



DEPARTMENT OF BUILDING & SAFETY

SINGLE FAMILY DWELLING MAIN ELECTRICAL SERVICE SUBPANEL CALCULATIONS

333 North Rancho Drive, Las Vegas NV 89106-3703

Phone: (702) 229-6251 Fax: (702) 382-1240

Address: _____ By _____

AP # _____ Owner _____ Date _____

General Lighting Load Sq Ft _____ x 3 Volt Amps	=	_____ VA
Small Appliance Circuits at 1500 VA each, Minimum of Two	=	_____ VA
Laundry (Washing Machine) circuit 1500 VA minimum of one	=	_____ VA
(1)	=	_____ VA

First 3,000 VA of Subtotal (1) at 100% - - - - -	=	3,000 VA
Remainder of Subtotal (1) at 35% ST _____ x .35	=	_____ VA
If over 120,000 VA use 25% ST _____ x .25	=	_____ VA
(2)	=	_____ VA

Electrical Cooking Appliances. Use NEC Table 220-55

100 % Nameplate _____ From Table _____		
Rating _____ 220.55 _____	=	_____ VA
Dryer Load 100% VA _____ NEC 220.54 - - - -	=	_____ VA
(3)	=	_____ VA

Heating, A/C -- Name and list each equipment component VA Rating at 100%. List resistance-heating elements separately.

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
(4)	=	_____ VA	

Fixed Appliances - use 100%. If four or more, a demand of 75% is allowed below:

<input type="checkbox"/> Garb. Disp _____	<input type="checkbox"/> Water Heater _____	
<input type="checkbox"/> Trash Comp _____	<input type="checkbox"/> Dish Wash _____	
<input type="checkbox"/> Microwave _____	<input type="checkbox"/> _____	(5) = _____ VA

Miscellaneous Motor Loads

Name _____	VA Rating _____	Add 25% for largest including A/C comp
_____	_____	
_____	_____	
		+ 25% LM (6) = _____ VA

Grand Total of Subtotals (2) + (3) + (4) + (5) + (6) = _____ VA

Grand Total Volt Amps _____ **Divide by 240 Volts Panel Size** = _____ AMPS