



# DEPARTMENT OF RESOURCE MANAGEMENT

## Building Division

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### NEC Standard Electrical Load Calculation for Single Family Dwelling

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

Rev: 07-12-17

BP Application No. \_\_\_\_\_ Job Address: \_\_\_\_\_

Total Floor Area of Dwelling (NEC 220.12) \_\_\_\_\_ Square Feet

FACTOR	QUANTITY			VOLT AMPERES (VA)
<b>GENERAL LIGHTING</b>				
1. General Lighting (SQFT X 3 VA/SQ FT (Table 220.12))	3 X			
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):				
<b>*FIXED APPLIANCES</b> (if insufficient space, use back):		YES	NO	
• Garbage Disposal				
• Bathroom Fan				
• Microwave				
• Dishwasher				
• Other:				
• Other:				
			Total	
8. 3 or less Appliances, Total Appliance VA; 4 or more Appliances, 75% of Total Appliance VA (NEC 220.53):				
<b>*OTHER LOADS</b> (including motors, EV charger(s), etc.)		YES	NO	Nameplate Rating (VA)
9. Electric Range (8000VA or Nameplate)**				
10. HVAC				
11. Electric Oven				
12. Electric Dryer (5000 VA minimum)**				
13. Electric Vehicle Charger		✓		
14. Other:				
15. Other:				
16. 25% of largest motor (NEC 430.24)				
<b>Total Service Load Volt-Amperes (VA)</b> (Add lines 7, 8 & 9 thru 16) =				
<b>Total Service Load Volt-Amperes / 240-volts =</b> _____ <b>Amperes</b>				
<b>***Service Rating (Amperes)=</b>				

\* 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