

## Clark County Department Of Building SFR, Main Electrical Service/Sub Panel Calculation Worksheet

## Standard Calulation :Article 220 NEC

1. General Lighting Load [Table 220.12]

Sq. ft $\times 3 \mathrm{VA} / \mathrm{ft}^{2}=$ $\qquad$
Small Appliance Circuits: (220.52(A) Circuits @ 1500 VA = $\qquad$ VA (b)
(min of 2)
Laundry [220.52(B)] = $\square$
Application of Demand Factor (Table 220.42)
First 3,000VA at 100\% = $\qquad$ VA
$(\leq 120,000)$ Reminder of $\qquad$ @ $35 \%=$ $\qquad$ ( $>120,000$ ) Reminder of $\qquad$

$\qquad$ VA (1)
2. Fixed Appliances [220.53]

(e) @
(4 or more appliances, a demand factor of $75 \%$ may be used)
3. Dryer [220.54-Minimum 5000VA or nameplate if larger]
$\qquad$ VA @ 1 $\qquad$
$\qquad$ $=$ $\qquad$ VA (3)
4. Cooking Equipment [Table 220.55] Notes

$=$ $\qquad$ VA (4)
(may be reduced per Table 220.55)
5. Heating or A/C [220.60]

Total load for Supplemental Heating Unit (i) = $\qquad$ VA
Total load for A/C Unit (ii) = $\qquad$ VA
Total load for Heat pump (iii) $=$ $\qquad$ VA

Largest load of (i)+(iii) or (ii)+(iii) = $\qquad$ @ 100\%
$=$ $\qquad$ VA (5)
6. Largest Motor [220.50]
$\qquad$
$\qquad$
$=$ $\qquad$ VA (6)
7. Other loads: (i.e.. pool pump, spa, welder)
$\xrightarrow{V A}$ VA
$=$ $\qquad$

Add 20 Amps at 240 volts (SFR Only)
$=$ $\qquad$ VA (7)
$=$ $\qquad$ VA (8)

Total: Add line (1) through (8) = $\qquad$ VA (9)

Calculated Load for Service $=$ Line (9)/240
$\qquad$ Amps

This worksheet provided for 2017 NEC educational purposes - contractor is responsible for final adjustments

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