



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

EXISTING FEEDER AND SERVICE LOAD CALCULATION ARTICLE 220.83

JOB ADDRESS: _____

DATE: _____

PERMIT NUMBER: _____

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 8k VA @100%		=
18)	Remainder VA @ 40%		=
19)	Total General Loads (add item #17 & #18)		=
20)	EV Charger		=
21)	Heating and Air-Conditioning Load (one largest load of the following OR motor load)		VA =
	Air-Conditioning and Cooling		VA
	Electric Space Heating		VA
	Heat Pump with Central Electric Furnace		VA
	Total Demand Loads in VA (add items #19, #20 and #21)		=
	Total Demand Loads in amps (divided by 240)		=
	Required Minimum Service Size		= amps
	Existing Service Size		= amps