

# HUMBOLDT COUNTY BUILDING DEPARTMENT

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## RESIDENTIAL ELECTRICAL LOAD CALCULATIONS

Owner: \_\_\_\_\_ Date: \_\_\_\_\_  
 Address: \_\_\_\_\_ Prepared By: \_\_\_\_\_

General Lighting/Outlet Load      Sq. Ft. \_\_\_\_\_ x 3 Volt Amps      = \_\_\_\_\_      VA  
 Small Appliance Circuits @ 1500 VA ea x \_\_\_\_\_ min. of two      = \_\_\_\_\_      VA  
 Laundry (Washing Machine) Circuit 1500 VA x \_\_\_\_\_ min. of one      = \_\_\_\_\_      VA  
**(1) Sub Total** = \_\_\_\_\_      VA

First 3,000 KVA of General Lighting/Outlet Load @ 100%      =      3,000      VA  
 From 3,001 to 12,000 VA @ 35%      ST \_\_\_\_\_ x .35      = \_\_\_\_\_      VA  
 Over 12,000 VA use 25%      ST \_\_\_\_\_ x .25      = \_\_\_\_\_      VA

Electrical Cooking Appliances, Use NEC Table 220.19  
 Number of Appliances      \_\_\_\_\_ Column A      = \_\_\_\_\_      VA  
 Number of Appliances      \_\_\_\_\_ Column B      = \_\_\_\_\_      VA  
 Number of Appliances      \_\_\_\_\_ Column C      = \_\_\_\_\_      VA  
 Dryer Load NEC Table 220.18      = \_\_\_\_\_      VA  
**(2) Sub Total** = \_\_\_\_\_      VA

Heating/Air Conditioning - List type and VA @ 100%

(H) Heat Pump	(G) Gas + Cool	(2) Heat Strip	(A) Cir Fans

**(3) Sub Total** = \_\_\_\_\_      VA

Fixed Appliances - If fewer than four units use 100%. If four or more use 75% of nameplate rating \_\_\_\_\_

Microwave      1500 VA x _____	Water Heater      4500 VA x _____
Compactor      1200 VA x _____	Jacuzzi Tub      1850 VA x _____
Dishwasher      1200 VA x _____	_____ VA x _____
Disposal      600 VA x _____	_____ VA x _____
Evap Cooler      1500 VA x _____	

Appliance Subtotal: \_\_\_\_\_ x (100%) or (75%)      **(4) Sub Total** = \_\_\_\_\_      VA

Add 25% of largest motor (usually the A/C compressor)  
 \_\_\_\_\_ x 25% LM      **(5) Sub Total** = \_\_\_\_\_      VA

**GRAND TOTAL (Add subtotals (1),(2),(3),(4),(5))** = \_\_\_\_\_      VA

Total Volt Amps \_\_\_\_\_ Divided by 240 Volts = \_\_\_\_\_ Amps  
 Service Size \_\_\_\_\_ Grounding Electrode Conductor \_\_\_\_\_