



Building Department  
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## RESIDENTIAL PLAN APPROVAL and PERMIT APPLICATION

# ELECTRICAL LOADS

### CALCULATION WORKSHEET

Date \_\_\_\_\_

**Project Name** \_\_\_\_\_ **Address** \_\_\_\_\_ **Sub Lot** \_\_\_\_\_  
**Property Owner** \_\_\_\_\_ **Address** \_\_\_\_\_ **City** \_\_\_\_\_ **State** \_\_\_\_\_  
**Telephone #** \_\_\_\_\_ **Cell Phone #** \_\_\_\_\_ **Email** \_\_\_\_\_  
**Permanent Parcel #** \_\_\_\_\_ **Zoning District** \_\_\_\_\_ **Historical Landmark** Yes \_\_\_ No \_\_\_ Unknown \_\_\_  
**Contractor** \_\_\_\_\_ **Address** \_\_\_\_\_ **City** \_\_\_\_\_  
**Zip** \_\_\_\_\_ **Telephone #** \_\_\_\_\_ **Cell #** \_\_\_\_\_ **Email** \_\_\_\_\_

General Lighting Load Sq. Ft. \_\_\_\_\_ X 3 Volt Amps = \_\_\_\_\_ VA  
 Small Appliance Circuits at 1,500 VA each X \_\_\_\_\_ (min. of two) = \_\_\_\_\_ VA  
 Laundry (Washing Machine) Circuit 1,500 VA X \_\_\_\_\_ (min. of one) = \_\_\_\_\_ VA  
**Sub Total = \_\_\_\_\_ VA**

First 3,000 VA of Lighting, Small Appliance, Laundry Load at 100% = **3,000** VA  
 From 3,001 to 120,000 VA at 35% \_\_\_\_\_ X .35 = \_\_\_\_\_ VA  
 Over 120,000 VA use 25% \_\_\_\_\_ X .25 = \_\_\_\_\_ VA  
 Electrical Cooking Appliances, use NEC 220.55  
 (Number of Appliances) \_\_\_\_\_ Demand \_\_\_\_\_ % X Total KW \_\_\_\_\_ (Column A) X 1,000 = \_\_\_\_\_ VA  
 (Number of Appliances) \_\_\_\_\_ Demand \_\_\_\_\_ % X Total KW \_\_\_\_\_ (Column B) X 1,000 = \_\_\_\_\_ VA  
 (Number of Appliances) \_\_\_\_\_ Demand \_\_\_\_\_ % X Total KW \_\_\_\_\_ (Column C) X 1,000 = \_\_\_\_\_ VA

Dryer Load, NEC220-54 = \_\_\_\_\_ VA  
**(1) Sub – Total = \_\_\_\_\_ VA**

Heating/ Air Conditioning – List type and VA at 100%  
 (H) Heat Pump (G) Gas + Cool (S) Heat Strip (A) Cir Fans  
 ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_  
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**(2) Sub – Total = \_\_\_\_\_ VA**

Fixed Appliances – If fewer than four units, use 100%. If four or more, use 75% of the nameplate rating.  
 Microwave 1500 VA X \_\_\_\_\_ Food Center 600 VA X \_\_\_\_\_  
 Compactor 1200 VA X \_\_\_\_\_ Hot Water 4500 VA X \_\_\_\_\_  
 Dishwasher 1200 VA X \_\_\_\_\_ \_\_\_\_\_ VA X \_\_\_\_\_  
 Disposal 600 VA X \_\_\_\_\_ \_\_\_\_\_ VA X \_\_\_\_\_  
 Cent Vacuum 1800 VA X \_\_\_\_\_ \_\_\_\_\_ VA X \_\_\_\_\_

Appliance Subtotal \_\_\_\_\_ X \_\_\_\_\_ (100% or 75%) **(3) Sub – Total = \_\_\_\_\_ VA**

Add 25% of the largest motor (typical AC compressor)  
 \_\_\_\_\_ X 25% LM **(4) Sub – Total = \_\_\_\_\_ VA**

Spare 20 amps X 240 volts **(5) Sub – Total = 4800 VA**

**GRAND TOTAL (Add Sub – Totals 1+2+3+4+5) = \_\_\_\_\_ VA**

Total Volt Amps \_\_\_\_\_ Divide by 240 volts = \_\_\_\_\_ Amps