Dominion Energy Utah
Docket No. 21-057-06
DEU Exhibit 2.05

Residential Load Calculator

Change Location:	Provo
Name of Development:	Elberta
Elevation (ft):	4350
Annual heating Degree Days:	6232
Design Condition (F):	-8
BTU Content at Elevation:	868
BTU Content 60 F 14.73 psia:	995
Specific Gravity:	0.56
Deration Factor:	0.83
Atmospheric Pressure:	12.6
Diversity Factor:	0.9

Housing Info

Ave sq ft	Buildings	Floors	Category	Appartments
2000	62	1	Midscale	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	
			Entry	

Monthly Heating Degree Days

January:	1241
February:	981
March:	810
April:	454
May:	274
June:	75
July:	2
August:	1
September:	79
October:	396
November:	782
December:	1137

Gas Appliance Inventory

Appliance	Efficiency	Input (kBtu/hr)	% of Houses
Furnace AFUE	80	110	100
Furnace AFUE	95	93	0
WaterHeater EF	0.51	40	100
WaterHeater EF	0.59	47	0
Range		50	0
Dryer		22	0
Fireplace		35	0
Grill		20	0
Gas Lights		2.1	0
Pool Heater		200	0

Luxury Specific Gas Appliances

Appliance	kBtu/hr/House	% of Houses
Boiler	1780	100
Furnace	175	26
Fireplace	344	100
Log	80	15
SpaceHeater	62	5
Unit Heater	115	0
PatioHeater	90	0
Infared	180	0
Spa Heater	200	0
Pool Heater	400	0
Base Usage	15	100
Boiler Input	1035	70
Driveway Size	4500	(sqft)
Heat Rate	230	BTU/(hr-ft^2)
Full Load	500	Hours/Year

Ave Installed(kBtu/hr)	150
Ave Installed(MCFH)	0.172
Peak Hourly (MCFH)	4.339
Ave Hourly (MCFH)	3.214
Peak Day (MCF)	77.125
Total Units	62
Heat Loss (Dth/F')	0.874

Dth	Furnace	W-Heater	Range	Dryer	Fireplace	Grill	Lights	Pool	Heating	Snowmelt	Other	Total
January	983.78	178.68	0	0	0	0	0	0	0	0	0	1162.47
February	760.79	161.57	0	0	0	0	0	0	0	0	0	922.36
March	623.5	175.27	0	0	0	0	0	0	0	0	0	798.77
April	402.26	165.23	0	0	0	0	0	0	0	0	0	567.49
May	189.76	163.62	0	0	0	0	0	0	0	0	0	353.38
June	47.22	142.1	0	0	0	0	0	0	0	0	0	189.33
July	1.75	133.8	0	0	0	0	0	0	0	0	0	135.54
August	4.37	131.63	0	0	0	0	0	0	0	0	0	136
September	80.45	131.13	0	0	0	0	0	0	0	0	0	211.58
October	331.43	146.2	0	0	0	0	0	0	0	0	0	477.62
November	657.6	153.7	0	0	0	0	0	0	0	0	0	811.3
December	941.81	171.62	0	0	0	0	0	0	0	0	0	1113.43
Annual	5024.73	1854.61	0	0	0	0	0	0	0	0	0	6879.34

Calculate

Help

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