

## RESIDENTIAL ELECTRICAL LOAD WORKSHEET ( Main Services 220.82 & Subpanels 215.2 )

Contractor Name \_\_\_\_\_ Contractor License # \_\_\_\_\_

Project Address \_\_\_\_\_ Township, \_\_\_\_\_

### NEC 220.82 "Optional Feeder and Service Load Calculation"

( A )

General light, power _____ SF x 3 volt-amperes	=	
Appliance Cir , 2 x 1500 volt-amperes	=	
Laundry Cir, 1 x 1500 volt-amperes	=	
Electric Cooktop, NP Rating,	=	
Electric Range, NP Rating,	=	
Electric Wall Oven, NP Rating,	=	
Electric Water Heater, 4500 VA / NP Rating,	=	
Dishwasher, 1200 VA	=	
Dryer, 5000 VA	=	
Refrig, 1200 VA each	=	
Freezer, 800 VA each	=	
Micro wave 1500 VA / NP rating	=	
Furnace, NP rating, each	=	
Other NP rating, each	=	

**Sub Total A** (Add all loads listed Above.) = \_\_\_\_\_

The first 10,000 VA is calculated at 100% = 10.000

Remaining Volt-amperes calculated at 40% = \_\_\_\_\_

**Sub Total A** = \_\_\_\_\_

**( B ) Heating / Air Conditioning**

Air Conditioning , All unit, (100% np rating) = \_\_\_\_\_

Electrical space heating up to 3 separate units (65% np rating) = \_\_\_\_\_

Electrical space heating over 4 separate units (40% np rating) = \_\_\_\_\_

Electrical Thermal Storage System. (100% np rating) = \_\_\_\_\_

Heat Pump without supplemental heating, (100% np rating)

Heat Pump with supplemental heating, (100% np rating ) = \_\_\_\_\_

( Plus 65% of the supplement heating load ) = \_\_\_\_\_

Largest load AC or Heat, **Sub Total B** = \_\_\_\_\_

**220.83(B) Existing Dwelling units, ( New loads to existing service to be added below)**

**625.41 EV, Continuous Duty Loads**

**( C ) New Loads**

EV Charger, 1 11500 watt 60 amp unit 240 volt (100% np rating) = \_\_\_\_\_

EV Charger, 9600 watt 50 amp unit 240 volt (100% np rating) = \_\_\_\_\_

EV Charger 1840 watt 20 amp 120 volt unit (100% np rating) = \_\_\_\_\_

EV Charger Larger sizes, (100% np) = \_\_\_\_\_

EV Charger, 2 ( 100% np rating ) = \_\_\_\_\_

**Sub Total C** = \_\_\_\_\_

Total A \_\_\_\_\_ + B \_\_\_\_\_ + C \_\_\_\_\_ = D \_\_\_\_\_ **Total KW load**

KW, \_\_\_\_\_ divided by Volts = \_\_\_\_\_ Amps

Service size. 100 ( ) 150 ( ) 200 ( ) 320 ( )

Service 80% Rating 80 amp 120 amp 160 amp 256 amp

Is Service size code compliance? Yes ( ) No ( )

Is there a generator on the premises? Yes ( ) No ( )

Will a load shedding device be required? Yes ( ) No ( )

Is there a sub panel involved? Yes ( ) No ( )

Sub Panel Calculations Required. (NEC215.2) Yes ( ) No ( )