



Community Development and Sustainability Department

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RESIDENTIAL SERVICE LOAD WORKSHEET

Optional Calculation for Dwelling Unit per California Electrical Code (CEC)

Address: _____ Permit #: _____ Date: _____

Rating of:	NPR (Name plate Rating)	Building sq. ft.:	Watts (= volts x amps)	Gas Furnace? Y N	X % =	Total (a)
Air Conditioning*	NPR	_____	_____		X 1.00 =	_____
Heat Pump	NPR	_____	_____		X 1.00 =	_____
Electric Central Heating System	NPR	_____	_____		X.65 =	_____
Electric Space Heaters	NPR	_____	_____			_____
Less than 4 separately controlled units		_____	_____		X .65 =	_____
Electric Space Heaters	NPR	_____	_____			_____
4 or more separately controlled units		_____	_____		X .40 =	_____

Transfer the largest value (watts) from the above 5 lines to the space below titled "from above" **

* Air Conditioning Example: Compressor = 16.0 amps
 Air handler = 2.0 amps
 25% of the largest motor = 4.0 amps
 Total = 22.0 amps X 240 volts = 5,280 Watts

Quantity	Item	Watts (= volts x amps)
_____	Sq. Ft. X 3 watts per sq. ft.	= _____
_____	(2) 20 Amp appliance circuits @ 1500 watts each (kitchen)	= _____
_____	Range/Cooktop/Ovens NPR	= _____
_____	Microwave (separate) NPR	= _____
_____	Water Heater (if electric) NPR	= _____
_____	Dishwasher/Garbage Disposal NPR	= _____
_____	Washer (1) 20 Amp @ 1500 watts	= _____
_____	Electric Dryer greater of 5000 or NPR	= _____
_____	Motor loads NPR	= _____
_____	Pool and/or Spa NPR	= _____
_____	Other loads	= _____
	Subtotal	= _____
	Less	= _____ -10,000
	Total = _____ X .40	= _____
	** from above	+ _____
		+ _____ 10,000
	Grand Total (watts)	= _____

Grant Total (watts) _____ ÷ 240 Volts = _____ Service Load (Amps)
 Existing service size: _____ Amp

Signature – Electrical Contractor, owner/builder