

Catskills House
eQWEST Simulations
Data for Input and Verification
4/28/2013

Building sf 2500
 No of occupants 2

Electric

Monthly Elec Use		Cost per kwh	Monthly cost	Verification - Yrly kwh	
750	kwh	\$ 0.15	\$ 110	Actual	Modeled
			Elec Use	9000	9400
Per SF allowances for elec uses		Subtots	Watts Per SF	Verification	Modeled
		Watts	for Program	kwh per yr	Program
			Data Entry	Manual	Program
				Calc	Value
Area lighting					
Lights	Lamp Watts				
kitchen					
2	20	40			
living rm					
2	20	40			
1	150	150			
hall					
1	14	14			
bdrm					
1	14	14			
		258	0.1032	1507	2177
				Area Lighting	
Misc equip / plug loads - Actual					
2	devices / person				
50	watt avg	200	0.0800	1168	
Elec stove					
11000	w		0.1833	1004	
11kwh	per day				
Refrigs					
750	kw/yr		0.0342	750	
2055	w/day				
86	w/hr			2922	3081
				Misc Loads	
Baseboard elec heating: Emergency Use when Boiler Broken					
6					
4	ft				
200	w / lf	4,800			
Water heater					
9,600	htg element			3,504	
9,600	1 hr run time per day				
3,504,000	watts per yr		BTU one hr run	32774.4	
			Btu to raise 1 gal to deliver temp	400	
			Gallons heated per hr to delivery temp	81.936	
			Total Hand Calc Elec Load	7,932	9400