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

Using the Standard Method complete this worksheet to perform a service load calculation. An example of standard loads is shown below.

**Owner:** poxek **Address:** sa

Contractor: LA Solar Group, Ara Petrosyan,

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A	54	14	7
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Step 1: Section 220.12 – L 1,708	ighting load for listed oc Sq.ft X	cupancies 3	VA =	5,124	VA	
Step 2 : Section 220.52 - 3 1,708 3 1 General Light	Sq.ft x Appliances Circuits X Laundry Circuit X	1,500 1,500	VA = VA = VA = =	5,124 4,500 1,500 11,124	VA VA VA	
Step 3: Table 220.42 Appl First 3,000 Remainder at 35% ( Net Load	y demand factors to the VA at 100% 8,124	general lig	hting load. = = =	3,000 2,843 5,843	VA VA VA	
Step 4: 220.53 – Demand Disposal Dishwasher Microwave Refrigirator Garage gate  Total 75% of total; four or more a	-	s – Dwellir	ng Units. = = = = = = = = = = =	7,400 2,850 2,600 4,300 2,600 19,750 14,813	VA V	
Step 5: 220.54 - Clothes I   5,000   kW Electric I	•		eplate value. = = = = = =	5,000 5,000 5,000	VA VA VA VA VA	
Step 7: Article 220.60 – N Air conditioning  41 AX  AX	oncoincident Loads	VX VX	1	(#) (#)	= = =	9840 VA 0 VA
Electric Heat  A X  A X  A X  A X  Largest load		V X V X V X		(#) (#) (#)	= = = =	0 VA 0 VA 0 VA 9840 VA
Step 8: 220.50 – 25% of la 41 A X	rgest motor FLA. 240	VX	25%		=	_2460VA

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		
A X V X	(#)	=VA
Sum of Calculated Loads		
Lighting, Sm. Appliance, Laundry (Step 3)	=	5,843 VA
Fastened in Place Appliances (Step 4)	=	14,813 VA
Clothes Dryer (Step 5)	=	5.000 VA
Cooking Equipment (Step 6)	=	10,000 VA
Noncoincedent Heat – A/C (Step 7)	=	9840 VA
25% of Largest Motor (Step 8)	=	2460 VA
Other Loads – (Step 9)	=	0 VA
Total Calculated Load	=	47,956 VA
<u>Step 10:</u> Table 310.15 (B)(6) – Size the service and conducto 47,956 VA / 240V	ors. =	199.82 Amps
Conductor SizeCUAL		
Step 11: Grounding Electrode Conductor – Table 250.66		
GEC Size CU AL		