Per Article 220 National Electrical Code

1. **General Lighting Load**.

   _____ft^2 @ 3VA per ft^2 =_____VA

2. **Small Appliance Load.**

   (Minimum of two 20-ampere branch-circuits)

   _____ branch-circuits @1500 VA each   =_____VA

3. **Laundry Branch Circuit.**

   (Minimum of one 20-ampere branch-circuits)

   _____ branch-circuits @1500 VA each   =_____VA

4. **Total General Lighting, Small Appliance, and Laundry Load.**

   Lines 1+2+3   =_____VA

5. **Net Computed General Lighting, Small Appliance, and Laundry Loads.** (less ranges, oven, and "fastened-in-place" appliances.)

   a. First 3000 VA @ 100%   =_____3000VA

   b. Line 4 _____ - 3000= _____ @ 35% =_____VA

                          Total   a + b   =_____VA

6. **Electric Range, Wall-Mounted Ovens, Counter-Mounted Cooking Units.** (NEC Table 220.55)   =_____VA

7. **Electric Clothes Dryer.**

   (5000 VA or Nameplate, whichever is greater)   =_____VA

8. **Electric Furnace, Air Conditioner, Heat Pump.**   =_____VA

9. **Net Computed General Lighting, Small Appliances, Laundry, Ranges, Ovens, Cooktop Units, HVAC.**

   Lines 5+6+7+8   =_____VA

10. List "Fastened-in-Place" Appliances in addition to Electric Ranges, Electric Clothes Dryers, Electric Space Heating and Air-Conditioning Equipment.

<u>Appliance:</u>	<u>VA Load:</u>
Water Heater:	=_____VA
Dishwasher:	=_____VA
Microwave:	=_____VA
Garage Door Opener:	=_____VA
2nd Garage Door Opener:	=_____VA
Food Waste Disposer:	=_____VA
Water Pump:	=_____VA
Gas-fired Furnace:	=_____VA
Sump Pump:	=_____VA
Other: _____	=_____VA
_____	=_____VA
_____	=_____VA
_____	=_____VA
Total	=_____VA

11. Apply 75% Demand Factor if four or more "Fastened-in-Place" Appliances. If Less Than Four, Figure @ 100%.

Do not include electric ranges, electric clothes dryers, electric space

heating or air-conditioning equipment.

Line 10 Total: _____ $\times$ 0.75 =_____VA

12. Total Computed Load.

(Lighting, Small Appliance, Ranges, Dryer, HVAC, "Fastened-in-Place" Appliances)

Line 9 _____+ Line 11_____ =_____VA

13. Add 25% of Largest Motor.

_____$\times$ 0.25 =_____VA

14. Grand Total Line 12 + Line 13. =_____VA

15. Continuous Duty Appliances =_____VA

Hot tubs/Vehicle Chargers (Based on Ampere rating of the appliance or load served

16. Minimum Ampacity for Underground Service-Entrance Conductors.

Amperes = Line 14 $\div$ 240V =_____amperes