CITY OF HENDERSON
Department of Building & Fire Safety
RESIDENTIAL ELECTRICAL LOAD CALCULATIONS

Owner ___________________________________________ Date __/__/____
Address ___________________________________________ Prepared by ___________________________

General Lighting Load Sq.Ft. ______________ X 3 Volt Amps = ____________VA

Small Appliance Circuits at 1500 VA each x _________(min. of two) = ____________VA
Laundry (Washing Machine) Circuit 1500 VA x ________(min. of one) = ____________VA

Sub-Total = ____________VA

First 3,000 VA of Lighting, Small Appliance, Laundry Load at 100% = ________ 3,000 VA
From 3,001 to 120,000 VA at 35% _________ X .35 = ____________VA
Over 120,000 VA use 25% _________ X .25 = ____________VA

Electrical Cooking Appliances, Use NEC Table 220-55
(Number of Appliances) _____ Demand_____% x Total KW _____(Column A) x 1,000 = ____________VA
(Number of Appliances) _____ Demand_____% x Total KW _____(Column B) x 1,000 = ____________VA
(Number of Appliances) _____ Demand_____ x Total KW _____(Column C) x 1,000 = ____________VA

Sub-Total = ____________VA

Dryer Load NEC Table 220-54

(1) Sub-Total = ____________VA

Heating/Air Conditioning – List type and VA at 100%
(H) Heat Pump (G) Gas + Cool (S) Heat Strip (A) Cir Fans
( ) ( ) ( ) ( )
( ) ( ) ( ) ( )
( ) ( ) ( ) ( )
( ) ( ) ( ) ( )

(2) Sub-Total = ____________VA

Fixed Appliances – If fewer than four units, use 100%. If four or more, use 75% of the nameplate rating.
Microwave 1500 VA x _________ Food Center 600 VA x _________
Compactor 1200 VA x ___________ Hot Water 4500 VA x ___________
Dishwasher 1200 VA x ___________ VA x ___________
Disposal 600 VA x ___________ VA x ___________
Cent Vacuum 1800 VA x ___________ VA x ___________

Appliance Subtotal _________ x ____(100%) OR ( 75%) (3) Sub-Total = ____________VA

Add 25% of the largest motor (typical AC compressor)
_________________ X 25% LM ___________________ (4) Sub-Total = ____________VA

5) Spare 20amps x 240 volts Sub-Total = ____________ 4,800 VA

GRAND TOTAL (Add Sub-Totals (1), (2), (3), (4), (5)) = ____________VA

Total Volt Amps ______________ Divide by 240 Volts = ______Amps

Service Size ___________________ Grounding Electrode Conductor ___________________

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