Utility Allowance Estimates For Tax Credit Properties



Prepared For The

Housing Authority of the County of Butte Chico, California

August 2013

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TABLE CONTENTS

Executive Summary

1200 Park Avenue

Chico Commons

Walker Commons

Gridley Springs

Harvest Park Apartments

Water/Sewer Tables

Current Utility Rate Schedules



HOUSING AUTHORITY OF THE COUNTY OF BUTTE CHICO, CALIFORNIA

UTILITY ALLOWANCE ESTIMATES FOR TAX CREDIT PROPERTIES

FY 2013 - 2014

1200 Park Avenue			
	1 Bedroom	2 Bedroom Middle	2 Bedroom End
Electricity	24.00	27.00	30.00
Natural Gas	16.00	20.00	22.00
Total	\$ 40.00	\$ 47.00	\$ 52.00

Chico Commons			
	1 Bedroom	2 Bedroom	3 Bedroom
Electricity	23.00	27.00	31.00
Natural Gas	11.00	13.00	15.00
Total	\$ 34.00	\$ 40.00	\$ 46.00

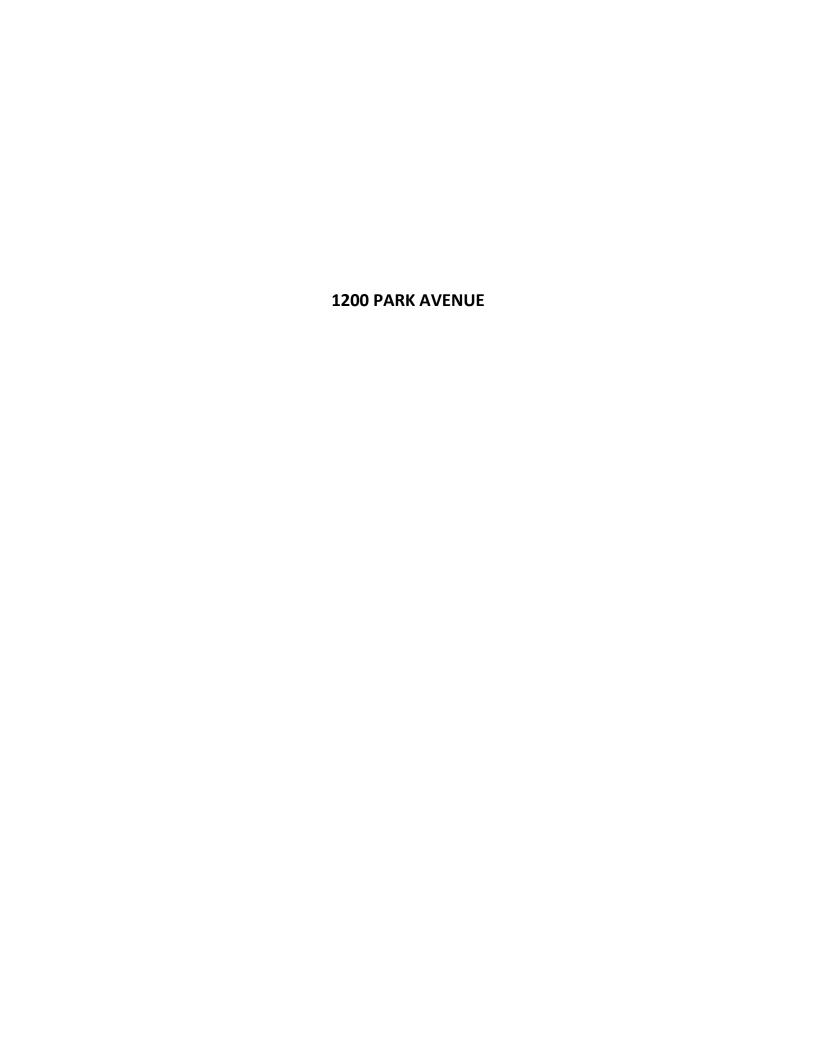
Walker Commons	
	1 Bedroom
Electricity	26.00
Natural Gas	23.00
Total	\$ 49.00

HOUSING AUTHORITY OF THE COUNTY OF BUTTE CHICO, CALIFORNIA

UTILITY ALLOWANCE ESTIMATES FOR TAX CREDIT PROPERTIES FY 2013 - 2014

Gridley Springs			
	1 Bedroom	2 Bedroom	3 Bedroom
Electricity	54.00	60.00	67.00
Natural Gas	18.00	22.00	25.00
Total	\$ 72.00	\$ 82.00	\$ 92.00

Harvest Park Apartr	nents				
	1 Bedroom	2 Bedroom	3 Bedroom	4 Bedroom	
Electricity	25.00	30.00	34.00	38.00	
Natural Gas	12.00	15.00	17.00	20.00	
Total	\$ 37.00	\$ 45.00	\$ 51.00	\$ 58.00	



ANNUAL ELECTRICAL CONSUMPTION ITEMIZATION (kWh)

Unit Type	Lights Re	frigerator I	Fans/Heat	A/C	Cooking	<u>Misc</u>	<u>Total</u>
1 Mid Rise Bottom Middle	775	475	81	691		707	2729
1 Mid Rise Bottom End	775	475	82	701		707	2740
2 Mid Rise Bottom Middle	862	523	87	882		818	3172
2 Mid Rise Bottom End	862	523	121	1229		818	3553

ANNUAL NATURAL GAS CONSUMPTION ITEMIZATION (Therms)

<u>Unit Type</u>	<u>Heat</u>	DHW	Cooking	<u>Other</u>	<u>Total</u>
1 Mid Rise Bottom Middle	63	72	30	0	165
1 Mid Rise Bottom End	64	72	33	0	169
2 Mid Rise Bottom Middle	83	102	36	0	221
2 Mid Rise Bottom End	116	102	40	0	258

8/6/2013 Page 1

MONTHLY ELECTRICAL CONSUMPTION (kWh)

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Mid Rise Bottom Middle	238	232	231	227	224	221	221	221	221	223	232	239	228
1 Mid Rise Bottom End	239	233	232	228	224	222	222	222	222	224	233	240	228
2 Mid Rise Bottom Middle	276	270	268	264	260	257	257	257	257	260	269	277	264
2 Mid Rise Bottom End	312	304	301	295	290	286	286	286	286	290	302	313	296

MONTHLY ELECTRICAL COST

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug_	Sep	Oct	Nov	Dec	_Avg
1 Mid Rise Bottom Middle	\$25	\$24	\$24	\$24	\$24	\$23	\$23	\$23	\$23	\$23	\$24	\$25	\$24
1 Mid Rise Bottom End	\$25	\$24	\$24	\$24	\$24	\$23	\$23	\$23	\$23	\$24	\$24	\$25	\$24
2 Mid Rise Bottom Middle	\$28	\$28	\$27	\$27	\$27	\$26	\$26	\$26	\$26	\$27	\$28	\$28	\$27
2 Mid Rise Bottom End	\$31	\$31	\$30	\$30	\$29	\$29	\$29	\$29	\$29	\$29	\$30	\$31	\$30

MONTHLY NATURAL GAS CONSUMPTION (Therms)

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Mid Rise Bottom Middle	22	18	16	13	11	9	9	9	9	10	17	23	14
1 Mid Rise Bottom End	23	18	17	14	11	9	9	9	9	11	17	23	14
2 Mid Rise Bottom Middle	30	24	22	18	15	12	12	12	12	14	23	30	19
2 Mid Rise Bottom End	37	29	26	21	16	12	12	12	12	15	27	38	21

MONTHLY NATURAL GAS COST

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Mid Rise Bottom Middle	\$23	\$19	\$17	\$15	\$13	\$11	\$11	\$11	\$11	\$12	\$18	\$24	\$16
1 Mid Rise Bottom End	\$24	\$19	\$18	\$16	\$13	\$11	\$11	\$11	\$11	\$13	\$18	\$24	\$16
2 Mid Rise Bottom Middle	\$30	\$25	\$23	\$19	\$17	\$14	\$14	\$14	\$14	\$16	\$24	\$30	\$20
2 Mid Rise Bottom End	\$36	\$29	\$26	\$22	\$17	\$14	\$14	\$14	\$14	\$17	\$27	\$37	\$22

8/6/2013 Page 3



ANNUAL ELECTRICAL CONSUMPTION ITEMIZATION (kWh)

Unit Type	Lights Re	<u>frigerator</u>	Fans/Heat	A/C	Cooking	<u>Misc</u>	<u>Total</u>
1 Rowhouse Bottom End	546	567	49	711		707	2580
2 Duplex Bottom End	692	578	66	964		818	3118
3 Duplex Bottom End	714	594	97	1207		1028	3640

ANNUAL NATURAL GAS CONSUMPTION ITEMIZATION (Therms)

<u>Unit Type</u>	<u>Heat</u>	DHW	Cooking	<u>Other</u>	<u>Total</u>
1 Rowhouse Bottom End	72		30	0	102
2 Duplex Bottom End	97		33	0	130
3 Duplex Bottom End	120		36	0	156

8/6/2013 Page 1

MONTHLY ELECTRICAL CONSUMPTION (kWh)

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Rowhouse Bottom End	222	218	217	215	213	211	211	211	211	212	218	222	215
2 Duplex Bottom End	269	264	263	259	257	255	254	254	255	256	263	269	260
3 Duplex Bottom End	316	309	307	303	299	296	295	295	296	298	308	317	303

MONTHLY ELECTRICAL COST

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Rowhouse Bottom End	\$23	\$23	\$23	\$23	\$23	\$22	\$22	\$22	\$22	\$23	\$23	\$23	\$23
2 Duplex Bottom End	\$28	\$27	\$27	\$27	\$26	\$26	\$26	\$26	\$26	\$26	\$27	\$28	\$27
3 Duplex Bottom End	\$32	\$31	\$31	\$31	\$30	\$30	\$30	\$30	\$30	\$30	\$31	\$32	\$31

MONTHLY NATURAL GAS CONSUMPTION (Therms)

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Rowhouse Bottom End	18	13	12	8	5	3	3	3	3	5	12	19	9
2 Duplex Bottom End	24	17	15	10	6	3	3	3	3	6	16	24	11
3 Duplex Bottom End	29	20	18	12	7	3	3	3	3	7	19	30	13

MONTHLY NATURAL GAS COST

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Rowhouse Bottom End	\$19	\$15	\$14	\$10	\$8	\$6	\$6	\$6	\$6	\$8	\$14	\$20	\$11
2 Duplex Bottom End	\$25	\$18	\$17	\$12	\$9	\$6	\$6	\$6	\$6	\$9	\$17	\$25	\$13
3 Duplex Bottom End	\$29	\$21	\$19	\$14	\$9	\$6	\$6	\$6	\$6	\$9	\$20	\$30	\$15

8/6/2013 Page 3



ANNUAL ELECTRICAL CONSUMPTION ITEMIZATION (kWh)

<u>Unit Type</u>	<u>Lights</u> Re	<u>frigerator</u>	Fans/Heat	<u>A/C</u>	Cooking	<u>Misc</u>	<u>Total</u>
1 Rowhouse Top End	946	567	0	839		707	3059
1 Rowhouse Top Middle	946	567	0	783		707	3003
1 Rowhouse Middle Middle	946	567	0	697		707	2917

ANNUAL NATURAL GAS CONSUMPTION ITEMIZATION (Therms)

Unit Type	<u>Heat</u>	<u>DHW</u>	<u>Cooking</u>	<u>Other</u>	<u>Total</u>
1 Rowhouse Top End	118	115	30	0	263
1 Rowhouse Top Middle	113	115	33	0	261
1 Rowhouse Middle Middle	105	115	36	0	256

MONTHLY ELECTRICAL CONSUMPTION (kWh)

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Rowhouse Top End	255	255	255	255	255	255	255	255	255	255	255	255	255
1 Rowhouse Top Middle	250	250	250	250	250	250	250	250	250	250	250	250	250
1 Rowhouse Middle Middle	243	243	243	243	243	243	243	243	243	243	243	243	243

MONTHLY ELECTRICAL COST

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Rowhouse Top End	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26
1 Rowhouse Top Middle	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26
1 Rowhouse Middle Middle	\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25

MONTHLY NATURAL GAS CONSUMPTION (Therms)

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Rowhouse Top End	38	29	27	21	16	13	12	12	13	16	28	38	22
1 Rowhouse Top Middle	37	29	27	21	16	13	12	12	13	16	28	38	22
1 Rowhouse Middle Middle	35	28	26	21	16	13	13	13	13	16	27	36	21

MONTHLY NATURAL GAS COST

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Rowhouse Top End	\$37	\$29	\$27	\$22	\$17	\$15	\$14	\$14	\$15	\$17	\$28	\$37	\$23
1 Rowhouse Top Middle	\$36	\$29	\$27	\$22	\$17	\$15	\$14	\$14	\$15	\$17	\$28	\$37	\$23
1 Rowhouse Middle Middle	\$35	\$28	\$26	\$22	\$17	\$15	\$15	\$15	\$15	\$17	\$27	\$35	\$22



ANNUAL ELECTRICAL CONSUMPTION ITEMIZATION (kWh)

Unit Type	Lights Ref	rigerator	Fans/Heat	<u>A/C</u>	Cooking	<u>Misc</u>	<u>Total</u>
1 Walk-up Bottom End	679	567	69	806	933	707	3761
2 Walk-up Bottom End	766	578	84	974	1067	818	4287
3 Walk-up Bottom End	854	594	99	1132	1200	1028	4907

ANNUAL NATURAL GAS CONSUMPTION ITEMIZATION (Therms)

<u>Heat</u>	<u>DHW</u>	Cooking	<u>Other</u>	<u>Total</u>
76	122		0	198
93	159		0	252
109	181		0	290
	76 93	76 122 93 159	76 122 93 159	76 122 0 93 159 0

MONTHLY ELECTRICAL CONSUMPTION (kWh)

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jui	Aug	Sep	Oct	Nov	Dec	Avg.
1 Walk-up Bottom End	323	318	316	313	310	308	308	308	308	310	317	323	314
2 Walk-up Bottom End	369	362	361	357	353	351	350	350	351	353	362	369	357
3 Walk-up Bottom End	422	415	413	408	404	401	401	401	401	404	414	423	409

MONTHLY ELECTRICAL COST

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	_Dec_	_Avg
1 Walk-up Bottom End	\$55	\$54	\$54	\$54	\$53	\$53	\$53	\$53	\$53	\$53	\$54	\$55	\$54
2 Walk-up Bottom End	\$61	\$60	\$60	\$60	\$59	\$59	\$59	\$59	\$59	\$59	\$60	\$61	\$60
3 Walk-up Bottom End	\$69	\$68	\$67	\$67	\$66	\$66	\$66	\$66	\$66	\$66	\$67	\$69	\$67

MONTHLY NATURAL GAS CONSUMPTION (Therms)

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Walk-up Bottom End	27	21	20	16	13	10	10	10	10	13	20	27	16
2 Walk-up Bottom End	33	27	25	21	17	14	13	13	14	16	26	34	21
3 Walk-up Bottom End	39	31	29	24	19	15	15	15	16	19	30	39	24

MONTHLY NATURAL GAS COST

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Walk-up Bottom End	\$27	\$22	\$21	\$17	\$15	\$12	\$12	\$12	\$12	\$15	\$21	\$27	\$18
2 Walk-up Bottom End	\$33	\$27	\$26	\$22	\$18	\$16	\$15	\$15	\$16	\$17	\$26	\$34	\$22
3 Walk-up Bottom End	\$38	\$31	\$29	\$25	\$20	\$17	\$17	\$17	\$17	\$20	\$30	\$38	\$25

DHW Calculations

Number of Bedrooms:	1	Bedrooms
Number of Occupants:	1.1	Occupants

Consumption Rate: 10.0 Gallons/Occupant/Day

Specific Heat of Water: 0.999 Btu/lb/F
Specific Volume of Water: 62.32 lb/cf
Volume Conversion: 7.48055 gal/cf

Heuristic Exponent:

Service Water Inlet Temperature:

Hot Water Supply Temperature:

Delta T:

0.68

55 F

120 F

65 F

Calender Schedule: 365 days/yr
Daily Schedule: 24 hrs/day
Total Operating Hours: 8,760 hrs/yr

Air Temperature At Tank: 72 F
Tank Size: 40 gal

Tank Insulation (R-Value): 3 F-sf-hr/Btu R-Value of Shell Plus Air: 0.62 F-sf-hr/Btu

System Efficiency: 70% Standing Pilot? Yes

Pilot Consumption Rate: 400 Btu/hr

Fuel Type: Natural gas

Pilot Consumption: 3,504 kBtu/yr
Total Energy Lost: 2,884 kBtu/yr
Consumption Energy Required: 2,172 kBtu/yr

Primary Fuel Required: 122 Therms/Year

DHW Calculations

Number of Bedrooms:	2	Bedrooms
Number of Occupants:	2.5	Occupants

Consumption Rate: 9.6 Gallons/Occupant/Day

Specific Heat of Water: 0.999 Btu/lb/F
Specific Volume of Water: 62.32 lb/cf

Volume Conversion: 7.48055 gal/cf

Heuristic Exponent:

Service Water Inlet Temperature:

Hot Water Supply Temperature:

Delta T:

0.68

55 F

120 F

65 F

Calender Schedule:

Daily Schedule:

Total Operating Hours:

365 days/yr
24 hrs/day
8,760 hrs/yr

Air Temperature At Tank: 72 F
Tank Size: 40 gal

Tank Insulation (R-Value): 3 F-sf-hr/Btu R-Value of Shell Plus Air: 0.62 F-sf-hr/Btu

System Efficiency: 70% Standing Pilot? Yes

Pilot Consumption Rate: 400 Btu/hr

Fuel Type: Natural gas

Pilot Consumption: 3,504 kBtu/yr
Total Energy Lost: 2,884 kBtu/yr
Consumption Energy Required: 4,739 kBtu/yr

Primary Fuel Required: 159 Therms/Year

DHW Calculations

Number of Bedrooms:

Number of Occupants:

3 Bedrooms
3.5 Occupants

Consumption Rate: 9.1 Gallons/Occupant/Day

Specific Heat of Water: 0.999 Btu/lb/F
Specific Volume of Water: 62.32 lb/cf
Volume Conversion: 7.48055 gal/cf

Heuristic Exponent:

Service Water Inlet Temperature:

Hot Water Supply Temperature:

Delta T:

0.68

55 F

120 F

Calender Schedule: 365 days/yr
Daily Schedule: 24 hrs/day
Total Operating Hours: 8,760 hrs/yr

Air Temperature At Tank: 72 F
Tank Size: 40 gal

Tank Insulation (R-Value): 3 F-sf-hr/Btu R-Value of Shell Plus Air: 0.62 F-sf-hr/Btu

System Efficiency: 70% Standing Pilot? Yes

Pilot Consumption Rate: 400 Btu/hr

Fuel Type: Natural gas

Pilot Consumption: 3,504 kBtu/yr
Total Energy Lost: 2,884 kBtu/yr
Consumption Energy Required: 6,289 kBtu/yr

Primary Fuel Required: 181 Therms/Year

Cooling Load Tables

Number of Bedrooms:	1	Unit Configuration:	Bottom End
Building Type:	Walk-up	Number of Stories:	1

Window Type:	Sliding	Window Infiltration Rate:	0.09 Btu/hr-sf-F
Window Glazing:	Double	Window Heat Loss:	166 Btu/hr
Window Fit:	Average	Window Infiltration:	230 Rtu/hr

Window Area:	102 sf
Storm Windows:	No

Window U-Value: 0.07 Btu/hr-sf-F

Door Fit:	Average	Door Infiltration Rate:	0.11 Btu/hr-sf-F
Door Area:	20 sf	Door Heat Loss:	230 Btu/hr
Storm Doors:	No	Door Infiltration:	55 Btu/hr

Door U-Value: 0.46 Btu/hr-sf-F

Exposed Floor Area:	618 sf	Floor Heat Loss:	1391 Btu/hr

Floor U-Value: 0.09 Btu/hr-sf-F

Exposed Ceiling Area: 0 sf Roof Heat Loss: 0 Btu/hr

Ceiling U-Value: 0.03 Btu/hr-sf-F

Exterior Wall Area: 574 sf Wall Heat Loss 674 Btu/hr

Wall U-Value: 0.05 Btu/hr-sf-F

System Efficiency: 100% Total Unit Heat Loss Rate: 2746 Btu/hr

Standing Pilot? No Pilot Operating Hours: 8760 hrs/yr Pilot Consumption: 0 kBtu/yr

Pilot Btu/hr: 500 Btu/hr

Cooling Fuel: Electricity Fan Operating Hours: 88 Hours
Cooling System Fan? Yes

Fan Size: 400 Watts Gooling Degree Days
Cooling Output: 30000 Btu/hr Cooling Degree Days = 1248

•	COUSING DEGICE Days				
r	Cooling Degree Days =	1248			
	Design Temp. Diff.(F) =	25			
	Correction Factor (CD) =	0.8			

Fan Energy: 35 kWh
Est. Cooling System Consumption: 771 kWh
Total kWh: 806.2 kWh

Cooling Load Tables

Number of Bedrooms: Building Type:	2 Walk-up	Unit Configuration: Number of Stories:	Bottom End 1
building Type.	waik-up	radifiber of otolics.	•
Window Type:	Sliding	Window Infiltration Rate:	0.09 Btu/hr-sf-F
Window Glazing:	Double	Window Heat Loss:	180 Btu/hr
Window Fit:	Average	Window Infiltration:	250 Btu/hr
Window Area:	111 sf		
Storm Windows:	No		
Window U-Value:	0.07 Btu/hr-sf-F		
Door Fit:	Average	Door Infiltration Rate:	0.11 Btu/hr-sf-F
Door Area:	20 sf	Door Heat Loss:	230 Btu/hr
Storm Doors:	No	Door Infiltration:	55 Btu/hr
Door U-Value:	0.46 Btu/hr-sf-F		
Exposed Floor Area:	778 sf	Floor Heat Loss:	1751 Btu/hr
Floor U-Value:	0.09 Btu/hr-sf-F		
		— • • • • • • • • • • • • • • • • • • •	0 D. #
Exposed Ceiling Area:	0 sf	Roof Heat Loss:	0 Btu/hr
Ceiling U-Value:	0.03 Btu/hr-sf-F		
Exterior Wall Area:	725 sf	Wall Heat Loss	852 Btu/hr
Wall U-Value:	0.05 Btu/hr-sf-F		
System Efficiency:	100%	Total Unit Heat Loss Rate:	3318 Btu/hr
Chanding Dilato	No	Dilat Operating Heure	8760 hrs/yr
Standing Pilot?	INO	Pilot Operating Hours: Pilot Consumption:	0 kBtu/yr
		Pilot Btu/hr:	500 Btu/hr
		Pilot Blu/nr.	500 Blu/III
Cooling Fuel:	Electricity	Fan Operating Hours:	106 Hours
Cooling System Fan?	Yes	, ,	
Fan Size:	400 Watts	Cooling Degree Days	
Cooling Output:	30000 Btu/hr	Cooling Degree Days =	1248
		Design Temp. Diff.(F) =	25
		Correction Factor (CD) =	0.8

	42 kWh
Est. Cooling System Consumption:	932 kWh
Total kWh·	

Cooling Load Tables

Number of Bedrooms: 3 Unit Configuration: Bottom End Building Type: Walk-up Number of Stories: 1

Window Type:SlidingWindow Infiltration Rate:0.09 Btu/hr-sf-FWindow Glazing:DoubleWindow Heat Loss:213 Btu/hrWindow Fit:AverageWindow Infiltration:295 Btu/hr

Window Area: 131 sf Storm Windows: No

Window U-Value: 0.07 Btu/hr-sf-F

Door Fit:AverageDoor Infiltration Rate:0.11 Btu/hr-sf-FDoor Area:20 sfDoor Heat Loss:230 Btu/hrStorm Doors:NoDoor Infiltration:55 Btu/hr

Door U-Value: 0.46 Btu/hr-sf-F

Exposed Floor Area: 952 sf Floor Heat Loss: 2142 Btu/hr

Floor U-Value: 0.09 Btu/hr-sf-F

Exposed Ceiling Area: 0 sf Roof Heat Loss: 0 Btu/hr

Ceiling U-Value: 0.03 Btu/hr-sf-F

Exterior Wall Area: 785 sf Wall Heat Loss 922 Btu/hr

Wall U-Value: 0.05 Btu/hr-sf-F

System Efficiency: 100% Total Unit Heat Loss Rate: 3857 Btu/hr

Standing Pilot? No Pilot Operating Hours: 8760 hrs/yr

Pilot Consumption: 0 kBtu/yr Pilot Btu/hr: 500 Btu/hr

Cooling Fuel: Electricity Fan Operating Hours: 123 Hours

Cooling System Fan? Yes

Fan Size: 400 Watts Cooling Output: 30000 Btu/hr

Cooling Degree Days	
Cooling Degree Days =	1248
Design Temp. Diff.(F) =	25
Correction Factor (CD) =	0.8

Fan Energy: 49 kWh
Est. Cooling System Consumption: 1083 kWh
Total kWh: 1132 kWh

Heating Load Tables

Number of Bedrooms: Building Type:	1 Walk-up	Unit Configuration: Number of Stories:	Bottom E	End
Window Type: Window Glazing: Window Fit: Window Area: Storm Windows: Window U-Value:	Sliding Double Average 102 sf No 0.07 Btu/hr-sf-F	Window Infiltration Rate: Window Heat Loss: Window Infiltration:	265	Btu/hr-sf-F Btu/hr Btu/hr
Door Fit: Door Area: Storm Doors: Door U-Value:	Average 20 sf No 0.46 Btu/hr-sf-F	Door Infiltration Rate: Door Heat Loss: Door Infiltration:	368	Btu/hr-sf-F Btu/hr Btu/hr
Exposed Floor Area: Floor U-Value:	618 sf 0.09 Btu/hr-sf-F	Floor Heat Loss:	2225	Btu/hr
Exposed Ceiling Area: Ceiling U-Value:	718 sf 0.03 Btu/hr-sf-F	Roof Heat Loss:	862	Btu/hr
Exterior Wall Area: Wall U-Value:	574 sf 0.05 Btu/hr-sf-F	Wall Heat Loss	1079	Btu/hr
System Efficiency:	80%	Total Unit Heat Loss Rate:	5254	Btu/hr
Standing Pilot?	No	Pilot Operating Hours: Pilot Consumption: Pilot Btu/hr:	0	hrs/yr kBtu/yr Btu/hr
Heating Fuel: Heating System Fan? Fan Size:	Natural Gas Yes 400 Watts	Fan Operating Hours: Heating Degree Days	172	Hours
Heating Output:	44000 Btu/hr	Heating Degree Days = Design Temp. Diff.(F) = Correction Factor (CD) =	2666 40 0.72	

Fan Energy: 65	
Est. Heating System Consumption: 76	Therms

Heating Load Tables

Number of Bedrooms: Building Type:	2 Walk-up	Unit Configuration: Number of Stories:	Bottom End 1
Bananig Typo.	Train up	ramber of etones.	ľ
Window Type:	Sliding	Window Infiltration Rate:	0.09 Btu/hr-sf-F
Window Glazing:	Double	Window Heat Loss:	289 Btu/hr
Window Fit:	Average	Window Infiltration:	400 Btu/hr
Window Area:	111 sf		
Storm Windows:	No		
Window U-Value:	0.07 Btu/hr-sf-F		
vviridow o-value.	0.07 Btd/11-51-1		
Door Fit:	Average	Door Infiltration Rate:	0.11 Btu/hr-sf-F
Door Area:	20 sf	Door Heat Loss:	368 Btu/hr
Storm Doors:	No	Door Infiltration:	88 Btu/hr
Door U-Value:	0.46 Btu/hr-sf-F		
Exposed Floor Area:	778 sf	Floor Heat Loss:	2801 Btu/hr
Floor U-Value:	0.09 Btu/hr-sf-F		
Exposed Ceiling Area:	957 sf	Roof Heat Loss:	1148 Btu/hr
Ceiling U-Value:	0.03 Btu/hr-sf-F		
-			
Exterior Wall Area:	725 sf	Wall Heat Loss	1363 Btu/hr
Wall U-Value:	0.05 Btu/hr-sf-F		
System Efficiency:	80%	Total Unit Heat Loss Rate:	6457 Btu/hr
Standing Pilot?	No	Pilot Operating Hours:	8760 hrs/yr
		Pilot Consumption:	0 kBtu/yr
		Pilot Btu/hr:	500 Btu/hr
Heating Fuel:	Natural Gas	Fan Operating Hours:	211 Hours
Heating System Fan?	Yes		
Fan Size:	400 Watts	Heating Degree Days	
Heating Output:	44000 Btu/hr	Heating Degree Days =	2666
		Design Temp. Diff.(F) =	40
		Correction Factor (CD) =	0.72

Fan Energy:	84	kWh
Est. Heating System Consumption:	93	Therms

Heating Load Tables

Number of Bedrooms: Building Type:	3 Walk-up	Unit Configuration: Number of Stories:	Bottom End 1
.	•		·
Window Type:	Sliding	Window Infiltration Rate:	0.09 Btu/hr-sf-F
Window Glazing:	Double	Window Heat Loss:	341 Btu/hr
Window Fit:	Average	Window Infiltration:	472 Btu/hr
Window Area:	131 sf		
Storm Windows:	No 0.07 Phythausi F		
Window U-Value:	0.07 Btu/hr-sf-F		
Door Fit:	Average	Door Infiltration Rate:	0.11 Btu/hr-sf-F
Door Area:	20 sf	Door Heat Loss:	368 Btu/hr
Storm Doors:	No	Door Infiltration:	88 Btu/hr
Door U-Value:	0.46 Btu/hr-sf-F		
Exposed Floor Area:	952 sf	Floor Heat Loss:	3427 Btu/hr
Floor U-Value:	0.09 Btu/hr-sf-F		
Exposed Ceiling Area:	1159 sf	Roof Heat Loss:	1391 Btu/hr
Ceiling U-Value:	0.03 Btu/hr-sf-F	1100111001 2000.	TOO T Blantii
Exterior Wall Area:	785 sf	Wall Heat Loss	1476 Btu/hr
Wall U-Value:	0.05 Btu/hr-sf-F		
System Efficiency:	80%	Total Unit Heat Loss Rate:	7563 Btu/hr
Standing Pilot?	No	Pilot Operating Hours:	8760 hrs/yr
Otanianig i not:	140	Pilot Consumption:	0 kBtu/yr
		Pilot Btu/hr:	500 Btu/hr
		THOU DIG/TH.	300 Blami
Heating Fuel:	Natural Gas	Fan Operating Hours:	247 Hours
Heating System Fan?	Yes	.00000000000000000000000000000000000000	
Fan Size:	400 Watts	Heating Degree Days	
Heating Output:	44000 Btu/hr	Heating Degree Days =	2666
		Design Temp. Diff.(F) =	40
		Correction Factor (CD) =	0.72

Fan Energy:	99 kWh
Est. Heating System Consumption:	109 Therms

Lighting Tables

Bedrooms:

Description: Walk-up

Area Description	# fixtures	watts/fixture	hours/day	hours/year	kWh/year
basement					
bathroom	1	80	2	730	58
bedroom	1	120	2	730	88
closet					
dining room	1	60	2	730	44
hallway	1	60	1	365	22
kitchen	1	80	4	1,460	117
lamps	1	100	4	1,460	146
laundry	1	80	2	730	58
living room	1	100	4	1,460	146
pantry					
porch					
stairs					
storage					
utility					

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Lighting Tables

Bedrooms:

Description: Walk-up

Area Description	# fixtures	watts/fixture	hours/day	hours/year	kWh/year
basement					
bathroom	1	80	2	730	58
bedroom	2	120	2	730	175
closet					
dining room	1	60	2	730	44
hallway	1	60	1	365	22
kitchen	1	80	4	1,460	117
lamps	1	100	4	1,460	146
laundry	1	80	2	730	58
living room	1	100	4	1,460	146
pantry					
porch					
stairs					
storage					
utility					
•					

			• •
Total	LVAIN	nor	unit
lOla	LAN	וסע	uiiit.

766

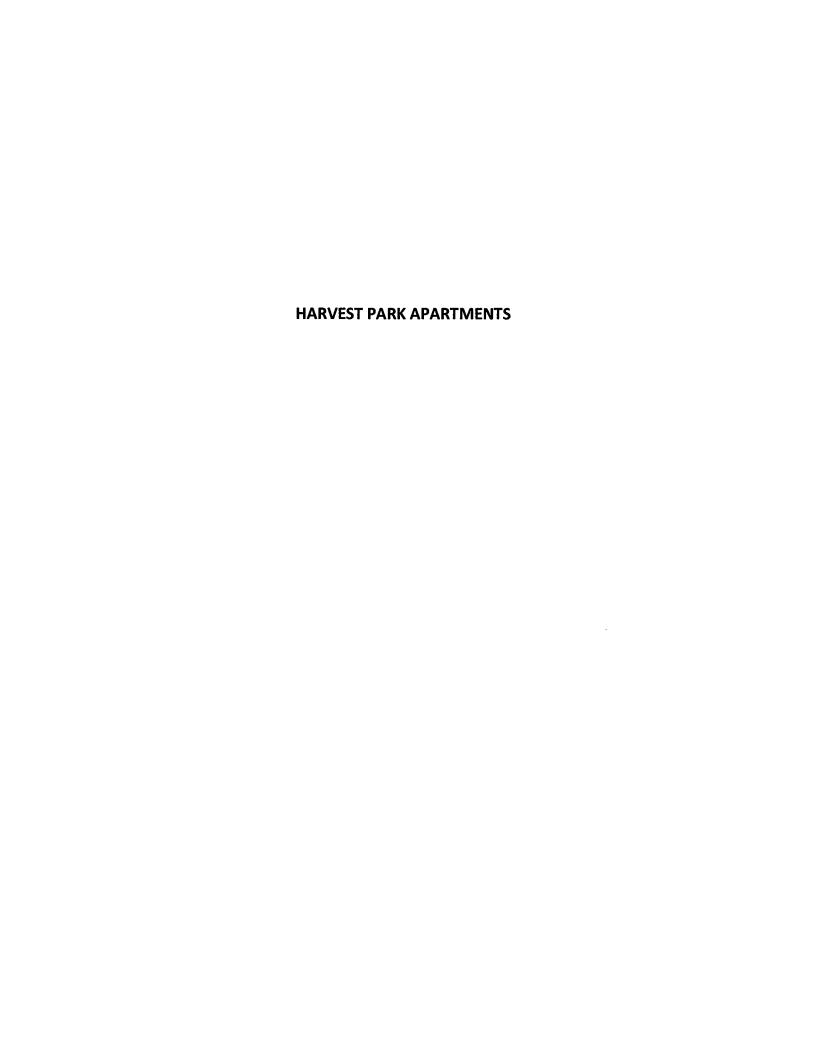
Lighting Tables

Bedrooms: 3

Description: Walk-up

Area Description	# fixtures	watts/fixture	hours/day	hours/year	kWh/year
basement					
bathroom	1	80	2	730	58
bedroom	3	120	2	730	263
closet					
dining room	1	60	2	730	44
hallway	1	60	1	365	22
kitchen	1	80	4	1,460	117
lamps	1	100	4	1,460	146
laundry	1	80	2	730	58
living room	1	100	4	1,460	146
pantry					
porch					
stairs					
storage					
utility					

Total kwh per unit:	854



ANNUAL ELECTRICAL CONSUMPTION ITEMIZATION (kWh)

Unit Type	Lights Re	<u>frigerator</u>	Fans/Heat	<u>A/C</u>	Cooking	<u>Misc</u>	<u>Total</u>
1 Walk-up Bottom Middle	442	567	61	647		707	2424
2 Walk-up Bottom Middle	569	578	74	773		818	2812
2 Walk-up Bottom End	569	578	80	833		818	2878
3 Walk-up Bottom End	593	594	72	998		1028	3285
4 Walk-up Bottom End	612	600	91	1251		1278	3832

ANNUAL NATURAL GAS CONSUMPTION ITEMIZATION (Therms)

Unit Type	<u>Heat</u>	<u>DHW</u>	<u>Cooking</u>	<u>Other</u>	<u>Total</u>
1 Walk-up Bottom Middle	49	38	30	0	117
2 Walk-up Bottom Middle	60	55	33	0	148
2 Walk-up Bottom End	65	55	33	0	153
3 Walk-up Bottom End	78	72	36	0	186
4 Walk-up Bottom End	98	86	39	0	223

MONTHLY ELECTRICAL CONSUMPTION (kWh)

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Walk-up Bottom Middle	210	206	205	202	199	197	197	197	197	199	205	211	202
2 Walk-up Bottom Middle	244	239	237	234	231	228	228	228	228	230	238	245	234
2 Walk-up Bottom End	251	245	243	239	236	233	233	233	233	236	244	251	240
3 Walk-up Bottom End	283	278	277	273	270	268	268	268	268	270	277	284	274
4 Walk-up Bottom End	332	325	323	319	315	312	312	312	312	315	324	332	319

MONTHLY ELECTRICAL COST

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Walk-up Bottom Middle	\$22	\$22	\$22	\$22	\$21	\$21	\$21	\$21	\$21	\$21	\$22	\$22	\$22
2 Walk-up Bottom Middle	\$25	\$25	\$25	\$24	\$24	\$24	\$24	\$24	\$24	\$24	\$25	\$25	\$24
2 Walk-up Bottom End	\$26	\$25	\$25	\$25	\$25	\$24	\$24	\$24	\$24	\$25	\$25	\$26	\$25
3 Walk-up Bottom End	\$29	\$28	\$28	\$28	\$28	\$27	\$27	\$27	\$27	\$28	\$28	\$29	\$28
4 Walk-up Bottom End	\$33	\$33	\$32	\$32	\$32	\$31	\$31	\$31	\$31	\$32	\$32	\$33	\$32

MONTHLY NATURAL GAS CONSUMPTION (Therms)

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Walk-up Bottom Middle	16	13	12	9	7	6	6	6	6	7	12	17	10
2 Walk-up Bottom Middle	20	16	15	12	10	8	7	7	8	9	15	21	12
2 Walk-up Bottom End	21	17	16	12	10	8	7	7	8	9	16	22	13
3 Walk-up Bottom End	26	20	19	15	12	9	9	9	9	11	20	26	15
4 Walk-up Bottom End	32	25	23	18	14	11	10	10	11	14	24	32	19

MONTHLY NATURAL GAS COST

Unit Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
1 Walk-up Bottom Middle	\$17	\$15	\$14	\$11	\$9	\$9	\$9	\$9	\$9	\$9	\$14	\$18	\$12
2 Walk-up Bottom Middle	\$21	\$17	\$17	\$14	\$12	\$10	\$9	\$9	\$10	\$11	\$17	\$22	\$14
2 Walk-up Bottom End	\$22	\$18	\$17	\$14	\$12	\$10	\$9	\$9	\$10	\$11	\$17	\$23	\$15
3 Walk-up Bottom End	\$26	\$21	\$20	\$17	\$14	\$11	\$11	\$11	\$11	\$13	\$21	\$26	\$17
4 Walk-up Bottom End	\$32	\$26	\$24	\$19	\$16	\$13	\$12	\$12	\$13	\$16	\$25	\$32	\$20

Number of Bedrooms:	1	Bedrooms
Number of Occupants:	1.1	Occupants

Consumption Rate: 10.0 Gallons/Occupant/Day

Specific Heat of Water: 0.999 Btu/lb/F
Specific Volume of Water: 62.32 lb/cf
Volume Conversion: 7.48055 gal/cf

Heuristic Exponent:

Service Water Inlet Temperature:

Hot Water Supply Temperature:

Delta T:

0.68

55 F

120 F

65 F

Calender Schedule:

Daily Schedule:

Total Operating Hours:

Air Temperature At Tank:

Tank Size:

365 days/yr
24 hrs/day
8,760 hrs/yr
72 F
30 gal

Tank Insulation (R-Value): 3 F-sf-hr/Btu R-Value of Shell Plus Air: 0.62 F-sf-hr/Btu

System Efficiency: 120% Standing Pilot? No

Pilot Consumption Rate: 400 Btu/hr

Fuel Type: Natural gas

Pilot Consumption: 0 kBtu/yr
Total Energy Lost: 2,371 kBtu/yr
Consumption Energy Required: 2,172 kBtu/yr

Primary Fuel Required: 38 Therms/Year

Number of Bedrooms: 2 Bedrooms Number of Occupants: 2.2 Occupants

Consumption Rate: 9.8 Gallons/Occupant/Day

Specific Heat of Water: 0.999 Btu/lb/F
Specific Volume of Water: 62.32 lb/cf
Volume Conversion: 7.48055 gal/cf

Heuristic Exponent:

Service Water Inlet Temperature:

Hot Water Supply Temperature:

Delta T:

0.68

55 F

120 F

Calender Schedule: 365 days/yr
Daily Schedule: 24 hrs/day
Total Operating Hours: 8,760 hrs/yr
Air Temperature At Tank: 72 F

Air Temperature At Tank: 72 F
Tank Size: 30 gal

Tank Insulation (R-Value): 3 F-sf-hr/Btu R-Value of Shell Plus Air: 0.62 F-sf-hr/Btu

System Efficiency: 120% Standing Pilot? No

Pilot Consumption Rate: 400 Btu/hr

Fuel Type: Natural gas

Pilot Consumption: 0 kBtu/yr
Total Energy Lost: 2,371 kBtu/yr
Consumption Energy Required: 4,257 kBtu/yr

Primary Fuel Required: 55 Therms/Year

Number of Bedrooms:

Number of Occupants:

3 Bedrooms
3.5 Occupants

Consumption Rate: 9.1 Gallons/Occupant/Day

Specific Heat of Water: 0.999 Btu/lb/F
Specific Volume of Water: 62.32 lb/cf

Volume Conversion: 7.48055 gal/cf

Heuristic Exponent: 0.68

Service Water Inlet Temperature: 55 F
Hot Water Supply Temperature: 120 F

Delta T: 65 F

Calender Schedule: 365 days/yr
Daily Schedule: 24 hrs/day

Daily Schedule: 24 hrs/day
Total Operating Hours: 8,760 hrs/yr

Air Temperature At Tank: 72 F
Tank Size: 30 gal

Tank Insulation (R-Value): 3 F-sf-hr/Btu R-Value of Shell Plus Air: 0.62 F-sf-hr/Btu

System Efficiency: 120% Standing Pilot? No

Pilot Consumption Rate: 400 Btu/hr

Fuel Type: Natural gas

Pilot Consumption: 0 kBtu/yr Total Energy Lost: 2,371 kBtu/yr

Consumption Energy Required: 6,289 kBtu/yr

Primary Fuel Required: 72 Therms/Year

Number of Bedrooms:

Number of Occupants:

4 Bedrooms

4.5 Occupants

Consumption Rate: 8.9 Gallons/Occupant/Day

Specific Heat of Water: 0.999 Btu/lb/F
Specific Volume of Water: 62.32 lb/cf
Volume Conversion: 7.48055 gal/cf

Heuristic Exponent:

Service Water Inlet Temperature:

Hot Water Supply Temperature:

Delta T:

0.68

55 F

120 F

Calender Schedule:

Daily Schedule:

Total Operating Hours:

Air Temperature At Tank:

365 days/yr
24 hrs/day
8,760 hrs/yr
72 F

Air Temperature At Tank: 72 F Tank Size: 30 gal

Tank Insulation (R-Value): 3 F-sf-hr/Btu R-Value of Shell Plus Air: 0.62 F-sf-hr/Btu

System Efficiency: 120% Standing Pilot? No

Pilot Consumption Rate: 400 Btu/hr

Fuel Type: Natural gas

Pilot Consumption: 0 kBtu/yr
Total Energy Lost: 2,371 kBtu/yr
Consumption Energy Required: 7,908 kBtu/yr

Primary Fuel Required: 86 Therms/Year

Number of Bedrooms: Building Type:	1 Walk-up	Unit Configuration: Number of Stories:	Bottom Middle 1
Window Type: Window Glazing: Window Fit: Window Area: Storm Windows: Window U-Value:	Single Hung Double Tight 96 sf No 0.06 Btu/hr-sf-F	Window Infiltration Rate: Window Heat Loss: Window Infiltration:	0.05 Btu/hr-sf-F 142 Btu/hr 120 Btu/hr
Door Fit: Door Area:	Tight 20 sf	Door Infiltration Rate: Door Heat Loss:	0.07 Btu/hr-sf-F 24 Btu/hr
Storm Doors: Door U-Value:	No 0.05 Btu/hr-sf-F	Door Infiltration:	35 Btu/hr
Exposed Floor Area: Floor U-Value:	772 sf 0.03 Btu/hr-sf-F	Floor Heat Loss:	579 Btu/hr
Exposed Ceiling Area: Ceiling U-Value:	888 sf 0.03 Btu/hr-sf-F	Roof Heat Loss:	666 Btu/hr
Exterior Wall Area: Wall U-Value:	574 sf 0.04 Btu/hr-sf-F	Wall Heat Loss	574 Btu/hr
System Efficiency:	100%	Total Unit Heat Loss Rate:	2140 Btu/hr
Standing Pilot?	No	Pilot Operating Hours: Pilot Consumption:	8760 hrs/yr 0 kBtu/yr
		Pilot Btu/hr:	500 Btu/hr
Cooling Fuel: Cooling System Fan?	Electricity Yes	Fan Operating Hours:	114 Hours
Fan Size: Cooling Output:	400 Watts 18000 Btu/hr	Cooling Degree Days Cooling Degree Days =	1248
		Design Temp. Diff.(F) = Correction Factor (CD) =	25 0.8

Fan Ener	gy: 46 kWh
Est. Cooling System Consumpti	on: 601 kWh
	Wh: 646.6 kWh

Number of Bedrooms: Building Type:	2 Walk-up	Unit Configuration: Number of Stories:	Bottom Mi 1	iddle
Window Type: Window Glazing: Window Fit: Window Area: Storm Windows: Window U-Value:	Single Hung Double Tight 162 sf No 0.06 Btu/hr-sf-F	Window Infiltration Rate: Window Heat Loss: Window Infiltration:	0.05 E 239 E 203 E	
Door Fit: Door Area: Storm Doors: Door U-Value:	Tight 20 sf No 0.05 Btu/hr-sf-F	Door Infiltration Rate: Door Heat Loss: Door Infiltration:	24 E	Btu/hr-sf-F Btu/hr Btu/hr
Exposed Floor Area: Floor U-Value:	1018 sf 0.03 Btu/hr-sf-F	Floor Heat Loss:	764 E	Btu/hr
Exposed Ceiling Area: Ceiling U-Value:	1171 sf 0.03 Btu/hr-sf-F	Roof Heat Loss:	878 8	Btu/hr
Exterior Wall Area: Wall U-Value:	461 sf 0.04 Btu/hr-sf-F	Wall Heat Loss	461 I	Btu/hr
System Efficiency:	100%	Total Unit Heat Loss Rate:	2604	Btu/hr
Standing Pilot?	No	Pilot Operating Hours: Pilot Consumption: Pilot Btu/hr:	8760 I 0 I 500 I	kBtu/yr
Cooling Fuel: Cooling System Fan? Fan Size:	Electricity Yes 400 Watts	Fan Operating Hours:	104	Hours
Cooling Output:	24000 Btu/hr	Cooling Degree Days Cooling Degree Days =	1248	
	000	Design Temp. Diff.(F) =	25	
		Correction Factor (CD) =	0.8	

Fan Energy:	42 kWh
Est.Cooling System Consumption:	731 kWh
Total kWh:	773 Kwh

Number of Bedrooms: Building Type:	2 Walk-up	Unit Configuration: Number of Stories:	Bottom E	nd
Window Type: Window Glazing: Window Fit: Window Area: Storm Windows: Window U-Value:	Single Hung Double Tight 162 sf No 0.06 Btu/hr-sf-F	Window Infiltration Rate: Window Heat Loss: Window Infiltration:	239	Btu/hr-sf-F Btu/hr Btu/hr
Door Fit: Door Area: Storm Doors: Door U-Value:	Tight 20 sf No 0.05 Btu/hr-sf-F	Door Infiltration Rate: Door Heat Loss: Door Infiltration:	24	Btu/hr-sf-F Btu/hr Btu/hr
Exposed Floor Area: Floor U-Value:	1018 sf 0.03 Btu/hr-sf-F	Floor Heat Loss:	764	Btu/hr
Exposed Ceiling Area: Ceiling U-Value:	1171 sf 0.03 Btu/hr-sf-F	Roof Heat Loss:	878	Btu/hr
Exterior Wall Area: Wall U-Value:	663 sf 0.04 Btu/hr-sf-F	Wall Heat Loss	663	Btu/hr
System Efficiency:	100%	Total Unit Heat Loss Rate:	2806	Btu/hr
Standing Pilot?	No	Pilot Operating Hours: Pilot Consumption: Pilot Btu/hr:		hrs/yr kBtu/yr Btu/hr
Cooling Fuel: Cooling System Fan?	Electricity Yes	Fan Operating Hours:	112	Hours
Fan Size:	400 Watts	Cooling Degree Days		
Cooling Output:	24000 Btu/hr	Cooling Degree Days =	1248	
		Design Temp. Diff.(F) = Correction Factor (CD) =	25 0.8	
		Concolion radio (OD)	0.0	J

Fan Energy:	45 kWh
Est. Cooling System Consumption:	788 kWh
Total kWh:	833 kWh

Number of Bedrooms: Building Type:	3 Walk-up	Unit Configuration: Number of Stories:	Bottom End 1
Window Type: Window Glazing: Window Fit: Window Area: Storm Windows: Window U-Value:	Single Hung Double Tight 198 sf No 0.06 Btu/hr-sf-F	Window Infiltration Rate: Window Heat Loss: Window Infiltration:	0.05 Btu/hr-sf-F 292 Btu/hr 248 Btu/hr
Door Fit: Door Area: Storm Doors: Door U-Value:	Tight 20 sf No 0.05 Btu/hr-sf-F	Door Infiltration Rate: Door Heat Loss: Door Infiltration:	0.07 Btu/hr-sf-F 24 Btu/hr 35 Btu/hr
Exposed Floor Area: Floor U-Value:	1255 sf 0.03 Btu/hr-sf-F	Floor Heat Loss:	941 Btu/hr
Exposed Ceiling Area: Ceiling U-Value:	1443 sf 0.03 Btu/hr-sf-F	Roof Heat Loss:	1082 Btu/hr
Exterior Wall Area: Wall U-Value:	776 sf 0.04 Btu/hr-sf-F	Wall Heat Loss	776 Btu/hr
System Efficiency:	100%	Total Unit Heat Loss Rate:	3398 Btu/hr
Standing Pilot?	No	Pilot Operating Hours: Pilot Consumption: Pilot Btu/hr:	8760 hrs/yr 0 kBtu/yr 500 Btu/hr
Cooling Fuel: Cooling System Fan?	Electricity Yes	Fan Operating Hours:	109 Hours
Fan Size: Cooling Output:	400 Watts 30000 Btu/hr	Cooling Degree Days Cooling Degree Days = Design Temp. Diff.(F) = Correction Factor (CD) =	1248 25 0.8

	Fan Energy:	44 kWh
Est. Cooling System	Consumption:	954 kWh
	Total kWh:	

Number of Bedrooms: Building Type:	4 Walk-up	Unit Configuration: Number of Stories:	Bottom End 1
Window Type: Window Glazing: Window Fit: Window Area: Storm Windows: Window U-Value:	Single Hung Double Tight 213 sf No 0.06 Btu/hr-sf-F	Window Infiltration Rate: Window Heat Loss: Window Infiltration:	0.05 Btu/hr-sf-F 314 Btu/hr 266 Btu/hr
Door Fit:	Tight	Door Infiltration Rate:	0.07 Btu/hr-sf-F
Door Area:	20 sf	Door Heat Loss:	24 Btu/hr
Storm Doors: Door U-Value:	No 0.05 Btu/hr-sf-F	Door Infiltration:	35 Btu/hr
Exposed Floor Area: Floor U-Value:	1686 sf 0.03 Btu/hr-sf-F	Floor Heat Loss:	1265 Btu/hr
Exposed Ceiling Area: Ceiling U-Value:	1939 sf 0.03 Btu/hr-sf-F	Roof Heat Loss:	1454 Btu/hr
Exterior Wall Area: Wall U-Value:	906 sf 0.04 Btu/hr-sf-F	Wall Heat Loss	906 Btu/hr
System Efficiency:	100%	Total Unit Heat Loss Rate:	4264 Btu/hr
Standing Pilot?	No	Pilot Operating Hours:	8760 hrs/yr
-		Pilot Consumption:	0 kBtu/yr
		Pilot Btu/hr:	500 Btu/hr
Cooling Fuel: Cooling System Fan?	Electricity Yes	Fan Operating Hours:	136 Hours
Fan Size:	400 Watts	Cooling Degree Days	
Cooling Output:	30000 Btu/hr	Cooling Degree Days =	1248
		Design Temp. Diff.(F) =	25
		Correction Factor (CD) =	0.8

Fan Energy:	54 kWh
Est. Heating System Consumption:	1197 kWh
Total kWh:	

Number of Bedrooms: Building Type:	1 Walk-up	Unit Configuration: Number of Stories:	Bottom Middle 1
Window Type: Window Glazing: Window Fit: Window Area: Storm Windows: Window U-Value:	Single Hung Double Tight 96 sf No 0.06 Btu/hr-sf-F	Window Infiltration Rate: Window Heat Loss: Window Infiltration:	0.05 Btu/hr-sf-F 227 Btu/hr 192 Btu/hr
Door Fit:	Tight	Door Infiltration Rate:	0.07 Btu/hr-sf-F
Door Area:	20 sf	Door Heat Loss:	38 Btu/hr
Storm Doors: Door U-Value:	No 0.05 Btu/hr-sf-F	Door Infiltration:	56 Btu/hr
Door U-value.	0.05 Blu/III-SI-I		
Exposed Floor Area:	772 sf	Floor Heat Loss:	926 Btu/hr
Floor U-Value:	0.03 Btu/hr-sf-F		
Exposed Ceiling Area: Ceiling U-Value:	888 sf 0.03 Btu/hr-sf-F	Roof Heat Loss:	1065 Btu/hr
Exterior Wall Area: Wall U-Value:	574 sf 0.04 Btu/hr-sf-F	Wall Heat Loss	918 Btu/hr
System Efficiency:	80%	Total Unit Heat Loss Rate:	3422 Btu/hr
Standing Pilot?	No	Pilot Operating Hours:	8760 hrs/yr
		Pilot Consumption:	0 kBtu/yr
		Pilot Btu/hr:	500 Btu/hr
Heating Fuel: Heating System Fan?	Natural Gas Yes	Fan Operating Hours:	153 Hours
Fan Size:	400 Watts	Heating Degree Days	
Heating Output:	32300 Btu/hr	Heating Degree Days =	2666
		Design Temp. Diff.(F) =	40
		Correction Factor (CD) =	0.72

Fan Energy:		
Est. Heating System Consumption:	49	Therms

Number of Bedrooms: Building Type:	2 Walk-up	Unit Configuration: Number of Stories:	Bottom End 1
Window Type: Window Glazing: Window Fit: Window Area: Storm Windows: Window U-Value:	Single Hung Double Tight 162 sf No 0.06 Btu/hr-sf-F	Window Infiltration Rate: Window Heat Loss: Window Infiltration:	0.05 Btu/hr-sf-F 382 Btu/hr 324 Btu/hr
Door Fit:	Tight	Door Infiltration Rate:	0.07 Btu/hr-sf-F
Door Area:	20 sf	Door Heat Loss:	38 Btu/hr
Storm Doors:	No	Door Infiltration:	56 Btu/hr
Door U-Value:	0.05 Btu/hr-sf-F		
Exposed Floor Area:	1018 sf	Floor Heat Loss:	1222 Btu/hr
Floor U-Value:	0.03 Btu/hr-sf-F		
Exposed Ceiling Area: Ceiling U-Value:	1171 sf 0.03 Btu/hr-sf-F	Roof Heat Loss:	1405 Btu/hr
Exterior Wall Area: Wall U-Value:	461 sf 0.04 Btu/hr-sf-F	Wall Heat Loss	738 Btu/hr
System Efficiency:	80%	Total Unit Heat Loss Rate:	4165 Btu/hr
Standing Pilot?	No	Pilot Operating Hours:	8760 hrs/yr
		Pilot Consumption:	0 kBtu/yr
		Pilot Btu/hr:	500 Btu/hr
Heating Fuel: Heating System Fan?	Natural Gas Yes	Fan Operating Hours:	186 Hours
Fan Size:	400 Watts	Heating Degree Days	
Heating Output:	32300 Btu/hr	Heating Degree Days =	2666
		Design Temp. Diff.(F) =	40
		Correction Factor (CD) =	0.72

Fan Energy:		
Est. Heating System Consumption:	60	Therms

Number of Bedrooms: Building Type:	2 Walk-up	Unit Configuration: Number of Stories:	Bottom E	nd
Window Type: Window Glazing: Window Fit: Window Area: Storm Windows: Window U-Value:	Single Hung Double Tight 162 sf No 0.06 Btu/hr-sf-F	Window Infiltration Rate: Window Heat Loss: Window Infiltration:	382	Btu/hr-sf-F Btu/hr Btu/hr
Door Fit: Door Area:	Tight 20 sf	Door Infiltration Rate: Door Heat Loss:	38	Btu/hr-sf-F Btu/hr
Storm Doors: Door U-Value:	No 0.05 Btu/hr-sf-F	Door Infiltration:	56	Btu/hr
Exposed Floor Area: Floor U-Value:	1018 sf 0.03 Btu/hr-sf-F	Floor Heat Loss:	1222	Btu/hr
Exposed Ceiling Area: Ceiling U-Value:	1171 sf 0.03 Btu/hr-sf-F	Roof Heat Loss:	1405	Btu/hr
Exterior Wall Area: Wall U-Value:	663 sf 0.04 Btu/hr-sf-F	Wall Heat Loss	1061	Btu/hr
System Efficiency:	80%	Total Unit Heat Loss Rate:	4488	Btu/hr
Standing Pilot?	No	Pilot Operating Hours: Pilot Consumption: Pilot Btu/hr:		hrs/yr kBtu/yr Btu/hr
Heating Fuel: Heating System Fan?	Natural Gas Yes	Fan Operating Hours:	200	Hours
Fan Size:	400 Watts	Heating Degree Days		
Heating Output:	32300 Btu/hr	Heating Degree Days =	2666	
		Design Temp. Diff.(F) =	40	
		Correction Factor (CD) =	0.72	

Fan Energy:	80	kWh
Est. Heating System Consumption:	65	Therms

Number of Bedrooms: Building Type:	3 Walk-up	Unit Configuration: Number of Stories:	Bottom End 1	
Window Type: Window Glazing: Window Fit: Window Area: Storm Windows: Window U-Value:	Single Hung Double Tight 198 sf No 0.06 Btu/hr-sf-F	Window Infiltration Rate: Window Heat Loss: Window Infiltration:	0.05 Btu/hr-sf 467 Btu/hr 396 Btu/hr	-F
Door Fit: Door Area: Storm Doors: Door U-Value:	Tight 20 sf No 0.05 Btu/hr-sf-F	Door Infiltration Rate: Door Heat Loss: Door Infiltration:	0.07 Btu/hr-sf 38 Btu/hr 56 Btu/hr	:-F
Exposed Floor Area: Floor U-Value:	1255 sf 0.03 Btu/hr-sf-F	Floor Heat Loss:	1506 Btu/hr	
Exposed Ceiling Area: Ceiling U-Value:	1443 sf 0.03 Btu/hr-sf-F	Roof Heat Loss:	1732 Btu/hr	
Exterior Wall Area: Wall U-Value:	776 sf 0.04 Btu/hr-sf-F	Wall Heat Loss	1242 Btu/hr	
System Efficiency:	80%	Total Unit Heat Loss Rate:	5437 Btu/hr	
Standing Pilot?	No	Pilot Operating Hours: Pilot Consumption: Pilot Btu/hr:	8760 hrs/yr 0 kBtu/yr 500 Btu/hr	
Heating Fuel: Heating System Fan?	Natural Gas Yes	Fan Operating Hours:	181 Hours	
Fan Size:	400 Watts	Heating Degree Days		
Heating Output:	43200 Btu/hr	Heating Degree Days =	2666	
		Design Temp. Diff.(F) =	40	
		Correction Factor (CD) =	0.72	

Fan Energy:		
Est. Heating System Consumption:	78	Therms

Number of Bedrooms: Building Type:	4 Walk-up	Unit Configuration: Number of Stories:	Bottom End 1	i
Window Type: Window Glazing: Window Fit: Window Area: Storm Windows: Window U-Value:	Single Hung Double Tight 213 sf No 0.06 Btu/hr-sf-F	Window Infiltration Rate: Window Heat Loss: Window Infiltration:	0.05 Bt 503 Bt 426 Bt	
Door Fit:	Tight 20 sf	Door Infiltration Rate: Door Heat Loss:	0.07 Bt 38 Bt	tu/hr-sf-F
Door Area: Storm Doors: Door U-Value:	No 0.05 Btu/hr-sf-F	Door Infiltration:	56 Bi	
Exposed Floor Area: Floor U-Value:	1686 sf 0.03 Btu/hr-sf-F	Floor Heat Loss:	2023 Bi	tu/hr
Exposed Ceiling Area: Ceiling U-Value:	1939 sf 0.03 Btu/hr-sf-F	Roof Heat Loss:	2327 B	tu/hr
Exterior Wall Area: Wall U-Value:	906 sf 0.04 Btu/hr-sf-F	Wall Heat Loss	1450 B	tu/hr
System Efficiency:	80%	Total Unit Heat Loss Rate:	6823 B	tu/hr
Standing Pilot?	No	Pilot Operating Hours: Pilot Consumption: Pilot Btu/hr:	8760 hi 0 kl 500 B	Btu/yr
Heating Fuel: Heating System Fan?	Natural Gas Yes	Fan Operating Hours:	227 H	lours
Fan Size:	400 Watts	Heating Degree Days		
Heating Output:	43200 Btu/hr	Heating Degree Days =	2666	
		Design Temp. Diff.(F) =	40	
		Correction Factor (CD) =	0.72	

	91 kWh
Est. Heating System Consumption:	98 Therms

Bedrooms:

Description: Walk-up

Area Description	# fixtures	watts/fixture	hours/day	hours/year	kWh/year
basement					
bathroom	2	65	2	730	95
bedroom	1	26	2	730	19
closet					
dining room	1	39	2	730	28
hallway	1	13	1	365	5
kitchen	1	32	4	1,460	47
lamps	1	100	4	1,460	146
laundry	1	23	2	730	17
living room	1	26	4	1,460	38
pantry					
porch	2	13	5	1,825	47
stairs					
storage					
utility					
laundry living room pantry porch stairs storage	1	23 26	2 4	730 1,460	17 38

To	tal	kw	h n	er	un	it:
			P	•		

Bedrooms:

2

Description: Walk-up

# fixtures	watts/fixture	hours/day	hours/year	kWh/year
4	65	2	730	190
2	26	2	730	38
1	26	1	365	9
1	39	2	730	28
2	13	1	365	9
1	32	4	1,460	47
1	100	4	1,460	146
1	23	2	730	17
1	26	4	1,460	38
2	13	5	1,825	47
	4 2 1 1 2 1 1 1	4 65 2 26 1 26 1 39 2 13 1 32 1 100 1 23 1 26	4 65 2 2 26 2 1 26 1 1 39 2 2 13 1 1 32 4 1 100 4 1 23 2 1 26 4	4 65 2 730 2 26 2 730 1 26 1 365 1 39 2 730 2 13 1 365 1 32 4 1,460 1 100 4 1,460 1 23 2 730 1 26 4 1,460

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	UL	a:	L A	v	v	5 1	u	

Bedrooms:

Description: Walk-up

Area Description	# fixtures	watts/fixture	hours/day	hours/year	kWh/year
basement)		
bathroom	4	65	2	730	190
bedroom	3	26	2	730	57
closet	1	26	1	365	9
dining room	1	39	2	730	28
hallway	3	13	1	365	14
kitchen	1	32	4	1,460	47
lamps	1	100	4	1,460	146
laundry	1	23	2	730	17
living room	1	26	4	1,460	38
pantry					
porch	2	13	5	1,825	47
stairs					
storage					
utility					

T	١ta	kwt	n pei	rur	ıit•
	, La	L AA I			

Bedrooms:

Description: Walk-up

Area Description	# fixtures	watts/fixture	hours/day	hours/year	kWh/year
basement					
bathroom	4	65	2	730	190
bedroom	4	26	2	730	76
closet	1	26	1	365	9
dining room	1	39	2	730	28
hallway	3	13	1	365	14
kitchen	1	32	4	1,460	47
lamps	1	100	4	1,460	146
laundry	1	23	2	730	17
living room pantry	1	26	4	1,460	38
porch stairs storage utility	2	13	5	1,825	47

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Water/Sewer Tables

The Butte County Housing Authority is in the process of metering the units for water and sewer consumption. When this is completed, the following tables may be used to establish a water/sewer allowance for those metered units.

Gross Water Consumption:

Type	Occ	Toil	Shwr	Dish	Clths	Cook	Hand	Gal/Day	Gal/Yr_	Gal/Mo.
0 Bedroom	1.0	18	20	1.5	8	0.2	0.1	47	17228	1436
1 Bedroom	1.1	19	22	1.7	9	0.2	0.1	52	18951	1579
2 Bedroom	2.5	44	50	3.8	20	0.4	0.1	118	43070	3589
3 Bedroom	3.5	61	70	5.3	28	0.5	0.2	165	60298	5025
4 Bedroom	5.0	88	100	7.5	40	0.8	0.3	236	86140	7178
5 Bedroom	6.0	105	120	9.0	48	0.9	0.3	283	103368	8614
6 Bedroom	8.0	140	160	12.0	64	1.2	0.4	378	137824	11485

Gal Each % Hot Water

Toilet Flush:	3.5	0%	5	Flushes per person per day
Shower:	20	50%	1	Showers per person per day
Dishload:	3	25%	0.5	Dishloads per person per day
Laundry load:	40	50%	0.2	Clothesloads per person per day
Meal:	0.05	0%	3	Meals per person per day
Handwashing:	0.05	50%	10	Handwashings per person per day

Water & Sewer Tables

Bedroom Size	Consumption per Month (CCF)	Allowance per Month
0	1.9	\$40.99
1	2.1	\$41.19
2	4.8	\$43.80
3	6.7	\$45.63
4	9.6	\$48.44
5	11.5	\$50.38

Water & Sewage Rate Schedule

Base Charge: 37.29							
Energy Charge:							
First	10 CCF	\$0.92090					
31 Next	21 CCF	\$0.98680					
62 Next	31 CCF	\$1.05250					
152 Next	100 CCF	\$1.05250					
Cost Adjustment:		0					
Tax:		5%					





Cancelling

Revised Revised Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No. 32322-E 30549-E

ELECTRIC SCHEDULE EL-1 RESIDENTIAL CARE PROGRAM SERVICE

Sheet 1

APPLICABILITY:

This schedule is applicable to single-phase and polyphase residential service in singlefamily dwellings and in flats and apartments separately metered by PG&E (see Special Condition 3) and to all single-phase and polyphase farm service on the premises operated by the person whose residence is supplied through the same meter where the applicant qualifies for California Alternate Rates for Energy (CARE) under the eligibility and certification criteria set forth in Rule 19.1, 19.2, or 19.3.

The provisions of Schedule S-Standby Service Special Conditions 1 through 6 shall also apply to customers whose premises are regularly supplied in part (but not in whole) by electric energy from a nonutility source of supply. These customers will pay monthly reservation charges as specified under Section 1 of Schedule S, in addition to all applicable Schedule EL-1 charges. See Special Conditions 11 and 12 of this rate schedule for exemptions to standby charges.

TERRITORY:

The entire territory served.

RATES:

Total bundled service charges are calculated using the total rates below. Bundled service customers are billed the greater of the total minimum charge or the otherwise applicable total charge derived from total energy rates.

Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

TOTAL RATES

Total Energy Rates (\$ per kWh) Baseline Usage 101% to 130% of Baseline Over 130% of Baseline

\$0.08316 \$0.09563 \$0.13974

(1)

Total Minimum Charge Rate (\$ per meter per day)

\$0.11828

The Rules referred to in this schedule are part of PG&E's electric tariffs. Copies are available at PG&E's local offices and website at http://www.pge.com/tariffs

(Continued)

Advice Letter No: Decision No.

4096-E-A E-4548

Issued by Brian K. Cherry Vice President

Date Filed Effective Resolution No. December 31, 2012 January 1, 2013

Cancelling

Revised Revised Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No. 30428-E 27787-E

ELECTRIC SCHEDULE EL-1 RESIDENTIAL CARE PROGRAM SERVICE

Sheet 3

SPECIAL CONDITIONS:

- BASELINE RATES: PG&E may require the customer to complete and file with it a Declaration of Eligibility for Baseline Quantities for Residential Rates.
- 2. BASELINE (TIER 1): The following quantities of electricity are to be billed at the rate for baseline use:

BASELINE QUANTITIES (kWh PER DAY)

	Brozenie gorii i i i z i z i z i z i							
	Code B - Basic Quantities				Code H - All-Electric Quantities			
Baseline	Summer		Winter		Summer		Winter	_
Territory*	Tier I		Tier I		Tier I		Tier I	-
Р	15.3	(C)	12.7	(C)	18.0	(C)	33.9	(C)
Q	7.5	1	11.7	ì	9.1	Ìί	19.3	Ì
R	17.1	1	11.7	l	20.9	1	30.2	- 1
S	15.3	1	12.0	1	18.0	1	28.6	I
Т	7.5	1	9.1	i	9.1	1	16.8	Ĺ
V	12.0	i	13.6	ı	19.4	ĺ	33.4	i
W	18.5	1	10.9	ŀ	23.5	1	22.8	i
Х	11.0	I	11.7	Ī	10.3	i	19.3	i
Υ	11.7	1	13.2	ı	14.1	Ì	30.7	i
Ž	7.9	(C)	10.6	(C)	11.2	(Ċ)	22.5	(C)

- ANNUAL CONTRACT: For customers who use service for only part of the year, this schedule is applicable only on an annual contract.
- ALL-ELECTRIC QUANTITIES (Code H): All-electric quantities are applicable to service to customers with permanently installed electric heating as the primary heat source. All-electric quantities are also applicable to service to customers of record as of November 15, 1984, to whom the former Code W (Basic plus Water Heating) lifeline allowance was applicable on May 15, 1984, and who thereafter maintain continuous service at the same location under this schedule.

If more than one electric meter serves a residential dwelling unit, the all-electric quantities, if applicable, will be allocated only to the primary meter.

(Continued)

Advice Letter No: Decision No.

3856-E

11-05-047

Issued by Brian K. Cherry Vice President Regulation and Rates Date Filed Effective Resolution No.

June 8, 2011 June 20, 2011

The applicable baseline territory is described in Part A of the Preliminary Statement.

Cancelling R

Revised Revised Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No.

32324-E 31772-E

ELECTRIC SCHEDULE EL-1 RESIDENTIAL CARE PROGRAM SERVICE

Sheet 5

SPECIAL CONDITIONS: (Cont'd.)

9. BILLING (Cont'd.):

DA / CCA CRS

Energy Cost Recovery Amount Charge (per kWh) (\$0.00019) (R) \$0.00000 DWR Bond Charge (per kWh) CTC Charge (per kWh) \$0.00380 (I) Power Charge Indifference Adjustment (per kWh) Pre-2009 Vintage (\$0.00376) (R) 2009 Vintage \$0.00647 (R) \$0.00730 (R) 2010 Vintage \$0.00648 (R) 2011 Vintage 2012 Vintage \$0.00607 (R) \$0.00607 (N) (N) 2013 Vintage

- 10. SOLAR GENERATION FACILITIES EXEMPTION: Customers who utilize solar generating facilities which are less than or equal to one megawatt to serve load and who do not sell power or make more than incidental export of power into PG&E's power grid and who have not elected service under Schedule NEM, will be exempt from paying the otherwise applicable standby reservation charges.
- 11. DISTRIBUTED ENERGY RESOURCES EXEMPTION: Any customer under a time-of-use rate schedule using electric generation technology that meets the criteria as defined in Electric Rule 1 for Distributed Energy Resources is exempt from the otherwise applicable standby reservation charges. Customers qualifying for this exemption shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must transfer to a time-of-use rate, to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge exemption must participate in the real-time program referred to above. Qualification for and receipt of this distributed energy resources exemption does not exempt the customer from metering charges applicable to time-of-use (TOU) and real-time pricing, or exempt the customer from reasonable interconnection charges, non-bypassable charges as required in Preliminary Statement BB - Competition Transition Charge Responsibility for All Customers and CTC Procurement, or obligations determined by the Commission to result from participation in the purchase of power through the California Department of Water Resources, as provided in PU Code Section 353.7.
- 12. DWR BOND CHARGE: The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts.

Advice Letter No: Decision No. 4096-E-A E-4548 Issued by **Brian K. Cherry** Vice President Regulatory Relations Date Filed Effective Resolution No.

December 31, 2012 January 1, 2013



Cancelling

Revised Revised

Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No. 30535-G 30494-G

GAS SCHEDULE GL-1 RESIDENTIAL CARE PROGRAM SERVICE

Sheet 1

APPLICABILITY:

This rate schedule* applies to natural gas service to Core End-Use Customers on PG&E's Transmission and Distribution Systems. To qualify, service must be to individually-metered single family premises for residential use, including those in a multifamily complex, where the applicant qualifies for California Alternate Rates for Energy (CARE) under the eligibility and certification criteria

set forth in Rules 19.1, 19.2, or 19.3.

TERRITORY:

Schedule GL-1 applies everywhere within PG&E's natural gas Service Territory.

RATES:

Customers on this schedule pay a Procurement Charge and a Transportation Charge, per meter. Qualifying CARE Core End-Use Customers receive a CARE Discount, which applies to both procurement and transportation charges.

Per Therm

	<u>Baseline</u>		<u>Excess</u>	
Procurement Charge:	\$0.47255	(R)	\$0.47255	(R)
Transportation Charge:	\$0.52817		\$0.84507	
CSI- Solar Thermal Exemption	(\$0.00157)		(\$0.00157)	
CARE Discount:	(\$0.19983)	(1)	(\$0.26321)	(1)
Total:	\$0.79932	(R)	\$1.05284	(R)

,04370 Public Purpose Program Surcharge:

Customers served under this schedule are subject to a gas Public Purpose Program (PPP) Surcharge under Schedule G-PPPS.

See Preliminary Statement, Part B for the Default Tariff Rate Components.

The Procurement Charge on this schedule is equivalent to the rate shown on informational Schedule G-CP—Gas Procurement Service to Core End-Use Customers.

(Continued)

Advice Letter No: Decision No.

3392-G 97-10-065

Issued by Brian K. Cherry Vice President Regulatory Relations Date Filed Effective Resolution No.

June 24, 2013 July 1, 2013

PG&E's gas tariff's are available online at www.pge.com.

Revised Cancelling Revised Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No.

30052-G 29343-G*

Sheet 1

GAS SCHEDULE G-PPPS GAS PUBLIC PURPOSE PROGRAM SURCHARGE

APPLICABILITY:

Pursuant to Public Utility (PU) Code Sections 890-900, this schedule applies a gas Public Purpose Program (PPP) surcharge to gas transportation volumes under the rate schedules* specified below. The gas PPP surcharge is collected to fund gas energy efficiency and low-income energy efficiency programs, the California Alternate Rates for Energy (CARE) low-income assistant program, and public interest research and development. Under PU Code Section 896, certain customers are exempt from the gas PPP surcharge as described in the Exempt Customer section, below.

TERRITORY:

This rate applies everywhere within PG&E's natural gas Service Territory.

RATES:

The following surcharges apply to natural gas service for eligible Core and Noncore End-Use Customers.

	Per Therm		
Customer Class (Rate Schedule)	Non-CARE	CARE	
Residential: (G-1, G1-NGV, GM, GS, GT, GL-1, GL1-NGV, GML, GSL, GTL)	\$0.06551 (R)	\$0.04370 (R)	
Small Commercial (G-NR1)	\$0.03878 (R)	\$0.01697 (R)	
Large Commercial (G-NR2)	\$0.07137 (R)	\$0.04956 (R)	
Industrial: (G-NT—Distribution)	\$0.03568 (R)	N/A	
Industrial: (G-NT—Transmission/ Backbone)	\$0.02990 (R)	N/A	
Natural Gas Vehicle (G-NGV1, G-NGV2, G-NGV4)	\$0.02408 (R)	N/A	
Liquid Natural Gas (G-LNG)	\$0.02408 (R)	N/A	

EXEMPT CUSTOMERS:

In accordance with PU Code Section 896, certain customers are exempt from Schedule G-PPPS. These include:

- a. All gas consumed by customer's served under Schedules G-EG and G-WSL:
- b. All gas consumed by Enhanced Oil Recovery (EOR) facilities;
- c. All gas consumed by customers in which the State of California is prohibited from taxing under the United States Constitution or the California Constitution, consistent with California Energy Resources Surcharge Regulations 2315 and 2316, as described in Publication No. 11 issued by the California State Board of Equalization (BOE), which include:
 - 1. The United States, its unincorporated agencies and instrumentalities;
 - Any incorporated agency of instrumentality of the United States wholly owned by either the United States or by a corporation wholly owned by the United States;
 - 3. The American National Red Cross, its chapters and branches;
 - Insurance companies, including title insurance companies, subject to taxation under California Constitution, Article XIII, Section 28, or it successor;

(Continued)

Advice Letter No: Decision No.

3337-G-A 04-08-010 Issued by
Brian K. Cherry
Vice President
Regulatory Relations

Date Filed Effective Resolution No.

November 16, 2012 January 1, 2013

Cal. P.U.C. Sheet No.

10015-W

Canceling Revised

Cal. P.U.C. Sheet No.

9892-W

Schedule No. CH-1-R <u>Chico-Hamilton City Tariff Area</u> <u>RESIDENTIAL METERED SERVICE</u>

This tariff was approved by the California Public Utilities Commission. Original stamped versions are available upon request

APPLICABILITY

Applicable to all metered water service provided to single-family residential customers.

TERRITORY

Chico and vicinity, Butte County, and Hamilton City and vicinity, Glenn County.

RATES

Quantity Rates:

For the first 1,000 cubic feet, per 100 cubic feet	\$0.9209
For the next 2,100 cubic feet, per 100 cubic feet	0.9868
For all over 3,100 cubic feet, per 100 cubic feet.	1.0525

Per Meter Per Month Service Charge: \$14.55 21.83 36.38 For 1 - inch meter 72.75 For 2 - inch meter 116.40 For 3 - inch meter 218.26 363.76 For 4 - inch meter 663.37 1,013.15 For 8 - inch meter 1,673.30 2,400.83 3,273.85

The service charge is a readiness-to-serve charge which is applicable to all metered service and to which is added the charge for water used computed at the quantity rates.

SPECIAL CONDITIONS

- 1. All bills are subject to the reimbursement fees set forth on Schedule UF.
- 2. All bills are subject to any applicable surcharges/surcredits on Schedules RSF, LIRA-SC and AS.

(T)

- Qualifying low-income individually metered residential customers are eligible for credits as shown on Schedule L1RA.
- 4. A capital infrastructure surcharge of \$0.0120 per 100 Cu. Ft. of water used is to be applied to the quantity rates, beginning December 20, 2010, the effective date of Advice Letter 2014, as authorized in Decision 08-07-008.

(D)

- A WRAM-MCBA true-up surcharge of \$0.1283 per 100 cu. ft. of water used is to be applied to the quantity rates for 18 months beginning May 3, 2012, the effective date of Advice Letter 2073-B.
- An expense adjustment surcredit of \$0.0109 per 100 Cu. Ft. of water used is to be applied to the quantity rates for 12 months, beginning July 1, 2012, the effective date of Advice Letter 2075, as authorized in Decision 10-12-017.
- 7. A Temporary Interest Rate Balancing Account surcredit of \$0.20 per service per month will be applied to each bill for 12 months, beginning August 31, 2012, the effective date of Advice Letter 2084.
- 8. A Water Cost of Capital Memorandum Account surcredit of \$0.33 per service per month will be applied to each bill for 12 months, beginning September 1, 2012, the effective date of Advice Letter 2085.
- A WRAM-MCBA true-up surcharge of \$0.1003 per 100 cu. ft. of water used is to be applied to the quantity rates for 12 months beginning March 15, 2013, the effective date of Advice Letter 2097.

(To be inserted by utility)

Issued by

(To be inserted by Cal. P.U.C.)

Advice Letter No. 2105

Decision No. 13-02-026

PAUL G. TOWNSLEY
NAME
Vice President

Date Filed March 29, 2013

Effective May 1, 2013

Resolution No. _____

chico

RE: Public Hearing re: Increase in Sewer Service Rates

Meeting Date: June 7, 2011

Page 2

,	Current	FY 11-12	FY 12-13	FY 13-14
Fixed Rate Payments				
City Residential	\$16.75	\$20.44	\$22.08	\$22.74
Non-Residential	\$16.75	\$20.44	\$22.08	\$22.74
County Residential	\$17.44	\$21.28	\$22.98	\$23.67
Variable Rate Payments (CCF's)			<u> </u>	
Restaurants	\$4.33	\$5.28	\$5.70	\$5.87
Markets & Bakeries	\$4.33	\$5.28	\$5.70	\$5.87
Car Washes	\$2.16	\$2.64	\$2.85	\$2.94
Other Commercial	\$2.00	\$2.44	\$2.63	\$2.71
Public Authority	\$2.00	\$2.44	\$2.63	\$2.71
Brewery	\$6.43	\$7.84	\$8.47	\$8.72

PUBLIC CONTACT:

Notification of tonight's public hearing was mailed to approximately 19,100 sewer customers on April 19, 2011.

Reviewed by:

Fritz McKinley, Building & Development Services Director

Approved by:

David Burkland, City Manager

DISTRIBUTION:

City Clerk (18)
BDSD McKinley
GSDD Martinez
FD Hennessy
PM Hansen
WWTP Manager Sulik
AM Fields
Tamara Miller, MPM Engineering

ATTACHMENTS:

Public Hearing Notice

FILE: Sewer Service Rate Increase 2011

Trash Collection - 07/15/13

Northern Recycling and Waste Mgmt	Phone
Paradise	876-3340
35gal trash \$23.66/mo	
65gal trash \$30.75/mo	
95gal trash \$34.30/mo	
Residential Services are billed quarterly.	
Magalia	
35gal trash \$20.55/mo	
65gal trash \$27.05/mo	
95gal trash \$30.25/mo	

North Valley Waste Mgmt	893-4777
Cridley	
Gridley 35gal trash \$18.80/mo	18.8
	10.0 21.8
64gal trash \$21.80/mo	21.0 25.5
96gal trash \$25.50/mo	25.5
Chico	
35gal trash \$12.15/mo	12.15
64gal trash \$19.45/mo	19.45
96gal trash \$24.55/mo	24.55
Oroville	
35gal trash \$18.97/mo	18.97
64gal trash \$22.84/mo	22.84
96gal trash \$25.62/mo	25.62
Butte County	
35gal trash \$14.95/mo	14.95
64gal trash \$17.22/mo	17.22
96gal trash \$18.54/mo	18.54
Orland - City	
64gal trash \$18.44/mo	18.44
96gal trash \$26.31/mo	26.31
Orland - County	:
32gal trash \$23.33/mo	23.33
64gal trash \$25.33/mo	25.33
96gal trash \$35.41/mo	35.41
Willows - City	
64gal trash \$18.44/mo	18.44
96gal trash \$26.31/mo	26.31
Glenn Cty	
32gal trash \$23.33/mo	23.33
64gal trash \$25.33/mo	25.33
96gal trash \$35.41/mo	35.41

Recology	Phone
	533-4783
Oroville (City)	
32gal trash \$19.04/mo	
64gal trash \$24.87/mo	
96gal trash \$26.40/mo	
Chico	
32gal trash \$15.70/mo	
64gal trash \$23.20/mo	
96gal trash \$28.42/mo	
Magalia	
32gal trash \$25.01/mo	
64gal trash \$27.96/mo	
96gal trash \$29.39/mo	
Kelly Ridge/Thermalito	
32gal trash \$25.65/mo	
64gal trash \$29.92/mo	
96gal trash \$31.33/mo	
Outer County Areas - ex. F	Berry Creek
32gal trash \$35.78/mo	•
64gal trash \$37.17/mo	
96gal trash \$38.59/mo	

CITY OF GRIDLEY

MASTER FEE SCHEDULE

1	GENERAL	3
2	ADMINISTRATION	
3	(RESERVED)	
4	(RESERVED)	
5	BUSINESS TAXES, LICENSES, REGULATORY FEES Business license fees Business Improvement District	4 5 6
6	ANIMALS	7
7	(RESERVED)	
8	HEALTH AND SAFETY Garbage Fire Department Fees	9 9 13
9	PUBLIC PEACE, MORALS AND WELFARE Boat ramp / shooting range Police, non-vehicle related	16 17 17
10	VEHICLES AND TRAFFIC Bicycle Parking violations	18 18 19
11	(RESERVED)	
12	STREETS, SIDEWALKS AND PUBLIC PLACES	
13	PUBLIC SERVICES Sewer Water Electric Drainage	20 20 22 23 26
14	DEVELOPMENT IMPACT FEES	
15	BUILDINGS AND CONSTRUCTION	27
16	SUBDIVISIONS	33
17	ZONING	34

TITLE 8. HEALTH AND SAFETY

GARBAGE COLLECTION Ord 465(85); GMC 8.04.070; R2(99); 2000-R-066; 2001-<u>A.</u> R-037; 2002-R-001; 2002-R-007; 2002-R-073; 2003-R-048; 2004-R-063; 2005-R-047; 2006-R-030; 2007-R-042

Dag	idan	+:~1	Cart	Rates:	
Kes	Inen	บเลเ	Carr.	KAIPS.	

Solid Waste Cart/Toter Size	Monthly Rate
35 gallon cart/toter	\$ 22.33
64 gallon cart/toter	33.46
95 gallon cart/toter	44.62
One (1) 64 gallon recycling cart/toter and one (1) 90 gallon yard basic residential cart/toter rates above.	waste cart/toter are included in the
basic residential cart/toter rates above.	
basic residential cart/toter rates above. Additional cart/toters can be requested by existing household ref	fuse collection customers as follows:

Residential service is defined as service to individual residential units where there are less than 5 residential units per property. There must be a minimum of one (1) cart/toter per unit. Due to the space requirements, residential complexes of more than four residential units must use the commercial (bin) service at the level of service determined by the City's franchisee. Residential complexes are eligible to have recycling cart/totes and yard waste cart/totes if requested. The level of service of recycling and yard waste carts/totes is at the discretion of the City's solid waste franchisee.

Commercial C	art Rates: Monthly
Solid Waste Cart/Toter Size	Rate
35 gallon cart/toter	\$ 25.28
64 gallon cart/toter	36.97
95 gallon cart/toter	63.94
One (1) 64 gallon recycling cart/toter is included in the background Additional cart/toters can be requested by existing hous	
The months of the second of th	and relace concentrationers as follows.
35 gallon cart/toter	\$ 20.87
	Ψ 2U.07

TITLE 13. PUBLIC SERVICES

A. SEWER

Sewer System Capacity Fee (660-3641)

Residential and Commercial Fee superseded by Development Impact Fees – Sewer – under Title 14 Please see Title 14 for Development Impact Fees in lieu of Capacity Fees

O727-2004	13.08.010	Commercial	minimum fee	See Title 14	
		Industrial	plus	\$ 17.78 **	F.U.
		**Determined by City E	ngineer		
Sewer System	Collector Fe	e (650-3641)			
O727-2004	13.08.020	Single-family unit		\$1,650*	
		Mobile home		\$1,650*	
		Multiple unit (apartment	- per unit)	\$1,650*	
		Commercial	minimum fee	\$1,650*	
			plus	\$ 17.78	F.U.
		Industrial	-	**	
		**Determined by City E	ngineer		
Sewer System	Lateral Fee	(650-3641)			
O727-2004	13.08.030	4" and 6" service		\$1,725*	All dwelling unit, commercial, and industrial connections

Sewer System <u>Usage</u> Charges (Res 2008-R-051; Ord 780-2008) Increases remain proportional to rate schedule established for Clean Water Grant by R72(78)

User Classification		<u>Charge</u>	
Single family residential		\$ 37.96	
Multi-family residential	per unit	33.53	
Hotels & Motels	per unit	117.97	
ВСНА	per unit	42.04	
Retail & Commercial		46.67	

O681(98)	13.06.050	Industrial wastewater permits	none
		Monitoring	none
		Violation response	none
		Appeals	none

Other fees and service charges:

Credit Report	\$7.50
On-site delivery of a termination notification	50.00
Field collection fee	50.00
Final termination notice	50.00
15-day delinquency notice: Residential	15.00
15-day delinquency notice: Commercial	15.00
Collection agency fee for delivery	15.00
Return check charge	25.00 plus
Return EFT charge (if applicable)	10.00

B. WATER SYSTEM

Water System <u>Usage</u> Charges (Res 2006-R-002; Ord 759-2006)

Classification		Charge		
Usage fee - metered rate per 1,000 gallons	\$	0.87		
Monthly meter fee				
Up to 1" meters	\$	24.99		
1.5" meters		37.48		
2" meters		49.97		
3" meters		74.95		
4" meters		99.93		
Over 4" meters		124.92		
Flat rate - without a dedicated meter	\$	59.18		
Bulk water - with building permit - up to 5 mos		114.89		
Fire hydrant use - unmetered - hookup fee		24.99		
Fire hydrant use - metered - deposit		976.60		
Fire hydrant use - metered - rental per month		24.99		
Fire hydrant use - usage per 1,000 gallons		0.97		
Fire line for sprinklers	•	-		

2009-R-047	13.15.030	Domestic (residential) rate: (applies to ea. unit in any group - apt., Customer charge Energy charge: (Life line) to 475 KWh 476 to 575 KWh 576 to 1800 KWh 1801 to 2000 KWh 2001 KWH and over Public Benefit Charge California Energy Commission up to Life Support Program (residential) rate: Customer charge	Effective duplex, \$ 10.50 \$ 0.128 \$ 0.172 \$ 0.226 \$ 0.238 \$ 0.261 2.85% \$+ 0.0003	of charges per KWh 12-01-09
2009-R-047	13.15.030	Energy charge (Life line) to 475 KWh 476 to 575 KWh 576 to 1425 KWh 1426 KWh and over Public Benefit Charge California Energy Commission up to	\$ 0.095 \$ 0.148 \$ 0.208 \$ 0.230 2.85% \$+ 0.0003	min/month per KWh per KWh per KWh per KWh of charges
		(must meet eligibility requirements) General (commercial) rate:		per KWh
Requirements:		No demand meter: Customer charge Energy charge to 625 KWh 626 to 2500 KWh 2501 to 2675 KWh 2676 to 7500 KWh 7501 to 10000 KWh 10000 KWh and over Public Benefit Charge California Energy Commission up to Single phase meter-all usages 4-phase - less than 25,000 KWH annual usage	Effective \$ 21.80 \$ 0.134 \$ 0.162 \$ 0.163 \$ 0.176 \$ 0.185 \$ 0.215 2.85% \$+ 0.0003	12-01-09 min/month per KWh per KWh per KWh per KWH per KWH of charges per KWh
Requirements: 2009-R-047	13.15.030	Demand (commercial) meter rate: Customer charge Energy charge to 10,000 KWh 10,001 KWh and over Demand charge per KW over 30KW Public Benefit Charge California Energy Commission up to 3-Phase meter/more than 25,000 KWH annual usage	\$ 46.80 \$ 0.174 \$ 0.140 \$ 7.50 2.85% \$+ 0.0003	12-01-09 min/month per KWh per KWh of charges per KWh
Requirements:		Industrial rates: Customer charge Energy charge Demand charge per KW over 100KW Public Benefit Charge California Energy Commission up to 3-Phase meter - more than 25,000 kWh annual usage; and Average monthly demand greater than	Effective \$ 150.00 \$ 0.115 \$ 5.25 2.85% \$+ 0.0003	12-01-09 min/month per KWh per KW of charges per KWh