



City of Newark
 Building Inspection Division
 37101 Newark Blvd, Newark CA 94560
 510-578-4261 | permits@newarkca.gov

DWELLING UNIT FEEDER AND SERVICE LOAD CALCULATION ARTICLE 220.82

JOB ADDRESS: _____

DATE: _____

PERMIT NUMBER: _____

PG&E APPLICATION #: _____

General Loads		VA
1)	General Lighting Load of Habitable Living Area _____ sqft x 3 VA per sqft	=
2)	Small Appliance Circuits (minimum 2 circuits) _____ each x 1500 VA each	=
3)	Laundry Circuit _____ each x 1500 VA each	=
<i>Appliances & Motor Loads (nameplate rating)</i>		
4)	Garbage Disposal	=
5)	Dishwasher	=
6)	Range Hood	=
7)	Refrigerator	=
8)	Bathroom Exhaust Fans	=
9)	Range	=
10)	Countertop Stove	=
11)	Wall Oven	=
12)	Microwave Oven	=
13)	Clothes Dryer (5000 VA or the Nameplate Rating whichever is larger)	=
14)	Water Heater	=
15)	Others	=
16)	Sub-total General Loads (add item#1 to #15)	=
17)	First 10k VA @100%	=
18)	Remainder VA @ 40%	=
19)	Total General Loads (add item #17 & #18)	=
20)	EV Charger	=
21)	Heating and Air-Conditioning Load (the largest load of the following or motor load)	=
	Air-Conditioning and Cooling (100% of nameplate rating)	VA
	Heat Pump without Supplemental Electric Heating (100% of nameplate rating)	VA
	Heat Pump with Supplemental Electric heating (100% of nameplate rating plus 65%of remaining)	VA
	Space Heaters Less than Four Separate units (65% of nameplate rating)	VA
	Space Heaters Four or more Separate units (40% of nameplate rating)	VA
	Continuous Electric Thermal Storage (100% of nameplate rating)	VA
	Total Demand Loads in VA (add items #19, #20 and #21)	=
	Total Demand Loads in amps (divided by 240)	= amps
	Required Minimum Service Size	= amps
	Existing Service Size	= amps
	Requested Service Size	= amps