



Community Development and Sustainability Department

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RESIDENTIAL SERVICE LOAD WORKSHEET

Optional Calculation for Dwelling Unit per California Electrical Code (CEC)

Address: _____ Permit #: _____ Date: _____

| | Building sq. ft.: | Watts (= volts x amps) | Gas Furnace? Y N | X % = | Total(a) |
|---|-------------------|------------------------|------------------|----------|----------|
| Rating of: NPR (Name plate Rating) | | | | | |
| Air Conditioning* | NPR | _____ | | X 1.00 = | _____ |
| Heat Pump | NPR | _____ | | X 1.00 = | _____ |
| Electric Central Heating System | NPR | _____ | | X.65 = | _____ |
| Electric Space Heaters | NPR | _____ | | | |
| Less than 4 separately controlled units | | _____ | | X .65 = | _____ |
| Electric Space Heaters | NPR | _____ | | | |
| 4 or more separately controlled units | | _____ | | X .40 = | _____ |

Transfer the largest value (watts) from the above 5 lines to the space below titled "from above" **

* Air Conditioning Example: Compressor = 16.0 amps
 Air handler = 2.0 amps
 25% of the largest motor = 4.0 amps
 Total = 22.0 amps X 240 volts = 5,280 Watts

| Quantity | Item | = | Watts (= volts x amps) |
|----------|--|---|------------------------|
| _____ | Sq. Ft. X 3 watts per sq. ft. | = | _____ |
| _____ | (2) 20 Amp appliance circuits @1500 watts each (kitchen) | = | _____ |
| _____ | Range/Cooktop/Ovens NPR | = | _____ |
| _____ | Microwave (separate) NPR | = | _____ |
| _____ | Water Heater (if electric) NPR | = | _____ |
| _____ | Dishwasher/Garbage Disposal NPR | = | _____ |
| _____ | Washer (1) 20 Amp @1500 watts | = | _____ |
| _____ | Electric Dryer greater of 5000 or NPR | = | _____ |
| _____ | Motor loads NPR | = | _____ |
| _____ | Pool and/or Spa NPR | = | _____ |
| _____ | Other loads | = | _____ |
| | Subtotal | = | _____ |
| | Less | | -10,000 |
| | Total = _____ X .40 | = | _____ |
| | ** from above | + | _____ |
| | | + | 10,000 |
| | Grand Total (watts) | = | _____ |

Grant Total (watts) _____ ÷ 240 Volts = _____ Service Load (Amps)
 Existing service size: _____ Amp _____

Signature – Electrical Contractor, owner/builder