RESIDENTIAL ELECTRICAL LOAD WORKSHEET

OWNER: Mickey McQueen		
ADDRESS: 25 BRAE DR		
LIGHTING LOAD		
Article 220-3(a) Total square footage of habitable living area: 1659	@3 watts per sq. foot =	1917 watts
Article 220-16(a) Two small appliance branch circuits @ 1500 watts each	n: <u>2</u> @ 1500 watts each =	<u>3000</u> watts
Article 220-16(a) Additional small appliance circuits each:	@ 1500 watts each =	watts
Article 220 -16(b) Laundry circuit @ 1500 watts each:	@ 1500 watts each =	<i>1500</i> watts
	Lighting Load Subtotal =	/ <u>149</u> 7 watts
Table 220-11		
First 3000 watts of lighting load: 12477	@ 100%=	3000 watts
Remainder from 3001 watts to 120,000 watts: 5477	@ 35% =	331649 Swatts
Remainder over 120,000 watts: 3316.6	<u>7</u> 5 @ 25% =	829.23 watts
	Lighting Load Total =	1146.18 watts
APPLIANCE LOAD	~	
Article 220-17 Garbage disposal @ 600 watts each: Microwave @ 1500 watts each: Trash compactor @ 1200 watts each: Dishwasher @ 1200 watts each: Refrigerator @ 600 watts each:		watts watts watts watts watts watts watts

	· · · ·	of Miscellaneo	-11	,	watts eacl	ı =	watts
				@	watts each	1 =	watts
				Applia	nce Subtotal =	3300	watts
	Ap	pliance subto	tal: 390 (15% =		watts
	(Less than 4 ap	pliances @) 100%; 4 or m	ore appliances (@ 75%)	
ELECTRIC	CL	OTHES DR	YER				
Article 220-18	500() watts or name	plate rating	g: (Whichever i	s Larger) D ryer '	Total = 500	wa:
WATER HE					· · · · ·		
Article 220-3(b) @	Nameplate Rat	ing:		Water Heater	Load = tento	lless wi
HOUSEHOI	LD C	OOKING F	OUIPMI	ENT		600	2
•					ens, countertop u	units, and othe	r househ
Number of Uni	ts-	ONE unit use= TWO unit use THREE unit u	e = 11,000 y $se = 14,000 y$	watts) watts			
		FOUR unit use	•	watts	G TOTAL=	scre	watt
SPACE HEA	TIN(FIVE unit use	e = 20,000 v	vatts COOKIN	G TOTAL≔	seve	watt
SPACE HEA Article 220-4(a)		FIVE unit use	e = 20,000 v	vatts COOKING ING			watt
Article 220-4(a)	Air	FIVE unit use G/AIR CON conditioner nam	e = 20,000 v DITION meplate ratio	COOKING ING ng @ 125%:	watts x 12	25% =	watt
	Air	FIVE unit use G/AIR CON conditioner nam	e = 20,000 v DITION meplate rating plate rating	COOKING ING ng @ 125%:	watts x 12watts x 10	25% =	watt

Article 440-33 Article 220-15	AND Supplementary heat (resistance) @ 10	0%:watts @ 100% =	watts
ADDITION	AL HVAC EQUIPMENT		,
Article 440-33	Condensing units or A/C @ 100%:	watts @ 100% =	watts
	SPACE HEATING/AIR	CONDITIONING TOTAL= 5'	nart muds watts
OPTIONAL	EQUIPMENT		
Spa and Article Remaining mot) Swimming Pool and/ or 430-24 Largest motor nameplate: or(s) nameplate(s): or miscellaneous equipment:	watts @ 125% =watts @ 100% =watts @ 100% =	watts watts
Article 220-3(b) Welders, Kilns, Etc.		
Name or descri	ption of equipment @ rated nameplate:	watts x 100% =	=watts
Name or descri	ption of equipment @ rated nameplate:	watts x 100% =	=watts
Name or descri	ption of equipment @ rated nameplate:	watts x 100% =	=watts
	MISCELLANEOUS	S EQUIPMENT TOTAL =	watts

TOTAL DEMAND ON SYSTEM

Article 220-10 Sum of all totals:	LIGHTING LOAD TOTAL =	7/46.18	WATTS
Allolo 220-10 built of all totals.	APPLIANCE TOTAL =	2925	WATTS
	DRYER TOTAL =	5000	WATTS
	WATER HEATER TOTAL =	600	WATTS
	COOKING TOTAL =	8000	WATTS
SPACE HEATING/AIR O	CONDITIONING TOTAL =	smorts	Med WATTS
	POOL/SPA TOTAL =	2500	WATTS
MISCELL ANDEOLIS E	OUTPMENT TOTAL =		WATTS

TOTAL LOAD FOR DWELLING = 2/674/8 WATTS

MAIN SERVICE SIZING		
Article 220-2 Total load 2/671.18divided by 240 volts = (NOTE: For 120/240 volt systems divide by 240 volts;	= <u>90, 29</u> amps ; for 120/208 volts use 208 volts)	
Article 220-10 MINIMUM SERVICE SIZE		AMP\$
Table 310-16		
SERVICE ENTRANCE CONDUCTOR SIZE	AWG,Cu,A	WG,A1
Table 250-94 GROUNDING ELECTRODE CONDUCTOR S	SIZEAWG,	Copper
OPTIONAL CALCULATION METHOD Table 220-30		
100% of the nameplate rating(s) of the air conditioning =		watts
100% of the first 10kVA of all other loads =		watts
40% of the remainder of all other loads =		watts
TOTAL O	PTIONAL LOAD	watts
*		
Article 220-2		13 E.C.
TOTAL OPTIONAL LOADDIVIDED BY (NOTE: For 120/240 volt systems divide by 240; for 12	$\frac{\text{VOLTS} = }{20/208 \text{ volt systems divide by 208)}}$	AMPS