 |
| | <p><u>EQUIPMENT/PAD ANCHORING SPECIFICATIONS (Required for all generator installations per ASCE-7):</u></p> <ul style="list-style-type: none"> • Provide cut sheets for all generator equipment and transferswitches • Pre-fabricated pad specifications or concrete slab thickness and anchoring information |
| | <p><u>GAS LINES:</u></p> <ul style="list-style-type: none"> • Show underground and aboveground gas line locations, materials and sizes, and show 5' clearance from regulator vent to sources of ignition (generator, transfer switch, electrical panel, etc) per NFPA 58 6.4.4.4 • Provide gas line sizing calculations including all equipment and appliances served by the gas source in accordance with the California Plumbing Code |
| | <p>APPROVAL FROM CITY OF NEVADA CITY: If project is located within the City Limits of Nevada City</p> |

THIS DOCUMENT IS INTENDED ONLY AS A GUIDE. SPECIFIC REQUIREMENTS OR DOCUMENTS MAY DIFFER BASED UPON YOUR SPECIFIC APPLICATION AND THE BUILDING CODE.

ALL PLANS SUBMITTED BECOME THE PROPERTY OF THE COUNTY OF NEVADA.

It is unlawful to alter the substance of any official form or document of Nevada County.

NEC Standard Electrical Load Calculation for Single Family Dwellings

(Only for Service Ratings of 120/240V, 225 Amps Max)

Owner: _____ Location: _____

Total Floor Area of Dwelling (NEC 220.12) _____ SQFT.

| Factor | Quantity | Volt Amperes (VA) |
|---|--------------------------|--------------------------|
| “General Lighting” | | |
| 1. General Lighting (SQFT X 3 VA/SQ FT (Table 220.12)) | 3 X sqft. | |
| 2. Small Appliance Circuits (1500 VA per circuit) (NEC 220.52(A)) (minimum 2) | 1500 X | |
| 3. Laundry Circuit (1500 VA per circuit) (NEC 220.52(B)) | 1500 X | |
| 4. Total General Lighting Load (Add lines 1, 2 & 3): | | |
| 5. First 3000 VA @ 100%: | | 3000 |
| 6. Total General Lighting Load – 3000 = _____ @ 35%= | | |
| 7. Net General Lighting Load (Per NEC 220.42) (Add lines 5 & 6): | | |
| *Fixed Appliances(if insufficient space, use back): | | |
| | YES | NO |
| • Garbage Disposal | <input type="checkbox"/> | <input type="checkbox"/> |
| • Bathroom Fan | <input type="checkbox"/> | <input type="checkbox"/> |
| • Microwave | <input type="checkbox"/> | <input type="checkbox"/> |
| • Dishwasher | <input type="checkbox"/> | <input type="checkbox"/> |
| • Other: | <input type="checkbox"/> | <input type="checkbox"/> |
| • Other: | <input type="checkbox"/> | <input type="checkbox"/> |
| Total | | |
| 8. 3 or less Appliances, Total Appliance VA; 4 or more Appliances, 75% of Total Appliance VA (NEC 220.53): | | |
| *Other Loads (including motors, EV charger(s), etc.) | | |
| | YES | NO |
| 9. Electric Range (8000VA or Nameplate)** | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. HVAC | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Electric Oven | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Electric Dryer (5000 VA minimum)** | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Electric Vehicle Charger | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Other: | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Other: | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. 25% of largest motor (NEC 430.24) | | |
| Total Service Load Volt-Amperes (VA) (Add lines 7, 8 & 9 thru 16) = | | |
| Total Service Load Volt-Amperes / 240-volts = Amperes | | |
| ***Service Rating (Amperes)= | | |

* For every “YES” answer, indicate VA rating of equipment

** Nameplate rating must be used if larger

*** Service Rating shall be greater than or equal to the Service load

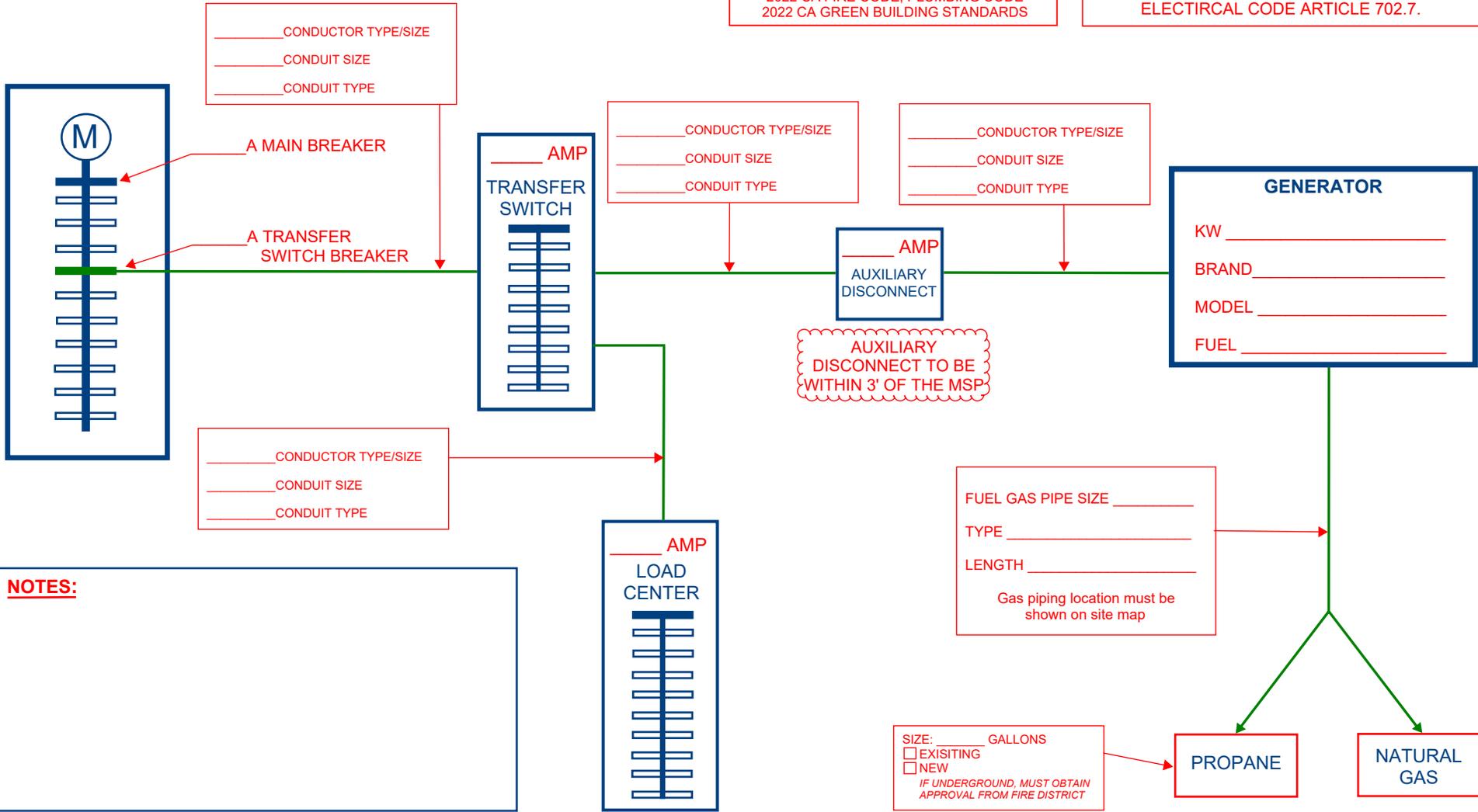
RESIDENTIAL GENERATOR DESIGN TEMPLATE

PROJECT ADDRESS: _____

APPLICANT: _____ SIGNATURE/DATE: _____

GENERATOR INSTALLATION SHALL COMPLY WITH THE FOLLOWING STANDARDS:
 2022 CEC, CRC, CPC
 2022 CA FIRE CODE, PLUMBING CODE
 2022 CA GREEN BUILDING STANDARDS

REQUIRED SIGNAGE FOR PANELS, DISCONNECTS, TRANSFER SWITCHES, ETC. TO BE PROVIDED PURSUANT TO CALIFORNIA ELECTIRCAL CODE ARTICLE 702.7.



NOTES:

SIZE: _____ GALLONS
 EXISTING
 NEW
 IF UNDERGROUND, MUST OBTAIN APPROVAL FROM FIRE DISTRICT