

## NEC Standard Electrical Load Calculation for Dwellings

Owner: \_\_\_\_\_ Location: \_\_\_\_\_

Total Floor Area of Dwelling (NEC 220.12) \_\_\_\_\_ SQ FT.

| Factor   | Quantity              | Volt Amperes (VA)    |
|--|-----------------------|----------------------|
| <b>“General Lighting”</b>  |                       |                      |
| 1. General Lighting (SQ FT X 3 VA/SQ FT (Table 220.12))  | s.f.                  |                      |
| 2. Small Appliance Circuits (1500 VA per circuit) (NEC 220.52(A)) (min. 2)                                 |                       |                      |
| 3. Laundry Circuit (1500 VA per circuit) (NEC 220.52(B))   |                       |                      |
| 4. Total General Lighting Load (Add lines 1, 2 & 3):   |                       |                      |
| 5. First 3000 VA @ 100%:   |                       | 3000                 |
| 6. Total General Lighting Load – 3000 = _____ @ 35% =  |                       |                      |
| <b>7. Net General Lighting Load (Per NEC T. 220.42) (Add lines 5 &amp; 6):</b>                             |                       |                      |
| <b>Appliances</b>  |                       |                      |
|  |                       |                      |
|  |                       |                      |
|  |                       |                      |
|  |                       |                      |
|  |                       |                      |
|  |                       |                      |
|  |                       |                      |
|  | Total                 |                      |
| 8. 3 or less Appliances, Total Appliance VA;<br>4 or more Appliances, 75% Total Appliance VA (NEC 220.53): |                       |                      |
| <b>Other Loads (other than motors)</b>   |                       |                      |
|  | Nameplate Rating (VA) | Adjusted Rating (VA) |
| 9.   |                       |                      |
| 10.  |                       |                      |
| 11.  |                       |                      |
| 12.  |                       |                      |
| 13.  |                       |                      |
| <b>14. 25% of largest motor (NEC 430.24)</b>   |                       |                      |
| <b>Total Volt-Amperes (VA) (Add lines 7, 8 &amp; 9 thru 14) =</b>  |                       |                      |
| <b>Total Volt-Amperes / 240-volts =          Amperes</b>   |                       |                      |
| <b>Conductor Size (Indicate Copper or Aluminum)</b>  |                       |                      |
| <b>Service Rating (Amperes)</b>  |                       |                      |

Note: See 2008 NEC Annex D, Example D1