## Standard Method for Dwelling Service Calculations Worksheet for the EVITP

Andasol Avenue, Granada Hills, CA 91344

Step 1: Section 220.12 - Lighting load for listed occupancies.
2,580 Sq.ft X
3 VA =
7,740 VA
VA

Step 2: Section 220.52 - Small Appliance and Laundry load.

| 2,580 | Sq.ft $x$ | 3 | $\mathrm{VA}=$ | 7,740 | VA |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | Appliances Circuits X | 1,500 | $\mathrm{VA}=$ | 3,000 | VA |
| 1 | Laundry Circuit X | 1,500 | $\mathrm{VA}=$ | 1,500 | VA |
| Genera | Lighting Load |  | = | 12,240 |  |

Step 3: Table 220.42 Apply demand factors to the general lighting load.


Step 4: 220.53 - Demand Factor - Appliance Loads - Dwelling Units.

| Disposal | = | 1,200 |
| :---: | :---: | :---: |
| Dishwasher | = | 1,200 |
| Refrigerator | = | 1,000 |
| Washer | = | 1,300 |
|  | = |  |
|  | $=$ |  |
|  | = |  |
|  | = |  |
|  | = |  |
|  | = |  |
| Total | = | 4,700 |
| 75\% of total; four or m | appliances | 3,525 |
| Step 5: 220.54 - Clothes Dryer - The greater of 5 kW or nameplate value. |  |  |
| 5,000 kW Ele | kW Electric Dryer = | 5,000 |
| Step 6: Table 220.55 | Household cooking Equipment |  |
| Oven | = | 3,000 |
| Microwave | = | 1,000 |
|  | = |  |
| Total | = | 4,000 |

Step 7: Article 220.60 - Noncoincident Loads
Air conditioning


Remember that although the voltages shown in the tables in Article 430 indicate that motors are rated for 115,230 and 460 Volts, Section 220.5(A) requires nominal voltages of 120, 240 and 480 Volts to be used for load calculations.

Step 9: 220.14(A) Other Loads - EVSE

| AX | V X |  | (\#) | $=$ | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $=$ | 9600 |
| Sum of Calculated Loads |  |  |  |  |  |
| Lighting, Sm. Appliance, Laundry (Step 3) |  |  | = | 6,234 | VA |
| Fastened in Place Appliances (Step 4) |  |  | = | 3,525 | VA |
| Clothes Dryer (Step 5) |  |  | = | 5,000 | VA |
| Cooking Equipment (Step 6) |  |  | = | 4,000 | VA |
| Noncoincedent Heat - A/C (Step 7) |  |  | = | 9600 | VA |
| 25\% of Largest Motor (Step 8) |  |  | = | 900 | VA |
| Other Loads - (Step 9) |  |  | = | 9600 | VA |
| Total Calculated Load |  |  | = | 38,859 | VA |
| Step 10: Table 310.15 (B)(6) - Size the service and conductors. |  |  |  |  |  |
| 38,859 VA / 240V |  |  | = | 161.91 | Amps |

Conductor Size $\qquad$ CU $\qquad$ AL

Step 11: Grounding Electrode Conductor - Table 250.66
GEC Size $\qquad$ CU $\qquad$ AL

