

PACIFIC GAS AND ELECTRIC COMPANY

APPENDIX A -1

**ILLUSTRATIVE RATES ASSUMING 2.1% GROWTH IN REVENUE
REQUIREMENT AND 50% BASELINE QUANTITIES**

Appendix A-1: Illustrative Rates Assuming 2.1% Growth in Revenue Requirement and 50% Baseline Quantities

E-1 Rates	Summer 2014	2015	2016	2017	2018	EL-1 Rates	Summer 2014	2015	2016	2017	2018
Tier 1	\$0.147	\$0.147	\$0.147	\$0.162	\$0.177	Tier 1	\$0.091	\$0.097	\$0.103	\$0.112	\$0.121
Tier 2	\$0.170	\$0.202	\$0.202	\$0.202	\$0.212	Tier 2	\$0.104	\$0.118	\$0.124	\$0.136	\$0.145
Tier 3	\$0.249	\$0.202	\$0.202	\$0.202	\$0.212	Tier 3	\$0.148	\$0.118	\$0.124	\$0.136	\$0.145
Tier 4	\$0.309	\$0.304	\$0.274	\$0.245	\$0.212	Tier 4	\$0.148	\$0.148	\$0.148	\$0.148	\$0.145
Customer Charge	\$0.00	\$5.00	\$10.00	\$10.21	\$10.42	Customer Charge	\$0.00	\$2.50	\$5.00	\$5.11	\$5.21
E-6 Rates	Summer 2014	2015	2016	2017	2018	EL-6 Rates	Summer 2014	2015	2016	2017	2018
Summer Peak						Summer Peak					
Tier 1	\$0.307	\$0.275				Tier 1	\$0.208	\$0.225			
Tier 2	\$0.330	\$0.330				Tier 2	\$0.222	\$0.246			
Tier 3	\$0.408	\$0.330				Tier 3	\$0.318	\$0.246			
Tier 4	\$0.468	\$0.432				Tier 4	\$0.318	\$0.276			
Summer Part-Peak						Summer Part-Peak					
Tier 1	\$0.191	\$0.182				Tier 1	\$0.123	\$0.132			
Tier 2	\$0.215	\$0.237				Tier 2	\$0.138	\$0.153			
Tier 3	\$0.293	\$0.237				Tier 3	\$0.195	\$0.153			
Tier 4	\$0.353	\$0.339				Tier 4	\$0.195	\$0.183			
Summer Off-Peak						Summer Off-Peak					
Tier 1	\$0.115	\$0.122				Tier 1	\$0.067	\$0.072			
Tier 2	\$0.138	\$0.177				Tier 2	\$0.081	\$0.093			
Tier 3	\$0.216	\$0.177	PG&E Proposes Closing Schedule			Tier 3	\$0.113	\$0.093	PG&E Proposes Closing Schedule		
Tier 4	\$0.276	\$0.279		in 2016		Tier 4	\$0.113	\$0.123		in 2016	
Winter Part-Peak						Winter Part-Peak					
Tier 1	\$0.136	\$0.139				Tier 1	\$0.082	\$0.089			
Tier 2	\$0.159	\$0.194				Tier 2	\$0.097	\$0.110			
Tier 3	\$0.237	\$0.194				Tier 3	\$0.136	\$0.110			
Tier 4	\$0.297	\$0.296				Tier 4	\$0.136	\$0.140			
Winter Off-Peak						Winter Off-Peak					
Tier 1	\$0.119	\$0.125				Tier 1	\$0.070	\$0.074			
Tier 2	\$0.142	\$0.180				Tier 2	\$0.085	\$0.095			
Tier 3	\$0.220	\$0.180				Tier 3	\$0.118	\$0.095			
Tier 4	\$0.280	\$0.282				Tier 4	\$0.118	\$0.126			
Customer Charge	\$0.00	\$5.00				Customer Charge	\$0.00	\$2.50			

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E-7 Rates	Summer 2014	2015	2016	2017	2018	EL-7 Rates	Summer 2014	2015	2016	2017	2018
Summer Peak						Summer Peak					
Tier 1	\$0.343	\$0.284				Tier 1	\$0.281	\$0.234			
Tier 2	\$0.367	\$0.339				Tier 2	\$0.298	\$0.255			
Tier 3	\$0.446	\$0.339				Tier 3	\$0.425	\$0.255			
Tier 4	\$0.506	\$0.441				Tier 4	\$0.425	\$0.285			
Summer Off-Peak						Summer Off-Peak					
Tier 1	\$0.095	\$0.138				Tier 1	\$0.068	\$0.088			
Tier 2	\$0.119	\$0.193				Tier 2	\$0.085	\$0.109			
Tier 3	\$0.198	\$0.193				Tier 3	\$0.115	\$0.109			
Tier 4	\$0.258	\$0.295				Tier 4	\$0.115	\$0.139			
Winter Peak			PG&E Proposes Closing Schedule			Winter Part-Peak			PG&E Proposes Closing Schedule		
Tier 1	\$0.128	\$0.136		in 2016		Tier 1	\$0.097	\$0.086		in 2016	
Tier 2	\$0.152	\$0.191				Tier 2	\$0.114	\$0.107			
Tier 3	\$0.231	\$0.191				Tier 3	\$0.157	\$0.107			
Tier 4	\$0.291	\$0.293				Tier 4	\$0.157	\$0.137			
Winter Off-Peak						Winter Off-Peak					
Tier 1	\$0.098	\$0.124				Tier 1	\$0.071	\$0.074			
Tier 2	\$0.122	\$0.180				Tier 2	\$0.088	\$0.095			
Tier 3	\$0.201	\$0.180				Tier 3	\$0.119	\$0.095			
Tier 4	\$0.261	\$0.281				Tier 4	\$0.119	\$0.125			
Customer Charge	\$0.00	\$5.00				Customer Charge	\$0.00	\$2.50			
E-8 Rates	Summer 2014	2015	2016	2017	2018	EL-8 Rates	Summer 2014	2015	2016	2017	2018
Summer						Summer					
Tier 1	\$0.152	\$0.161				Tier 1	\$0.094	\$0.117			
Tier 2	\$0.156	\$0.216				Tier 2	\$0.095	\$0.138			
Tier 3	\$0.235	\$0.216				Tier 3	\$0.153	\$0.138			
Tier 4	\$0.295	\$0.318				Tier 4	\$0.153	\$0.168			
Winter			PG&E Proposes Closing Schedule			Winter			PG&E Proposes Closing Schedule		
Tier 1	\$0.101	\$0.126		in 2016		Tier 1	\$0.059	\$0.076		in 2016	
Tier 2	\$0.106	\$0.181				Tier 2	\$0.060	\$0.097			
Tier 3	\$0.184	\$0.181				Tier 3	\$0.102	\$0.097			
Tier 4	\$0.244	\$0.283				Tier 4	\$0.102	\$0.127			
Customer Charge	\$12.53	\$12.53				Customer Charge	\$10.02	\$10.020			

E-TOU Rates	Summer 2014	2015	2016	2017	2018	E-TOU CARE Rates	Summer 2014	2015	2016	2017	2018
Summer						Summer					
On-Peak			0.314	0.316	0.321	On-Peak			0.204	0.205	0.209
Off-Peak			0.177	0.179	0.184	Off-Peak			0.115	0.117	0.120
Winter						Winter					
On-Peak			0.178	0.180	0.185	On-Peak			0.116	0.117	0.120
Off-Peak			0.164	0.166	0.171	Off-Peak			0.106	0.108	0.111
Customer Charge			\$10.00	\$10.21	\$10.42	Customer Charge			\$5.00	\$5.11	\$5.21

PACIFIC GAS AND ELECTRIC COMPANY

APPENDIX A -2

**CARE EFFECTIVE DISCOUNT ASSUMING 2.1% GROWTH IN
REVENUE REQUIREMENT AND 50% BASELINE QUANTITIES**

No of Customers	Non-CARE	Non-CARE Pct of Customers	CARE	CARE Pct of Customers	Total	Total Pct of Customers
Tier 1	1,213,962	36%	551,029	43%	1,764,992	38%
Tier 2	530,917	16%	237,328	19%	768,244	17%
Tier 3	1,000,480	30%	345,568	27%	1,346,047	29%
Tier 4	608,190	18%	134,106	11%	742,297	16%
Total	3,353,549	100%	1,268,031	100%	4,621,580	100%
Customer Months	41,554,094		14,119,521		55,673,615	

Billing Determinants (kWh) with 50% Baseline Quantity	Non-CARE	Non-CARE Pct of Sales	CARE	CARE Pct of Sales	Total	Total Pct of Sales
Tier 1	12,405,329,836	53%	4,502,204,186	59%	16,907,534,022	54%
Tier 2	2,529,969,079	11%	843,648,428	11%	3,373,617,506	11%
Tier 3	3,997,009,265	17%	1,192,663,424	16%	5,189,672,689	17%
Tier 4	4,628,745,597	20%	1,057,709,208	14%	5,686,454,805	18%
Total	23,561,053,776	100%	7,596,225,247	100%	31,157,279,023	100%

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Scenario 3.2	Assuming 2.1% Growth in Revenue Requirement and 50% Baseline Quantities				
	Summer 2014	Jan 2015	Jan 2016	Jan 2017	Jan 2018
Non-CARE					
Minimum Bill Amount (\$/mo)	\$4.50	\$0.00	\$0.00	\$0.00	\$0.00
Basic Service Fee (\$/mo)	\$0.00	\$5.00	\$10.00	\$10.21	\$10.42
T-1 Rate (\$/kWh)	\$0.14707	\$0.14707	\$0.14707	\$0.16178	\$0.17672
T-2 Rate (\$/kWh)	\$0.17028	\$0.20258	\$0.20258	\$0.20241	\$0.21206
T-2' Rate (\$/kWh)	\$0.24918	\$0.20258	\$0.20258	\$0.20241	\$0.21206
T-3 Rate (\$/kWh)	\$0.30918	\$0.30418	\$0.27428	\$0.24504	\$0.21206
CARE					
Minimum Bill Amount	\$3.60	\$0.00	\$0.00	\$0.00	\$0.00
Basic Service Fee (\$/mo)	\$0.00	\$2.50	\$5.00	\$5.11	\$5.21
T-1 Rate (\$/kWh)	\$0.09072	\$0.09700	\$0.10300	\$0.11200	\$0.12106
T-2 Rate (\$/kWh)	\$0.10433	\$0.11800	\$0.12400	\$0.13600	\$0.14527
T-2' Rate (\$/kWh)	\$0.14802	\$0.11800	\$0.12400	\$0.13600	\$0.14527
T-3 Rate (\$/kWh)	\$0.14802	\$0.14802	\$0.14802	\$0.14802	\$0.14527
CARE Discount Estimates					
CARE Revenue Collection at Non-CARE Rates	1,430,006,029	1,466,986,819	1,505,958,921	1,543,877,854	1,598,873,044
Total CARE Revenue Collection	829,557,961	868,859,525	943,389,425	1,009,827,555	1,068,067,985
CARE Discount (\$)	600,448,068	598,127,294	562,569,496	534,050,299	530,805,059
Effective CARE Discount	44%	43%	39%	36%	35%

Appendix A-2: CARE Effective Discount Assuming 2.1% Growth in Revenue Requirement and 50% Baseline Quantities

PACIFIC GAS AND ELECTRIC COMPANY
APPENDIX A-3
YEAR-TO-YEAR BILL COMPARISON USING PG&E'S
STANDARD FORMAT: AT ILLUSTRATIVE RATES ASSUMING
2.1% GROWTH IN REVENUE REQUIREMENT AND 50%
BASELINE QUANTITIES

RATE DATA ANALYSIS

Total Annual Bill Summary by Rate Schedules
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates
 AND 2015 Summer proposed 3.2 Rates using 50% BQ
 Data From Yearly File(JAN 2011 - Dec 2011)

LAST RATE SCHEDULE	COUNT	ANNUAL TOTAL KWH	TOTAL ANNUAL CURRENT BILLS	CURRENT AVG RATE	TOTAL ANNUAL PROPOSED BILLS	PROPOSED AVG RATE	DIFFERENCE (PROPOSED-CURRENT)	(PROPOSED-CURRENT)/CURRENT	MAX DIFFERENCE	MIN DIFFERENCE
E1	2,815,104	18,278,276,127	\$3,633,089,241	0.19877	\$3,694,284,540	0.20211	\$61,195,299	1.68%	\$229	\$-10,717
E1L	1,156,472	7,576,011,970	\$837,332,506	0.11052	\$873,713,155	0.11533	\$36,380,649	4.34%	\$304	\$-274
E6	5,462	52,512,188	\$10,879,795	0.20719	\$11,020,853	0.20987	\$141,058	1.30%	\$199	\$-1,204
E6L	379	6,078,576	\$712,027	0.11714	\$730,180	0.12012	\$18,153	2.55%	\$572	\$-103
E7	57,771	606,295,672	\$112,173,586	0.18501	\$126,131,793	0.20804	\$13,958,206	12.44%	\$3,652	\$-1,197
E7L	7,757	84,873,446	\$9,689,251	0.11416	\$9,675,012	0.11399	\$-14,239	(0.15%)	\$1,170	\$-1,325
E8	43,911	675,567,529	\$140,568,929	0.20808	\$155,506,294	0.23019	\$14,937,365	10.63%	\$16,163	\$-568
E8L	8,692	136,763,391	\$14,922,099	0.10911	\$17,176,939	0.12560	\$2,254,840	15.11%	\$10,328	\$0
TOTAL	4,095,548	27,416,378,899	\$4,759,367,434	0.17360	\$4,888,238,766	0.17830	\$128,871,332	2.71%	\$32,616	\$-15,388

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CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates
 AND 2015 Summer proposed 3.2 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E1 -----

PCT	MONTHLY \$ DIFFERENCE	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
		DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	\$-5.75	0	674(0.0%)	3,205(0.1%)	109,254(3.9%)	0	0	0	0	0	0
8%	\$-4.27	0	0	1(0.0%)	112,712(4.0%)	0	0	0	0	0	0
12%	\$-3.33	0	0	0	112,588(4.0%)	0	0	0	0	0	0
16%	\$-2.63	0	0	0	112,872(4.0%)	0	0	0	0	0	0
20%	\$-1.93	0	0	0	112,436(4.0%)	0	0	0	0	0	0
24%	\$-1.19	0	0	0	112,459(4.0%)	0	0	0	0	0	0
28%	\$-0.53	0	0	0	113,781(4.0%)	0	0	0	0	0	0
32%	\$0.22	0	0	0	78,884(2.8%)	1,687(0.1%)	1,700(0.1%)	29,503(1.0%)	0	0	0
36%	\$0.94	0	0	0	0	0	0	95,145(3.4%)	78(0.0%)	17,360(0.6%)	433(0.0%)
40%	\$1.73	0	0	0	0	0	0	104,706(3.7%)	219(0.0%)	683(0.0%)	6,789(0.2%)
44%	\$2.47	0	0	0	0	0	0	103,687(3.7%)	426(0.0%)	770(0.0%)	7,455(0.3%)
48%	\$3.15	0	0	0	0	0	0	102,272(3.6%)	1,785(0.1%)	990(0.0%)	7,758(0.3%)
52%	\$3.77	0	0	0	0	0	0	76,886(2.7%)	24,810(0.9%)	1,269(0.0%)	8,763(0.3%)
56%	\$4.35	0	0	0	0	0	0	35,420(1.3%)	63,419(2.3%)	4,231(0.2%)	11,361(0.4%)
60%	\$4.81	0	0	0	0	0	0	6,409(0.2%)	76,218(2.7%)	14,108(0.5%)	16,677(0.6%)
64%	\$4.96	0	0	0	0	0	0	1,234(0.0%)	27,495(1.0%)	35,323(1.3%)	46,615(1.7%)
68%	\$4.98	0	0	0	0	0	0	488(0.0%)	11,825(0.4%)	90,099(3.2%)	124,958(4.4%)
76%	\$5.02	0	0	0	0	0	0	481(0.0%)	10,685(0.4%)	59,718(2.1%)	50,107(1.8%)
80%	\$5.15	0	0	0	0	0	0	1,158(0.0%)	24,734(0.9%)	71,504(2.5%)	9,432(0.3%)
84%	\$5.32	0	0	0	0	0	0	1,357(0.0%)	30,043(1.1%)	74,602(2.7%)	3,736(0.1%)
88%	\$5.53	0	0	0	0	0	0	1,449(0.1%)	32,108(1.1%)	75,521(2.7%)	784(0.0%)
92%	\$5.80	0	0	0	0	0	0	1,543(0.1%)	36,644(1.3%)	77,113(2.7%)	139(0.0%)
96%	\$6.17	0	0	0	0	0	0	1,589(0.1%)	36,771(1.3%)	73,473(2.6%)	7(0.0%)
100%	\$19.10	0	0	0	0	0	0	3,426(0.1%)	30,453(1.1%)	76,607(2.7%)	0
TOTAL		0	674	3,206	864,986	1,687	1,700	566,753	407,713	673,371	295,014
		0.0%	0.0%	0.1%	30.7%	0.1%	0.1%	20.1%	14.5%	23.9%	10.5%
CUMULATIVE		0	674	3,880	868,866	870,553	872,253	1439006	1846719	2520090	2815104
		0.0%	0.0%	0.1%	30.9%	30.9%	31.0%	51.1%	65.6%	89.5%	100.0%
AVG.MO DIFF.			\$-69.3	\$-22.1	\$-3.3	\$-0.0	\$0.0	\$2.1	\$5.0	\$5.3	\$4.7

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CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES

Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates

AND 2015 Summer proposed 3.2 Rates using 50% BQ

FOR ANNUAL

Data From Yearly File(JAN 2011 - Dec 2011)

RES full service

----- LAST RATE SCHEDULE=E1L -----

\$ PCT	MONTHLY \$ DIFFERENCE	BELOW -20% DECREASE	-20 - -10% DECREASE	-10 - -5% DECREASE	-5 - -0.01% DECREASE	-0.01 - 0% DECREASE	0 - 0.01% INCREASE	0.01 - 5% INCREASE	5 - 10% INCREASE	10 - 20% INCREASE	ABOVE 20% INCREASE
4%	\$-1.32	0	0	0	46,544(4.0%)	0	0	0	0	0	0
8%	\$-0.72	1,035(0.1%)	18(0.0%)	13(0.0%)	53,853(4.7%)	0	0	0	0	0	0
12%	\$-0.43	0	193(0.0%)	13(0.0%)	37,648(3.3%)	0	0	0	0	0	0
16%	\$0.12	0	39(0.0%)	132(0.0%)	29,065(2.5%)	680(0.1%)	667(0.1%)	31,002(2.7%)	0	0	0
20%	\$0.36	0	0	0	0	0	4(0.0%)	30,867(2.7%)	120(0.0%)	1(0.0%)	0
24%	\$0.87	0	0	0	0	0	0	45,575(3.9%)	98(0.0%)	313(0.0%)	70(0.0%)
28%	\$1.43	0	0	0	0	0	0	45,644(3.9%)	92(0.0%)	218(0.0%)	522(0.0%)
32%	\$1.95	0	0	0	0	0	0	44,236(3.8%)	227(0.0%)	339(0.0%)	852(0.1%)
36%	\$2.41	0	0	0	0	0	0	39,063(3.4%)	6,423(0.6%)	329(0.0%)	1,157(0.1%)
40%	\$2.78	0	0	0	0	0	0	29,511(2.6%)	13,546(1.2%)	534(0.0%)	2,307(0.2%)
44%	\$3.05	0	0	0	0	0	0	13,885(1.2%)	20,664(1.8%)	1,258(0.1%)	10,798(0.9%)
48%	\$3.25	0	0	0	0	0	0	4,228(0.4%)	21,334(1.8%)	2,216(0.2%)	19,313(1.7%)
52%	\$3.41	0	0	0	0	0	0	2,029(0.2%)	16,620(1.4%)	3,863(0.3%)	23,148(2.0%)
56%	\$3.56	0	0	0	0	0	0	1,523(0.1%)	13,682(1.2%)	6,261(0.5%)	26,393(2.3%)
60%	\$3.69	0	0	0	0	0	0	1,213(0.1%)	11,192(1.0%)	6,817(0.6%)	25,150(2.2%)
64%	\$3.82	0	0	0	0	0	0	1,225(0.1%)	10,511(0.9%)	11,489(1.0%)	22,980(2.0%)
68%	\$3.95	0	0	0	0	0	0	1,050(0.1%)	9,851(0.9%)	33,140(2.9%)	2,936(0.3%)
72%	\$4.08	0	0	0	0	0	0	912(0.1%)	8,893(0.8%)	37,394(3.2%)	89(0.0%)
76%	\$4.21	0	0	0	0	0	0	835(0.1%)	7,319(0.6%)	37,555(3.2%)	0
80%	\$4.35	0	0	0	0	0	0	715(0.1%)	5,956(0.5%)	39,493(3.4%)	0
84%	\$4.51	0	0	0	0	0	0	745(0.1%)	4,827(0.4%)	39,668(3.4%)	0
88%	\$4.71	0	0	0	0	0	0	737(0.1%)	4,222(0.4%)	42,065(3.6%)	0
92%	\$4.97	0	0	0	0	0	0	700(0.1%)	2,984(0.3%)	41,800(3.6%)	0
96%	\$5.59	0	0	0	0	0	0	940(0.1%)	5,003(0.4%)	39,822(3.4%)	0
100%	\$25.31	0	0	0	0	0	0	676(0.1%)	15,863(1.4%)	29,540(2.6%)	0
TOTAL		1,035 0.1%	250 0.0%	158 0.0%	167,110 14.4%	680 0.1%	671 0.1%	297,311 25.7%	179,427 15.5%	374,115 32.3%	135,715 11.7%
CUMULATIVE		1,035 0.1%	1,285 0.1%	1,443 0.1%	168,553 14.6%	169,233 14.6%	169,904 14.7%	467,215 40.4%	646,642 55.9%	1020757 88.3%	1156472 100.0%
AVG. MO DIFF.		\$-1.0	\$-0.6	\$-0.4	\$-1.0	\$-0.0	\$0.0	\$1.5	\$3.8	\$4.5	\$3.4

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RATE DATA ANALYSIS :RATEP.DR5238.JCL(RPT32) PACIFIC GAS AND ELECTRIC COMPANY 11:31 Wednesday, February 26, 2014
CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates
AND 2015 Summer proposed 3.2 Rates using 50% BQ
FOR ANNUAL
Data From Yearly File(JAN 2011 - Dec 2011)
RES full service

----- LAST RATE SCHEDULE=B6 -----

\$ MONTHLY \$ PCT DIFFERENCE	BELOW -20% DECREASE	-20 - -10% DECREASE	-10 - -5% DECREASE	-5 - -0.01% DECREASE	-0.01 - 0% DECREASE	0 - 0.01% INCREASE	0.01 - 5% INCREASE	5 - 10% INCREASE	10 - 20% INCREASE	ABOVE 20% INCREASE	
4%	\$-5.64	7(0.1%)	26(0.5%)	28(0.5%)	157(2.9%)	0	0	0	0	0	
8%	\$-3.40	1(0.0%)	5(0.1%)	21(0.4%)	194(3.6%)	0	0	0	0	0	
12%	\$-2.24	0	2(0.0%)	13(0.2%)	204(3.7%)	0	0	0	0	0	
16%	\$-1.34	0	0	10(0.2%)	207(3.8%)	0	0	0	0	0	
20%	\$-0.64	0	0	1(0.0%)	218(4.0%)	0	0	0	0	0	
24%	\$0.00	0	0	0	209(3.8%)	8(0.1%)	0	0	0	0	
28%	\$0.55	0	0	0	0	3(0.1%)	203(3.7%)	1(0.0%)	14(0.3%)	0	
32%	\$1.04	0	0	0	0	0	212(3.9%)	4(0.1%)	3(0.1%)	0	
36%	\$1.53	0	0	0	0	0	214(3.9%)	3(0.1%)	0	0	
40%	\$2.02	0	0	0	0	0	208(3.8%)	8(0.1%)	3(0.1%)	0	
44%	\$2.44	0	0	0	0	0	202(3.7%)	12(0.2%)	6(0.1%)	0	
48%	\$2.85	0	0	0	0	0	181(3.3%)	25(0.5%)	8(0.1%)	2(0.0%)	
52%	\$3.24	0	0	0	0	0	175(3.2%)	31(0.6%)	11(0.2%)	2(0.0%)	
56%	\$3.60	0	0	0	0	0	142(2.6%)	44(0.8%)	24(0.4%)	8(0.1%)	
60%	\$3.98	0	0	0	0	0	151(2.8%)	57(1.0%)	9(0.2%)	3(0.1%)	
64%	\$4.31	0	0	0	0	0	124(2.3%)	63(1.2%)	19(0.3%)	10(0.2%)	
68%	\$4.65	0	0	0	0	0	75(1.4%)	94(1.7%)	41(0.8%)	11(0.2%)	
72%	\$4.96	0	0	0	0	0	55(1.0%)	103(1.9%)	37(0.7%)	25(0.5%)	
76%	\$5.27	0	0	0	0	0	32(0.6%)	105(1.9%)	50(0.9%)	30(0.5%)	
80%	\$5.57	0	0	0	0	0	35(0.6%)	88(1.6%)	59(1.1%)	41(0.8%)	
84%	\$5.89	0	0	0	0	0	23(0.4%)	89(1.6%)	86(1.6%)	25(0.5%)	
88%	\$6.24	0	0	0	0	0	18(0.3%)	68(1.2%)	102(1.9%)	24(0.4%)	
92%	\$6.64	0	0	0	0	0	20(0.4%)	58(1.1%)	109(2.0%)	30(0.5%)	
96%	\$7.21	0	0	0	0	0	13(0.2%)	37(0.7%)	134(2.5%)	32(0.6%)	
100%	\$16.58	0	0	0	0	0	21(0.4%)	56(1.0%)	118(2.2%)	22(0.4%)	
TOTAL		8 0.1%	33 0.6%	73 1.3%	1,189 21.8%	8 0.1%	3 0.1%	2,104 38.5%	946 17.3%	833 15.3%	265 4.9%
CUMULATIVE		8 0.1%	41 0.8%	114 2.1%	1,303 23.9%	1,311 24.0%	1,314 24.1%	3,418 62.6%	4,364 79.9%	5,197 95.1%	5,462 100.0%
AVG.MO DIFF.		\$-9.6	\$-22.2	\$-7.3	\$-3.0	\$-0.0	\$0.1	\$2.6	\$5.1	\$6.0	\$5.7

A-3-4

A PERCENTAGE DIFFERENCE WHICH FALLS ON A COLUMN BOUNDARY IS INCLUDED IN THE HIGHER COLUMN

SB GT&S_0517221

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES

Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates

AND 2015 Summer proposed 3.2 Rates using 50% BQ

FOR ANNUAL

Data From Yearly File(JAN 2011 - Dec 2011)

RES full service

----- LAST RATE SCHEDULE=E6L -----

\$ MONTHLY \$ PCT	DIFFERENCE	BELOW -20% DECREASE	-20 - -10% DECREASE	-10 - -5% DECREASE	-5 - -0.01% DECREASE	-0.01 - 0% DECREASE	0 - 0.01% INCREASE	0.01 - 5% INCREASE	5 - 10% INCREASE	10 - 20% INCREASE	ABOVE 20% INCREASE
4%	\$-3.02	0	2(0.5%)	1(0.3%)	12(3.2%)	0	0	0	0	0	0
8%	\$-1.87	0	0	1(0.3%)	15(4.0%)	0	0	0	0	0	0
12%	\$-0.79	0	0	0	14(3.7%)	0	0	0	0	0	0
16%	\$-0.06	0	0	0	15(4.0%)	0	0	0	0	0	0
20%	\$0.37	0	0	0	1(0.3%)	0	0	15(4.0%)	0	0	0
24%	\$0.71	0	0	0	0	0	0	16(4.2%)	0	0	0
28%	\$0.96	0	0	0	0	0	0	14(3.7%)	0	1(0.3%)	0
32%	\$1.42	0	0	0	0	0	0	15(4.0%)	0	0	0
36%	\$1.74	0	0	0	0	0	0	14(3.7%)	0	1(0.3%)	0
40%	\$1.93	0	0	0	0	0	0	12(3.2%)	2(0.5%)	0	1(0.3%)
44%	\$2.37	0	0	0	0	0	0	10(2.6%)	3(0.8%)	1(0.3%)	1(0.3%)
48%	\$2.76	0	0	0	0	0	0	7(1.8%)	5(1.3%)	3(0.8%)	0
52%	\$2.99	0	0	0	0	0	0	2(0.5%)	6(1.6%)	5(1.3%)	3(0.8%)
56%	\$3.27	0	0	0	0	0	0	6(1.6%)	1(0.3%)	3(0.8%)	4(1.1%)
60%	\$3.55	0	0	0	0	0	0	9(2.4%)	1(0.3%)	4(1.1%)	2(0.5%)
64%	\$3.79	0	0	0	0	0	0	1(0.3%)	5(1.3%)	3(0.8%)	7(1.8%)
68%	\$4.16	0	0	0	0	0	0	5(1.3%)	2(0.5%)	6(1.6%)	1(0.3%)
72%	\$4.54	0	0	0	0	0	0	1(0.3%)	0	14(3.7%)	0
76%	\$5.20	0	0	0	0	0	0	5(1.3%)	2(0.5%)	8(2.1%)	0
80%	\$5.79	0	0	0	0	0	0	1(0.3%)	6(1.6%)	9(2.4%)	0
84%	\$6.51	0	0	0	0	0	0	3(0.8%)	7(1.8%)	5(1.3%)	0
88%	\$9.10	0	0	0	0	0	0	11(2.9%)	2(0.5%)	2(0.5%)	0
92%	\$12.86	0	0	0	0	0	0	14(3.7%)	1(0.3%)	0	0
96%	\$17.55	0	0	0	0	0	0	14(3.7%)	1(0.3%)	0	0
100%	\$47.67	0	0	0	0	0	0	14(3.7%)	1(0.3%)	0	0
TOTAL		0	2	2	57	0	0	189	45	65	19
		0.0%	0.5%	0.5%	15.0%	0.0%	0.0%	49.9%	11.9%	17.2%	5.0%
CUMULATIVE		0	2	4	61	61	61	250	295	360	379
		0.0%	0.5%	1.1%	16.1%	16.1%	16.1%	66.0%	77.8%	95.0%	100.0%
AVG. MO DIFF.			\$-6.2	\$-2.5	\$-2.0			\$5.8	\$5.0	\$4.3	\$3.3

A-3-5

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES

Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates

AND 2015 Summer proposed 3.2 Rates using 50% BQ

FOR ANNUAL

Data From Yearly File(JAN 2011 - Dec 2011)

RES full service

----- LAST RATE SCHEDULE=E7 -----

\$ PCT	MONTHLY \$ DIFFERENCE	BELOW -20% DECREASE	-20 - -10% DECREASE	-10 - -5% DECREASE	-5 - -0.01% DECREASE	-0.01 - 0% DECREASE	0 - 0.01% INCREASE	0.01 - 5% INCREASE	5 - 10% INCREASE	10 - 20% INCREASE	ABOVE 20% INCREASE
4%	\$9.84	5(0.0%)	9(0.0%)	11(0.0%)	61(0.1%)	0	0	254(0.4%)	249(0.4%)	288(0.5%)	1,439(2.5%)
8%	\$11.50	0	0	0	0	0	0	75(0.1%)	404(0.7%)	724(1.3%)	1,110(1.9%)
12%	\$12.44	0	0	0	0	0	0	42(0.1%)	385(0.7%)	1,005(1.7%)	884(1.5%)
16%	\$13.19	0	0	0	0	0	0	35(0.1%)	385(0.7%)	1,092(1.9%)	799(1.4%)
20%	\$13.82	0	0	0	0	0	0	20(0.0%)	384(0.7%)	1,240(2.1%)	678(1.2%)
24%	\$14.40	0	0	0	0	0	0	19(0.0%)	382(0.7%)	1,220(2.1%)	669(1.2%)
28%	\$14.94	0	0	0	0	0	0	14(0.0%)	379(0.7%)	1,210(2.1%)	742(1.3%)
32%	\$15.46	0	0	0	0	0	0	18(0.0%)	378(0.7%)	1,128(2.0%)	791(1.4%)
36%	\$15.99	0	0	0	0	0	0	12(0.0%)	389(0.7%)	1,017(1.8%)	875(1.5%)
40%	\$16.56	0	0	0	0	0	0	11(0.0%)	451(0.8%)	1,065(1.8%)	775(1.3%)
44%	\$17.18	0	0	0	0	0	0	10(0.0%)	494(0.9%)	1,093(1.9%)	715(1.2%)
48%	\$17.84	0	0	0	0	0	0	8(0.0%)	533(0.9%)	1,126(1.9%)	640(1.1%)
52%	\$18.59	0	0	0	0	0	0	12(0.0%)	613(1.1%)	1,088(1.9%)	597(1.0%)
56%	\$19.38	0	0	0	0	0	0	12(0.0%)	638(1.1%)	1,087(1.9%)	572(1.0%)
60%	\$20.27	0	0	0	0	0	0	5(0.0%)	691(1.2%)	1,058(1.8%)	554(1.0%)
64%	\$21.27	0	0	0	0	0	0	8(0.0%)	739(1.3%)	1,052(1.8%)	515(0.9%)
68%	\$22.33	0	0	0	0	0	0	0	755(1.3%)	1,035(1.8%)	523(0.9%)
72%	\$23.50	0	0	0	0	0	0	8(0.0%)	708(1.2%)	1,100(1.9%)	503(0.9%)
76%	\$24.74	0	0	0	0	0	0	11(0.0%)	688(1.2%)	1,089(1.9%)	507(0.9%)
80%	\$26.09	0	0	0	0	0	0	5(0.0%)	662(1.1%)	1,180(2.0%)	475(0.8%)
84%	\$27.62	0	0	0	0	0	0	5(0.0%)	657(1.1%)	1,148(2.0%)	490(0.8%)
88%	\$29.42	0	0	0	0	0	0	5(0.0%)	687(1.2%)	1,157(2.0%)	467(0.8%)
92%	\$32.15	0	0	0	0	0	0	4(0.0%)	744(1.3%)	1,124(1.9%)	434(0.8%)
96%	\$37.22	0	0	0	0	0	0	1(0.0%)	849(1.5%)	1,028(1.8%)	432(0.7%)
100%	\$304.32	0	0	0	0	0	0	10(0.0%)	1,110(1.9%)	825(1.4%)	362(0.6%)
TOTAL		5 0.0%	9 0.0%	11 0.0%	61 0.1%	0 0.0%	0 0.0%	604 1.0%	14,354 24.8%	26,179 45.3%	16,548 28.6%
CUMULATIVE		5 0.0%	14 0.0%	25 0.0%	86 0.1%	86 0.1%	86 0.1%	690 1.2%	15,044 26.0%	41,223 71.4%	57,771 100.0%
AVG. MO DIFF.		\$-21.5	\$-15.2	\$-33.7	\$-5.2			\$12.0	\$23.3	\$20.6	\$17.9

A-3-6

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES

Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates

AND 2015 Summer proposed 3.2 Rates using 50% BQ

FOR ANNUAL

Data From Yearly File(JAN 2011 - Dec 2011)

RES full service

----- LAST RATE SCHEDULE=E7L -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	\$-10.36	0	15(0.2%)	217(2.8%)	78(1.0%)	0	0	0	0	0	
8%	\$-7.65	2(0.0%)	1(0.0%)	176(2.3%)	131(1.7%)	0	0	0	0	0	
12%	\$-5.95	0	0	107(1.4%)	208(2.7%)	0	0	0	0	0	
16%	\$-4.65	0	0	60(0.8%)	248(3.2%)	0	0	0	0	0	
20%	\$-3.75	0	0	15(0.2%)	297(3.8%)	0	0	0	0	0	
24%	\$-3.05	0	0	4(0.1%)	306(3.9%)	0	0	0	0	0	
28%	\$-2.44	1(0.0%)	1(0.0%)	0	307(4.0%)	0	0	0	0	0	
32%	\$-1.92	1(0.0%)	0	0	308(4.0%)	0	0	0	0	0	
36%	\$-1.40	1(0.0%)	2(0.0%)	2(0.0%)	307(4.0%)	0	0	0	0	0	
40%	\$-0.91	0	1(0.0%)	1(0.0%)	308(4.0%)	0	0	0	0	0	
44%	\$-0.42	0	0	0	311(4.0%)	0	0	0	0	0	
48%	\$0.03	0	0	3(0.0%)	281(3.6%)	5(0.1%)	4(0.1%)	15(0.2%)	0	0	
52%	\$0.59	0	0	0	0	0	0	311(4.0%)	1(0.0%)	0	
56%	\$1.14	0	0	0	0	0	0	304(3.9%)	1(0.0%)	3(0.0%)	
60%	\$1.63	0	0	0	0	0	0	305(3.9%)	2(0.0%)	3(0.0%)	
64%	\$2.17	0	0	0	0	0	0	274(3.5%)	30(0.4%)	5(0.1%)	
68%	\$2.64	0	0	0	0	0	0	192(2.5%)	102(1.3%)	11(0.1%)	
72%	\$3.03	0	0	0	0	0	0	98(1.3%)	129(1.7%)	52(0.7%)	
76%	\$3.34	0	0	0	0	0	0	63(0.8%)	107(1.4%)	122(1.6%)	
80%	\$3.67	0	0	0	0	0	0	51(0.7%)	109(1.4%)	144(1.9%)	
84%	\$3.98	0	0	0	0	0	0	43(0.6%)	108(1.4%)	139(1.8%)	
88%	\$4.39	0	0	0	0	0	0	49(0.6%)	128(1.7%)	122(1.6%)	
92%	\$5.04	0	0	0	0	0	0	42(0.5%)	146(1.9%)	109(1.4%)	
96%	\$6.28	0	0	0	0	0	0	36(0.5%)	172(2.2%)	83(1.1%)	
100%	\$97.47	0	0	0	0	0	0	60(0.8%)	154(2.0%)	81(1.0%)	
TOTAL		5	20	585	3,090	5	4	1,843	1,189	874	142
		0.1%	0.3%	7.5%	39.8%	0.1%	0.1%	23.8%	15.3%	11.3%	1.8%
CUMULATIVE		5	25	610	3,700	3,705	3,709	5,552	6,741	7,615	7,757
		0.1%	0.3%	7.9%	47.7%	47.8%	47.8%	71.6%	86.9%	98.2%	100.0%
AVG.MO DIFF.		\$-5.2	\$-14.3	\$-9.9	\$-3.1	\$-0.0	\$0.0	\$2.3	\$4.9	\$4.6	\$4.3

A-3-7

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates
 AND 2015 Summer proposed 3.2 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E8 -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	\$8.57	0	0	0	21(0.0%)	0	32(0.1%)	142(0.3%)	644(1.5%)	919(2.1%)	0
8%	\$10.55	0	0	0	0	0	0	25(0.1%)	572(1.3%)	1,161(2.6%)	0
12%	\$11.90	0	0	0	0	0	0	6(0.0%)	700(1.6%)	1,065(2.4%)	1(0.0%)
16%	\$13.15	0	0	0	0	0	0	11(0.0%)	823(1.9%)	911(2.1%)	2(0.0%)
20%	\$14.36	0	0	0	0	0	0	11(0.0%)	887(2.0%)	866(2.0%)	1(0.0%)
24%	\$15.57	0	0	0	0	0	0	12(0.0%)	921(2.1%)	820(1.9%)	0
28%	\$16.73	0	0	0	0	0	0	12(0.0%)	912(2.1%)	819(1.9%)	0
32%	\$17.97	0	0	0	0	0	0	12(0.0%)	899(2.0%)	847(1.9%)	1(0.0%)
36%	\$19.21	0	0	0	0	0	0	6(0.0%)	870(2.0%)	878(2.0%)	1(0.0%)
40%	\$20.45	0	0	0	0	0	0	4(0.0%)	775(1.8%)	995(2.3%)	0
44%	\$21.68	0	0	0	0	0	0	4(0.0%)	700(1.6%)	1,047(2.4%)	0
48%	\$22.83	0	0	0	0	0	0	1(0.0%)	597(1.4%)	1,144(2.6%)	0
52%	\$23.94	0	0	0	0	0	0	3(0.0%)	535(1.2%)	1,232(2.8%)	0
56%	\$25.07	0	0	0	0	0	0	2(0.0%)	440(1.0%)	1,315(3.0%)	0
60%	\$26.32	0	0	0	0	0	0	3(0.0%)	430(1.0%)	1,315(3.0%)	1(0.0%)
64%	\$27.63	0	0	0	0	0	0	2(0.0%)	405(0.9%)	1,346(3.1%)	0
68%	\$29.19	0	0	0	0	0	0	0	392(0.9%)	1,367(3.1%)	0
72%	\$31.05	0	0	0	0	0	0	0	409(0.9%)	1,350(3.1%)	0
76%	\$33.28	0	0	0	0	0	0	0	415(0.9%)	1,336(3.0%)	0
80%	\$35.97	0	0	0	0	0	0	0	422(1.0%)	1,336(3.0%)	0
84%	\$39.56	0	0	0	0	0	0	0	375(0.9%)	1,381(3.1%)	0
88%	\$44.48	0	0	0	0	0	0	0	347(0.8%)	1,407(3.2%)	0
92%	\$52.46	0	0	0	0	0	0	0	295(0.7%)	1,461(3.3%)	0
96%	\$69.97	0	0	0	0	0	0	0	175(0.4%)	1,582(3.6%)	0
100%	1346.91	0	0	0	0	0	0	0	74(0.2%)	1,681(3.8%)	0
TOTAL		0	0	0	21	0	32	256	14,014	29,581	7
		0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.6%	31.9%	67.4%	0.0%
CUMULATIVE		0	0	0	21	21	53	309	14,323	43,904	43,911
		0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.7%	32.6%	100.0%	100.0%
AVG. MO DIFF.					\$-11.9		\$0.0	\$8.2	\$21.4	\$32.1	\$16.2

A-3-8

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES

Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates

AND 2015 Summer proposed 3.2 Rates using 50% BQ

FOR ANNUAL

Data From Yearly File(JAN 2011 - Dec 2011)

RES full service

----- LAST RATE SCHEDULE=E8L -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	\$7.92	0	0	0	0	4(0.0%)	2(0.0%)	8(0.1%)	322(3.7%)	12(0.1%)
8%	\$9.10	0	0	0	0	0	0	0	292(3.4%)	55(0.6%)
12%	\$10.19	0	0	0	0	0	0	0	288(3.3%)	62(0.7%)
16%	\$11.19	0	0	0	0	0	0	0	293(3.4%)	53(0.6%)
20%	\$12.20	0	0	0	0	0	0	0	304(3.5%)	47(0.5%)
24%	\$13.11	0	0	0	0	0	0	0	283(3.3%)	61(0.7%)
28%	\$14.13	0	0	0	0	0	0	0	288(3.3%)	65(0.7%)
32%	\$15.01	0	0	0	0	0	0	0	287(3.3%)	57(0.7%)
36%	\$15.90	0	0	0	0	0	0	0	299(3.4%)	49(0.6%)
40%	\$16.83	0	0	0	0	0	0	0	301(3.5%)	53(0.6%)
44%	\$17.59	0	0	0	0	0	0	0	276(3.2%)	65(0.7%)
48%	\$18.25	0	0	0	0	0	0	0	293(3.4%)	57(0.7%)
52%	\$18.93	0	0	0	0	0	0	0	315(3.6%)	34(0.4%)
56%	\$19.73	0	0	0	0	0	0	0	299(3.4%)	46(0.5%)
60%	\$20.60	0	0	0	0	0	0	0	311(3.6%)	38(0.4%)
64%	\$21.68	0	0	0	0	0	0	0	305(3.5%)	41(0.5%)
68%	\$22.63	0	0	0	0	0	0	0	304(3.5%)	44(0.5%)
72%	\$23.84	0	0	0	0	0	0	0	295(3.4%)	57(0.7%)
76%	\$25.17	0	0	0	0	0	0	0	291(3.3%)	53(0.6%)
80%	\$27.00	0	0	0	0	0	0	0	315(3.6%)	31(0.4%)
84%	\$29.53	0	0	0	0	0	0	0	312(3.6%)	35(0.4%)
88%	\$32.34	0	0	0	0	0	0	0	305(3.5%)	44(0.5%)
92%	\$36.71	0	0	0	0	0	0	0	318(3.7%)	28(0.3%)
96%	\$45.75	0	0	0	0	0	0	0	336(3.9%)	12(0.1%)
100%	\$860.64	0	0	0	0	0	0	0	340(3.9%)	7(0.1%)
TOTAL		0	0	0	0	4	2	8	7,572	1,106
		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	87.1%	12.7%
CUMULATIVE		0	0	0	0	4	6	14	7,586	8,692
		0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	87.3%	100.0%
AVG.MO DIFF.						\$0.0	\$0.2	\$1.3	\$22.2	\$18.3

A-3-9

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Total Annual Bill Summary by Rate Schedules
 Comparison Between 2015 Summer proposed 3.2 Rates using 50% BQ
 AND 2016 Summer proposed 3.2 Rates using 50% BQ
 Data From Yearly File(JAN 2011 - Dec 2011)

LAST RATE SCHEDULE	COUNT	ANNUAL TOTAL KWH	TOTAL ANNUAL CURRENT BILLS	CURRENT AVG RATE	TOTAL ANNUAL PROPOSED BILLS	PROPOSED AVG RATE	DIFFERENCE (PROPOSED-CURRENT)	(PROPOSED-CURRENT)/CURRENT	MAX DIFFERENCE	MIN DIFFERENCE
E1	2,815,104	18,278,276,127	\$3,694,284,540	0.20211	\$3,754,558,418	0.20541	\$60,273,878	1.63%	\$67	\$-64,016
E1L	1,156,472	7,576,011,970	\$873,713,155	0.11533	\$945,457,532	0.12480	\$71,744,376	8.21%	\$393	\$17
E6	5,462	52,512,188	\$11,020,853	0.20987	\$10,753,135	0.20477	\$-267,718	(2.43%)	\$62	\$-14,559
E6L	379	6,078,576	\$730,180	0.12012	\$757,612	0.12464	\$27,432	3.76%	\$286	\$28
E7	57,771	606,295,672	\$126,131,793	0.20804	\$124,513,459	0.20537	\$-1,618,334	(1.28%)	\$71	\$-5,844
E7L	7,757	84,873,446	\$9,675,012	0.11399	\$10,293,769	0.12128	\$618,757	6.40%	\$355	\$21
E8	43,911	675,567,529	\$155,506,294	0.23019	\$148,863,828	0.22035	\$-6,642,466	(4.27%)	\$185	\$-14,348
E8L	8,692	136,763,391	\$17,176,939	0.12560	\$17,725,997	0.12961	\$549,058	3.20%	\$340	\$0
TOTAL	4,095,548	27,416,378,899	\$4,888,238,766	0.17830	\$5,012,923,750	0.18284	\$124,684,984	2.55%	\$1,759	\$-98,700

A-3-10

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2015 Summer proposed 3.2 Rates using 50% BQ
 AND 2016 Summer proposed 3.2 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E1 -----

PCT	MONTHLY \$ DIFFERENCE	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
		DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	-11.87	0	0	66,191(2.4%)	46,528(1.7%)	0	0	0	0	0	0
8%	\$-6.15	0	0	25(0.0%)	112,564(4.0%)	0	0	0	0	0	0
12%	\$-3.07	0	0	0	112,992(4.0%)	0	0	0	0	0	0
16%	\$-0.99	0	0	0	112,501(4.0%)	0	0	0	0	0	0
20%	\$0.56	0	0	0	66,834(2.4%)	1,176(0.0%)	1,300(0.0%)	43,121(1.5%)	0	0	0
24%	\$1.77	0	0	0	0	0	0	113,013(4.0%)	0	0	0
28%	\$2.71	0	0	0	0	0	0	113,376(4.0%)	22(0.0%)	0	0
32%	\$3.43	0	0	0	0	0	0	110,754(3.9%)	543(0.0%)	1(0.0%)	0
36%	\$3.99	0	0	0	0	0	0	108,911(3.9%)	4,312(0.2%)	77(0.0%)	0
40%	\$4.40	0	0	0	0	0	0	91,698(3.3%)	21,599(0.8%)	454(0.0%)	6(0.0%)
44%	\$4.68	0	0	0	0	0	0	62,230(2.2%)	48,453(1.7%)	1,345(0.0%)	47(0.0%)
48%	\$4.86	0	0	0	0	0	0	36,368(1.3%)	71,983(2.6%)	2,913(0.1%)	195(0.0%)
52%	\$4.94	0	0	0	0	0	0	19,484(0.7%)	124,676(4.4%)	61,891(2.2%)	26,769(1.0%)
60%	\$4.97	0	0	0	0	0	0	23,952(0.9%)	215,264(7.6%)	159,761(5.7%)	73,969(2.6%)
76%	\$4.98	0	0	0	0	0	0	18,330(0.7%)	181,656(6.5%)	149,308(5.3%)	71,187(2.5%)
92%	\$5.00	0	0	0	0	0	0	14,343(0.5%)	135,985(4.8%)	113,370(4.0%)	49,441(1.8%)
100%	\$5.14	0	0	0	0	0	0	668(0.0%)	8,102(0.3%)	9,707(0.3%)	5,709(0.2%)
TOTAL		0	0	66,216	451,419	1,176	1,300	756,248	812,595	498,827	227,323
		0.0%	0.0%	2.4%	16.0%	0.0%	0.0%	26.9%	28.9%	17.7%	8.1%
CUMULATIVE		0	0	66,216	517,635	518,811	520,111	1276359	2088954	2587781	2815104
		0.0%	0.0%	2.4%	18.4%	18.4%	18.5%	45.3%	74.2%	91.9%	100.0%
AVG. MO DIFF.				\$-36.2	\$-5.3	\$-0.0	\$0.0	\$3.1	\$4.9	\$5.0	\$5.0

A-3-11

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2015 Summer proposed 3.2 Rates using 50% BQ
 AND 2016 Summer proposed 3.2 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

-----LAST RATE SCHEDULE=E1L-----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	\$3.29	0	0	0	0	0	0	6(0.0%)	62(0.0%)	47,482(4.1%)
8%	\$3.54	0	0	0	0	0	2(0.0%)	9(0.0%)	32,642(2.8%)	13,853(1.2%)
12%	\$3.74	0	0	0	0	0	1(0.0%)	29(0.0%)	46,894(4.1%)	0
16%	\$3.91	0	0	0	0	0	5(0.0%)	30(0.0%)	44,572(3.9%)	0
20%	\$4.08	0	0	0	0	0	4(0.0%)	58(0.0%)	47,429(4.1%)	0
24%	\$4.24	0	0	0	0	0	6(0.0%)	121(0.0%)	47,136(4.1%)	0
28%	\$4.39	0	0	0	0	0	9(0.0%)	253(0.0%)	44,550(3.9%)	0
32%	\$4.54	0	0	0	0	0	19(0.0%)	516(0.0%)	44,535(3.9%)	0
36%	\$4.70	0	0	0	0	0	45(0.0%)	1,325(0.1%)	47,471(4.1%)	0
40%	\$4.85	0	0	0	0	0	62(0.0%)	2,784(0.2%)	43,428(3.8%)	0
44%	\$4.99	0	0	0	0	0	202(0.0%)	6,512(0.6%)	38,568(3.3%)	0
48%	\$5.11	0	0	0	0	0	664(0.1%)	15,792(1.4%)	28,341(2.5%)	0
52%	\$5.18	0	0	0	0	0	7,888(0.7%)	29,543(2.6%)	14,768(1.3%)	0
56%	\$5.35	0	0	0	0	0	171(0.0%)	8,243(0.7%)	32,976(2.9%)	0
60%	\$5.54	0	0	0	0	0	111(0.0%)	21,770(1.9%)	24,655(2.1%)	0
64%	\$5.72	0	0	0	0	0	187(0.0%)	37,466(3.2%)	7,714(0.7%)	0
68%	\$5.90	0	0	0	0	0	392(0.0%)	43,343(3.7%)	3,744(0.3%)	0
72%	\$6.05	0	0	0	0	0	926(0.1%)	42,107(3.6%)	2,027(0.2%)	0
76%	\$6.12	0	0	0	0	0	9,487(0.8%)	35,949(3.1%)	381(0.0%)	0
80%	\$6.34	0	0	0	0	0	2,604(0.2%)	44,152(3.8%)	40(0.0%)	0
84%	\$6.56	0	0	0	0	0	3,857(0.3%)	41,847(3.6%)	0	0
88%	\$6.77	0	0	0	0	0	3,469(0.3%)	44,192(3.8%)	0	0
92%	\$6.97	0	0	0	0	0	13,657(1.2%)	32,337(2.8%)	0	0
96%	\$7.78	0	0	0	0	0	16,872(1.5%)	28,037(2.4%)	0	0
100%	\$32.77	0	0	0	0	0	6,338(0.5%)	39,805(3.4%)	0	0
TOTAL		0	0	0	0	0	66,978	476,226	551,933	61,335
		0.0%	0.0%	0.0%	0.0%	0.0%	5.8%	41.2%	47.7%	5.3%
CUMULATIVE		0	0	0	0	0	66,978	543,204	1095137	1156472
		0.0%	0.0%	0.0%	0.0%	0.0%	5.8%	47.0%	94.7%	100.0%
AVG.MO DIFF.							\$6.8	\$6.3	\$4.5	\$3.1

A-3-12

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Total Annual Bill Summary by Rate Schedules
 Comparison Between 2016 Summer proposed 3.2 Rates using 50% BQ
 AND 2017 Summer proposed 3.2 Rates using 50% BQ
 Data From Yearly File(JAN 2011 - Dec 2011)

LAST RATE SCHEDULE	COUNT	ANNUAL TOTAL KWH	TOTAL ANNUAL CURRENT BILLS	CURRENT AVG RATE	TOTAL ANNUAL PROPOSED BILLS	PROPOSED AVG RATE	DIFFERENCE (PROPOSED-CURRENT)	(PROPOSED-CURRENT) / CURRENT	MAX DIFFERENCE	MIN DIFFERENCE
E1	2,815,104	18,278,276,127	\$3,754,558,418	0.20541	\$3,790,640,095	0.20738	\$36,081,677	0.96%	\$1,213	\$-69,741
E1L	1,156,472	7,576,011,970	\$945,457,532	0.12480	\$1,010,560,100	0.13339	\$65,102,568	6.89%	\$632	\$1
E6	5,462	52,512,188	\$10,753,135	0.20477	\$10,419,396	0.19842	\$-333,739	(3.10%)	\$202	\$-15,873
E6L	379	6,078,576	\$757,612	0.12464	\$786,003	0.12931	\$28,390	3.75%	\$431	\$8
E7	57,771	606,295,672	\$124,513,459	0.20537	\$123,031,463	0.20292	\$-1,481,995	(1.19%)	\$552	\$-6,376
E7L	7,757	84,873,446	\$10,293,769	0.12128	\$10,962,851	0.12917	\$669,082	6.50%	\$569	\$2
E8	43,911	675,567,529	\$148,863,828	0.22035	\$143,546,198	0.21248	\$-5,317,630	(3.57%)	\$578	\$-16,604
E8L	8,692	136,763,391	\$17,725,997	0.12961	\$18,661,300	0.13645	\$935,304	5.28%	\$583	\$0
TOTAL	4,095,548	27,416,378,899	\$5,012,923,750	0.18284	\$5,108,607,406	0.18633	\$95,683,656	1.91%	\$4,760	\$-108,582

A-3-13

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2016 Summer proposed 3.2 Rates using 50% BQ
 AND 2017 Summer proposed 3.2 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E1 -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	-13.26	0	3,185(0.1%)	96,057(3.4%)	13,451(0.5%)	0	0	0	0	0
8%	\$-7.11	0	0	9,183(0.3%)	103,416(3.7%)	0	0	0	0	0
12%	\$-3.79	0	0	60(0.0%)	112,582(4.0%)	0	0	0	0	0
16%	\$-1.53	0	0	10(0.0%)	112,662(4.0%)	0	0	0	0	0
20%	\$0.14	0	0	0	100,165(3.6%)	1,185(0.0%)	1,169(0.0%)	9,989(0.4%)	0	0
24%	\$0.85	0	0	0	0	0	0	101,683(3.6%)	12,052(0.4%)	0
28%	\$1.44	0	0	0	0	0	0	56,408(2.0%)	56,506(2.0%)	0
32%	\$1.91	0	0	0	0	0	0	51,417(1.8%)	60,280(2.1%)	0
36%	\$2.31	0	0	0	0	0	0	50,167(1.8%)	63,716(2.3%)	0
40%	\$2.65	0	0	0	0	0	0	48,124(1.7%)	62,989(2.2%)	0
44%	\$2.96	0	0	0	0	0	0	49,535(1.8%)	66,292(2.4%)	0
48%	\$3.22	0	0	0	0	0	0	48,229(1.7%)	64,779(2.3%)	0
52%	\$3.43	0	0	0	0	0	0	45,600(1.6%)	67,986(2.4%)	0
56%	\$3.56	0	0	0	0	0	0	37,122(1.3%)	93,792(3.3%)	0
60%	\$3.69	0	0	0	0	0	0	25,266(0.9%)	65,780(2.3%)	0
64%	\$4.01	0	0	0	0	0	0	50,500(1.8%)	63,974(2.3%)	0
68%	\$4.27	0	0	0	0	0	0	47,955(1.7%)	64,467(2.3%)	0
72%	\$4.48	0	0	0	0	0	0	44,038(1.6%)	68,306(2.4%)	0
76%	\$4.64	0	0	0	0	0	0	36,484(1.3%)	79,794(2.8%)	0
80%	\$4.72	0	0	0	0	0	0	23,293(0.8%)	123,581(4.4%)	0
84%	\$4.75	0	0	0	0	0	0	10,099(0.4%)	80,890(2.9%)	0
88%	\$5.10	0	0	0	0	0	0	27,872(1.0%)	65,722(2.3%)	0
92%	\$5.49	0	0	0	0	0	0	24,686(0.9%)	88,602(3.1%)	0
96%	\$6.46	0	0	0	0	0	0	12,839(0.5%)	98,666(3.5%)	0
100%	101.05	0	0	0	0	0	0	20,884(0.7%)	91,615(3.3%)	0
TOTAL		0	3,185	105,310	442,276	1,185	1,169	822,190	1439789	0
		0.0%	0.1%	3.7%	15.7%	0.0%	0.0%	29.2%	51.1%	0.0%
CUMULATIVE		0	3,185	108,495	550,771	551,956	553,125	1375315	2815104	2815104
		0.0%	0.1%	3.9%	19.6%	19.6%	19.6%	48.9%	100.0%	100.0%
AVG.MO DIFF.			\$-160.1	\$-26.3	\$-4.9	\$-0.0	\$0.0	\$3.1	\$4.2	

A-3-14

RATE DATA ANALYSIS :RATEP.DR5238.JCL(RPT32) PACIFIC GAS AND ELECTRIC COMPANY 11:31 Wednesday, February 26, 2014
CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
Comparison Between 2016 Summer proposed 3.2 Rates using 50% BQ
AND 2017 Summer proposed 3.2 Rates using 50% BQ
FOR ANNUAL
Data From Yearly File(JAN 2011 - Dec 2011)
RES full service

-----LAST RATE SCHEDULE=E1L-----

PCT	MONTHLY \$ DIFFERENCE	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
		DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	\$1.35	0	0	0	0	0	0	2,308(0.2%)	44,584(3.9%)	0	0
8%	\$1.73	0	0	0	0	0	0	13(0.0%)	46,494(4.0%)	0	0
12%	\$2.04	0	0	0	0	0	0	16(0.0%)	46,869(4.1%)	0	0
16%	\$2.32	0	0	0	0	0	0	19(0.0%)	46,088(4.0%)	0	0
20%	\$2.59	0	0	0	0	0	0	22(0.0%)	45,991(4.0%)	0	0
24%	\$2.86	0	0	0	0	0	0	28(0.0%)	46,820(4.0%)	0	0
28%	\$3.13	0	0	0	0	0	0	29(0.0%)	46,123(4.0%)	0	0
32%	\$3.40	0	0	0	0	0	0	43(0.0%)	45,116(3.9%)	0	0
36%	\$3.68	0	0	0	0	0	0	61(0.0%)	46,667(4.0%)	0	0
40%	\$3.96	0	0	0	0	0	0	100(0.0%)	46,110(4.0%)	0	0
44%	\$4.24	0	0	0	0	0	0	161(0.0%)	46,396(4.0%)	0	0
48%	\$4.51	0	0	0	0	0	0	346(0.0%)	46,304(4.0%)	0	0
52%	\$4.74	0	0	0	0	0	0	863(0.1%)	44,088(3.8%)	0	0
56%	\$4.84	0	0	0	0	0	0	11,563(1.0%)	37,056(3.2%)	0	0
60%	\$5.18	0	0	0	0	0	0	312(0.0%)	44,365(3.8%)	0	0
64%	\$5.53	0	0	0	0	0	0	221(0.0%)	45,574(3.9%)	0	0
68%	\$5.88	0	0	0	0	0	0	323(0.0%)	46,397(4.0%)	0	0
72%	\$6.21	0	0	0	0	0	0	569(0.0%)	45,764(4.0%)	0	0
76%	\$6.46	0	0	0	0	0	0	2,781(0.2%)	44,575(3.9%)	0	0
80%	\$6.66	0	0	0	0	0	0	9,204(0.8%)	35,636(3.1%)	0	0
84%	\$7.10	0	0	0	0	0	0	2,481(0.2%)	43,039(3.7%)	0	0
88%	\$7.54	0	0	0	0	0	0	2,402(0.2%)	44,907(3.9%)	0	0
92%	\$7.84	0	0	0	0	0	0	10,349(0.9%)	35,238(3.0%)	0	0
96%	\$8.70	0	0	0	0	0	0	13,681(1.2%)	32,173(2.8%)	0	0
100%	\$52.66	0	0	0	0	0	0	2,979(0.3%)	43,224(3.7%)	0	0
TOTAL		0	0	0	0	0	0	60,874	1095598	0	0
		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%	94.7%	0.0%	0.0%
CUMULATIVE		0	0	0	0	0	0	60,874	1156472	1156472	1156472
		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%	100.0%	100.0%	100.0%
AVG.MO DIFF.								\$6.8	\$4.7		

A-3-15

RATE DATA ANALYSIS :RATEP.DR5238.JCL(RPT32) PACIFIC GAS AND ELECTRIC COMPANY 11:31 Wednesday, February 26, 2014
CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
Total Annual Bill Summary by Rate Schedules
Comparison Between 2017 Summer proposed 3.2 Rates using 50% BQ
AND 2018 Summer proposed 3.2 Rates using 50% BQ
Data From Yearly File(JAN 2011 - Dec 2011)

LAST RATE SCHEDULE	COUNT	ANNUAL TOTAL KWH	TOTAL ANNUAL CURRENT BILLS	CURRENT AVG RATE	TOTAL ANNUAL PROPOSED BILLS	PROPOSED AVG RATE	DIFFERENCE (PROPOSED-CURRENT)	(PROPOSED-CURRENT)/CURRENT	MAX DIFFERENCE	MIN DIFFERENCE
E1	2,815,104	18,278,276,127	\$3,790,640,095	0.20738	\$3,888,811,188	0.21276	\$98,171,093	2.59%	\$1,763	\$-63,448
E1L	1,156,472	7,576,011,970	\$1,010,560,100	0.13339	\$1,067,025,216	0.14084	\$56,465,117	5.59%	\$552	\$-482
E6	5,462	52,512,188	\$10,419,396	0.19842	\$10,270,240	0.19558	\$-149,156	(1.43%)	\$503	\$-14,406
E6L	379	6,078,576	\$786,003	0.12931	\$802,605	0.13204	\$16,603	2.11%	\$386	\$-291
E7	57,771	606,295,672	\$123,031,463	0.20292	\$123,817,269	0.20422	\$785,806	0.64%	\$775	\$-5,764
E7L	7,757	84,873,446	\$10,962,851	0.12917	\$11,515,160	0.13567	\$552,309	5.04%	\$483	\$-427
E8	43,911	675,567,529	\$143,546,198	0.21248	\$140,782,404	0.20839	\$-2,763,794	(1.93%)	\$1,018	\$-15,058
E8L	8,692	136,763,391	\$18,661,300	0.13645	\$19,373,754	0.14166	\$712,454	3.82%	\$511	\$-1,352
TOTAL	4,095,548	27,416,378,899	\$5,108,607,406	0.18633	\$5,262,397,837	0.19194	\$153,790,431	3.01%	\$5,992	\$-101,228

A-3-16

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2017 Summer proposed 3.2 Rates using 50% BQ
 AND 2018 Summer proposed 3.2 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E1 -----

\$ MONTHLY \$ PCT	MONTHLY \$ DIFFERENCE	BELOW -20% DECREASE	-20 - -10% DECREASE	-10 - -5% DECREASE	-5 - -0.01% DECREASE	-0.01 - 0% DECREASE	0 - 0.01% INCREASE	0.01 - 5% INCREASE	5 - 10% INCREASE	10 - 20% INCREASE	ABOVE 20% INCREASE
4%	\$-8.58	0	2,436(0.1%)	53,140(1.9%)	57,158(2.0%)	0	0	0	0	0	0
8%	\$-3.08	0	0	56(0.0%)	112,580(4.0%)	0	0	0	0	0	0
12%	\$-0.14	0	0	5(0.0%)	112,522(4.0%)	0	0	0	0	0	0
16%	\$0.90	0	0	0	5,898(0.2%)	855(0.0%)	899(0.0%)	95,164(3.4%)	10,850(0.4%)	0	0
20%	\$1.59	0	0	0	0	0	0	43,318(1.5%)	68,225(2.4%)	0	0
24%	\$2.14	0	0	0	0	0	0	38,667(1.4%)	74,747(2.7%)	0	0
28%	\$2.60	0	0	0	0	0	0	36,336(1.3%)	77,017(2.7%)	0	0
32%	\$3.00	0	0	0	0	0	0	35,068(1.2%)	77,390(2.7%)	0	0
36%	\$3.36	0	0	0	0	0	0	33,806(1.2%)	78,616(2.8%)	0	0
40%	\$3.68	0	0	0	0	0	0	32,753(1.2%)	78,894(2.8%)	0	0
44%	\$3.98	0	0	0	0	0	0	32,842(1.2%)	82,467(2.9%)	0	0
48%	\$4.25	0	0	0	0	0	0	31,922(1.1%)	80,513(2.9%)	0	0
52%	\$4.50	0	0	0	0	0	0	30,836(1.1%)	79,781(2.8%)	0	0
56%	\$4.74	0	0	0	0	0	0	29,057(1.0%)	82,792(2.9%)	0	0
60%	\$4.98	0	0	0	0	0	0	25,151(0.9%)	91,182(3.2%)	0	0
64%	\$5.21	0	0	0	0	0	0	24,155(0.9%)	87,828(3.1%)	0	0
68%	\$5.47	0	0	0	0	0	0	28,419(1.0%)	84,373(3.0%)	0	0
72%	\$5.74	0	0	0	0	0	0	29,728(1.1%)	82,691(2.9%)	0	0
76%	\$6.00	0	0	0	0	0	0	27,421(1.0%)	84,828(3.0%)	0	0
80%	\$6.25	0	0	0	0	0	0	22,352(0.8%)	87,530(3.1%)	0	0
84%	\$6.51	0	0	0	0	0	0	15,504(0.6%)	97,634(3.5%)	0	0
88%	\$6.80	0	0	0	0	0	0	12,080(0.4%)	101,175(3.6%)	0	0
92%	\$7.21	0	0	0	0	0	0	10,635(0.4%)	101,467(3.6%)	0	0
96%	\$8.23	0	0	0	0	0	0	6,367(0.2%)	105,384(3.7%)	0	0
100%	146.94	0	0	0	0	0	0	11,428(0.4%)	101,162(3.6%)	0	0
TOTAL		0 0.0%	2,436 0.1%	53,201 1.9%	288,158 10.2%	855 0.0%	899 0.0%	653,009 23.2%	1816546 64.5%	0 0.0%	0 0.0%
CUMULATIVE		0 0.0%	2,436 0.1%	55,637 2.0%	343,795 12.2%	344,650 12.2%	345,549 12.3%	998,558 35.5%	2815104 100.0%	2815104 100.0%	2815104 100.0%
AVG.MO DIFF.			\$-157.6	\$-30.3	\$-5.1	\$-0.0	\$0.0	\$3.7	\$5.2		

A-3-17

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2017 Summer proposed 3.2 Rates using 50% BQ
 AND 2018 Summer proposed 3.2 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E1L -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	\$1.30	0	0	0	3,859(0.3%)	34(0.0%)	43(0.0%)	4,455(0.4%)	38,593(3.3%)	0	0
8%	\$1.69	0	0	0	0	0	0	886(0.1%)	45,851(4.0%)	0	0
12%	\$1.99	0	0	0	0	0	0	941(0.1%)	45,235(3.9%)	0	0
16%	\$2.25	0	0	0	0	0	0	1,082(0.1%)	44,196(3.8%)	0	0
20%	\$2.50	0	0	0	0	0	0	1,446(0.1%)	45,643(3.9%)	0	0
24%	\$2.73	0	0	0	0	0	0	1,873(0.2%)	44,182(3.8%)	0	0
28%	\$2.95	0	0	0	0	0	0	2,487(0.2%)	43,022(3.7%)	0	0
32%	\$3.17	0	0	0	0	0	0	3,538(0.3%)	43,713(3.8%)	0	0
36%	\$3.38	0	0	0	0	0	0	4,848(0.4%)	41,793(3.6%)	0	0
40%	\$3.58	0	0	0	0	0	0	6,548(0.6%)	40,667(3.5%)	0	0
44%	\$3.76	0	0	0	0	0	0	8,742(0.8%)	37,667(3.3%)	0	0
48%	\$3.92	0	0	0	0	0	0	7,358(0.6%)	38,138(3.3%)	0	0
52%	\$4.09	0	0	0	0	0	0	2,334(0.2%)	43,967(3.8%)	0	0
56%	\$4.34	0	0	0	0	0	0	4,531(0.4%)	40,949(3.5%)	0	0
60%	\$4.58	0	0	0	0	0	0	6,019(0.5%)	39,401(3.4%)	0	0
64%	\$4.81	0	0	0	0	0	0	8,349(0.7%)	38,970(3.4%)	0	0
68%	\$5.01	0	0	0	0	0	0	10,109(0.9%)	35,159(3.0%)	0	0
72%	\$5.20	0	0	0	0	0	0	11,686(1.0%)	35,440(3.1%)	0	0
76%	\$5.38	0	0	0	0	0	0	6,337(0.5%)	40,555(3.5%)	0	0
80%	\$5.59	0	0	0	0	0	0	9,103(0.8%)	36,279(3.1%)	0	0
84%	\$5.84	0	0	0	0	0	0	14,027(1.2%)	32,370(2.8%)	0	0
88%	\$6.07	0	0	0	0	0	0	15,857(1.4%)	29,772(2.6%)	0	0
92%	\$6.34	0	0	0	0	0	0	12,744(1.1%)	34,433(3.0%)	0	0
96%	\$7.95	0	0	0	0	0	0	4,665(0.4%)	40,372(3.5%)	0	0
100%	\$45.99	0	0	0	0	0	0	6,164(0.5%)	40,040(3.5%)	0	0
TOTAL		0	0	0	3,859	34	43	156,129	996,407	0	0
		0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	13.5%	86.2%	0.0%	0.0%
CUMULATIVE		0	0	0	3,859	3,893	3,936	160,065	1156472	1156472	1156472
		0.0%	0.0%	0.0%	0.3%	0.3%	0.3%	13.8%	100.0%	100.0%	100.0%
AVG.MO DIFF.					\$-4.4	\$-0.0	\$0.0	\$4.9	\$4.1		

A-3-18

RATE DATA ANALYSIS

Total Annual Bill Summary by Rate Schedules

Comparison Between 2015 Summer proposed 3.2 E6/E6L Rates using 50% BQ

AND 2016 Summer proposed 3.2 ETOU/ETOUL Rates using 50% BQ

E6 Migrating to ETOU/ Data From Yearly File(JAN 2011 - Dec 2011)

LAST RATE SCHEDULE	COUNT	ANNUAL TOTAL KWH	TOTAL ANNUAL CURRENT BILLS	CURRENT AVG RATE	TOTAL ANNUAL PROPOSED BILLS	PROPOSED AVG RATE	DIFFERENCE (PROPOSED-CURRENT)	(PROPOSED-CURRENT)/CURRENT	MAX DIFFERENCE	MIN DIFFERENCE
E6	5,462	52,512,188	\$11,020,853	0.20987	\$9,728,329	0.18526	\$-1,292,524	(11.73%)	\$537	\$-56,365
E6L	379	6,078,576	\$730,180	0.12012	\$723,701	0.11906	\$-6,480	(0.89%)	\$665	\$-2,372
TOTAL	5,841	58,590,764	\$11,751,033	0.20056	\$10,452,029	0.17839	\$-1,299,003	(11.05%)	\$1,203	\$-58,738

A-3-19

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2015 Summer proposed 3.2 E6/E6L Rates using 50% BQ
 AND 2016 Summer proposed 3.2 ETOU/ETOUL Rates using 50% BQ
 FOR ANNUAL
 E6 Migrating to ETOU/ Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=B6 -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	-153.9	218(4.0%)	0	0	0	0	0	0	0	0	
8%	-79.91	215(3.9%)	4(0.1%)	0	0	0	0	0	0	0	
12%	-54.06	173(3.2%)	45(0.8%)	0	0	0	0	0	0	0	
16%	-37.38	29(0.5%)	190(3.5%)	0	0	0	0	0	0	0	
20%	-26.35	1(0.0%)	210(3.8%)	7(0.1%)	0	0	0	0	0	0	
24%	-18.12	1(0.0%)	190(3.5%)	28(0.5%)	0	0	0	0	0	0	
28%	-11.97	0	63(1.2%)	153(2.8%)	2(0.0%)	0	0	0	0	0	
32%	\$-6.99	0	4(0.1%)	173(3.2%)	42(0.8%)	0	0	0	0	0	
36%	\$-2.88	0	0	29(0.5%)	190(3.5%)	0	0	0	0	0	
40%	\$0.48	0	0	0	185(3.4%)	0	34(0.6%)	0	0	0	
44%	\$3.08	0	0	0	0	0	215(3.9%)	1(0.0%)	0	1(0.0%)	
48%	\$5.56	0	0	0	0	0	143(2.6%)	58(1.1%)	1(0.0%)	17(0.3%)	
52%	\$7.57	0	0	0	0	0	20(0.4%)	150(2.7%)	35(0.6%)	14(0.3%)	
56%	\$9.28	0	0	0	0	0	7(0.1%)	88(1.6%)	103(1.9%)	21(0.4%)	
60%	\$10.55	0	0	0	0	0	0	38(0.7%)	129(2.4%)	51(0.9%)	
64%	\$11.52	0	0	0	0	0	1(0.0%)	15(0.3%)	115(2.1%)	87(1.6%)	
68%	\$12.33	0	0	0	0	0	0	9(0.2%)	92(1.7%)	120(2.2%)	
72%	\$13.01	0	0	0	0	0	0	1(0.0%)	68(1.2%)	152(2.8%)	
76%	\$13.69	0	0	0	0	0	0	2(0.0%)	51(0.9%)	162(3.0%)	
80%	\$14.38	0	0	0	0	0	0	2(0.0%)	65(1.2%)	152(2.8%)	
84%	\$15.11	0	0	0	0	0	0	5(0.1%)	39(0.7%)	173(3.2%)	
88%	\$15.99	0	0	0	0	0	0	2(0.0%)	30(0.5%)	187(3.4%)	
92%	\$17.24	0	0	0	0	0	0	3(0.1%)	33(0.6%)	183(3.4%)	
96%	\$21.77	0	0	0	0	0	0	11(0.2%)	42(0.8%)	165(3.0%)	
100%	\$45.42	0	0	0	0	0	0	7(0.1%)	59(1.1%)	151(2.8%)	
TOTAL		637 11.7%	706 12.9%	390 7.1%	419 7.7%	0 0.0%	0 0.0%	420 7.7%	392 7.2%	862 15.8%	1,636 30.0%
CUMULATIVE		637 11.7%	1,343 24.6%	1,733 31.7%	2,152 39.4%	2,152 39.4%	2,152 39.4%	2,572 47.1%	2,964 54.3%	3,826 70.0%	5,462 100.0%
AVG.MO DIFF.		\$-190.5	\$-33.4	\$-12.4	\$-3.6	.	.	\$2.8	\$8.3	\$13.0	\$15.5

A-3-20

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2015 Summer proposed 3.2 E6/E6L Rates using 50% BQ
 AND 2016 Summer proposed 3.2 ETOU/ETOUL Rates using 50% BQ
 FOR ANNUAL
 E6 Migrating to ETOU/ Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=B6L -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	-71.48	0	15(4.0%)	0	0	0	0	0	0	0	
8%	-47.36	0	13(3.4%)	2(0.5%)	0	0	0	0	0	0	
12%	-32.43	0	5(1.3%)	10(2.6%)	0	0	0	0	0	0	
16%	-19.31	0	0	14(3.7%)	1(0.3%)	0	0	0	0	0	
20%	\$-7.75	0	0	8(2.1%)	8(2.1%)	0	0	0	0	0	
24%	\$-3.69	0	0	1(0.3%)	14(3.7%)	0	0	0	0	0	
28%	\$1.80	0	0	0	8(2.1%)	0	0	7(1.8%)	0	0	
32%	\$3.22	0	0	0	0	0	13(3.4%)	0	2(0.5%)	0	
36%	\$5.14	0	0	0	0	0	9(2.4%)	5(1.3%)	0	1(0.3%)	
40%	\$6.55	0	0	0	0	0	6(1.6%)	5(1.3%)	0	5(1.3%)	
44%	\$7.63	0	0	0	0	0	0	10(2.6%)	1(0.3%)	6(1.6%)	
48%	\$8.28	0	0	0	0	0	0	5(1.3%)	3(0.8%)	6(1.6%)	
52%	\$8.88	0	0	0	0	0	0	1(0.3%)	5(1.3%)	8(2.1%)	
56%	\$9.25	0	0	0	0	0	1(0.3%)	3(0.8%)	5(1.3%)	6(1.6%)	
60%	\$10.09	0	0	0	0	0	1(0.3%)	0	6(1.6%)	9(2.4%)	
64%	\$10.65	0	0	0	0	0	0	0	3(0.8%)	12(3.2%)	
68%	\$11.39	0	0	0	0	0	1(0.3%)	0	7(1.8%)	7(1.8%)	
72%	\$11.91	0	0	0	0	0	0	2(0.5%)	4(1.1%)	10(2.6%)	
76%	\$12.41	0	0	0	0	0	0	0	6(1.6%)	8(2.1%)	
80%	\$13.50	0	0	0	0	0	0	1(0.3%)	5(1.3%)	10(2.6%)	
84%	\$15.45	0	0	0	0	0	0	2(0.5%)	2(0.5%)	11(2.9%)	
88%	\$17.67	0	0	0	0	0	0	1(0.3%)	3(0.8%)	11(2.9%)	
92%	\$19.35	0	0	0	0	0	0	0	3(0.8%)	12(3.2%)	
96%	\$23.02	0	0	0	0	0	0	0	7(1.8%)	8(2.1%)	
100%	\$55.45	0	0	0	0	0	0	0	3(0.8%)	12(3.2%)	
TOTAL		0	33	35	31	0	0	38	35	65	142
		0.0%	8.7%	9.2%	8.2%	0.0%	0.0%	10.0%	9.2%	17.2%	37.5%
CUMULATIVE		0	33	68	99	99	99	137	172	237	379
		0.0%	8.7%	17.9%	26.1%	26.1%	26.1%	36.1%	45.4%	62.5%	100.0%
AVG. MO DIFF.			\$-79.8	\$-28.3	\$-6.5			\$3.8	\$8.0	\$13.6	\$14.1

A-3-21

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES

Total Annual Bill Summary by Rate Schedules

Comparison Between 2015 Summer proposed 3.2 E8/E8L Rates using 50% BQ

AND 2016 Summer proposed 3.2 E1/E1L Rates using 50% BQ

E8 Migrating to E1/ Data From Yearly File(JAN 2011 - Dec 2011)

LAST RATE SCHEDULE	COUNT	ANNUAL TOTAL KWH	TOTAL ANNUAL CURRENT BILLS	CURRENT AVG RATE	TOTAL ANNUAL PROPOSED BILLS	PROPOSED AVG RATE	DIFFERENCE (PROPOSED-CURRENT)	(PROPOSED-CURRENT)/CURRENT	MAX DIFFERENCE	MIN DIFFERENCE
E8	43,911	675,567,529	\$155,506,294	0.23019	\$148,649,095	0.22004	\$-6,857,199	(4.41%)	\$480	\$-13,054
E8L	8,692	136,763,391	\$17,176,939	0.12560	\$17,422,035	0.12739	\$245,097	1.43%	\$745	\$-775
TOTAL	52,603	812,330,920	\$172,683,232	0.21258	\$166,071,131	0.20444	\$-6,612,102	(3.83%)	\$1,225	\$-13,829

A-3-22

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2015 Summer proposed 3.2 E8/E8L Rates using 50% BQ
 AND 2016 Summer proposed 3.2 E1/E1L Rates using 50% BQ
 FOR ANNUAL
 E8 Migrating to E1/ Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E8 -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	-50.38	0	5(0.0%)	1,751(4.0%)	0	0	0	0	0	0
8%	-35.09	0	3(0.0%)	1,735(4.0%)	22(0.1%)	0	0	0	0	0
12%	-27.84	0	2(0.0%)	1,654(3.8%)	98(0.2%)	0	0	0	0	0
16%	-23.24	0	1(0.0%)	1,576(3.6%)	185(0.4%)	0	0	0	0	0
20%	-20.09	0	1(0.0%)	1,477(3.4%)	279(0.6%)	0	0	0	0	0
24%	-17.53	0	0	1,374(3.1%)	378(0.9%)	0	0	0	0	0
28%	-15.46	0	0	1,266(2.9%)	495(1.1%)	0	0	0	0	0
32%	-13.66	0	0	1,003(2.3%)	762(1.7%)	0	0	0	0	0
36%	-12.03	0	0	622(1.4%)	1,133(2.6%)	0	0	0	0	0
40%	-10.65	0	1(0.0%)	304(0.7%)	1,443(3.3%)	0	0	0	0	0
44%	\$-9.32	0	2(0.0%)	126(0.3%)	1,629(3.7%)	0	0	0	0	0
48%	\$-8.09	0	0	52(0.1%)	1,707(3.9%)	0	0	0	0	0
52%	\$-6.96	0	0	32(0.1%)	1,733(3.9%)	0	0	0	0	0
56%	\$-5.85	0	0	18(0.0%)	1,727(3.9%)	0	0	0	0	0
60%	\$-4.82	0	1(0.0%)	14(0.0%)	1,748(4.0%)	0	0	0	0	0
64%	\$-3.86	0	2(0.0%)	19(0.0%)	1,728(3.9%)	0	0	0	0	0
68%	\$-2.93	0	11(0.0%)	18(0.0%)	1,743(4.0%)	0	0	0	0	0
72%	\$-2.20	38(0.1%)	72(0.2%)	74(0.2%)	1,556(3.5%)	0	0	0	0	0
76%	\$-1.57	0	11(0.0%)	108(0.2%)	1,638(3.7%)	0	0	0	0	0
80%	\$-0.97	0	0	6(0.0%)	1,777(4.0%)	0	0	0	0	0
84%	\$-0.44	0	0	0	1,729(3.9%)	0	0	0	0	0
88%	\$0.26	0	0	0	1,117(2.5%)	39(0.1%)	33(0.1%)	580(1.3%)	0	0
92%	\$1.45	0	0	0	0	0	0	1,747(4.0%)	0	0
96%	\$3.42	0	0	0	0	0	0	1,757(4.0%)	2(0.0%)	0
100%	\$40.02	0	0	0	0	0	0	1,690(3.8%)	57(0.1%)	0
TOTAL		38	112	13,229	24,627	39	33	5,774	59	0
		0.1%	0.3%	30.1%	56.1%	0.1%	0.1%	13.1%	0.1%	0.0%
CUMULATIVE		38	150	13,379	38,006	38,045	38,078	43,852	43,911	43,911
		0.1%	0.3%	30.5%	86.6%	86.6%	86.7%	99.9%	100.0%	100.0%
AVG.MO DIFF.		\$-2.5	\$-12.1	\$-32.6	\$-6.5	\$-0.0	\$0.0	\$2.8	\$12.7	

A-3-23

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2015 Summer proposed 3.2 E8/E8L Rates using 50% BQ
 AND 2016 Summer proposed 3.2 E1/E1L Rates using 50% BQ
 FOR ANNUAL
 E8 Migrating to E1/ Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E8L -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	\$-6.44	0	3(0.0%)	102(1.2%)	244(2.8%)	0	0	0	0	0	
8%	\$-4.68	11(0.1%)	10(0.1%)	83(1.0%)	242(2.8%)	0	0	0	0	0	
12%	\$-3.80	7(0.1%)	19(0.2%)	56(0.6%)	266(3.1%)	0	0	0	0	0	
16%	\$-3.06	1(0.0%)	28(0.3%)	69(0.8%)	250(2.9%)	0	0	0	0	0	
20%	\$-2.48	0	5(0.1%)	53(0.6%)	290(3.3%)	0	0	0	0	0	
24%	\$-1.97	0	0	27(0.3%)	327(3.8%)	0	0	0	0	0	
28%	\$-1.57	0	0	1(0.0%)	343(3.9%)	0	0	0	0	0	
32%	\$-1.16	0	0	0	351(4.0%)	0	0	0	0	0	
36%	\$-0.72	0	0	0	350(4.0%)	0	0	0	0	0	
40%	\$-0.28	0	0	0	344(4.0%)	0	0	0	0	0	
44%	\$0.15	0	0	0	224(2.6%)	10(0.1%)	10(0.1%)	100(1.2%)	0	0	
48%	\$0.63	0	0	0	0	0	0	349(4.0%)	0	0	
52%	\$1.14	0	0	0	0	0	0	348(4.0%)	0	0	
56%	\$1.75	0	0	0	0	0	0	347(4.0%)	0	0	
60%	\$2.43	0	0	0	0	0	0	348(4.0%)	0	0	
64%	\$3.25	0	0	0	0	0	0	339(3.9%)	6(0.1%)	0	
68%	\$4.11	0	0	0	0	0	0	342(3.9%)	8(0.1%)	0	
72%	\$5.04	0	0	0	0	0	0	312(3.6%)	36(0.4%)	0	
76%	\$6.07	0	0	0	0	0	0	288(3.3%)	61(0.7%)	0	
80%	\$7.34	0	0	0	0	0	0	250(2.9%)	98(1.1%)	0	
84%	\$8.72	0	0	0	0	0	0	203(2.3%)	141(1.6%)	0	
88%	\$10.22	0	0	0	0	0	0	139(1.6%)	202(2.3%)	7(0.1%)	
92%	\$12.28	0	0	0	0	0	0	128(1.5%)	204(2.3%)	15(0.2%)	
96%	\$15.54	0	0	0	0	0	0	75(0.9%)	245(2.8%)	28(0.3%)	
100%	\$62.09	0	0	0	0	0	0	57(0.7%)	242(2.8%)	48(0.6%)	
TOTAL		19 0.2%	65 0.7%	391 4.5%	3,231 37.2%	10 0.1%	10 0.1%	3,625 41.7%	1,243 14.3%	98 1.1%	0 0.0%
CUMULATIVE		19 0.2%	84 1.0%	475 5.5%	3,706 42.6%	3,716 42.8%	3,726 42.9%	7,351 84.6%	8,594 98.9%	8,692 100.0%	8,692 100.0%
AVG. MO DIFF.		\$-4.7	\$-4.2	\$-5.5	\$-2.7	\$-0.0	\$0.0	\$4.2	\$12.0	\$16.5	

A-3-24

PACIFIC GAS AND ELECTRIC COMPANY

APPENDIX A -4

**BILL COMPARISON USING ENERGY DIVISION FORMAT: AT
ILLUSTRATIVE RATES ASSUMING 2.1% GROWTH IN REVENUE
REQUIREMENT AND 50% BASELINE QUANTITIES**

PG&E is in the process of completing the bill comparison using the Energy Division approved format for Appendices A-4, B-4, and C-4 and will provide these appendices by March 7, 2014, as a separate exhibit to the Supplemental Filing.

PACIFIC GAS AND ELECTRIC COMPANY

APPENDIX B -1

**ILLUSTRATIVE RATES ASSUMING 0 % GROWTH IN REVENUE
REQUIREMENT AND 50% BASELINE QUANTITIES**

Appendix B -1: Illustrative Rates Assuming 0% Growth in Revenue Requirement and 50% Baseline Quantities

E-1 Rates	Summer 2014	2015	2016	2017	2018	EL-1 Rates	Summer 2014	2015	2016	2017	2018
Tier 1	\$0.147	\$0.147	\$0.147	\$0.158	\$0.156	Tier 1	\$0.091	\$0.097	\$0.103	\$0.108	\$0.107
Tier 2	\$0.170	\$0.184	\$0.184	\$0.190	\$0.187	Tier 2	\$0.104	\$0.118	\$0.124	\$0.130	\$0.128
Tier 3	\$0.249	\$0.184	\$0.184	\$0.190	\$0.187	Tier 3	\$0.148	\$0.118	\$0.124	\$0.130	\$0.128
Tier 4	\$0.309	\$0.304	\$0.246	\$0.190	\$0.187	Tier 4	\$0.148	\$0.148	\$0.148	\$0.130	\$0.128
Customer Charge	\$0.00	\$5.00	\$10.00	\$10.21	\$10.42	Customer Charge	\$0.00	\$2.50	\$5.00	\$5.10	\$5.21
E-6 Rates	Summer 2014	2015	2016	2017	2018	EL-6 Rates	Summer 2014	2015	2016	2017	2018
Summer Peak						Summer Peak					
Tier 1	\$0.307	\$0.275				Tier 1	\$0.208	\$0.225			
Tier 2	\$0.330	\$0.311				Tier 2	\$0.222	\$0.246			
Tier 3	\$0.408	\$0.311				Tier 3	\$0.318	\$0.246			
Tier 4	\$0.468	\$0.432				Tier 4	\$0.318	\$0.276			
Summer Part-Peak						Summer Part-Peak					
Tier 1	\$0.191	\$0.182				Tier 1	\$0.123	\$0.132			
Tier 2	\$0.215	\$0.219				Tier 2	\$0.138	\$0.153			
Tier 3	\$0.293	\$0.219				Tier 3	\$0.195	\$0.153			
Tier 4	\$0.353	\$0.339				Tier 4	\$0.195	\$0.183			
Summer Off-Peak						Summer Off-Peak					
Tier 1	\$0.115	\$0.122				Tier 1	\$0.067	\$0.072			
Tier 2	\$0.138	\$0.158				Tier 2	\$0.081	\$0.093			
Tier 3	\$0.216	\$0.158	PG&E Proposes Closing Schedule			Tier 3	\$0.113	\$0.093	PG&E Proposes Closing Schedule		
Tier 4	\$0.276	\$0.279		in 2016		Tier 4	\$0.113	\$0.123		in 2016	
Winter Part-Peak						Winter Part-Peak					
Tier 1	\$0.136	\$0.139				Tier 1	\$0.082	\$0.089			
Tier 2	\$0.159	\$0.175				Tier 2	\$0.097	\$0.110			
Tier 3	\$0.237	\$0.175				Tier 3	\$0.136	\$0.110			
Tier 4	\$0.297	\$0.296				Tier 4	\$0.136	\$0.140			
Winter Off-Peak						Winter Off-Peak					
Tier 1	\$0.119	\$0.125				Tier 1	\$0.070	\$0.074			
Tier 2	\$0.142	\$0.161				Tier 2	\$0.085	\$0.095			
Tier 3	\$0.220	\$0.161				Tier 3	\$0.118	\$0.095			
Tier 4	\$0.280	\$0.282				Tier 4	\$0.118	\$0.126			
Customer Charge	\$0.00	\$5.00				Customer Charge	\$0.00	\$2.50			

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B-1-2

E-7 Rates	Summer 2014	2015	2016	2017	2018	EL-7 Rates	Summer 2014	2015	2016	2017	2018
Summer Peak						Summer Peak					
Tier 1	\$0.343	\$0.284				Tier 1	\$0.281	\$0.234			
Tier 2	\$0.367	\$0.321				Tier 2	\$0.298	\$0.255			
Tier 3	\$0.446	\$0.321				Tier 3	\$0.425	\$0.255			
Tier 4	\$0.506	\$0.441				Tier 4	\$0.425	\$0.285			
Summer Off-Peak						Summer Off-Peak					
Tier 1	\$0.095	\$0.138				Tier 1	\$0.068	\$0.088			
Tier 2	\$0.119	\$0.175				Tier 2	\$0.085	\$0.109			
Tier 3	\$0.198	\$0.175				Tier 3	\$0.115	\$0.109			
Tier 4	\$0.258	\$0.295				Tier 4	\$0.115	\$0.139			
Winter Peak			PG&E Proposes Closing Schedule in 2016			Winter Part-Peak			PG&E Proposes Closing Schedule in 2016		
Tier 1	\$0.128	\$0.136				Tier 1	\$0.097	\$0.086			
Tier 2	\$0.152	\$0.172				Tier 2	\$0.114	\$0.107			
Tier 3	\$0.231	\$0.172				Tier 3	\$0.157	\$0.107			
Tier 4	\$0.291	\$0.293				Tier 4	\$0.157	\$0.137			
Winter Off-Peak						Winter Off-Peak					
Tier 1	\$0.098	\$0.124				Tier 1	\$0.071	\$0.074			
Tier 2	\$0.122	\$0.161				Tier 2	\$0.088	\$0.095			
Tier 3	\$0.201	\$0.161				Tier 3	\$0.119	\$0.095			
Tier 4	\$0.261	\$0.281				Tier 4	\$0.119	\$0.125			
Customer Charge	\$0.00	\$5.00				Customer Charge	\$0.00	\$2.50			
E-8 Rates	Summer 2014	2015	2016	2017	2018	EL-8 Rates	Summer 2014	2015	2016	2017	2018
Summer						Summer					
Tier 1	\$0.152	\$0.161				Tier 1	\$0.094	\$0.117			
Tier 2	\$0.156	\$0.197				Tier 2	\$0.095	\$0.138			
Tier 3	\$0.235	\$0.197				Tier 3	\$0.153	\$0.138			
Tier 4	\$0.295	\$0.318				Tier 4	\$0.153	\$0.168			
Winter			PG&E Proposes Closing Schedule in 2016			Winter			PG&E Proposes Closing Schedule in 2016		
Tier 1	\$0.101	\$0.126				Tier 1	\$0.059	\$0.076			
Tier 2	\$0.106	\$0.163				Tier 2	\$0.060	\$0.097			
Tier 3	\$0.184	\$0.163				Tier 3	\$0.102	\$0.097			
Tier 4	\$0.244	\$0.283				Tier 4	\$0.102	\$0.127			
Customer Charge	\$12.53	\$12.53				Customer Charge	\$10.02	\$10.020			

E-TOU Rates	Summer 2014	2015	2016	2017	2018	E-TOU CARE Rates	Summer 2014	2015	2016	2017	2018
Summer						Summer					
On-Peak			0.304	0.301	0.298	On-Peak			0.197	0.195	0.194
Off-Peak			0.167	0.164	0.161	Off-Peak			0.109	0.107	0.105
Winter						Winter					
On-Peak			0.168	0.165	0.162	On-Peak			0.109	0.107	0.105
Off-Peak			0.154	0.151	0.148	Off-Peak			0.100	0.098	0.096
Customer Charge			\$10.00	\$10.21	\$10.42	Customer Charge			\$5.00	\$5.10	\$5.21

PACIFIC GAS AND ELECTRIC COMPANY

APPENDIX B -2

**CARE EFFECTIVE DISCOUNT ASSUMING 0 % GROWTH IN
REVENUE REQUIREMENT AND 50% BASELINE QUANTITIES**

No of Customers	Non-CARE	Non-CARE Pct of Customers	CARE	CARE Pct of Customers	Total	Total Pct of Customers
Tier 1	1,213,962	36%	551,029	43%	1,764,992	38%
Tier 2	530,917	16%	237,328	19%	768,244	17%
Tier 3	1,000,480	30%	345,568	27%	1,346,047	29%
Tier 4	608,190	18%	134,106	11%	742,297	16%
Total	3,353,549	100%	1,268,031	100%	4,621,580	100%
Customer Months	41,554,094		14,119,521		55,673,615	

Billing Determinants (kWh) with 50% Baseline Quantity	Non-CARE	Non-CARE Pct of Sales	CARE	CARE Pct of Sales	Total	Total Pct of Sales
Tier 1	12,405,329,836	53%	4,502,204,186	59%	16,907,534,022	54%
Tier 2	2,529,969,079	11%	843,648,428	11%	3,373,617,506	11%
Tier 3	3,997,009,265	17%	1,192,663,424	16%	5,189,672,689	17%
Tier 4	4,628,745,597	20%	1,057,709,208	14%	5,686,454,805	18%
Total	23,561,053,776	100%	7,596,225,247	100%	31,157,279,023	100%

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Scenario 3.1	Assuming 0% Growth in Revenue Requirement and 50% Baseline Quantities				
	Summer 2014	Jan 2015	Jan 2016	Jan 2017	Jan 2018
Non-CARE					
Minimum Bill Amount (\$/mo)	\$4.50	\$0.00	\$0.00	\$0.00	\$0.00
Basic Service Fee (\$/mo)	\$0.00	\$5.00	\$10.00	\$10.21	\$10.42
T-1 Rate (\$/kWh)	\$0.14707	\$0.14707	\$0.14707	\$0.15821	\$0.15589
T-2 Rate (\$/kWh)	\$0.17028	\$0.18374	\$0.18374	\$0.18978	\$0.18706
T-2' Rate (\$/kWh)	\$0.24918	\$0.18374	\$0.18374	\$0.18978	\$0.18706
T-3 Rate (\$/kWh)	\$0.30918	\$0.30418	\$0.24611	\$0.18978	\$0.18706
CARE					
Minimum Bill Amount	\$3.60	\$0.00	\$0.00	\$0.00	\$0.00
Basic Service Fee (\$/mo)	\$0.00	\$2.50	\$5.00	\$5.11	\$5.21
T-1 Rate (\$/kWh)	\$0.09072	\$0.09700	\$0.10300	\$0.10837	\$0.10678
T-2 Rate (\$/kWh)	\$0.10433	\$0.11800	\$0.12400	\$0.13008	\$0.12817
T-2' Rate (\$/kWh)	\$0.14802	\$0.11800	\$0.12400	\$0.13008	\$0.12817
T-3 Rate (\$/kWh)	\$0.14802	\$0.14802	\$0.14802	\$0.13008	\$0.12817
CARE Discount Estimates					
CARE Revenue Collection at Non-CARE Rates	1,430,006,029	1,428,622,704	1,437,799,137	1,443,637,356	1,427,741,604
Total CARE Revenue Collection	829,557,961	868,859,525	943,389,425	962,454,284	950,868,749
CARE Discount (\$)	600,448,068	559,763,178	494,409,712	481,183,071	476,872,855
Effective CARE Discount	44%	41%	36%	35%	35%

Appendix B-2: CARE Effective Discount Assuming 0% Growth in Revenue Requirement and 50% Baseline Quantities

PACIFIC GAS AND ELECTRIC COMPANY
APPENDIX B-3
YEAR-TO-YEAR BILL COMPARISON USING PG&E'S
STANDARD FORMAT: AT ILLUSTRATIVE RATES ASSUMING
0% GROWTH IN REVENUE REQUIREMENT AND
50% BASELINE QUANTITIES

RATE DATA ANALYSIS

Total Annual Bill Summary by Rate Schedules
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates
 AND 2015 Summer proposed 3.1 Rates using 50% BQ
 Data From Yearly File(JAN 2011 - Dec 2011)

LAST RATE SCHEDULE	COUNT	ANNUAL TOTAL KWH	TOTAL ANNUAL CURRENT BILLS	CURRENT AVG RATE	TOTAL ANNUAL PROPOSED BILLS	PROPOSED AVG RATE	DIFFERENCE (PROPOSED-CURRENT)	(PROPOSED-CURRENT)/CURRENT	MAX DIFFERENCE	MIN DIFFERENCE
E1	2,815,104	18,278,276,127	\$3,633,089,241	0.19877	\$3,595,688,391	0.19672	\$-37,400,849	(1.03%)	\$105	\$-10,785
E1L	1,156,472	7,576,011,970	\$837,332,506	0.11052	\$873,713,155	0.11533	\$36,380,649	4.34%	\$304	\$-274
E6	5,462	52,512,188	\$10,879,795	0.20719	\$10,778,216	0.20525	\$-101,579	(0.93%)	\$147	\$-1,901
E6L	379	6,078,576	\$712,027	0.11714	\$730,180	0.12012	\$18,153	2.55%	\$572	\$-103
E7	57,771	606,295,672	\$112,173,586	0.18501	\$122,726,657	0.20242	\$10,553,071	9.41%	\$3,584	\$-2,416
E7L	7,757	84,873,446	\$9,689,251	0.11416	\$9,675,012	0.11399	\$-14,239	(0.15%)	\$1,170	\$-1,325
E8	43,911	675,567,529	\$140,568,929	0.20808	\$152,099,612	0.22514	\$11,530,683	8.20%	\$16,081	\$-2,192
E8L	8,692	136,763,391	\$14,922,099	0.10911	\$17,176,939	0.12560	\$2,254,840	15.11%	\$10,328	\$0
TOTAL	4,095,548	27,416,378,899	\$4,759,367,434	0.17360	\$4,782,588,163	0.17444	\$23,220,729	0.49%	\$32,289	\$-18,996

B-3-1

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates
 AND 2015 Summer proposed 3.1 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=B1 -----

PCT	MONTHLY \$ DIFFERENCE	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
		DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	\$-12.51	109(0.0%)	3,798(0.1%)	22,251(0.8%)	86,450(3.1%)	0	0	0	0	0	0
8%	\$-10.54	0	11(0.0%)	39,295(1.4%)	73,743(2.6%)	0	0	0	0	0	0
12%	\$-9.24	0	1(0.0%)	31,462(1.1%)	81,761(2.9%)	0	0	0	0	0	0
16%	\$-8.38	0	0	32,194(1.1%)	79,880(2.8%)	0	0	0	0	0	0
20%	\$-7.41	0	0	75,763(2.7%)	36,922(1.3%)	0	0	0	0	0	0
24%	\$-6.18	0	0	43,679(1.6%)	68,402(2.4%)	0	0	0	0	0	0
28%	\$-5.20	0	0	11,936(0.4%)	101,250(3.6%)	0	0	0	0	0	0
32%	\$-4.35	0	0	75(0.0%)	112,717(4.0%)	0	0	0	0	0	0
36%	\$-3.21	0	0	5(0.0%)	112,207(4.0%)	0	0	0	0	0	0
40%	\$-1.96	0	0	0	112,824(4.0%)	0	0	0	0	0	0
44%	\$-0.73	0	0	0	112,332(4.0%)	0	0	0	0	0	0
48%	\$0.42	0	0	0	69,111(2.5%)	891(0.0%)	903(0.0%)	41,447(1.5%)	0	0	0
52%	\$1.32	0	0	0	0	0	0	90,864(3.2%)	192(0.0%)	17,725(0.6%)	3,681(0.1%)
56%	\$2.30	0	0	0	0	0	0	102,119(3.6%)	798(0.0%)	885(0.0%)	9,138(0.3%)
60%	\$3.18	0	0	0	0	0	0	81,984(2.9%)	19,148(0.7%)	1,458(0.1%)	10,017(0.4%)
64%	\$3.93	0	0	0	0	0	0	23,306(0.8%)	75,314(2.7%)	4,017(0.1%)	11,197(0.4%)
68%	\$4.51	0	0	0	0	0	0	3,885(0.1%)	79,809(2.8%)	15,830(0.6%)	13,011(0.5%)
72%	\$4.91	0	0	0	0	0	0	2,148(0.1%)	51,946(1.8%)	40,131(1.4%)	21,565(0.8%)
76%	\$4.97	0	0	0	0	0	0	545(0.0%)	13,798(0.5%)	81,171(2.9%)	95,699(3.4%)
80%	\$4.98	0	0	0	0	0	0	240(0.0%)	5,904(0.2%)	55,859(2.0%)	68,975(2.5%)
84%	\$4.99	0	0	0	0	0	0	108(0.0%)	2,168(0.1%)	17,736(0.6%)	9,051(0.3%)
88%	\$5.01	0	0	0	0	0	0	291(0.0%)	6,103(0.2%)	54,813(1.9%)	40,663(1.4%)
92%	\$5.09	0	0	0	0	0	0	810(0.0%)	14,014(0.5%)	85,884(3.1%)	8,215(0.3%)
96%	\$5.23	0	0	0	0	0	0	1,203(0.0%)	22,074(0.8%)	85,353(3.0%)	812(0.0%)
100%	\$8.73	0	0	0	0	0	0	4,880(0.2%)	35,528(1.3%)	71,610(2.5%)	10(0.0%)
TOTAL		109 0.0%	3,810 0.1%	256,660 9.1%	1047599 37.2%	891 0.0%	903 0.0%	353,830 12.6%	326,796 11.6%	532,472 18.9%	292,034 10.4%
CUMULATIVE		109 0.0%	3,919 0.1%	260,579 9.3%	1308178 46.5%	1309069 46.5%	1309972 46.5%	1663802 59.1%	1990598 70.7%	2523070 89.6%	2815104 100.0%
AVG. MO DIFF.		\$-221.2	\$-45.3	\$-9.5	\$-6.2	\$-0.0	\$0.0	\$1.8	\$4.4	\$4.9	\$4.7

B-3-2

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES

Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates

AND 2015 Summer proposed 3.1 Rates using 50% BQ

FOR ANNUAL

Data From Yearly File(JAN 2011 - Dec 2011)

RES full service

----- LAST RATE SCHEDULE=E1L -----

PCT	MONTHLY \$ DIFFERENCE	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
		DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	\$-1.32	0	0	0	46,544 (4.0%)	0	0	0	0	0	0
8%	\$-0.72	1,035 (0.1%)	18 (0.0%)	13 (0.0%)	53,853 (4.7%)	0	0	0	0	0	0
12%	\$-0.43	0	193 (0.0%)	13 (0.0%)	37,648 (3.3%)	0	0	0	0	0	0
16%	\$0.12	0	39 (0.0%)	132 (0.0%)	29,065 (2.5%)	680 (0.1%)	667 (0.1%)	31,002 (2.7%)	0	0	0
20%	\$0.36	0	0	0	0	0	4 (0.0%)	30,867 (2.7%)	120 (0.0%)	1 (0.0%)	0
24%	\$0.87	0	0	0	0	0	0	45,575 (3.9%)	98 (0.0%)	313 (0.0%)	70 (0.0%)
28%	\$1.43	0	0	0	0	0	0	45,644 (3.9%)	92 (0.0%)	218 (0.0%)	522 (0.0%)
32%	\$1.95	0	0	0	0	0	0	44,236 (3.8%)	227 (0.0%)	339 (0.0%)	852 (0.1%)
36%	\$2.41	0	0	0	0	0	0	39,063 (3.4%)	6,423 (0.6%)	329 (0.0%)	1,157 (0.1%)
40%	\$2.78	0	0	0	0	0	0	29,511 (2.6%)	13,546 (1.2%)	534 (0.0%)	2,307 (0.2%)
44%	\$3.05	0	0	0	0	0	0	13,885 (1.2%)	20,664 (1.8%)	1,258 (0.1%)	10,798 (0.9%)
48%	\$3.25	0	0	0	0	0	0	4,228 (0.4%)	21,334 (1.8%)	2,216 (0.2%)	19,313 (1.7%)
52%	\$3.41	0	0	0	0	0	0	2,029 (0.2%)	16,620 (1.4%)	3,863 (0.3%)	23,148 (2.0%)
56%	\$3.56	0	0	0	0	0	0	1,523 (0.1%)	13,682 (1.2%)	6,261 (0.5%)	26,393 (2.3%)
60%	\$3.69	0	0	0	0	0	0	1,213 (0.1%)	11,192 (1.0%)	6,817 (0.6%)	25,150 (2.2%)
64%	\$3.82	0	0	0	0	0	0	1,225 (0.1%)	10,511 (0.9%)	11,489 (1.0%)	22,980 (2.0%)
68%	\$3.95	0	0	0	0	0	0	1,050 (0.1%)	9,851 (0.9%)	33,140 (2.9%)	2,936 (0.3%)
72%	\$4.08	0	0	0	0	0	0	912 (0.1%)	8,893 (0.8%)	37,394 (3.2%)	89 (0.0%)
76%	\$4.21	0	0	0	0	0	0	835 (0.1%)	7,319 (0.6%)	37,555 (3.2%)	0
80%	\$4.35	0	0	0	0	0	0	715 (0.1%)	5,956 (0.5%)	39,493 (3.4%)	0
84%	\$4.51	0	0	0	0	0	0	745 (0.1%)	4,827 (0.4%)	39,668 (3.4%)	0
88%	\$4.71	0	0	0	0	0	0	737 (0.1%)	4,222 (0.4%)	42,065 (3.6%)	0
92%	\$4.97	0	0	0	0	0	0	700 (0.1%)	2,984 (0.3%)	41,800 (3.6%)	0
96%	\$5.59	0	0	0	0	0	0	940 (0.1%)	5,003 (0.4%)	39,822 (3.4%)	0
100%	\$25.31	0	0	0	0	0	0	676 (0.1%)	15,863 (1.4%)	29,540 (2.6%)	0
TOTAL		1,035 0.1%	250 0.0%	158 0.0%	167,110 14.4%	680 0.1%	671 0.1%	297,311 25.7%	179,427 15.5%	374,115 32.3%	135,715 11.7%
CUMULATIVE		1,035 0.1%	1,285 0.1%	1,443 0.1%	168,553 14.6%	169,233 14.6%	169,904 14.7%	467,215 40.4%	646,642 55.9%	1020757 88.3%	1156472 100.0%
AVG. MO DIFF.		\$-1.0	\$-0.6	\$-0.4	\$-1.0	\$-0.0	\$0.0	\$1.5	\$3.8	\$4.5	\$3.4

B-3-3

A PERCENTAGE DIFFERENCE WHICH FALLS ON A COLUMN BOUNDARY IS INCLUDED IN THE HIGHER COLUMN

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates
 AND 2015 Summer proposed 3.1 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E6 -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	\$-12.15	5(0.1%)	26(0.5%)	33(0.6%)	154(2.8%)	0	0	0	0	0	
8%	\$-9.50	4(0.1%)	11(0.2%)	23(0.4%)	182(3.3%)	0	0	0	0	0	
12%	\$-7.95	2(0.0%)	6(0.1%)	29(0.5%)	184(3.4%)	0	0	0	0	0	
16%	\$-6.74	2(0.0%)	7(0.1%)	19(0.3%)	190(3.5%)	0	0	0	0	0	
20%	\$-5.76	4(0.1%)	3(0.1%)	15(0.3%)	195(3.6%)	0	0	0	0	0	
24%	\$-4.92	0	4(0.1%)	12(0.2%)	204(3.7%)	0	0	0	0	0	
28%	\$-4.11	0	3(0.1%)	18(0.3%)	201(3.7%)	0	0	0	0	0	
32%	\$-3.37	0	4(0.1%)	14(0.3%)	195(3.6%)	0	0	0	0	0	
36%	\$-2.64	0	1(0.0%)	11(0.2%)	206(3.8%)	0	0	0	0	0	
40%	\$-2.08	0	1(0.0%)	7(0.1%)	214(3.9%)	0	0	0	0	0	
44%	\$-1.49	0	0	7(0.1%)	210(3.8%)	0	0	0	0	0	
48%	\$-0.91	0	1(0.0%)	0	216(4.0%)	0	0	0	0	0	
52%	\$-0.27	0	0	1(0.0%)	225(4.1%)	0	0	0	0	0	
56%	\$0.26	0	0	0	94(1.7%)	3(0.1%)	8(0.1%)	105(1.9%)	0	0	
60%	\$0.78	0	0	0	0	0	0	201(3.7%)	3(0.1%)	15(0.3%)	
64%	\$1.35	0	0	0	0	0	0	215(3.9%)	1(0.0%)	2(0.0%)	
68%	\$1.90	0	0	0	0	0	0	202(3.7%)	14(0.3%)	3(0.1%)	
72%	\$2.39	0	0	0	0	0	0	185(3.4%)	28(0.5%)	5(0.1%)	
76%	\$2.98	0	0	0	0	0	0	149(2.7%)	53(1.0%)	16(0.3%)	
80%	\$3.59	0	0	0	0	0	0	65(1.2%)	121(2.2%)	22(0.4%)	
84%	\$4.20	0	0	0	0	0	0	19(0.3%)	140(2.6%)	50(0.9%)	
88%	\$4.85	0	0	0	0	0	0	9(0.2%)	96(1.8%)	90(1.6%)	
92%	\$5.37	0	0	0	0	0	0	6(0.1%)	51(0.9%)	117(2.1%)	
96%	\$5.99	0	0	0	0	0	0	5(0.1%)	27(0.5%)	122(2.2%)	
100%	\$12.22	0	0	0	0	0	0	4(0.1%)	31(0.6%)	117(2.1%)	
TOTAL		17 0.3%	67 1.2%	189 3.5%	2,670 48.9%	3 0.1%	8 0.1%	1,165 21.3%	565 10.3%	559 10.2%	219 4.0%
CUMULATIVE		17 0.3%	84 1.5%	273 5.0%	2,943 53.9%	2,946 53.9%	2,954 54.1%	4,119 75.4%	4,684 85.8%	5,243 96.0%	5,462 100.0%
AVG. MO DIFF.		\$-18.3	\$-23.3	\$-8.4	\$-5.0	\$-0.0	\$0.0	\$1.6	\$4.0	\$5.1	\$5.5

B-3-4

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES

Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates

AND 2015 Summer proposed 3.1 Rates using 50% BQ

FOR ANNUAL

Data From Yearly File(JAN 2011 - Dec 2011)

RES full service

----- LAST RATE SCHEDULE=E6L -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	\$-3.02	0	2(0.5%)	1(0.3%)	12(3.2%)	0	0	0	0	0	
8%	\$-1.87	0	0	1(0.3%)	15(4.0%)	0	0	0	0	0	
12%	\$-0.79	0	0	0	14(3.7%)	0	0	0	0	0	
16%	\$-0.06	0	0	0	15(4.0%)	0	0	0	0	0	
20%	\$0.37	0	0	0	1(0.3%)	0	0	15(4.0%)	0	0	
24%	\$0.71	0	0	0	0	0	0	16(4.2%)	0	0	
28%	\$0.96	0	0	0	0	0	0	14(3.7%)	0	1(0.3%)	
32%	\$1.42	0	0	0	0	0	0	15(4.0%)	0	0	
36%	\$1.74	0	0	0	0	0	0	14(3.7%)	0	1(0.3%)	
40%	\$1.93	0	0	0	0	0	0	12(3.2%)	2(0.5%)	0	
44%	\$2.37	0	0	0	0	0	0	10(2.6%)	3(0.8%)	1(0.3%)	
48%	\$2.76	0	0	0	0	0	0	7(1.8%)	5(1.3%)	3(0.8%)	
52%	\$2.99	0	0	0	0	0	0	2(0.5%)	6(1.6%)	5(1.3%)	
56%	\$3.27	0	0	0	0	0	0	6(1.6%)	1(0.3%)	3(0.8%)	
60%	\$3.55	0	0	0	0	0	0	9(2.4%)	1(0.3%)	4(1.1%)	
64%	\$3.79	0	0	0	0	0	0	1(0.3%)	5(1.3%)	3(0.8%)	
68%	\$4.16	0	0	0	0	0	0	5(1.3%)	2(0.5%)	6(1.6%)	
72%	\$4.54	0	0	0	0	0	0	1(0.3%)	0	14(3.7%)	
76%	\$5.20	0	0	0	0	0	0	5(1.3%)	2(0.5%)	8(2.1%)	
80%	\$5.79	0	0	0	0	0	0	1(0.3%)	6(1.6%)	9(2.4%)	
84%	\$6.51	0	0	0	0	0	0	3(0.8%)	7(1.8%)	5(1.3%)	
88%	\$9.10	0	0	0	0	0	0	11(2.9%)	2(0.5%)	2(0.5%)	
92%	\$12.86	0	0	0	0	0	0	14(3.7%)	1(0.3%)	0	
96%	\$17.55	0	0	0	0	0	0	14(3.7%)	1(0.3%)	0	
100%	\$47.67	0	0	0	0	0	0	14(3.7%)	1(0.3%)	0	
TOTAL		0	2	2	57	0	0	189	45	65	19
		0.0%	0.5%	0.5%	15.0%	0.0%	0.0%	49.9%	11.9%	17.2%	5.0%
CUMULATIVE		0	2	4	61	61	61	250	295	360	379
		0.0%	0.5%	1.1%	16.1%	16.1%	16.1%	66.0%	77.8%	95.0%	100.0%
AVG.MO DIFF.			\$-6.2	\$-2.5	\$-2.0			\$5.8	\$5.0	\$4.3	\$3.3

B-3-5

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES

Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates

AND 2015 Summer proposed 3.1 Rates using 50% BQ

FOR ANNUAL

Data From Yearly File(JAN 2011 - Dec 2011)

RES full service

----- LAST RATE SCHEDULE=E7 -----

\$ MONTHLY \$ PCT DIFFERENCE	BELOW -20% DECREASE	-20 - -10% DECREASE	-10 - -5% DECREASE	-5 - -0.01% DECREASE	-0.01 - 0% DECREASE	0 - 0.01% INCREASE	0.01 - 5% INCREASE	5 - 10% INCREASE	10 - 20% INCREASE	ABOVE 20% INCREASE	
4%	\$6.52	6(0.0%)	27(0.0%)	80(0.1%)	193(0.3%)	0	1(0.0%)	1,168(2.0%)	377(0.7%)	164(0.3%)	308(0.5%)
8%	\$7.79	0	0	0	0	0	0	534(0.9%)	1,276(2.2%)	200(0.3%)	298(0.5%)
12%	\$8.58	0	0	0	0	0	0	296(0.5%)	1,396(2.4%)	329(0.6%)	280(0.5%)
16%	\$9.23	0	0	0	0	0	0	246(0.4%)	1,318(2.3%)	465(0.8%)	303(0.5%)
20%	\$9.82	0	0	0	0	0	0	205(0.4%)	1,218(2.1%)	559(1.0%)	357(0.6%)
24%	\$10.37	0	0	0	0	0	0	198(0.3%)	1,072(1.9%)	608(1.1%)	402(0.7%)
28%	\$10.89	0	0	0	0	0	0	167(0.3%)	1,090(1.9%)	574(1.0%)	484(0.8%)
32%	\$11.41	0	0	0	0	0	0	144(0.2%)	1,026(1.8%)	702(1.2%)	470(0.8%)
36%	\$11.89	0	0	0	0	0	0	116(0.2%)	994(1.7%)	680(1.2%)	472(0.8%)
40%	\$12.39	0	0	0	0	0	0	143(0.2%)	921(1.6%)	716(1.2%)	565(1.0%)
44%	\$12.89	0	0	0	0	0	0	100(0.2%)	928(1.6%)	646(1.1%)	618(1.1%)
48%	\$13.38	0	0	0	0	0	0	104(0.2%)	941(1.6%)	532(0.9%)	742(1.3%)
52%	\$13.91	0	0	0	0	0	0	101(0.2%)	949(1.6%)	465(0.8%)	769(1.3%)
56%	\$14.55	0	0	0	0	0	0	101(0.2%)	1,057(1.8%)	463(0.8%)	718(1.2%)
60%	\$15.25	0	0	0	0	0	0	96(0.2%)	1,093(1.9%)	426(0.7%)	677(1.2%)
64%	\$16.03	0	0	0	0	0	0	103(0.2%)	1,182(2.0%)	477(0.8%)	543(0.9%)
68%	\$16.92	0	0	0	0	0	0	99(0.2%)	1,166(2.0%)	516(0.9%)	549(1.0%)
72%	\$17.85	0	0	0	0	0	0	63(0.1%)	1,081(1.9%)	591(1.0%)	551(1.0%)
76%	\$18.86	0	0	0	0	0	0	60(0.1%)	1,097(1.9%)	682(1.2%)	477(0.8%)
80%	\$19.98	0	0	0	0	0	0	66(0.1%)	987(1.7%)	812(1.4%)	456(0.8%)
84%	\$21.28	0	0	0	0	0	0	41(0.1%)	968(1.7%)	838(1.5%)	453(0.8%)
88%	\$22.92	0	0	0	0	0	0	49(0.1%)	940(1.6%)	838(1.5%)	484(0.8%)
92%	\$25.28	0	0	0	0	0	0	50(0.1%)	980(1.7%)	772(1.3%)	509(0.9%)
96%	\$30.20	0	0	0	0	0	0	50(0.1%)	1,131(2.0%)	619(1.1%)	510(0.9%)
100%	\$298.65	0	0	0	0	0	0	45(0.1%)	1,269(2.2%)	593(1.0%)	400(0.7%)
TOTAL		6 0.0%	27 0.0%	80 0.1%	193 0.3%	0 0.0%	1 0.0%	4,345 7.5%	26,457 45.8%	14,267 24.7%	12,395 21.5%
CUMULATIVE		6 0.0%	33 0.1%	113 0.2%	306 0.5%	306 0.5%	307 0.5%	4,652 8.1%	31,109 53.8%	45,376 78.5%	57,771 100.0%
AVG.MO DIFF.		\$-26.9	\$-53.6	\$-23.9	\$-5.9		\$0.0	\$10.1	\$15.9	\$16.6	\$15.5

B-3-6

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES

Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates

AND 2015 Summer proposed 3.1 Rates using 50% BQ

FOR ANNUAL

Data From Yearly File(JAN 2011 - Dec 2011)

RES full service

----- LAST RATE SCHEDULE=E7L -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	\$-10.36	0	15(0.2%)	217(2.8%)	78(1.0%)	0	0	0	0	0	
8%	\$-7.65	2(0.0%)	1(0.0%)	176(2.3%)	131(1.7%)	0	0	0	0	0	
12%	\$-5.95	0	0	107(1.4%)	208(2.7%)	0	0	0	0	0	
16%	\$-4.65	0	0	60(0.8%)	248(3.2%)	0	0	0	0	0	
20%	\$-3.75	0	0	15(0.2%)	297(3.8%)	0	0	0	0	0	
24%	\$-3.05	0	0	4(0.1%)	306(3.9%)	0	0	0	0	0	
28%	\$-2.44	1(0.0%)	1(0.0%)	0	307(4.0%)	0	0	0	0	0	
32%	\$-1.92	1(0.0%)	0	0	308(4.0%)	0	0	0	0	0	
36%	\$-1.40	1(0.0%)	2(0.0%)	2(0.0%)	307(4.0%)	0	0	0	0	0	
40%	\$-0.91	0	1(0.0%)	1(0.0%)	308(4.0%)	0	0	0	0	0	
44%	\$-0.42	0	0	0	311(4.0%)	0	0	0	0	0	
48%	\$0.03	0	0	3(0.0%)	281(3.6%)	5(0.1%)	4(0.1%)	15(0.2%)	0	0	
52%	\$0.59	0	0	0	0	0	0	311(4.0%)	1(0.0%)	0	
56%	\$1.14	0	0	0	0	0	0	304(3.9%)	1(0.0%)	3(0.0%)	
60%	\$1.63	0	0	0	0	0	0	305(3.9%)	2(0.0%)	3(0.0%)	
64%	\$2.17	0	0	0	0	0	0	274(3.5%)	30(0.4%)	5(0.1%)	
68%	\$2.64	0	0	0	0	0	0	192(2.5%)	102(1.3%)	11(0.1%)	
72%	\$3.03	0	0	0	0	0	0	98(1.3%)	129(1.7%)	52(0.7%)	
76%	\$3.34	0	0	0	0	0	0	63(0.8%)	107(1.4%)	122(1.6%)	
80%	\$3.67	0	0	0	0	0	0	51(0.7%)	109(1.4%)	144(1.9%)	
84%	\$3.98	0	0	0	0	0	0	43(0.6%)	108(1.4%)	139(1.8%)	
88%	\$4.39	0	0	0	0	0	0	49(0.6%)	128(1.7%)	122(1.6%)	
92%	\$5.04	0	0	0	0	0	0	42(0.5%)	146(1.9%)	109(1.4%)	
96%	\$6.28	0	0	0	0	0	0	36(0.5%)	172(2.2%)	83(1.1%)	
100%	\$97.47	0	0	0	0	0	0	60(0.8%)	154(2.0%)	81(1.0%)	
TOTAL		5	20	585	3,090	5	4	1,843	1,189	874	142
		0.1%	0.3%	7.5%	39.8%	0.1%	0.1%	23.8%	15.3%	11.3%	1.8%
CUMULATIVE		5	25	610	3,700	3,705	3,709	5,552	6,741	7,615	7,757
		0.1%	0.3%	7.9%	47.7%	47.8%	47.8%	71.6%	86.9%	98.2%	100.0%
AVG.MO DIFF.		\$-5.2	\$-14.3	\$-9.9	\$-3.1	\$-0.0	\$0.0	\$2.3	\$4.9	\$4.6	\$4.3

B-3-7

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES

Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates

AND 2015 Summer proposed 3.1 Rates using 50% BQ

FOR ANNUAL

Data From Yearly File(JAN 2011 - Dec 2011)

RES full service

----- LAST RATE SCHEDULE=E8 -----

\$ PCT	MONTHLY \$ DIFFERENCE	BELOW -20% DECREASE	-20 - -10% DECREASE	-10 - -5% DECREASE	-5 - -0.01% DECREASE	-0.01 - 0% DECREASE	0 - 0.01% INCREASE	0.01 - 5% INCREASE	5 - 10% INCREASE	10 - 20% INCREASE	ABOVE 20% INCREASE
4%	\$5.27	0	5(0.0%)	60(0.1%)	205(0.5%)	0	33(0.1%)	636(1.4%)	666(1.5%)	151(0.3%)	0
8%	\$6.62	0	0	0	0	0	0	511(1.2%)	1,002(2.3%)	250(0.6%)	0
12%	\$7.57	0	0	0	0	0	0	191(0.4%)	1,320(3.0%)	253(0.6%)	0
16%	\$8.45	0	0	0	0	0	0	136(0.3%)	1,248(2.8%)	367(0.8%)	0
20%	\$9.33	0	0	0	0	0	0	82(0.2%)	1,383(3.1%)	289(0.7%)	0
24%	\$10.32	0	0	0	0	0	0	54(0.1%)	1,501(3.4%)	223(0.5%)	0
28%	\$11.37	0	0	0	0	0	0	48(0.1%)	1,511(3.4%)	179(0.4%)	0
32%	\$12.41	0	0	0	0	0	0	33(0.1%)	1,520(3.5%)	211(0.5%)	0
36%	\$13.35	0	0	0	0	0	0	17(0.0%)	1,487(3.4%)	244(0.6%)	0
40%	\$14.27	0	0	0	0	0	0	10(0.0%)	1,489(3.4%)	259(0.6%)	0
44%	\$15.12	0	0	0	0	0	0	5(0.0%)	1,520(3.5%)	238(0.5%)	0
48%	\$15.92	0	0	0	0	0	0	2(0.0%)	1,501(3.4%)	246(0.6%)	0
52%	\$16.78	0	0	0	0	0	0	3(0.0%)	1,526(3.5%)	236(0.5%)	0
56%	\$17.69	0	0	0	0	0	0	1(0.0%)	1,527(3.5%)	218(0.5%)	0
60%	\$18.74	0	0	0	0	0	0	1(0.0%)	1,560(3.6%)	190(0.4%)	0
64%	\$19.98	0	0	0	0	0	0	0	1,623(3.7%)	135(0.3%)	0
68%	\$21.46	0	0	0	0	0	0	0	1,629(3.7%)	132(0.3%)	0
72%	\$23.14	0	0	0	0	0	0	0	1,649(3.8%)	103(0.2%)	0
76%	\$25.37	0	0	0	0	0	0	1(0.0%)	1,691(3.9%)	71(0.2%)	0
80%	\$28.01	0	0	0	0	0	0	2(0.0%)	1,680(3.8%)	71(0.2%)	0
84%	\$31.57	0	0	0	0	0	0	0	1,664(3.8%)	89(0.2%)	0
88%	\$36.63	0	0	0	0	0	0	0	1,669(3.8%)	87(0.2%)	0
92%	\$44.69	0	0	0	0	0	0	0	1,600(3.6%)	155(0.4%)	0
96%	\$62.23	0	0	0	0	0	0	0	1,344(3.1%)	412(0.9%)	0
100%	1340.06	0	0	0	0	0	0	0	607(1.4%)	1,149(2.6%)	0
TOTAL		0	5	60	205	0	33	1,733	35,917	5,958	0
		0.0%	0.0%	0.1%	0.5%	0.0%	0.1%	3.9%	81.8%	13.6%	0.0%
CUMULATIVE		0	5	65	270	270	303	2,036	37,953	43,911	43,911
		0.0%	0.0%	0.1%	0.6%	0.6%	0.7%	4.6%	86.4%	100.0%	100.0%
AVG. MO DIFF.			-\$133.4	-\$36.5	-\$8.1		\$0.0	\$6.1	\$20.4	\$38.6	

B-3-8

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Rates
 AND 2015 Summer proposed 3.1 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E8L -----

\$ MONTHLY \$ PCT DIFFERENCE	BELOW -20% DECREASE	-20 - -10% DECREASE	-10 - -5% DECREASE	-5 - -0.01% DECREASE	-0.01 - 0% DECREASE	0 - 0.01% INCREASE	0.01 - 5% INCREASE	5 - 10% INCREASE	10 - 20% INCREASE	ABOVE 20% INCREASE
4%	\$7.92	0	0	0	0	4(0.0%)	2(0.0%)	8(0.1%)	322(3.7%)	12(0.1%)
8%	\$9.10	0	0	0	0	0	0	0	292(3.4%)	55(0.6%)
12%	\$10.19	0	0	0	0	0	0	0	288(3.3%)	62(0.7%)
16%	\$11.19	0	0	0	0	0	0	0	293(3.4%)	53(0.6%)
20%	\$12.20	0	0	0	0	0	0	0	304(3.5%)	47(0.5%)
24%	\$13.11	0	0	0	0	0	0	0	283(3.3%)	61(0.7%)
28%	\$14.13	0	0	0	0	0	0	0	288(3.3%)	65(0.7%)
32%	\$15.01	0	0	0	0	0	0	0	287(3.3%)	57(0.7%)
36%	\$15.90	0	0	0	0	0	0	0	299(3.4%)	49(0.6%)
40%	\$16.83	0	0	0	0	0	0	0	301(3.5%)	53(0.6%)
44%	\$17.59	0	0	0	0	0	0	0	276(3.2%)	65(0.7%)
48%	\$18.25	0	0	0	0	0	0	0	293(3.4%)	57(0.7%)
52%	\$18.93	0	0	0	0	0	0	0	315(3.6%)	34(0.4%)
56%	\$19.73	0	0	0	0	0	0	0	299(3.4%)	46(0.5%)
60%	\$20.60	0	0	0	0	0	0	0	311(3.6%)	38(0.4%)
64%	\$21.68	0	0	0	0	0	0	0	305(3.5%)	41(0.5%)
68%	\$22.63	0	0	0	0	0	0	0	304(3.5%)	44(0.5%)
72%	\$23.84	0	0	0	0	0	0	0	295(3.4%)	57(0.7%)
76%	\$25.17	0	0	0	0	0	0	0	291(3.3%)	53(0.6%)
80%	\$27.00	0	0	0	0	0	0	0	315(3.6%)	31(0.4%)
84%	\$29.53	0	0	0	0	0	0	0	312(3.6%)	35(0.4%)
88%	\$32.34	0	0	0	0	0	0	0	305(3.5%)	44(0.5%)
92%	\$36.71	0	0	0	0	0	0	0	318(3.7%)	28(0.3%)
96%	\$45.75	0	0	0	0	0	0	0	336(3.9%)	12(0.1%)
100%	\$860.64	0	0	0	0	0	0	0	340(3.9%)	7(0.1%)
TOTAL		0	0	0	0	4	2	8	7,572	1,106
		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	87.1%	12.7%
CUMULATIVE		0	0	0	0	4	6	14	7,586	8,692
		0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	87.3%	100.0%
AVG.MO DIFF.						\$0.0	\$0.2	\$1.3	\$22.2	\$18.3

B-3-9

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Total Annual Bill Summary by Rate Schedules
 Comparison Between 2015 Summer proposed 3.1 Rates using 50% BQ
 AND 2016 Summer proposed 3.1 Rates using 50% BQ
 Data From Yearly File(JAN 2011 - Dec 2011)

LAST RATE SCHEDULE	COUNT	ANNUAL TOTAL KWH	TOTAL ANNUAL CURRENT BILLS	CURRENT AVG RATE	TOTAL ANNUAL PROPOSED BILLS	PROPOSED AVG RATE	DIFFERENCE (PROPOSED-CURRENT)	(PROPOSED-CURRENT)/CURRENT	MAX DIFFERENCE	MIN DIFFERENCE
E1	2,815,104	18,278,276,127	\$3,595,688,391	0.19672	\$3,557,246,592	0.19462	\$-38,441,800	(1.07%)	\$67	\$-124,384
E1L	1,156,472	7,576,011,970	\$873,713,155	0.11533	\$945,457,532	0.12480	\$71,744,376	8.21%	\$393	\$17
E6	5,462	52,512,188	\$10,778,216	0.20525	\$9,954,734	0.18957	\$-823,482	(7.64%)	\$62	\$-28,339
E6L	379	6,078,576	\$730,180	0.12012	\$757,612	0.12464	\$27,432	3.76%	\$286	\$28
E7	57,771	606,295,672	\$122,726,657	0.20242	\$116,373,691	0.19194	\$-6,352,966	(5.18%)	\$82	\$-11,409
E7L	7,757	84,873,446	\$9,675,012	0.11399	\$10,293,769	0.12128	\$618,757	6.40%	\$355	\$21
E8	43,911	675,567,529	\$152,099,612	0.22514	\$137,917,107	0.20415	\$-14,182,505	(9.32%)	\$185	\$-28,803
E8L	8,692	136,763,391	\$17,176,939	0.12560	\$17,725,997	0.12961	\$549,058	3.20%	\$340	\$0
TOTAL	4,095,548	27,416,378,899	\$4,782,588,163	0.17444	\$4,795,727,035	0.17492	\$13,138,872	0.27%	\$1,770	\$-192,870

B-3-10

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2015 Summer proposed 3.1 Rates using 50% BQ
 AND 2016 Summer proposed 3.1 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E1 -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	-27.75	0	99,281(3.5%)	13,353(0.5%)	0	0	0	0	0	0	
8%	-16.63	0	8,423(0.3%)	104,227(3.7%)	20(0.0%)	0	0	0	0	0	
12%	-10.66	0	29(0.0%)	108,925(3.9%)	3,718(0.1%)	0	0	0	0	0	
16%	\$-6.61	0	0	43,683(1.6%)	69,007(2.5%)	0	0	0	0	0	
20%	\$-3.60	0	0	302(0.0%)	112,123(4.0%)	0	0	0	0	0	
24%	\$-1.25	0	0	3(0.0%)	112,918(4.0%)	0	0	0	0	0	
28%	\$0.56	0	0	0	73,364(2.6%)	859(0.0%)	855(0.0%)	37,151(1.3%)	0	0	
32%	\$1.98	0	0	0	0	0	0	112,888(4.0%)	7(0.0%)	0	
36%	\$3.06	0	0	0	0	0	0	111,750(4.0%)	712(0.0%)	7(0.0%)	
40%	\$3.86	0	0	0	0	0	0	105,536(3.7%)	8,323(0.3%)	214(0.0%)	
44%	\$4.41	0	0	0	0	0	0	72,079(2.6%)	40,282(1.4%)	991(0.0%)	
48%	\$4.76	0	0	0	0	0	0	35,776(1.3%)	73,245(2.6%)	2,652(0.1%)	
52%	\$4.94	0	0	0	0	0	0	16,730(0.6%)	141,347(5.0%)	64,218(2.3%)	
60%	\$4.97	0	0	0	0	0	0	20,129(0.7%)	203,198(7.2%)	163,102(5.8%)	
76%	\$4.98	0	0	0	0	0	0	16,390(0.6%)	176,498(6.3%)	152,137(5.4%)	
92%	\$5.00	0	0	0	0	0	0	13,040(0.5%)	133,352(4.7%)	116,317(4.1%)	
100%	\$5.14	0	0	0	0	0	0	592(0.0%)	7,894(0.3%)	9,875(0.4%)	
TOTAL		0	107,733	270,493	371,150	859	855	542,061	784,858	509,513	227,582
		0.0%	3.8%	9.6%	13.2%	0.0%	0.0%	19.3%	27.9%	18.1%	8.1%
CUMULATIVE		0	107,733	378,226	749,376	750,235	751,090	1293151	2078009	2587522	2815104
		0.0%	3.8%	13.4%	26.6%	26.7%	26.7%	45.9%	73.8%	91.9%	100.0%
AVG.MO DIFF.			\$-58.4	\$-16.6	\$-4.0	\$-0.0	\$0.0	\$3.0	\$4.9	\$5.0	\$5.0

B-3-11

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2015 Summer proposed 3.1 Rates using 50% BQ
 AND 2016 Summer proposed 3.1 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E1L -----

PCT	MONTHLY \$ DIFFERENCE	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
		DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	\$3.29	0	0	0	0	0	0	0	6(0.0%)	62(0.0%)	47,482(4.1%)
8%	\$3.54	0	0	0	0	0	0	2(0.0%)	9(0.0%)	32,642(2.8%)	13,853(1.2%)
12%	\$3.74	0	0	0	0	0	0	1(0.0%)	29(0.0%)	46,894(4.1%)	0
16%	\$3.91	0	0	0	0	0	0	5(0.0%)	30(0.0%)	44,572(3.9%)	0
20%	\$4.08	0	0	0	0	0	0	4(0.0%)	58(0.0%)	47,429(4.1%)	0
24%	\$4.24	0	0	0	0	0	0	6(0.0%)	121(0.0%)	47,136(4.1%)	0
28%	\$4.39	0	0	0	0	0	0	9(0.0%)	253(0.0%)	44,550(3.9%)	0
32%	\$4.54	0	0	0	0	0	0	19(0.0%)	516(0.0%)	44,535(3.9%)	0
36%	\$4.70	0	0	0	0	0	0	45(0.0%)	1,325(0.1%)	47,471(4.1%)	0
40%	\$4.85	0	0	0	0	0	0	62(0.0%)	2,784(0.2%)	43,428(3.8%)	0
44%	\$4.99	0	0	0	0	0	0	202(0.0%)	6,512(0.6%)	38,568(3.3%)	0
48%	\$5.11	0	0	0	0	0	0	664(0.1%)	15,792(1.4%)	28,341(2.5%)	0
52%	\$5.18	0	0	0	0	0	0	7,888(0.7%)	29,543(2.6%)	14,768(1.3%)	0
56%	\$5.35	0	0	0	0	0	0	171(0.0%)	8,243(0.7%)	32,976(2.9%)	0
60%	\$5.54	0	0	0	0	0	0	111(0.0%)	21,770(1.9%)	24,655(2.1%)	0
64%	\$5.72	0	0	0	0	0	0	187(0.0%)	37,466(3.2%)	7,714(0.7%)	0
68%	\$5.90	0	0	0	0	0	0	392(0.0%)	43,343(3.7%)	3,744(0.3%)	0
72%	\$6.05	0	0	0	0	0	0	926(0.1%)	42,107(3.6%)	2,027(0.2%)	0
76%	\$6.12	0	0	0	0	0	0	9,487(0.8%)	35,949(3.1%)	381(0.0%)	0
80%	\$6.34	0	0	0	0	0	0	2,604(0.2%)	44,152(3.8%)	40(0.0%)	0
84%	\$6.56	0	0	0	0	0	0	3,857(0.3%)	41,847(3.6%)	0	0
88%	\$6.77	0	0	0	0	0	0	3,469(0.3%)	44,192(3.8%)	0	0
92%	\$6.97	0	0	0	0	0	0	13,657(1.2%)	32,337(2.8%)	0	0
96%	\$7.78	0	0	0	0	0	0	16,872(1.5%)	28,037(2.4%)	0	0
100%	\$32.77	0	0	0	0	0	0	6,338(0.5%)	39,805(3.4%)	0	0
TOTAL		0	0	0	0	0	0	66,978	476,226	551,933	61,335
		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.8%	41.2%	47.7%	5.3%
CUMULATIVE		0	0	0	0	0	0	66,978	543,204	1095137	1156472
		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.8%	47.0%	94.7%	100.0%
AVG. MO DIFF.								\$6.8	\$6.3	\$4.5	\$3.1

B-3-12

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Total Annual Bill Summary by Rate Schedules
 Comparison Between 2016 Summer proposed 3.1 Rates using 50% BQ
 AND 2017 Summer proposed 3.1 Rates using 50% BQ
 Data From Yearly File(JAN 2011 - Dec 2011)

LAST RATE SCHEDULE	COUNT	ANNUAL TOTAL KWH	TOTAL ANNUAL CURRENT BILLS	CURRENT AVG RATE	TOTAL ANNUAL PROPOSED BILLS	PROPOSED AVG RATE	DIFFERENCE (PROPOSED-CURRENT)	(PROPOSED-CURRENT)/CURRENT	MAX DIFFERENCE	MIN DIFFERENCE
E1	2,815,104	18,278,276,127	\$3,557,246,592	0.19462	\$3,507,615,367	0.19190	\$-49,631,225	(1.40%)	\$1,258	\$-120,649
E1L	1,156,472	7,576,011,970	\$945,457,532	0.12480	\$960,782,122	0.12682	\$15,324,590	1.62%	\$319	\$-3,441
E6	5,462	52,512,188	\$9,954,734	0.18957	\$9,160,205	0.17444	\$-794,529	(7.98%)	\$338	\$-27,475
E6L	379	6,078,576	\$757,612	0.12464	\$714,814	0.11760	\$-42,798	(5.65%)	\$203	\$-2,203
E7	57,771	606,295,672	\$116,373,691	0.19194	\$111,073,156	0.18320	\$-5,300,535	(4.55%)	\$532	\$-11,058
E7L	7,757	84,873,446	\$10,293,769	0.12128	\$10,315,854	0.12154	\$22,084	0.21%	\$214	\$-3,085
E8	43,911	675,567,529	\$137,917,107	0.20415	\$126,528,076	0.18729	\$-11,389,032	(8.26%)	\$669	\$-28,773
E8L	8,692	136,763,391	\$17,725,997	0.12961	\$17,432,001	0.12746	\$-293,995	(1.66%)	\$277	\$-9,109
TOTAL	4,095,548	27,416,378,899	\$4,795,727,035	0.17492	\$4,743,621,594	0.17302	\$-52,105,440	(1.09%)	\$3,809	\$-205,793

B-3-13

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2016 Summer proposed 3.1 Rates using 50% BQ
 AND 2017 Summer proposed 3.1 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E1 -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	-25.84	2,057(0.1%)	101,774(3.6%)	8,784(0.3%)	0	0	0	0	0	0	
8%	-15.17	0	20,322(0.7%)	91,807(3.3%)	553(0.0%)	0	0	0	0	0	
12%	\$-9.44	0	145(0.0%)	103,736(3.7%)	8,756(0.3%)	0	0	0	0	0	
16%	\$-5.58	0	35(0.0%)	30,311(1.1%)	82,283(2.9%)	0	0	0	0	0	
20%	\$-2.73	0	5(0.0%)	503(0.0%)	112,078(4.0%)	0	0	0	0	0	
24%	\$-0.56	0	0	29(0.0%)	112,714(4.0%)	0	0	0	0	0	
28%	\$0.56	0	0	0	34,137(1.2%)	829(0.0%)	846(0.0%)	77,994(2.8%)	0	0	
32%	\$1.13	0	0	0	0	0	0	79,819(2.8%)	32,339(1.1%)	0	
36%	\$1.57	0	0	0	0	0	0	39,190(1.4%)	74,041(2.6%)	0	
40%	\$1.93	0	0	0	0	0	0	34,898(1.2%)	76,745(2.7%)	0	
44%	\$2.25	0	0	0	0	0	0	34,727(1.2%)	80,258(2.9%)	0	
48%	\$2.53	0	0	0	0	0	0	33,160(1.2%)	79,160(2.8%)	0	
52%	\$2.78	0	0	0	0	0	0	32,179(1.1%)	80,836(2.9%)	0	
56%	\$3.00	0	0	0	0	0	0	30,147(1.1%)	80,798(2.9%)	0	
60%	\$3.21	0	0	0	0	0	0	31,630(1.1%)	83,759(3.0%)	0	
64%	\$3.40	0	0	0	0	0	0	30,469(1.1%)	78,827(2.8%)	0	
68%	\$3.60	0	0	0	0	0	0	33,305(1.2%)	83,092(3.0%)	0	
72%	\$3.80	0	0	0	0	0	0	31,723(1.1%)	79,424(2.8%)	0	
76%	\$4.02	0	0	0	0	0	0	29,737(1.1%)	82,169(2.9%)	0	
80%	\$4.23	0	0	0	0	0	0	29,075(1.0%)	82,456(2.9%)	0	
84%	\$4.44	0	0	0	0	0	0	28,663(1.0%)	82,852(2.9%)	0	
88%	\$4.67	0	0	0	0	0	0	29,412(1.0%)	85,027(3.0%)	0	
92%	\$4.96	0	0	0	0	0	0	27,464(1.0%)	85,150(3.0%)	0	
96%	\$5.62	0	0	0	0	0	0	23,763(0.8%)	87,028(3.1%)	0	
100%	104.83	0	0	0	0	0	0	17,900(0.6%)	94,184(3.3%)	0	
TOTAL		2,057 0.1%	122,281 4.3%	235,170 8.4%	350,521 12.5%	829 0.0%	846 0.0%	675,255 24.0%	1428145 50.7%	0 0.0%	0 0.0%
CUMULATIVE		2,057 0.1%	124,338 4.4%	359,508 12.8%	710,029 25.2%	710,858 25.3%	711,704 25.3%	1386959 49.3%	2815104 100.0%	2815104 100.0%	2815104 100.0%
AVG. MO DIFF.		\$-327.8	\$-46.6	\$-15.0	\$-3.8	\$-0.0	\$0.0	\$2.8	\$3.7		

B-3-14

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2016 Summer proposed 3.1 Rates using 50% BQ
 AND 2017 Summer proposed 3.1 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E1L -----

B-3-15

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	\$-4.68	0	1,533(0.1%)	20,150(1.7%)	24,609(2.1%)	0	0	0	0	0
8%	\$-1.33	0	0	14(0.0%)	46,273(4.0%)	0	0	0	0	0
12%	\$0.16	0	0	0	38,580(3.3%)	418(0.0%)	414(0.0%)	7,161(0.6%)	0	0
16%	\$0.69	0	0	0	0	0	0	47,059(4.1%)	0	0
20%	\$0.91	0	0	0	0	0	0	45,580(3.9%)	0	0
24%	\$1.08	0	0	0	0	0	0	47,091(4.1%)	0	0
28%	\$1.22	0	0	0	0	0	0	45,568(3.9%)	0	0
32%	\$1.35	0	0	0	0	0	0	46,499(4.0%)	0	0
36%	\$1.47	0	0	0	0	0	0	45,735(4.0%)	0	0
40%	\$1.59	0	0	0	0	0	0	47,920(4.1%)	0	0
44%	\$1.70	0	0	0	0	0	0	45,877(4.0%)	0	0
48%	\$1.81	0	0	0	0	0	0	46,631(4.0%)	0	0
52%	\$1.92	0	0	0	0	0	0	47,129(4.1%)	0	0
56%	\$2.03	0	0	0	0	0	0	47,393(4.1%)	0	0
60%	\$2.13	0	0	0	0	0	0	43,557(3.8%)	0	0
64%	\$2.24	0	0	0	0	0	0	47,213(4.1%)	0	0
68%	\$2.35	0	0	0	0	0	0	46,083(4.0%)	0	0
72%	\$2.47	0	0	0	0	0	0	45,805(4.0%)	2(0.0%)	0
76%	\$2.60	0	0	0	0	0	0	44,584(3.9%)	624(0.1%)	0
80%	\$2.74	0	0	0	0	0	0	43,717(3.8%)	2,321(0.2%)	0
84%	\$2.89	0	0	0	0	0	0	43,774(3.8%)	2,801(0.2%)	0
88%	\$3.07	0	0	0	0	0	0	43,985(3.8%)	3,631(0.3%)	0
92%	\$3.31	0	0	0	0	0	0	40,002(3.5%)	4,972(0.4%)	0
96%	\$4.04	0	0	0	0	0	0	31,739(2.7%)	13,924(1.2%)	0
100%	\$26.58	0	0	0	0	0	0	21,992(1.9%)	24,112(2.1%)	0
TOTAL		0	1,533	20,164	109,462	418	414	972,094	52,387	0
		0.0%	0.1%	1.7%	9.5%	0.0%	0.0%	84.1%	4.5%	0.0%
CUMULATIVE		0	1,533	21,697	131,159	131,577	131,991	1104085	1156472	1156472
		0.0%	0.1%	1.9%	11.3%	11.4%	11.4%	95.5%	100.0%	100.0%
AVG.MO DIFF.			\$-87.0	\$-20.3	\$-2.9	\$-0.0	\$0.0	\$2.0	\$4.2	

A PERCENTAGE DIFFERENCE WHICH FALLS ON A COLUMN BOUNDARY IS INCLUDED IN THE HIGHER COLUMN

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES

Total Annual Bill Summary by Rate Schedules

Comparison Between 2017 Summer proposed 3.1 Rates using 50% BQ

AND 2018 Summer proposed 3.1 Rates using 50% BQ

Data From Yearly File(JAN 2011 - Dec 2011)

LAST RATE SCHEDULE	COUNT	ANNUAL TOTAL KWH	TOTAL ANNUAL CURRENT BILLS	CURRENT AVG RATE	TOTAL ANNUAL PROPOSED BILLS	PROPOSED AVG RATE	DIFFERENCE (PROPOSED-CURRENT)	(PROPOSED-CURRENT)/CURRENT	MAX DIFFERENCE	MIN DIFFERENCE
E1	2,815,104	18,278,276,127	\$3,507,615,367	0.19190	\$3,471,639,013	0.18993	\$-35,976,354	(1.03%)	\$4	\$-5,844
E1L	1,156,472	7,576,011,970	\$960,782,122	0.12682	\$949,703,366	0.12536	\$-11,078,756	(1.15%)	\$2	\$-378
E6	5,462	52,512,188	\$9,160,205	0.17444	\$9,045,129	0.17225	\$-115,076	(1.26%)	\$4	\$-1,348
E6L	379	6,078,576	\$714,814	0.11760	\$703,729	0.11577	\$-11,086	(1.55%)	\$0	\$-263
E7	57,771	606,295,672	\$111,073,156	0.18320	\$109,728,712	0.18098	\$-1,344,444	(1.21%)	\$4	\$-554
E7L	7,757	84,873,446	\$10,315,854	0.12154	\$10,180,635	0.11995	\$-135,219	(1.31%)	\$2	\$-339
E8	43,911	675,567,529	\$126,528,076	0.18729	\$124,834,460	0.18478	\$-1,693,616	(1.34%)	\$0	\$-1,381
E8L	8,692	136,763,391	\$17,432,001	0.12746	\$17,188,149	0.12568	\$-243,852	(1.40%)	\$0	\$-982
TOTAL	4,095,548	27,416,378,899	\$4,743,621,594	0.17302	\$4,693,023,192	0.17118	\$-50,598,402	(1.07%)	\$15	\$-11,088

B-3-16

RATE DATA ANALYSIS :RATEP.DR5238.JCL(RPT31) PACIFIC GAS AND ELECTRIC COMPANY 11:29 Wednesday, February 26, 2014
CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
Comparison Between 2017 Summer proposed 3.1 Rates using 50% BQ
AND 2018 Summer proposed 3.1 Rates using 50% BQ
FOR ANNUAL
Data From Yearly File(JAN 2011 - Dec 2011)
RES full service

----- LAST RATE SCHEDULE=E1 -----

B-3-17

PCT	MONTHLY \$ DIFFERENCE	-10 -									
		BELOW -20% DECREASE	-20 - -10% DECREASE	-5% DECREASE	-5 - -0.01% DECREASE	-0.01 - 0% DECREASE	0 - 0.01% INCREASE	0.01 - 5% INCREASE	5 - 10% INCREASE	10 - 20% INCREASE	ABOVE 20% INCREASE
4%	-3.06	0	0	0	113,360(4.0%)	0	0	0	0	0	0
8%	-2.46	0	0	0	114,090(4.1%)	0	0	0	0	0	0
12%	-2.13	0	0	0	112,307(4.0%)	0	0	0	0	0	0
16%	-1.89	0	0	0	113,211(4.0%)	0	0	0	0	0	0
20%	-1.70	0	0	0	114,114(4.1%)	0	0	0	0	0	0
24%	-1.54	0	0	0	115,667(4.1%)	0	0	0	0	0	0
28%	-1.41	0	0	0	109,376(3.9%)	0	0	0	0	0	0
32%	-1.29	0	0	0	113,422(4.0%)	0	0	0	0	0	0
36%	-1.18	0	0	0	115,423(4.1%)	0	0	0	0	0	0
40%	-1.08	0	0	0	113,789(4.0%)	0	0	0	0	0	0
44%	\$-.99	0	0	0	109,741(3.9%)	0	0	0	0	0	0
48%	\$-.90	0	0	0	116,317(4.1%)	0	0	0	0	0	0
52%	\$-.82	0	0	0	108,187(3.8%)	0	0	0	0	0	0
56%	\$-.74	0	0	0	112,340(4.0%)	0	0	0	0	0	0
60%	\$-.66	0	0	0	115,220(4.1%)	0	0	0	0	0	0
64%	\$-.58	0	0	0	117,795(4.2%)	0	0	0	0	0	0
68%	\$-.51	0	0	0	103,366(3.7%)	0	0	0	0	0	0
72%	\$-.43	0	0	0	118,788(4.2%)	0	0	0	0	0	0
76%	\$-.36	0	0	0	103,392(3.7%)	0	0	0	0	0	0
80%	\$-.28	0	0	0	116,132(4.1%)	0	0	0	0	0	0
84%	\$-.20	0	0	0	112,043(4.0%)	0	0	0	0	0	0
88%	\$-.11	0	0	0	116,550(4.1%)	0	0	0	0	0	0
92%	\$-.01	0	0	0	112,554(4.0%)	0	0	0	0	0	0
96%	\$0.12	0	0	0	2,092(0.1%)	2,969(0.1%)	3,041(0.1%)	103,159(3.7%)	0	0	0
100%	\$0.31	0	0	0	0	0	0	106,659(3.8%)	0	0	0
TOTAL		0	0	0	2599276	2,969	3,041	209,818	0	0	0
		0.0%	0.0%	0.0%	92.3%	0.1%	0.1%	7.5%	0.0%	0.0%	0.0%
CUMULATIVE		0	0	0	2599276	2602245	2605286	2815104	2815104	2815104	2815104
		0.0%	0.0%	0.0%	92.3%	92.4%	92.5%	100.0%	100.0%	100.0%	100.0%
AVG.MO DIFF.					\$-1.2	\$-0.0	\$0.0	\$0.1			

A PERCENTAGE DIFFERENCE WHICH FALLS ON A COLUMN BOUNDARY IS INCLUDED IN THE HIGHER COLUMN

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2017 Summer proposed 3.1 Rates using 50% BQ
 AND 2018 Summer proposed 3.1 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E1L -----

PCT	MONTHLY \$ DIFFERENCE	-10 -									
		BELOW -20% DECREASE	-20 - -10% DECREASE	-5% DECREASE	-5 - -0.01% DECREASE	-0.01 - 0% DECREASE	0 - 0.01% INCREASE	0.01 - 5% INCREASE	5 - 10% INCREASE	10 - 20% INCREASE	ABOVE 20% INCREASE
4%	-2.19	0	0	0	46,822(4.0%)	0	0	0	0	0	0
8%	-1.73	0	0	0	46,749(4.0%)	0	0	0	0	0	0
12%	-1.49	0	0	0	45,947(4.0%)	0	0	0	0	0	0
16%	-1.32	0	0	0	48,773(4.2%)	0	0	0	0	0	0
20%	-1.20	0	0	0	45,342(3.9%)	0	0	0	0	0	0
24%	-1.10	0	0	0	44,487(3.8%)	0	0	0	0	0	0
28%	-1.01	0	0	0	46,934(4.1%)	0	0	0	0	0	0
32%	\$.93	0	0	0	47,052(4.1%)	0	0	0	0	0	0
36%	\$.86	0	0	0	45,507(3.9%)	0	0	0	0	0	0
40%	\$.79	0	0	0	49,567(4.3%)	0	0	0	0	0	0
44%	\$.73	0	0	0	45,946(4.0%)	0	0	0	0	0	0
48%	\$.67	0	0	0	48,289(4.2%)	0	0	0	0	0	0
52%	\$.62	0	0	0	42,700(3.7%)	0	0	0	0	0	0
56%	\$.57	0	0	0	44,231(3.8%)	0	0	0	0	0	0
60%	\$.52	0	0	0	45,724(4.0%)	0	0	0	0	0	0
64%	\$.47	0	0	0	47,237(4.1%)	0	0	0	0	0	0
68%	\$.42	0	0	0	48,615(4.2%)	0	0	0	0	0	0
72%	\$.37	0	0	0	49,433(4.3%)	0	0	0	0	0	0
76%	\$.33	0	0	0	40,354(3.5%)	0	0	0	0	0	0
80%	\$.28	0	0	0	50,691(4.4%)	0	0	0	0	0	0
84%	\$.23	0	0	0	49,176(4.3%)	0	0	0	0	0	0
88%	\$.18	0	0	0	46,816(4.0%)	0	0	0	0	0	0
92%	\$.13	0	0	0	42,127(3.6%)	0	0	0	0	0	0
96%	\$.06	0	0	0	46,776(4.0%)	0	0	0	0	0	0
100%	\$0.15	0	0	0	22,804(2.0%)	416(0.0%)	390(0.0%)	17,567(1.5%)	0	0	0
TOTAL		0	0	0	1138099	416	390	17,567	0	0	0
		0.0%	0.0%	0.0%	98.4%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%
CUMULATIVE		0	0	0	1138099	1138515	1138905	1156472	1156472	1156472	1156472
		0.0%	0.0%	0.0%	98.4%	98.4%	98.5%	100.0%	100.0%	100.0%	100.0%
AVG. MO DIFF.					\$.08	\$.00	\$0.0	\$0.1			

B-3-18

PACIFIC GAS AND ELECTRIC COMPANY

APPENDIX B -4

**BILL COMPARISON USING ENERGY DIVISION FORMAT: AT
ILLUSTRATIVE RATES ASSUMING 0 % GROWTH IN REVENUE
REQUIREMENT AND 50% BASELINE QUANTITIES**

PG&E is in the process of completing the bill comparison using the Energy Division approved format for Appendices A-4, B-4, and C-4 and will provide these appendices by March 7, 2014, as a separate exhibit to the Supplemental Filing.

PACIFIC GAS AND ELECTRIC COMPANY

APPENDIX C -1

**ILLUSTRATIVE RATES ASSUMING 2.1 % GROWTH IN REVENUE
REQUIREMENT AND 55 % BASELINE QUANTITIES**

Appendix C-1: Illustrative Rates Assuming 2.1% Growth in Revenue Requirement and 55% Baseline Quantities

E-1 Rates						EL-1 Rates					
	Summer 2014	2015	2016	2017	2018		Summer 2014	2015	2016	2017	2018
Tier 1	\$0.147	\$0.147	\$0.147	\$0.173	\$0.177	Tier 1	\$0.092	\$0.097	\$0.103	\$0.118	\$0.121
Tier 2	\$0.170	\$0.223	\$0.223	\$0.207	\$0.212	Tier 2	\$0.106	\$0.118	\$0.124	\$0.142	\$0.146
Tier 3	\$0.249	\$0.223	\$0.223	\$0.207	\$0.212	Tier 3	\$0.151	\$0.118	\$0.124	\$0.142	\$0.146
Tier 4	\$0.309	\$0.304	\$0.265	\$0.207	\$0.212	Tier 4	\$0.151	\$0.151	\$0.148	\$0.142	\$0.146
Customer Charge	\$0.00	\$5.00	\$10.00	\$10.21	\$10.42	Customer Charge	\$0.00	\$2.50	\$5.00	\$5.11	\$5.21
E-6 Rates						EL-6 Rates					
	Summer 2014	2015	2016	2017	2018		Summer 2014	2015	2016	2017	2018
Summer Peak						Summer Peak					
Tier 1	\$0.307	\$0.275				Tier 1	\$0.209	\$0.225			
Tier 2	\$0.330	\$0.351				Tier 2	\$0.224	\$0.246			
Tier 3	\$0.407	\$0.351				Tier 3	\$0.321	\$0.246			
Tier 4	\$0.467	\$0.432				Tier 4	\$0.321	\$0.278			
Summer Part-Peak						Summer Part-Peak					
Tier 1	\$0.191	\$0.182				Tier 1	\$0.125	\$0.132			
Tier 2	\$0.215	\$0.258				Tier 2	\$0.140	\$0.153			
Tier 3	\$0.292	\$0.258				Tier 3	\$0.198	\$0.153			
Tier 4	\$0.352	\$0.339				Tier 4	\$0.198	\$0.186			
Summer Off-Peak						Summer Off-Peak					
Tier 1	\$0.115	\$0.122				Tier 1	\$0.068	\$0.072			
Tier 2	\$0.138	\$0.198				Tier 2	\$0.083	\$0.093			
Tier 3	\$0.215	\$0.198	PG&E Proposes Closing Schedule			Tier 3	\$0.116	\$0.093	PG&E Proposes Closing Schedule		
Tier 4	\$0.275	\$0.279		in 2016		Tier 4	\$0.116	\$0.125		in 2016	
Winter Part-Peak						Winter Part-Peak					
Tier 1	\$0.136	\$0.139				Tier 1	\$0.084	\$0.089			
Tier 2	\$0.159	\$0.215				Tier 2	\$0.099	\$0.110			
Tier 3	\$0.236	\$0.215				Tier 3	\$0.138	\$0.110			
Tier 4	\$0.296	\$0.296				Tier 4	\$0.138	\$0.142			
Winter Off-Peak						Winter Off-Peak					
Tier 1	\$0.119	\$0.125				Tier 1	\$0.072	\$0.074			
Tier 2	\$0.142	\$0.201				Tier 2	\$0.087	\$0.095			
Tier 3	\$0.220	\$0.201				Tier 3	\$0.121	\$0.095			
Tier 4	\$0.280	\$0.282				Tier 4	\$0.121	\$0.128			
Customer Charge	\$0.00	\$5.00				Customer Charge	\$0.00	\$2.50			

C-1-1

C-1-2

E-7 Rates	Summer 2014	2015	2016	2017	2018
Summer Peak					
Tier 1	\$0.343	\$0.284			
Tier 2	\$0.367	\$0.360			
Tier 3	\$0.445	\$0.360			
Tier 4	\$0.505	\$0.441			
Summer Off-Peak					
Tier 1	\$0.095	\$0.138			
Tier 2	\$0.119	\$0.214			
Tier 3	\$0.197	\$0.214			
Tier 4	\$0.257	\$0.295			
Winter Peak			PG&E Proposes Closing Schedule in 2016		
Tier 1	\$0.128	\$0.136			
Tier 2	\$0.152	\$0.212			
Tier 3	\$0.231	\$0.212			
Tier 4	\$0.291	\$0.293			
Winter Off-Peak					
Tier 1	\$0.098	\$0.124			
Tier 2	\$0.122	\$0.200			
Tier 3	\$0.201	\$0.200			
Tier 4	\$0.261	\$0.281			
Customer Charge	\$0.00	\$5.00			
E-8 Rates	Summer 2014	2015	2016	2017	2018
Summer					
Tier 1	\$0.152	\$0.161			
Tier 2	\$0.156	\$0.237			
Tier 3	\$0.234	\$0.237			
Tier 4	\$0.294	\$0.318			
Winter			PG&E Proposes Closing Schedule in 2016		
Tier 1	\$0.101	\$0.126			
Tier 2	\$0.106	\$0.202			
Tier 3	\$0.184	\$0.202			
Tier 4	\$0.244	\$0.283			
Customer Charge	\$12.53	\$12.53			

EL-7 Rates	Summer 2014	2015	2016	2017	2018
Summer Peak					
Tier 1	\$0.283	\$0.234			
Tier 2	\$0.300	\$0.255			
Tier 3	\$0.428	\$0.255			
Tier 4	\$0.428	\$0.288			
Summer Off-Peak					
Tier 1	\$0.070	\$0.088			
Tier 2	\$0.087	\$0.109			
Tier 3	\$0.118	\$0.109			
Tier 4	\$0.118	\$0.142			
Winter Part-Peak			PG&E Proposes Closing Schedule in 2016		
Tier 1	\$0.099	\$0.086			
Tier 2	\$0.116	\$0.107			
Tier 3	\$0.160	\$0.107			
Tier 4	\$0.160	\$0.139			
Winter Off-Peak					
Tier 1	\$0.073	\$0.074			
Tier 2	\$0.090	\$0.095			
Tier 3	\$0.122	\$0.095			
Tier 4	\$0.122	\$0.128			
Customer Charge	\$0.00	\$2.50			
EL-8 Rates	Summer 2014	2015	2016	2017	2018
Summer					
Tier 1	\$0.096	\$0.117			
Tier 2	\$0.097	\$0.138			
Tier 3	\$0.155	\$0.138			
Tier 4	\$0.155	\$0.170			
Winter			PG&E Proposes Closing Schedule in 2016		
Tier 1	\$0.061	\$0.076			
Tier 2	\$0.062	\$0.097			
Tier 3	\$0.105	\$0.097			
Tier 4	\$0.105	\$0.130			
Customer Charge	\$10.02	\$10.020			

E-TOU Rates	Summer 2014	2015	2016	2017	2018	E-TOU CARE Rates	Summer 2014	2015	2016	2017	2018
Summer						Summer					
On-Peak			0.313	0.315	0.320	On-Peak			0.203	0.205	0.208
Off-Peak			0.176	0.178	0.183	Off-Peak			0.114	0.116	0.119
Winter						Winter					
On-Peak			0.177	0.179	0.184	On-Peak			0.115	0.116	0.119
Off-Peak			0.163	0.165	0.170	Off-Peak			0.106	0.107	0.110
Customer Charge			\$10.00	\$10.21	\$10.42	Customer Charge			\$5.00	\$5.11	\$5.21

PACIFIC GAS AND ELECTRIC COMPANY

APPENDIX C -2

**CARE EFFECTIVE DISCOUNT ASSUMING 2.1 % GROWTH IN
REVENUE REQUIREMENT AND 55 % BASELINE QUANTITIES**

No of Customers	Non-CARE	Non-CARE Pct of Customers	CARE	CARE Pct of Customers	Total	Total Pct of Customers
Tier 1	1,213,962	36%	551,029	43%	1,764,992	38%
Tier 2	530,917	16%	237,328	19%	768,244	17%
Tier 3	1,000,480	30%	345,568	27%	1,346,047	29%
Tier 4	608,190	18%	134,106	11%	742,297	16%
Total	3,353,549	100%	1,268,031	100%	4,621,580	100%
Customer Months	41,554,094		14,119,521		55,673,615	

Billing Determinants (kWh) with 55% Baseline Quantity	Non-CARE	Non-CARE Pct of Sales	CARE	CARE Pct of Sales	Total	Total Pct of Sales
Tier 1	13,500,258,922	57%	4,780,984,874	63%	18,281,243,796	59%
Tier 2	2,558,794,319	11%	828,395,851	11%	3,387,190,170	11%
Tier 3	3,761,441,885	16%	1,112,215,994	15%	4,873,657,879	16%
Tier 4	3,740,558,650	16%	874,628,527	12%	4,615,187,178	15%
Total	23,561,053,776	100%	7,596,225,247	100%	31,157,279,023	100%

C-2-1

Scenario 3.3	Assuming 2.1% Growth in Revenue Requirement and 55% Baseline Quantities				
	Summer 2014	Jan 2015	Jan 2016	Jan 2017	Jan 2018
Non-CARE					
Minimum Bill Amount (\$/mo)	\$4.50	\$0.00	\$0.00	\$0.00	\$0.00
Basic Service Fee (\$/mo)	\$0.00	\$5.00	\$10.00	\$10.21	\$10.42
T-1 Rate (\$/kWh)	\$0.14707	\$0.14707	\$0.14707	\$0.17262	\$0.17704
T-2 Rate (\$/kWh)	\$0.17028	\$0.22303	\$0.22303	\$0.20718	\$0.21245
T-2' Rate (\$/kWh)	\$0.24862	\$0.22303	\$0.22303	\$0.20718	\$0.21245
T-3 Rate (\$/kWh)	\$0.30862	\$0.30417	\$0.26548	\$0.20718	\$0.21245
CARE					
Minimum Bill Amount	\$3.60	\$0.00	\$0.00	\$0.00	\$0.00
Basic Service Fee (\$/mo)	\$0.00	\$2.50	\$5.00	\$5.11	\$5.21
T-1 Rate (\$/kWh)	\$0.09244	\$0.09700	\$0.10300	\$0.11825	\$0.12126
T-2 Rate (\$/kWh)	\$0.10630	\$0.11800	\$0.12400	\$0.14185	\$0.14553
T-2' Rate (\$/kWh)	\$0.15081	\$0.11800	\$0.12400	\$0.14185	\$0.14553
T-3 Rate (\$/kWh)	\$0.15081	\$0.15081	\$0.14802	\$0.14185	\$0.14553
CARE Discount Estimates					
CARE Revenue Collection at Non-CARE Rates	1,390,621,353	1,472,593,979	1,509,342,109	1,552,717,059	1,591,624,629
Total CARE Revenue Collection	829,631,666	859,949,262	933,137,433	1,036,761,463	1,062,992,937
CARE Discount (\$)	560,989,687	612,644,716	576,204,676	515,955,596	528,631,693
Effective CARE Discount	42%	44%	40%	35%	35%

Appendix C-2: CARE Effective Discount Assuming 2.1% Growth in Revenue Requirement and 55% Baseline Quantities

PACIFIC GAS AND ELECTRIC COMPANY
APPENDIX C-3
YEAR-TO-YEAR BILL COMPARISON USING PG&E'S
STANDARD FORMAT: AT ILLUSTRATIVE RATES ASSUMING
2.1% GROWTH IN REVENUE REQUIREMENT AND
55% BASELINE QUANTITIES

RATE DATA ANALYSIS

Total Annual Bill Summary by Rate Schedules

Comparison Between 2014 Summer with 0% RRQ Current 2.5 Revised Rates

AND 2015 Summer proposed 3.3 Rates using 50% BQ

Data From Yearly File(JAN 2011 - Dec 2011)

LAST RATE SCHEDULE	COUNT	ANNUAL TOTAL KWH	TOTAL ANNUAL CURRENT BILLS	CURRENT AVG RATE	TOTAL ANNUAL PROPOSED BILLS	PROPOSED AVG RATE	DIFFERENCE (PROPOSED-CURRENT)	(PROPOSED-CURRENT)/CURRENT	MAX DIFFERENCE	MIN DIFFERENCE
E1	2,815,104	18,278,276,127	\$3,629,397,068	0.19856	\$3,801,271,245	0.20797	\$171,874,177	4.74%	\$619	\$-9,484
E1L	1,156,472	7,576,011,970	\$853,156,348	0.11261	\$877,161,924	0.11578	\$24,005,575	2.81%	\$232	\$-396
E6	5,462	52,512,188	\$10,864,155	0.20689	\$11,283,974	0.21488	\$419,818	3.86%	\$273	\$-427
E6L	379	6,078,576	\$726,656	0.11954	\$739,336	0.12163	\$12,681	1.75%	\$558	\$-138
E7	57,771	606,295,672	\$112,018,910	0.18476	\$129,824,278	0.21413	\$17,805,368	15.89%	\$3,834	\$-707
E7L	7,757	84,873,446	\$9,874,596	0.11634	\$9,730,575	0.11465	\$-144,021	(1.46%)	\$1,157	\$-1,343
E8	43,911	675,567,529	\$140,358,165	0.20776	\$159,200,725	0.23565	\$18,842,561	13.42%	\$16,531	\$0
E8L	8,692	136,763,391	\$15,234,233	0.11139	\$17,303,195	0.12652	\$2,068,962	13.58%	\$10,316	\$0
TOTAL	4,095,548	27,416,378,899	\$4,771,630,131	0.17404	\$5,006,515,252	0.18261	\$234,885,122	4.92%	\$33,520	\$-12,496

C-3-1

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Revised Rates
 AND 2015 Summer proposed 3.3 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E1 -----

\$ PCT	MONTHLY \$ DIFFERENCE	BELOW -20% DECREASE	-20 - -10% DECREASE	-10 - -5% DECREASE	-5 - -0.01% DECREASE	-0.01 - 0% DECREASE	0 - 0.01% INCREASE	0.01 - 5% INCREASE	5 - 10% INCREASE	10 - 20% INCREASE	ABOVE 20% INCREASE
4%	\$1.43	0	0	224 (0.0%)	40,075 (1.4%)	782 (0.0%)	813 (0.0%)	48,287 (1.7%)	113 (0.0%)	17,798 (0.6%)	4,559 (0.2%)
8%	\$2.50	0	0	0	0	0	0	101,474 (3.6%)	278 (0.0%)	973 (0.0%)	10,406 (0.4%)
12%	\$3.09	0	0	0	0	0	0	105,176 (3.7%)	274 (0.0%)	721 (0.0%)	6,601 (0.2%)
16%	\$3.52	0	0	0	0	0	0	107,046 (3.8%)	250 (0.0%)	712 (0.0%)	5,909 (0.2%)
20%	\$3.87	0	0	0	0	0	0	105,051 (3.7%)	260 (0.0%)	671 (0.0%)	5,443 (0.2%)
24%	\$4.21	0	0	0	0	0	0	105,490 (3.7%)	408 (0.0%)	735 (0.0%)	6,316 (0.2%)
28%	\$4.58	0	0	0	0	0	0	99,624 (3.5%)	3,349 (0.1%)	1,267 (0.0%)	9,414 (0.3%)
32%	\$4.92	0	0	0	0	0	0	66,653 (2.4%)	22,251 (0.8%)	4,552 (0.2%)	19,164 (0.7%)
36%	\$4.97	0	0	0	0	0	0	9,038 (0.3%)	9,849 (0.3%)	63,132 (2.2%)	93,001 (3.3%)
40%	\$4.98	0	0	0	0	0	0	1,969 (0.1%)	5,135 (0.2%)	47,883 (1.7%)	68,132 (2.4%)
44%	\$5.00	0	0	0	0	0	0	3,737 (0.1%)	4,618 (0.2%)	37,777 (1.3%)	43,596 (1.5%)
48%	\$5.07	0	0	0	0	0	0	12,403 (0.4%)	7,542 (0.3%)	31,138 (1.1%)	9,271 (0.3%)
52%	\$5.25	0	0	0	0	0	0	30,879 (1.1%)	19,485 (0.7%)	54,487 (1.9%)	8,463 (0.3%)
56%	\$5.45	0	0	0	0	0	0	29,265 (1.0%)	27,863 (1.0%)	53,546 (1.9%)	5,327 (0.2%)
60%	\$5.66	0	0	0	0	0	0	24,163 (0.9%)	36,697 (1.3%)	49,226 (1.7%)	2,301 (0.1%)
64%	\$5.87	0	0	0	0	0	0	20,757 (0.7%)	41,341 (1.5%)	45,692 (1.6%)	1,013 (0.0%)
68%	\$6.09	0	0	0	0	0	0	17,598 (0.6%)	47,862 (1.7%)	46,690 (1.7%)	445 (0.0%)
72%	\$6.32	0	0	0	0	0	0	12,120 (0.4%)	55,196 (2.0%)	47,851 (1.7%)	224 (0.0%)
76%	\$6.55	0	0	0	0	0	0	6,618 (0.2%)	54,810 (1.9%)	50,938 (1.8%)	92 (0.0%)
80%	\$6.79	0	0	0	0	0	0	4,086 (0.1%)	53,759 (1.9%)	52,771 (1.9%)	36 (0.0%)
84%	\$7.06	0	0	0	0	0	0	3,224 (0.1%)	58,156 (2.1%)	54,293 (1.9%)	15 (0.0%)
88%	\$7.34	0	0	0	0	0	0	3,064 (0.1%)	53,677 (1.9%)	52,158 (1.9%)	4 (0.0%)
92%	\$7.69	0	0	0	0	0	0	3,566 (0.1%)	51,843 (1.8%)	58,731 (2.1%)	0
96%	\$8.19	0	0	0	0	0	0	4,498 (0.2%)	31,894 (1.1%)	75,113 (2.7%)	0
100%	\$51.56	0	0	0	0	0	0	8,920 (0.3%)	31,897 (1.1%)	71,110 (2.5%)	0
TOTAL		0	0	224	40,075	782	813	934,706	618,807	919,965	299,732
		0.0%	0.0%	0.0%	1.4%	0.0%	0.0%	33.2%	22.0%	32.7%	10.6%
CUMULATIVE		0	0	224	40,299	41,081	41,894	976,600	1595407	2515372	2815104
		0.0%	0.0%	0.0%	1.4%	1.5%	1.5%	34.7%	56.7%	89.4%	100.0%
AVG.MO DIFF.				\$-53.2	\$-4.0	\$-0.0	\$0.0	\$3.9	\$6.5	\$6.2	\$4.7

C-3-2

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Revised Rates
 AND 2015 Summer proposed 3.3 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE-E1L -----

	\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
	PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	\$-2.86	0	0	0	48,866(4.2%)	0	0	0	0	0	0
8%	\$-2.07	0	0	0	43,936(3.8%)	0	0	0	0	0	0
12%	\$-1.84	0	0	0	45,975(4.0%)	0	0	0	0	0	0
16%	\$-1.12	0	0	7(0.0%)	46,587(4.0%)	0	0	0	0	0	0
20%	\$-0.81	978(0.1%)	8(0.0%)	12(0.0%)	45,310(3.9%)	0	0	0	0	0	0
24%	\$-0.33	58(0.0%)	248(0.0%)	82(0.0%)	45,651(3.9%)	0	0	0	0	0	0
28%	\$0.26	0	0	80(0.0%)	25,029(2.2%)	568(0.0%)	592(0.1%)	19,778(1.7%)	62(0.0%)	0	0
32%	\$0.85	0	0	0	0	0	0	46,257(4.0%)	176(0.0%)	305(0.0%)	65(0.0%)
36%	\$1.36	0	0	0	0	0	0	45,262(3.9%)	117(0.0%)	239(0.0%)	445(0.0%)
40%	\$1.80	0	0	0	0	0	0	45,369(3.9%)	259(0.0%)	355(0.0%)	664(0.1%)
44%	\$2.19	0	0	0	0	0	0	39,179(3.4%)	5,516(0.5%)	329(0.0%)	859(0.1%)
48%	\$2.58	0	0	0	0	0	0	26,598(2.3%)	17,146(1.5%)	695(0.1%)	1,752(0.2%)
52%	\$2.89	0	0	0	0	0	0	7,617(0.7%)	26,267(2.3%)	2,252(0.2%)	11,376(1.0%)
56%	\$3.07	0	0	0	0	0	0	1,606(0.1%)	17,702(1.5%)	3,516(0.3%)	24,766(2.1%)
60%	\$3.20	0	0	0	0	0	0	1,023(0.1%)	12,019(1.0%)	4,519(0.4%)	27,448(2.4%)
64%	\$3.32	0	0	0	0	0	0	808(0.1%)	10,193(0.9%)	11,900(1.0%)	24,404(2.1%)
68%	\$3.43	0	0	0	0	0	0	748(0.1%)	8,905(0.8%)	36,209(3.1%)	565(0.0%)
72%	\$3.54	0	0	0	0	0	0	708(0.1%)	8,711(0.8%)	37,784(3.3%)	1(0.0%)
76%	\$3.64	0	0	0	0	0	0	587(0.1%)	7,473(0.6%)	34,536(3.0%)	0
80%	\$3.76	0	0	0	0	0	0	674(0.1%)	8,199(0.7%)	40,151(3.5%)	0
84%	\$3.88	0	0	0	0	0	0	558(0.0%)	6,807(0.6%)	37,031(3.2%)	0
88%	\$4.03	0	0	0	0	0	0	636(0.1%)	6,643(0.6%)	38,092(3.3%)	0
92%	\$4.24	0	0	0	0	0	0	705(0.1%)	5,723(0.5%)	40,520(3.5%)	0
96%	\$4.64	0	0	0	0	0	0	922(0.1%)	5,672(0.5%)	39,166(3.4%)	0
100%	\$19.30	0	0	0	0	0	0	1,251(0.1%)	33,798(2.9%)	10,867(0.9%)	0
TOTAL		1,036	256	181	301,354	568	592	240,286	181,388	338,466	92,345
		0.1%	0.0%	0.0%	26.1%	0.0%	0.1%	20.8%	15.7%	29.3%	8.0%
CUMULATIVE		1,036	1,292	1,473	302,827	303,395	303,987	544,273	725,661	1064127	1156472
		0.1%	0.1%	0.1%	26.2%	26.2%	26.3%	47.1%	62.7%	92.0%	100.0%
AVG.MO DIFF.		\$-1.0	\$-0.6	\$-0.4	\$-1.7	\$-0.0	\$0.0	\$1.5	\$3.6	\$3.8	\$3.0

C-3-3

A PERCENTAGE DIFFERENCE WHICH FALLS ON A COLUMN BOUNDARY IS INCLUDED IN THE HIGHER COLUMN

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Revised Rates
 AND 2015 Summer proposed 3.3 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=B6 -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	\$0.36	6(0.1%)	13(0.2%)	31(0.6%)	145(2.7%)	1(0.0%)	0	22(0.4%)	0	0	
8%	\$2.23	0	0	0	0	0	0	173(3.2%)	24(0.4%)	22(0.4%)	
12%	\$3.34	0	0	0	0	0	0	149(2.7%)	45(0.8%)	20(0.4%)	
16%	\$4.09	0	0	0	0	0	0	134(2.5%)	37(0.7%)	37(0.7%)	
20%	\$4.60	0	0	0	0	0	0	144(2.6%)	31(0.6%)	33(0.6%)	
24%	\$4.97	0	0	0	0	0	0	113(2.1%)	41(0.8%)	35(0.6%)	
28%	\$5.28	0	0	0	0	0	0	116(2.1%)	38(0.7%)	44(0.8%)	
32%	\$5.55	0	0	0	0	0	0	94(1.7%)	40(0.7%)	39(0.7%)	
36%	\$5.85	0	0	0	0	0	0	106(1.9%)	49(0.9%)	40(0.7%)	
40%	\$6.14	0	0	0	0	0	0	86(1.6%)	61(1.1%)	41(0.8%)	
44%	\$6.42	0	0	0	0	0	0	90(1.6%)	73(1.3%)	46(0.8%)	
48%	\$6.65	0	0	0	0	0	0	78(1.4%)	55(1.0%)	56(1.0%)	
52%	\$6.94	0	0	0	0	0	0	62(1.1%)	87(1.6%)	57(1.0%)	
56%	\$7.19	0	0	0	0	0	0	53(1.0%)	93(1.7%)	52(1.0%)	
60%	\$7.39	0	0	0	0	0	0	54(1.0%)	77(1.4%)	61(1.1%)	
64%	\$7.64	0	0	0	0	0	0	52(1.0%)	62(1.1%)	77(1.4%)	
68%	\$7.89	0	0	0	0	0	0	39(0.7%)	87(1.6%)	86(1.6%)	
72%	\$8.16	0	0	0	0	0	0	35(0.6%)	80(1.5%)	90(1.6%)	
76%	\$8.44	0	0	0	0	0	0	39(0.7%)	77(1.4%)	94(1.7%)	
80%	\$8.72	0	0	0	0	0	0	31(0.6%)	71(1.3%)	96(1.8%)	
84%	\$9.08	0	0	0	0	0	0	30(0.5%)	87(1.6%)	91(1.7%)	
88%	\$9.56	0	0	0	0	0	0	47(0.9%)	68(1.2%)	98(1.8%)	
92%	\$10.22	0	0	0	0	0	0	58(1.1%)	71(1.3%)	82(1.5%)	
96%	\$11.55	0	0	0	0	0	0	43(0.8%)	98(1.8%)	74(1.4%)	
100%	\$22.76	0	0	0	0	0	0	58(1.1%)	94(1.7%)	56(1.0%)	
TOTAL		6	13	31	145	1	0	1,906	1,546	1,427	387
		0.1%	0.2%	0.6%	2.7%	0.0%	0.0%	34.9%	28.3%	26.1%	7.1%
CUMULATIVE		6	19	50	195	196	196	2,102	3,648	5,075	5,462
		0.1%	0.3%	0.9%	3.6%	3.6%	3.6%	38.5%	66.8%	92.9%	100.0%
AVG.MO DIFF.		\$-7.6	\$-6.6	\$-5.0	\$-4.0	\$-0.1	.	\$5.8	\$7.6	\$7.7	\$6.6

C-3-4

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Revised Rates
 AND 2015 Summer proposed 3.3 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E6L -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	\$-5.11	0	2(0.5%)	0	13(3.4%)	0	0	0	0	0	
8%	\$-3.59	0	0	1(0.3%)	14(3.7%)	0	0	0	0	0	
12%	\$-2.29	0	0	2(0.5%)	14(3.7%)	0	0	0	0	0	
16%	\$-1.60	0	0	0	14(3.7%)	0	0	0	0	0	
20%	\$-0.89	0	0	0	16(4.2%)	0	0	0	0	0	
24%	\$-0.51	0	0	2(0.5%)	13(3.4%)	0	0	0	0	0	
28%	\$-0.07	0	0	0	15(4.0%)	0	0	0	0	0	
32%	\$0.25	0	0	0	2(0.5%)	0	13(3.4%)	0	0	0	
36%	\$0.62	0	0	0	0	0	15(4.0%)	0	0	0	
40%	\$1.00	0	0	0	0	0	15(4.0%)	1(0.3%)	0	0	
44%	\$1.37	0	0	0	0	0	14(3.7%)	1(0.3%)	0	0	
48%	\$1.80	0	0	0	0	0	14(3.7%)	1(0.3%)	0	1(0.3%)	
52%	\$2.10	0	0	0	0	0	11(2.9%)	2(0.5%)	1(0.3%)	0	
56%	\$2.42	0	0	0	0	0	9(2.4%)	4(1.1%)	3(0.8%)	1(0.3%)	
60%	\$2.78	0	0	0	0	0	2(0.5%)	5(1.3%)	6(1.6%)	1(0.3%)	
64%	\$3.10	0	0	0	0	0	2(0.5%)	7(1.8%)	2(0.5%)	4(1.1%)	
68%	\$3.58	0	0	0	0	0	2(0.5%)	2(0.5%)	9(2.4%)	2(0.5%)	
72%	\$3.79	0	0	0	0	0	3(0.8%)	5(1.3%)	9(2.4%)	0	
76%	\$4.09	0	0	0	0	0	4(1.1%)	2(0.5%)	8(2.1%)	0	
80%	\$4.54	0	0	0	0	0	4(1.1%)	5(1.3%)	6(1.6%)	0	
84%	\$5.27	0	0	0	0	0	3(0.8%)	8(2.1%)	4(1.1%)	0	
88%	\$7.71	0	0	0	0	0	9(2.4%)	6(1.6%)	0	0	
92%	\$11.63	0	0	0	0	0	14(3.7%)	1(0.3%)	0	0	
96%	\$16.19	0	0	0	0	0	15(4.0%)	0	0	0	
100%	\$46.49	0	0	0	0	0	15(4.0%)	0	0	0	
TOTAL		0	2	5	101	0	0	164	50	48	9
		0.0%	0.5%	1.3%	26.6%	0.0%	0.0%	43.3%	13.2%	12.7%	2.4%
CUMULATIVE		0	2	7	108	108	108	272	322	370	379
		0.0%	0.5%	1.8%	28.5%	28.5%	28.5%	71.8%	85.0%	97.6%	100.0%
AVG.MO DIFF.			\$-7.1	\$-2.2	\$-2.5			\$5.9	\$3.8	\$3.5	\$2.7

C-3-5

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Revised Rates
 AND 2015 Summer proposed 3.3 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E7 -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	\$11.01	5(0.0%)	5(0.0%)	4(0.0%)	5(0.0%)	0	0	38(0.1%)	40(0.1%)	203(0.4%)	2,016(3.5%)
8%	\$14.06	0	0	0	0	0	0	6(0.0%)	57(0.1%)	176(0.3%)	2,071(3.6%)
12%	\$15.71	0	0	0	0	0	0	6(0.0%)	92(0.2%)	410(0.7%)	1,817(3.1%)
16%	\$16.95	0	0	0	0	0	0	3(0.0%)	87(0.2%)	740(1.3%)	1,473(2.5%)
20%	\$17.93	0	0	0	0	0	0	3(0.0%)	87(0.2%)	861(1.5%)	1,356(2.3%)
24%	\$18.70	0	0	0	0	0	0	3(0.0%)	72(0.1%)	923(1.6%)	1,330(2.3%)
28%	\$19.37	0	0	0	0	0	0	3(0.0%)	81(0.1%)	927(1.6%)	1,279(2.2%)
32%	\$20.09	0	0	0	0	0	0	1(0.0%)	83(0.1%)	1,030(1.8%)	1,195(2.1%)
36%	\$20.84	0	0	0	0	0	0	1(0.0%)	83(0.1%)	1,234(2.1%)	1,016(1.8%)
40%	\$21.60	0	0	0	0	0	0	0	102(0.2%)	1,300(2.3%)	905(1.6%)
44%	\$22.40	0	0	0	0	0	0	1(0.0%)	118(0.2%)	1,343(2.3%)	834(1.4%)
48%	\$23.25	0	0	0	0	0	0	1(0.0%)	111(0.2%)	1,416(2.5%)	785(1.4%)
52%	\$24.15	0	0	0	0	0	0	3(0.0%)	108(0.2%)	1,477(2.6%)	720(1.2%)
56%	\$25.08	0	0	0	0	0	0	1(0.0%)	144(0.2%)	1,503(2.6%)	670(1.2%)
60%	\$26.13	0	0	0	0	0	0	0	148(0.3%)	1,537(2.7%)	616(1.1%)
64%	\$27.31	0	0	0	0	0	0	0	141(0.2%)	1,526(2.6%)	659(1.1%)
68%	\$28.59	0	0	0	0	0	0	0	168(0.3%)	1,514(2.6%)	617(1.1%)
72%	\$30.04	0	0	0	0	0	0	0	176(0.3%)	1,478(2.6%)	654(1.1%)
76%	\$31.67	0	0	0	0	0	0	1(0.0%)	196(0.3%)	1,446(2.5%)	674(1.2%)
80%	\$33.52	0	0	0	0	0	0	0	189(0.3%)	1,403(2.4%)	717(1.2%)
84%	\$35.54	0	0	0	0	0	0	0	192(0.3%)	1,416(2.5%)	707(1.2%)
88%	\$37.96	0	0	0	0	0	0	0	197(0.3%)	1,385(2.4%)	723(1.3%)
92%	\$41.29	0	0	0	0	0	0	0	248(0.4%)	1,465(2.5%)	597(1.0%)
96%	\$46.88	0	0	0	0	0	0	0	275(0.5%)	1,485(2.6%)	548(0.9%)
100%	\$319.50	0	0	0	0	0	0	1(0.0%)	544(0.9%)	1,374(2.4%)	390(0.7%)
TOTAL		5 0.0%	5 0.0%	4 0.0%	5 0.0%	0 0.0%	0 0.0%	72 0.1%	3,739 6.5%	29,572 51.2%	24,369 42.2%
CUMULATIVE		5 0.0%	10 0.0%	14 0.0%	19 0.0%	19 0.0%	19 0.0%	91 0.2%	3,830 6.6%	33,402 57.8%	57,771 100.0%
AVG.MO DIFF.		\$-19.3	\$-17.3	\$-5.4	\$-0.8	.	.	\$10.5	\$33.6	\$28.4	\$22.0

C-3-6

A PERCENTAGE DIFFERENCE WHICH FALLS ON A COLUMN BOUNDARY IS INCLUDED IN THE HIGHER COLUMN

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Revised Rates
 AND 2015 Summer proposed 3.3 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E7L -----

\$ PCT	MONTHLY \$ DIFFERENCE	BELOW -20% DECREASE	-20 - -10% DECREASE	-10 - -5% DECREASE	-5 - -0.01% DECREASE	-0.01 - 0% DECREASE	0 - 0.01% INCREASE	0.01 - 5% INCREASE	5 - 10% INCREASE	10 - 20% INCREASE	ABOVE 20% INCREASE
4%	\$-12.65	0	21(0.3%)	251(3.2%)	38(0.5%)	0	0	0	0	0	0
8%	\$-9.73	2(0.0%)	6(0.1%)	244(3.1%)	59(0.8%)	0	0	0	0	0	0
12%	\$-7.84	0	0	194(2.5%)	117(1.5%)	0	0	0	0	0	0
16%	\$-6.46	0	0	147(1.9%)	162(2.1%)	0	0	0	0	0	0
20%	\$-5.46	0	0	100(1.3%)	211(2.7%)	0	0	0	0	0	0
24%	\$-4.63	0	0	91(1.2%)	224(2.9%)	0	0	0	0	0	0
28%	\$-3.95	0	0	42(0.5%)	263(3.4%)	0	0	0	0	0	0
32%	\$-3.38	0	1(0.0%)	21(0.3%)	292(3.8%)	0	0	0	0	0	0
36%	\$-2.84	1(0.0%)	0	7(0.1%)	306(3.9%)	0	0	0	0	0	0
40%	\$-2.31	0	0	0	306(3.9%)	0	0	0	0	0	0
44%	\$-1.80	1(0.0%)	2(0.0%)	2(0.0%)	304(3.9%)	0	0	0	0	0	0
48%	\$-1.28	1(0.0%)	2(0.0%)	0	309(4.0%)	0	0	0	0	0	0
52%	\$-0.75	0	0	0	307(4.0%)	0	0	0	0	0	0
56%	\$-0.16	0	0	4(0.1%)	311(4.0%)	0	0	0	0	0	0
60%	\$0.33	0	0	0	78(1.0%)	3(0.0%)	7(0.1%)	220(2.8%)	0	0	0
64%	\$0.94	0	0	0	0	0	0	305(3.9%)	2(0.0%)	2(0.0%)	0
68%	\$1.55	0	0	0	0	0	0	302(3.9%)	3(0.0%)	3(0.0%)	2(0.0%)
72%	\$2.11	0	0	0	0	0	0	266(3.4%)	38(0.5%)	5(0.1%)	1(0.0%)
76%	\$2.53	0	0	0	0	0	0	153(2.0%)	121(1.6%)	33(0.4%)	5(0.1%)
80%	\$2.84	0	0	0	0	0	0	84(1.1%)	123(1.6%)	66(0.9%)	35(0.5%)
84%	\$3.12	0	0	0	0	0	0	58(0.7%)	133(1.7%)	115(1.5%)	14(0.2%)
88%	\$3.44	0	0	0	0	0	0	52(0.7%)	131(1.7%)	111(1.4%)	10(0.1%)
92%	\$3.90	0	0	0	0	0	0	61(0.8%)	137(1.8%)	103(1.3%)	8(0.1%)
96%	\$4.88	0	0	0	0	0	0	57(0.7%)	160(2.1%)	72(0.9%)	19(0.2%)
100%	\$96.43	0	0	0	0	0	0	77(1.0%)	155(2.0%)	62(0.8%)	16(0.2%)
TOTAL		5 0.1%	32 0.4%	1,103 14.2%	3,287 42.4%	3 0.0%	7 0.1%	1,635 21.1%	1,003 12.9%	572 7.4%	110 1.4%
CUMULATIVE		5 0.1%	37 0.5%	1,140 14.7%	4,427 57.1%	4,430 57.1%	4,437 57.2%	6,072 78.3%	7,075 91.2%	7,647 98.6%	7,757 100.0%
AVG. MO DIFF.		\$-5.5	\$-15.3	\$-9.9	\$-3.4	\$-0.0	\$0.0	\$2.1	\$4.2	\$4.0	\$3.9

C-3-7

A PERCENTAGE DIFFERENCE WHICH FALLS ON A COLUMN BOUNDARY IS INCLUDED IN THE HIGHER COLUMN

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Revised Rates
 AND 2015 Summer proposed 3.3 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=B8 -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	\$10.93	0	0	0	0	33(0.1%)	78(0.2%)	380(0.9%)	1,265(2.9%)	1(0.0%)
8%	\$14.53	0	0	0	0	0	0	1(0.0%)	1,748(4.0%)	11(0.0%)
12%	\$16.56	0	0	0	0	0	0	3(0.0%)	1,747(4.0%)	9(0.0%)
16%	\$18.32	0	0	0	0	0	0	1(0.0%)	1,750(4.0%)	3(0.0%)
20%	\$19.93	0	0	0	0	0	0	5(0.0%)	1,743(4.0%)	6(0.0%)
24%	\$21.45	0	0	0	0	0	0	2(0.0%)	1,748(4.0%)	12(0.0%)
28%	\$22.88	0	0	0	0	0	0	3(0.0%)	1,725(3.9%)	25(0.1%)
32%	\$24.34	0	0	0	0	0	0	3(0.0%)	1,715(3.9%)	36(0.1%)
36%	\$25.78	0	0	0	0	0	0	3(0.0%)	1,729(3.9%)	32(0.1%)
40%	\$27.22	0	0	0	0	0	0	3(0.0%)	1,705(3.9%)	43(0.1%)
44%	\$28.78	0	0	0	0	0	0	2(0.0%)	1,698(3.9%)	58(0.1%)
48%	\$30.22	0	0	0	0	0	0	5(0.0%)	1,690(3.8%)	65(0.1%)
52%	\$31.69	0	0	0	0	0	0	3(0.0%)	1,697(3.9%)	51(0.1%)
56%	\$33.26	0	0	0	0	0	0	3(0.0%)	1,704(3.9%)	48(0.1%)
60%	\$34.84	0	0	0	0	0	0	1(0.0%)	1,732(3.9%)	32(0.1%)
64%	\$36.57	0	0	0	0	0	0	1(0.0%)	1,730(3.9%)	23(0.1%)
68%	\$38.52	0	0	0	0	0	0	2(0.0%)	1,737(4.0%)	18(0.0%)
72%	\$40.52	0	0	0	0	0	0	3(0.0%)	1,731(3.9%)	14(0.0%)
76%	\$42.96	0	0	0	0	0	0	2(0.0%)	1,751(4.0%)	10(0.0%)
80%	\$45.98	0	0	0	0	0	0	1(0.0%)	1,740(4.0%)	10(0.0%)
84%	\$49.69	0	0	0	0	0	0	6(0.0%)	1,739(4.0%)	14(0.0%)
88%	\$54.68	0	0	0	0	0	0	6(0.0%)	1,733(3.9%)	15(0.0%)
92%	\$62.80	0	0	0	0	0	0	8(0.0%)	1,735(4.0%)	14(0.0%)
96%	\$80.07	0	0	0	0	0	0	9(0.0%)	1,739(4.0%)	7(0.0%)
100%	1377.56	0	0	0	0	0	0	7(0.0%)	1,744(4.0%)	5(0.0%)
TOTAL		0	0	0	0	33	78	463	42,775	562
		0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	1.1%	97.4%	1.3%
CUMULATIVE		0	0	0	0	33	111	574	43,349	43,911
		0.0%	0.0%	0.0%	0.0%	0.1%	0.3%	1.3%	98.7%	100.0%
AVG.MO DIFF.						\$0.0	\$0.5	\$11.0	\$36.4	\$32.0

C-3-8

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2014 Summer with 0% RRQ Current 2.5 Revised Rates
 AND 2015 Summer proposed 3.3 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E8L -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	\$7.05	0	0	0	0	4(0.0%)	2(0.0%)	41(0.5%)	302(3.5%)	0
8%	\$8.08	0	0	0	0	0	0	24(0.3%)	320(3.7%)	2(0.0%)
12%	\$9.03	0	0	0	0	0	0	12(0.1%)	336(3.9%)	0
16%	\$9.96	0	0	0	0	0	0	3(0.0%)	346(4.0%)	3(0.0%)
20%	\$10.93	0	0	0	0	0	0	5(0.1%)	336(3.9%)	6(0.1%)
24%	\$11.78	0	0	0	0	0	0	3(0.0%)	321(3.7%)	22(0.3%)
28%	\$12.75	0	0	0	0	0	0	5(0.1%)	315(3.6%)	28(0.3%)
32%	\$13.54	0	0	0	0	0	0	2(0.0%)	315(3.6%)	29(0.3%)
36%	\$14.34	0	0	0	0	0	0	3(0.0%)	320(3.7%)	28(0.3%)
40%	\$15.10	0	0	0	0	0	0	0	326(3.8%)	18(0.2%)
44%	\$15.73	0	0	0	0	0	0	0	329(3.8%)	20(0.2%)
48%	\$16.38	0	0	0	0	0	0	1(0.0%)	318(3.7%)	34(0.4%)
52%	\$16.96	0	0	0	0	0	0	0	317(3.6%)	27(0.3%)
56%	\$17.75	0	0	0	0	0	0	1(0.0%)	328(3.8%)	23(0.3%)
60%	\$18.56	0	0	0	0	0	0	0	320(3.7%)	23(0.3%)
64%	\$19.58	0	0	0	0	0	0	0	330(3.8%)	19(0.2%)
68%	\$20.54	0	0	0	0	0	0	0	307(3.5%)	38(0.4%)
72%	\$21.65	0	0	0	0	0	0	2(0.0%)	314(3.6%)	31(0.4%)
76%	\$22.95	0	0	0	0	0	0	1(0.0%)	306(3.5%)	40(0.5%)
80%	\$24.80	0	0	0	0	0	0	0	329(3.8%)	19(0.2%)
84%	\$27.06	0	0	0	0	0	0	0	325(3.7%)	23(0.3%)
88%	\$29.82	0	0	0	0	0	0	0	326(3.8%)	22(0.3%)
92%	\$34.23	0	0	0	0	0	0	0	331(3.8%)	16(0.2%)
96%	\$43.40	0	0	0	0	0	0	0	341(3.9%)	7(0.1%)
100%	\$859.69	0	0	0	0	0	0	0	344(4.0%)	3(0.0%)
TOTAL		0	0	0	0	4	2	103	8,102	481
		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	93.2%	5.5%
CUMULATIVE		0	0	0	0	4	6	109	8,211	8,692
		0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	1.3%	94.5%	100.0%
AVG.MO DIFF.						\$0.0	\$0.2	\$8.0	\$20.1	\$19.0

C-3-9

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES

Total Annual Bill Summary by Rate Schedules

Comparison Between 2015 Summer proposed 3.3 Rates using 50% BQ

AND 2016 Summer proposed 3.3 Rates using 50% BQ

Data From Yearly File(JAN 2011 - Dec 2011)

LAST RATE SCHEDULE	COUNT	ANNUAL TOTAL KWH	TOTAL ANNUAL CURRENT BILLS	CURRENT AVG RATE	TOTAL ANNUAL PROPOSED BILLS	PROPOSED AVG RATE	DIFFERENCE (PROPOSED-CURRENT)	(PROPOSED-CURRENT)/CURRENT	MAX DIFFERENCE	MIN DIFFERENCE
E1	2,815,104	18,278,276,127	\$3,801,271,245	0.20797	\$3,830,742,453	0.20958	\$29,471,208	0.78%	\$67	\$-82,853
E1L	1,156,472	7,576,011,970	\$877,161,924	0.11578	\$945,457,532	0.12480	\$68,295,608	7.79%	\$389	\$-478
E6	5,462	52,512,188	\$11,283,974	0.21488	\$10,842,670	0.20648	\$-441,304	(3.91%)	\$62	\$-18,862
E6L	379	6,078,576	\$739,336	0.12163	\$757,612	0.12464	\$18,276	2.47%	\$280	\$-286
E7	57,771	606,295,672	\$129,824,278	0.21413	\$126,726,854	0.20902	\$-3,097,424	(2.39%)	\$75	\$-7,582
E7L	7,757	84,873,446	\$9,730,575	0.11465	\$10,293,769	0.12128	\$563,194	5.79%	\$340	\$-423
E8	43,911	675,567,529	\$159,200,725	0.23565	\$150,202,497	0.22234	\$-8,998,228	(5.65%)	\$184	\$-18,862
E8L	8,692	136,763,391	\$17,303,195	0.12652	\$17,725,997	0.12961	\$422,802	2.44%	\$333	\$-1,389
TOTAL	4,095,548	27,416,378,899	\$5,006,515,252	0.18261	\$5,092,749,385	0.18576	\$86,234,133	1.72%	\$1,730	\$-130,735

C-3-10

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2015 Summer proposed 3.3 Rates using 50% BQ
 AND 2016 Summer proposed 3.3 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE-E1 -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	-16.83	0	7,951(0.3%)	102,932(3.7%)	1,741(0.1%)	0	0	0	0	0
8%	\$-9.42	0	0	43,824(1.6%)	68,856(2.4%)	0	0	0	0	0
12%	\$-5.44	0	0	89(0.0%)	112,694(4.0%)	0	0	0	0	0
16%	\$-2.75	0	0	0	112,342(4.0%)	0	0	0	0	0
20%	\$-0.74	0	0	0	112,599(4.0%)	0	0	0	0	0
24%	\$0.83	0	0	0	48,457(1.7%)	1,070(0.0%)	1,136(0.0%)	62,617(2.2%)	0	0
28%	\$2.04	0	0	0	0	0	0	112,743(4.0%)	2(0.0%)	0
32%	\$2.98	0	0	0	0	0	0	112,116(4.0%)	178(0.0%)	0
36%	\$3.70	0	0	0	0	0	0	110,494(3.9%)	2,070(0.1%)	37(0.0%)
40%	\$4.23	0	0	0	0	0	0	101,858(3.6%)	11,298(0.4%)	324(0.0%)
44%	\$4.60	0	0	0	0	0	0	74,998(2.7%)	38,597(1.4%)	1,093(0.0%)
48%	\$4.83	0	0	0	0	0	0	47,161(1.7%)	60,877(2.2%)	2,457(0.1%)
52%	\$4.94	0	0	0	0	0	0	28,271(1.0%)	123,814(4.4%)	60,630(2.2%)
60%	\$4.97	0	0	0	0	0	0	27,531(1.0%)	210,120(7.5%)	155,909(5.5%)
76%	\$4.98	0	0	0	0	0	0	20,945(0.7%)	180,676(6.4%)	145,862(5.2%)
92%	\$5.00	0	0	0	0	0	0	16,322(0.6%)	135,899(4.8%)	111,050(3.9%)
100%	\$5.14	0	0	0	0	0	0	766(0.0%)	8,174(0.3%)	9,512(0.3%)
TOTAL		0	7,951	146,845	456,689	1,070	1,136	715,822	771,705	486,874
		0.0%	0.3%	5.2%	16.2%	0.0%	0.0%	25.4%	27.4%	17.3%
CUMULATIVE		0	7,951	154,796	611,485	612,555	613,691	1329513	2101218	2588092
		0.0%	0.3%	5.5%	21.7%	21.8%	21.8%	47.2%	74.6%	91.9%
AVG. MO DIFF.			\$-133.6	\$-25.1	\$-5.0	\$-0.0	\$0.0	\$3.2	\$4.9	\$5.0

C-3-11

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2015 Summer proposed 3.3 Rates using 50% BQ
 AND 2016 Summer proposed 3.3 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E1L -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%	
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE	
4%	\$3.21	0	0	0	3,662(0.3%)	36(0.0%)	25(0.0%)	6,935(0.6%)	25(0.0%)	63(0.0%)	35,958(3.1%)
8%	\$3.48	0	0	0	0	0	0	2,021(0.2%)	44(0.0%)	20,187(1.7%)	25,373(2.2%)
12%	\$3.68	0	0	0	0	0	0	2,032(0.2%)	59(0.0%)	44,655(3.9%)	0
16%	\$3.85	0	0	0	0	0	0	2,229(0.2%)	109(0.0%)	43,397(3.8%)	0
20%	\$4.01	0	0	0	0	0	0	2,751(0.2%)	192(0.0%)	43,769(3.8%)	0
24%	\$4.16	0	0	0	0	0	0	3,188(0.3%)	389(0.0%)	43,530(3.8%)	0
28%	\$4.30	0	0	0	0	0	0	3,932(0.3%)	692(0.1%)	41,696(3.6%)	0
32%	\$4.43	0	0	0	0	0	0	4,202(0.4%)	1,333(0.1%)	38,796(3.4%)	0
36%	\$4.56	0	0	0	0	0	0	2,267(0.2%)	5,369(0.5%)	38,646(3.3%)	0
40%	\$4.68	0	0	0	0	0	0	2,201(0.2%)	7,405(0.6%)	35,709(3.1%)	0
44%	\$4.80	0	0	0	0	0	0	2,605(0.2%)	10,455(0.9%)	34,893(3.0%)	0
48%	\$4.91	0	0	0	0	0	0	2,823(0.2%)	13,179(1.1%)	30,659(2.7%)	0
52%	\$5.02	0	0	0	0	0	0	3,302(0.3%)	14,328(1.2%)	27,730(2.4%)	0
56%	\$5.17	0	0	0	0	0	0	5,601(0.5%)	8,628(0.7%)	32,233(2.8%)	0
60%	\$5.32	0	0	0	0	0	0	7,054(0.6%)	11,511(1.0%)	28,535(2.5%)	0
64%	\$5.46	0	0	0	0	0	0	4,895(0.4%)	21,160(1.8%)	21,057(1.8%)	0
68%	\$5.58	0	0	0	0	0	0	4,162(0.4%)	28,877(2.5%)	10,666(0.9%)	0
72%	\$5.70	0	0	0	0	0	0	5,092(0.4%)	37,249(3.2%)	4,138(0.4%)	0
76%	\$5.82	0	0	0	0	0	0	5,652(0.5%)	39,645(3.4%)	2,654(0.2%)	0
80%	\$5.94	0	0	0	0	0	0	6,300(0.5%)	37,062(3.2%)	2,199(0.2%)	0
84%	\$6.09	0	0	0	0	0	0	6,647(0.6%)	38,685(3.3%)	1,621(0.1%)	0
88%	\$6.24	0	0	0	0	0	0	3,848(0.3%)	40,008(3.5%)	152(0.0%)	0
92%	\$6.44	0	0	0	0	0	0	870(0.1%)	46,446(4.0%)	0	0
96%	\$7.54	0	0	0	0	0	0	1,544(0.1%)	43,245(3.7%)	0	0
100%	\$32.43	0	0	0	0	0	0	6,015(0.5%)	40,170(3.5%)	0	0
TOTAL		0	0	0	3,662	36	25	98,168	446,265	546,985	61,331
		0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	8.5%	38.6%	47.3%	5.3%
CUMULATIVE		0	0	0	3,662	3,698	3,723	101,891	548,156	1095141	1156472
		0.0%	0.0%	0.0%	0.3%	0.3%	0.3%	8.8%	47.4%	94.7%	100.0%
AVG.MO DIFF.					\$-4.4	\$-0.0	\$0.0	\$5.2	\$6.1	\$4.4	\$3.1

C-3-12

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Total Annual Bill Summary by Rate Schedules
 Comparison Between 2016 Summer proposed 3.3 Rates using 50% BQ
 AND 2017 Summer proposed 3.3 Rates using 50% BQ
 Data From Yearly File(JAN 2011 - Dec 2011)

LAST RATE SCHEDULE	COUNT	ANNUAL TOTAL KWH	TOTAL ANNUAL CURRENT BILLS	CURRENT AVG RATE	TOTAL ANNUAL PROPOSED BILLS	PROPOSED AVG RATE	DIFFERENCE (PROPOSED-CURRENT)	(PROPOSED-CURRENT)/CURRENT	MAX DIFFERENCE	MIN DIFFERENCE
E1	2,815,104	18,278,276,127	\$3,830,742,453	0.20958	\$3,797,130,932	0.20774	\$-33,611,521	(0.88%)	\$1,215	\$-124,898
E1L	1,156,472	7,576,011,970	\$945,457,532	0.12480	\$1,041,756,712	0.13751	\$96,299,181	10.19%	\$984	\$-1,104
E6	5,462	52,512,188	\$10,842,670	0.20648	\$10,010,900	0.19064	\$-831,770	(7.67%)	\$279	\$-28,471
E6L	379	6,078,576	\$757,612	0.12464	\$782,394	0.12871	\$24,781	3.27%	\$679	\$-679
E7	57,771	606,295,672	\$126,726,854	0.20902	\$120,851,259	0.19933	\$-5,875,595	(4.64%)	\$742	\$-11,476
E7L	7,757	84,873,446	\$10,293,769	0.12128	\$11,236,147	0.13239	\$942,378	9.15%	\$863	\$-982
E8	43,911	675,567,529	\$150,202,497	0.22234	\$137,600,842	0.20368	\$-12,601,655	(8.39%)	\$886	\$-29,821
E8L	8,692	136,763,391	\$17,725,997	0.12961	\$18,938,588	0.13848	\$1,212,591	6.84%	\$912	\$-3,055
TOTAL	4,095,548	27,416,378,899	\$5,092,749,385	0.18576	\$5,138,307,775	0.18742	\$45,558,390	0.89%	\$6,559	\$-200,485

C-3-13

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2016 Summer proposed 3.3 Rates using 50% BQ
 AND 2017 Summer proposed 3.3 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=B1 -----

PCT	MONTHLY \$ DIFFERENCE	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
		DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	-29.31	909(0.0%)	106,812(3.8%)	4,845(0.2%)	41(0.0%)	0	0	0	0	0	0
8%	-18.13	0	32,057(1.1%)	80,548(2.9%)	114(0.0%)	0	0	0	0	0	0
12%	-12.06	0	194(0.0%)	109,669(3.9%)	2,686(0.1%)	0	0	0	0	0	0
16%	\$-7.88	0	51(0.0%)	73,783(2.6%)	38,887(1.4%)	0	0	0	0	0	0
20%	\$-4.71	0	15(0.0%)	10,397(0.4%)	102,152(3.6%)	0	0	0	0	0	0
24%	\$-2.19	0	1(0.0%)	186(0.0%)	112,476(4.0%)	0	0	0	0	0	0
28%	\$-0.19	0	0	7(0.0%)	112,787(4.0%)	0	0	0	0	0	0
32%	\$0.89	0	0	0	11,195(0.4%)	782(0.0%)	841(0.0%)	87,156(3.1%)	13,186(0.5%)	0	0
36%	\$1.77	0	0	0	0	0	0	70,291(2.5%)	42,660(1.5%)	0	0
40%	\$2.49	0	0	0	0	0	0	66,954(2.4%)	11,554(0.4%)	33,948(1.2%)	0
44%	\$3.09	0	0	0	0	0	0	65,374(2.3%)	3,113(0.1%)	44,486(1.6%)	0
48%	\$3.59	0	0	0	0	0	0	63,129(2.2%)	5,229(0.2%)	43,755(1.6%)	0
52%	\$4.03	0	0	0	0	0	0	44,685(1.6%)	24,427(0.9%)	43,085(1.5%)	0
56%	\$4.43	0	0	0	0	0	0	40,073(1.4%)	30,808(1.1%)	43,671(1.6%)	0
60%	\$4.78	0	0	0	0	0	0	35,736(1.3%)	31,989(1.1%)	42,556(1.5%)	0
64%	\$5.12	0	0	0	0	0	0	18,411(0.7%)	50,181(1.8%)	46,989(1.7%)	0
68%	\$5.43	0	0	0	0	0	0	11,089(0.4%)	40,282(1.4%)	61,326(2.2%)	0
72%	\$5.78	0	0	0	0	0	0	8,529(0.3%)	45,512(1.6%)	57,664(2.0%)	0
76%	\$6.19	0	0	0	0	0	0	2,866(0.1%)	64,940(2.3%)	42,978(1.5%)	0
80%	\$6.57	0	0	0	0	0	0	1,378(0.0%)	64,797(2.3%)	47,314(1.7%)	0
84%	\$6.92	0	0	0	0	0	0	1,276(0.0%)	55,436(2.0%)	57,189(2.0%)	0
88%	\$7.26	0	0	0	0	0	0	1,210(0.0%)	27,622(1.0%)	84,180(3.0%)	0
92%	\$7.69	0	0	0	0	0	0	1,485(0.1%)	31,353(1.1%)	78,137(2.8%)	0
96%	\$8.83	0	0	0	0	0	0	3,588(0.1%)	26,300(0.9%)	81,232(2.9%)	0
100%	101.22	0	0	0	0	0	0	4,003(0.1%)	36,746(1.3%)	71,791(2.6%)	0
TOTAL		909 0.0%	139,130 4.9%	279,435 9.9%	380,338 13.5%	782 0.0%	841 0.0%	527,233 18.7%	606,135 21.5%	880,301 31.3%	0 0.0%
CUMULATIVE		909 0.0%	140,039 5.0%	419,474 14.9%	799,812 28.4%	800,594 28.4%	801,435 28.5%	1328668 47.2%	1934803 68.7%	2815104 100.0%	2815104 100.0%
AVG.MO DIFF.		\$-453.0	\$-49.7	\$-15.8	\$-4.0	\$-0.0	\$0.0	\$2.8	\$5.8	\$6.3	

C-3-14

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2016 Summer proposed 3.3 Rates using 50% BQ
 AND 2017 Summer proposed 3.3 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=B1L -----

PCT	MONTHLY \$ DIFFERENCE	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
		DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	\$2.05	0	0	0	5,370(0.5%)	21(0.0%)	31(0.0%)	3,326(0.3%)	7,869(0.7%)	29,716(2.6%)	0
8%	\$2.72	0	0	0	0	0	0	1,133(0.1%)	108(0.0%)	45,674(3.9%)	0
12%	\$3.23	0	0	0	0	0	0	1,083(0.1%)	93(0.0%)	44,635(3.9%)	0
16%	\$3.69	0	0	0	0	0	0	1,388(0.1%)	143(0.0%)	45,132(3.9%)	0
20%	\$4.12	0	0	0	0	0	0	1,593(0.1%)	182(0.0%)	44,526(3.9%)	0
24%	\$4.53	0	0	0	0	0	0	1,944(0.2%)	282(0.0%)	44,322(3.8%)	0
28%	\$4.93	0	0	0	0	0	0	2,439(0.2%)	423(0.0%)	43,349(3.7%)	0
32%	\$5.32	0	0	0	0	0	0	3,126(0.3%)	738(0.1%)	42,302(3.7%)	0
36%	\$5.70	0	0	0	0	0	0	1,496(0.1%)	3,622(0.3%)	41,002(3.5%)	0
40%	\$6.07	0	0	0	0	0	0	1,480(0.1%)	5,134(0.4%)	40,105(3.5%)	0
44%	\$6.41	0	0	0	0	0	0	1,730(0.1%)	6,923(0.6%)	37,327(3.2%)	0
48%	\$6.73	0	0	0	0	0	0	2,005(0.2%)	8,223(0.7%)	36,314(3.1%)	0
52%	\$7.03	0	0	0	0	0	0	2,071(0.2%)	5,007(0.4%)	39,282(3.4%)	0
56%	\$7.40	0	0	0	0	0	0	2,135(0.2%)	2,469(0.2%)	40,636(3.5%)	0
60%	\$7.85	0	0	0	0	0	0	2,295(0.2%)	5,112(0.4%)	39,002(3.4%)	0
64%	\$8.27	0	0	0	0	0	0	2,411(0.2%)	7,048(0.6%)	37,190(3.2%)	0
68%	\$8.65	0	0	0	0	0	0	2,243(0.2%)	9,253(0.8%)	34,198(3.0%)	0
72%	\$9.01	0	0	0	0	0	0	1,434(0.1%)	12,215(1.1%)	33,068(2.9%)	0
76%	\$9.34	0	0	0	0	0	0	368(0.0%)	12,063(1.0%)	33,187(2.9%)	0
80%	\$9.69	0	0	0	0	0	0	60(0.0%)	9,949(0.9%)	36,966(3.2%)	0
84%	\$10.12	0	0	0	0	0	0	64(0.0%)	15,165(1.3%)	30,507(2.6%)	0
88%	\$10.57	0	0	0	0	0	0	75(0.0%)	18,738(1.6%)	27,769(2.4%)	0
92%	\$11.06	0	0	0	0	0	0	96(0.0%)	16,432(1.4%)	29,284(2.5%)	0
96%	\$13.63	0	0	0	0	0	0	521(0.0%)	6,891(0.6%)	38,708(3.3%)	0
100%	\$82.00	0	0	0	0	0	0	446(0.0%)	7,364(0.6%)	38,441(3.3%)	0
TOTAL		0	0	0	5,370	21	31	36,962	161,446	952,642	0
		0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	3.2%	14.0%	82.4%	0.0%
CUMULATIVE		0	0	0	5,370	5,391	5,422	42,384	203,830	1156472	1156472
		0.0%	0.0%	0.0%	0.5%	0.5%	0.5%	3.7%	17.6%	100.0%	100.0%
AVG.MO DIFF.					\$-9.4	\$-0.0	\$0.0	\$5.8	\$8.9	\$6.9	

C-3-15

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES

Total Annual Bill Summary by Rate Schedules

Comparison Between 2017 Summer proposed 3.3 Rates using 50% BQ

AND 2018 Summer proposed 3.3 Rates using 50% BQ

Data From Yearly File(JAN 2011 - Dec 2011)

LAST RATE SCHEDULE	COUNT	ANNUAL TOTAL KWH	TOTAL ANNUAL CURRENT BILLS	CURRENT AVG RATE	TOTAL ANNUAL PROPOSED BILLS	PROPOSED AVG RATE	DIFFERENCE (PROPOSED-CURRENT)	(PROPOSED-CURRENT)/CURRENT	MAX DIFFERENCE	MIN DIFFERENCE
E1	2,815,104	18,278,276,127	\$3,797,130,932	0.20774	\$3,895,271,776	0.21311	\$98,140,843	2.58%	\$11,332	\$2
E1L	1,156,472	7,576,011,970	\$1,041,756,712	0.13751	\$1,068,734,807	0.14107	\$26,978,095	2.59%	\$732	\$1
E6	5,462	52,512,188	\$10,010,900	0.19064	\$10,289,118	0.19594	\$278,219	2.78%	\$2,618	\$3
E6L	379	6,078,576	\$782,394	0.12871	\$804,047	0.13228	\$21,653	2.77%	\$478	\$4
E7	57,771	606,295,672	\$120,851,259	0.19933	\$124,029,877	0.20457	\$3,178,619	2.63%	\$1,080	\$3
E7L	7,757	84,873,446	\$11,236,147	0.13239	\$11,534,362	0.13590	\$298,215	2.65%	\$659	\$2
E8	43,911	675,567,529	\$137,600,842	0.20368	\$141,023,219	0.20875	\$3,422,376	2.49%	\$2,787	\$0
E8L	8,692	136,763,391	\$18,938,588	0.13848	\$19,405,515	0.14189	\$466,927	2.47%	\$1,893	\$0
TOTAL	4,095,548	27,416,378,899	\$5,138,307,775	0.18742	\$5,271,092,721	0.19226	\$132,784,947	2.58%	\$21,580	\$15

C-3-16

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2017 Summer proposed 3.3 Rates using 50% BQ
 AND 2018 Summer proposed 3.3 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E1 -----

\$ MONTHLY \$	BELOW -20%	-20 - -10%	-10 - -5%	-5 - -0.01%	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
PCT DIFFERENCE	DECREASE	DECREASE	DECREASE	DECREASE	DECREASE	INCREASE	INCREASE	INCREASE	INCREASE	INCREASE
4%	\$0.65	0	0	0	0	0	115,534(4.1%)	0	0	0
8%	\$0.89	0	0	0	0	0	111,112(3.9%)	0	0	0
12%	\$1.08	0	0	0	0	0	113,882(4.0%)	0	0	0
16%	\$1.25	0	0	0	0	0	116,368(4.1%)	0	0	0
20%	\$1.40	0	0	0	0	0	110,165(3.9%)	0	0	0
24%	\$1.55	0	0	0	0	0	113,714(4.0%)	0	0	0
28%	\$1.69	0	0	0	0	0	107,666(3.8%)	0	0	0
32%	\$1.84	0	0	0	0	0	115,354(4.1%)	0	0	0
36%	\$1.99	0	0	0	0	0	114,935(4.1%)	0	0	0
40%	\$2.14	0	0	0	0	0	114,113(4.1%)	0	0	0
44%	\$2.29	0	0	0	0	0	111,446(4.0%)	0	0	0
48%	\$2.44	0	0	0	0	0	108,724(3.9%)	0	0	0
52%	\$2.60	0	0	0	0	0	111,694(4.0%)	0	0	0
56%	\$2.77	0	0	0	0	0	113,119(4.0%)	0	0	0
60%	\$2.95	0	0	0	0	0	112,951(4.0%)	0	0	0
64%	\$3.14	0	0	0	0	0	111,268(4.0%)	0	0	0
68%	\$3.35	0	0	0	0	0	113,173(4.0%)	0	0	0
72%	\$3.58	0	0	0	0	0	112,037(4.0%)	0	0	0
76%	\$3.84	0	0	0	0	0	112,347(4.0%)	0	0	0
80%	\$4.15	0	0	0	0	0	114,712(4.1%)	0	0	0
84%	\$4.51	0	0	0	0	0	110,973(3.9%)	0	0	0
88%	\$4.98	0	0	0	0	0	113,568(4.0%)	0	0	0
92%	\$5.62	0	0	0	0	0	111,366(4.0%)	0	0	0
96%	\$6.78	0	0	0	0	0	112,674(4.0%)	0	0	0
100%	\$944.36	0	0	0	0	0	112,209(4.0%)	0	0	0
TOTAL		0	0	0	0	0	2815104	0	0	0
		0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
CUMULATIVE		0	0	0	0	0	2815104	2815104	2815104	2815104
		0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%
AVG. MO DIFF.							\$2.9			

C-3-17

CORRELATION OF AVERAGE MONTHLY DOLLAR AND PERCENT DIFFERENCES
 Comparison Between 2017 Summer proposed 3.3 Rates using 50% BQ
 AND 2018 Summer proposed 3.3 Rates using 50% BQ
 FOR ANNUAL
 Data From Yearly File(JAN 2011 - Dec 2011)
 RES full service

----- LAST RATE SCHEDULE=E1L -----

\$ MONTHLY \$ PCT DIFFERENCE	BELOW -20% DECREASE	-20 - -10% DECREASE	-10 -	-5 -	-0.01 - 0%	0 - 0.01%	0.01 - 5%	5 - 10%	10 - 20%	ABOVE 20%
			-5% DECREASE	-0.01% DECREASE	-0.01 - 0% DECREASE	0 - 0.01% INCREASE	0.01 - 5% INCREASE	5 - 10% INCREASE	10 - 20% INCREASE	ABOVE 20% INCREASE
4%	\$0.55	0	0	0	0	0	48,135(4.2%)	0	0	0
8%	\$0.68	0	0	0	0	0	48,234(4.2%)	0	0	0
12%	\$0.78	0	0	0	0	0	45,964(4.0%)	0	0	0
16%	\$0.87	0	0	0	0	0	45,029(3.9%)	0	0	0
20%	\$0.96	0	0	0	0	0	46,815(4.0%)	0	0	0
24%	\$1.05	0	0	0	0	0	47,986(4.1%)	0	0	0
28%	\$1.13	0	0	0	0	0	42,038(3.6%)	0	0	0
32%	\$1.22	0	0	0	0	0	46,378(4.0%)	0	0	0
36%	\$1.32	0	0	0	0	0	50,544(4.4%)	0	0	0
40%	\$1.41	0	0	0	0	0	44,282(3.8%)	0	0	0
44%	\$1.51	0	0	0	0	0	47,555(4.1%)	0	0	0
48%	\$1.61	0	0	0	0	0	45,739(4.0%)	0	0	0
52%	\$1.71	0	0	0	0	0	44,256(3.8%)	0	0	0
56%	\$1.82	0	0	0	0	0	45,927(4.0%)	0	0	0
60%	\$1.94	0	0	0	0	0	47,324(4.1%)	0	0	0
64%	\$2.06	0	0	0	0	0	43,990(3.8%)	0	0	0
68%	\$2.20	0	0	0	0	0	47,157(4.1%)	0	0	0
72%	\$2.35	0	0	0	0	0	45,681(4.0%)	0	0	0
76%	\$2.52	0	0	0	0	0	45,991(4.0%)	0	0	0
80%	\$2.73	0	0	0	0	0	48,156(4.2%)	0	0	0
84%	\$2.96	0	0	0	0	0	44,536(3.9%)	0	0	0
88%	\$3.28	0	0	0	0	0	46,906(4.1%)	0	0	0
92%	\$3.75	0	0	0	0	0	45,991(4.0%)	0	0	0
96%	\$4.63	0	0	0	0	0	45,647(3.9%)	0	0	0
100%	\$67.63	0	0	0	0	0	46,211(4.0%)	0	0	0
TOTAL		0	0	0	0	0	1156472	0	0	0
		0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
CUMULATIVE		0	0	0	0	0	1156472	1156472	1156472	1156472
		0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%
AVG.MO DIFF.							\$2.0			

C-3-18

PACIFIC GAS AND ELECTRIC COMPANY

APPENDIX C -4

**BILL COMPARISON USING ENERGY DIVISION FORMAT: AT
ILLUSTRATIVE RATES ASSUMING 2.1 % GROWTH IN REVENUE
REQUIREMENT AND 55 % BASELINE QUANTITIES**

PG&E is in the process of completing the bill comparison using the Energy Division approved format for Appendices A-4, B-4, and C-4 and will provide these appendices by March 7, 2014, as a separate exhibit to the Supplemental Filing.

PACIFIC GAS AND ELECTRIC COMPANY
APPENDIX D
ASSIGNED COMMISSIONER RULING RATE DESIGN
QUESTIONS 1- 25

PACIFIC GAS AND ELECTRIC COMPANY
APPENDIX D
ASSIGNED COMMISSIONER RULING RATE DESIGN QUESTIONS 1-25

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1 **PACIFIC GAS AND ELECTRIC COMPANY**
2 **APPENDIX D**
3 **ASSIGNED COMMISSIONER RULING RATE DESIGN**
4 **QUESTIONS 1-25**

5 **A. Overall Rate Design Structure**

6 **Question 1**

7 Please describe, in summary form, the proposed default residential rate
8 structure for each year 2015-2018, including your proposed rates under
9 two scenarios: (a) no additional revenue requirement change; and (b) a
10 Consumer Price Index (CPI)-adjusted escalation of revenue requirements.

11 Include a Rate Design Roadmap that provides a detailed year-by-year
12 narrative, and a summary table that shows the major rate design structure,
13 policy, and elements year-by-year including the proposed rates. Include any
14 optional rates that you are proposing in this proceeding as well as other optional
15 rates in effect or being determined in other proceedings.

16 **Response to Question 1**

17 As shown in the Rate Design Roadmap below, Pacific Gas and Electric
18 Company's (PG&E) proposed standard residential rate structure is for a gradual
19 reduction in the number of tiers over the 2015-2018 transition period, and a
20 gradual reduction in the rate differential between the top and bottom tier rates
21 (until it reaches a 1.2:1 tier ratio by 2018). PG&E also proposes to introduce a
22 monthly service fee for both non-California Alternate Rates for Energy (CARE)
23 and CARE customers that increases over the transition period, along with a
24 gradual but steady reduction in the CARE discount which reaches Assembly Bill
25 (AB) 327's mandated 30 to 35 percent range in 2018.

**PG&E'S PROPOSED RESIDENTIAL RATE DESIGN ROADMAP
PACIFIC GAS AND ELECTRIC COMPANY**

Line No.	Objectives	2015	2016	2017	2018
1	<u>Tiered Rate Option</u>				
2	Monthly Service Fee (Replaces Minimum Bill)				
3	Non-CARE	• \$5	• Increase to \$10	• Increase to \$10.21	• Increase to \$10.42
4	CARE	• \$2.50	• Increase to \$5	• Increase to \$5.11	• Increase to \$5.21
3	Fewer and Narrower Tiers	• Collapse tiers 2 and 3	• Retain 3 tiers		• Reduce to 2 tiers with 1.2 price ratio
4	Reduced CARE Discount	• 43%	• 39%	• 36%	• 35%
5	<u>Time-of-Use (TOU) Option</u>				
6	Monthly Service Fee	• Same path as tiered rates			
7	CARE	• Same path as tiered rates			
8	Non-Tiered TOU	• Start optional non-tiered option	• TOU periods revised		
9	Existing TOU (E6,7)	• Follows same tier collapse path, monthly service fee, and CARE discount as tiered standard rates			
		• Close to new customers on 1/1/15			
		• Eliminate E-6, EL-6, E-7, EL-7, E-8, EL-8 on 1/1/16 – Retain Schedule EV plus monthly service fee			
10	Critical Peak Pricing (SmartRate™)	• Continue to offer to all customers as optional overlay			
		• Revise as tier collapse occurs			
11	FERA and Medical Allowance	• Restructure to follow tier restructuring			
12	Outreach	• General awareness to all residential customers			
		• Additional outreach efforts to the most impacted CARE and Non -CARE customers			

1 Tables D-1 and D-2 below show illustrative rates, given PG&E's proposal,
2 for two scenarios: (a) no additional revenue requirement change; and
3 (b) revenue requirement increased by 2.1 percent per year:

**TABLE D-1
PACIFIC GAS AND ELECTRIC COMPANY
ILLUSTRATIVE RATES ASSUMING NO CHANGE IN CURRENT REVENUE REQUIREMENT**

Non-CARE Rates	Current (Jan 2014)	Current (SB 695- Adjusted)	Proposed (Assuming No Change in Current Revenue Requirement)				
			Summer 2014	2015	2016	2017	2018
Monthly Service Fee	NA	NA	NA	\$5.00	\$10.00	\$10.21	\$10.42
Energy Charges							
0 to 100% of BQ	\$0.132	\$0.136	\$0.147	\$0.147	\$0.147	\$0.158	\$0.156
100% to 130% of BQ	\$0.150	\$0.155	\$0.170	\$0.184	\$0.184	\$0.190	\$0.187
130% to 200% of BQ	\$0.324	\$0.314	\$0.249	\$0.184	\$0.184	\$0.190	\$0.187
Over 200% of BQ	\$0.364	\$0.354	\$0.309	\$0.304	\$0.246	\$0.190	\$0.187
CARE Rates	Current (Jan 2014)	Current (SB 695- Adjusted)	Proposed (Assuming No Change in Current Revenue Requirement)				
			Summer 2014	2015	2016	2017	2018
Monthly Service Fee	NA	NA	NA	\$2.50	\$5.00	\$5.11	\$5.21
Energy Charges							
0 to 100% of BQ	\$0.083	\$0.086	\$0.091	\$0.097	\$0.103	\$0.108	\$0.107
100% to 130% of BQ	\$0.096	\$0.099	\$0.104	\$0.118	\$0.124	\$0.130	\$0.128
130% to 200% of BQ	\$0.140	\$0.140	\$0.148	\$0.118	\$0.124	\$0.130	\$0.128
Over 200% of BQ	\$0.140	\$0.140	\$0.148	\$0.148	\$0.148	\$0.130	\$0.128

**TABLE D-2
PACIFIC GAS AND ELECTRIC COMPANY
ILLUSTRATIVE RATES ASSUMING 2.1% ANNUAL CHANGE IN REVENUE REQUIREMENT**

Non-CARE Rates	Current (Jan 2014)	Current (SB 695- Adjusted)	Proposed (Assuming 2.1 Percent Growth in Revenue Requirement)				
			Summer 2014	2015	2016	2017	2018
Monthly Service Fee	NA	NA	NA	\$5.00	\$10.00	\$10.21	\$10.42
Energy Charges							
0 to 100% of BQ	\$0.132	\$0.136	\$0.147	\$0.147	\$0.147	\$0.162	\$0.177
100% to 130% of BQ	\$0.150	\$0.155	\$0.170	\$0.202	\$0.202	\$0.202	\$0.212
130% to 200% of BQ	\$0.324	\$0.314	\$0.249	\$0.202	\$0.202	\$0.202	\$0.212
Over 200% of BQ	\$0.364	\$0.354	\$0.309	\$0.304	\$0.274	\$0.245	\$0.212
CARE Rates	Current (Jan 2014)	Current (SB 695- Adjusted)	Proposed (Assuming 2.1 Percent Growth in Revenue Requirement)				
			Summer 2014	2015	2016	2017	2018
Monthly Service Fee	NA	NA	NA	\$2.50	\$5.00	\$5.11	\$5.21
Energy Charges							
0 to 100% of BQ	\$0.083	\$0.086	\$0.091	\$0.097	\$0.103	\$0.112	\$0.121
100% to 130% of BQ	\$0.096	\$0.099	\$0.104	\$0.118	\$0.124	\$0.136	\$0.145
130% to 200% of BQ	\$0.140	\$0.140	\$0.148	\$0.118	\$0.124	\$0.136	\$0.145
Over 200% of BQ	\$0.140	\$0.140	\$0.148	\$0.148	\$0.148	\$0.148	\$0.145

1 **Question 2**

2 Briefly describe how your rate design proposal conforms to each of the
3 10 rate design principles in R.12-06-013.

4 **Response to Question 2**

5 Rate design must balance a number of different objectives that can
6 sometimes come into conflict with one another. In this proceeding, to guide the
7 development of an optimal residential rate design structure, the Administrative
8 Law Judge (ALJ) set forth 10 guiding principles, after extensive comments were
9 solicited.¹ PG&E presents below a brief summary of how its Phase 1 rate
10 reform proposals for the transition period meet these rate design objectives,
11 grouped by like topics for convenience of the reader:

12 **Principles 2, 3, 8, 9 and 10**

13 Rates should be based on marginal costs and cost-causation principles,
14 should encourage economically efficient decision-making, should include
15 incentives that are explicit and transparent, and should generally avoid
16 cross-subsidies unless such cross-subsidies appropriately support explicit
17 state policy goals.

18 A primary driver of PG&E’s Phase 1 proposals is to transition residential
19 rates to be more “just and reasonable” (per Public Utilities Code Section 451),
20 which has traditionally meant ensuring rates are based on the cost of service.²
21 Keeping rates as close as possible to cost of service is equitable, in contrast to
22 the current state of residential rates in which post-energy crisis restrictions on
23 changes to rates for Tiers 1 and 2 have caused upper-tier non-CARE rates to
24 bear a disproportionate and highly inequitable share of residential cost of
25 service.

26 PG&E’s Phase 1 rate reform proposal will, by 2018, transition PG&E’s
27 current Tier 1 and 2 rates—which are significantly below cost—and its current
28 Tier 3 and 4 rates—which are far above cost—to rates that are much closer to
29 cost of service. By 2018, Schedules E-1 and EL-1 will be returned to a more

1 See Administrative Law Judge Ruling Requesting Residential Rate Design Proposals,
March 19, 2013, Appendix A.

2 See Bonbright, Danielson, and Kanerschen, Principles of Public Utility Rates,
specifically, Chapter 5, entitled “Cost of Service as a Basic Standard of
Reasonableness.”

1 cost-based two-tier structure, as was in place before the energy crisis, with a
2 gradually differentiated tier ratio (of 1.2:1) that removes most of the current
3 cross-subsidy. Likewise, PG&E proposes the phase-in of a monthly service fee
4 based on the fixed costs all customers impose on the system. Adding a monthly
5 service fee, as is used for all other customer classes to cover a portion of fixed
6 costs, creates clearer, more cost-based and equitable rates. Currently,
7 upper-tier users pay more than their fair share of these fixed costs, while
8 lower-tier customers pay less than their fair share. PG&E's proposed monthly
9 service fee will further reduce the current, unfair, cross-subsidy. Similarly,
10 PG&E's Phase 1 proposal will gradually reduce the CARE discount, between
11 now and 2018, to a level within AB 327's prescribed 30 to 35 percent range, thus
12 moving these rates somewhat closer to cost of service, while still maintaining a
13 substantial and explicit discount for these lower income customers.

14 Principle 1

15 Low-income and medical baseline customers should have access to enough
16 electricity to ensure basic needs (such as health and comfort) are met at an
17 affordable cost.

18 Under PG&E's Phase 1 proposals, medical baseline customers will continue
19 to receive additional baseline allowances, and low income customers who
20 qualify for CARE will receive CARE discounts of between 30 and 35 percent,
21 which is far greater than the 15 percent CARE discount that was in place prior to
22 the energy crisis. This discount range of 30 to 35 percent is now required by the
23 statutory language in AB 327 (2013).

24 Principle 4

25 Rates should encourage conservation and energy efficiency.

26 PG&E's Phase 1 rate proposal will, by 2018, restore the standard residential
27 rate schedules (E-1 and EL-1) to a two-tiered rate with a higher ratio (1.2:1) than
28 the 1.15:1 ratio that, prior to the energy crisis, the CPUC consistently found was
29 adequate to incent conservation. In addition, fixing the problem that usage in
30 Tiers 1 and 2 for many years now has been significantly below cost of service
31 will send a more appropriate price signal to encourage large numbers of
32 customers to conserve. PG&E's proposal also includes expanded participation

1 in a simplified optional TOU rate and further growth in enrollment for its opt-in
2 critical peak pricing rate—SmartRate—which is already the largest residential
3 CPP program in the country with successful load reduction.

4 Principle 5

5 Rates should encourage reduction of both coincident and non-coincident
6 peak demand.

7 For non-residential customer classes, dollar per kilowatt demand charges
8 are generally used to send price signals to incent customers to reduce their
9 coincident and non-coincident demands. While PG&E’s Phase 1 residential rate
10 reform proposal does not include demand charges, PG&E’s non-tiered TOU rate
11 will provide a rough price signal to incent customers to shift loads out of the
12 on-peak period that would be expected to reduce coincident demand on the
13 PG&E system (which occurs during the summer on-peak period).

14 Principles 6 and 10

15 Rates should be stable and understandable and provide customer choice,
16 and transitions to new rate structures should emphasize customer education
17 and outreach to enhance customer understanding and acceptance of new
18 rates, and minimize and appropriately consider the bill impacts associated
19 with such transitions.

20 While a primary driver of rate design should be to move toward more
21 appropriate, economically efficient and cost-based price signals, rates should be
22 as simple and understandable as possible, to better empower customers to take
23 actions to control their energy expenses and usage, while retaining appropriate
24 price signals and offering meaningful choices to customers. Cost-based rate
25 changes should be tempered with a concern for mitigating sudden and unduly
26 large bill increases. This means that the full extent of “cost-based rates” cannot
27 be implemented in one step. PG&E’s Phase 1 rate reform proposal
28 encompasses a multi-year transition, under which reforms to the residential rate
29 structure are gradually implemented over a reasonable period. PG&E’s
30 proposal balances the need to move as quickly as possible to fix the current
31 inequitable rate imbalances with a desire to mitigate the bill impacts that would
32 occur if all the necessary reforms were implemented all at once. PG&E’s
33 gradual proposal results in bill impacts that are modest for the vast majority of
34 customers.

1 PG&E's Phase 1 proposal simplifies rates and makes them more
2 understandable by gradually reducing the number of tiers to two by 2018 for the
3 default E-1 and EL-1 rates, while introducing a new non-tiered opt-in TOU rate to
4 be non-tiered starting in 2015—removing a major barrier to the current lack of
5 broad based understanding of TOU pricing. These less complicated designs will
6 be easier for customers to understand and manage their energy usage and bills.

7 PG&E's proposed approach offers meaningful customer choice, and seeks
8 to ramp up adoption by customers who affirmatively seek engagement, thus
9 avoiding the potential for customer dissatisfaction where rate options are not
10 subject to affirmative choice. PG&E's proposal is designed to be practical to
11 implement, and contemplates robust customer education and outreach to
12 enhance customer understanding and acceptance of PG&E's proposed new rate
13 structure.

14 **Question 3**

15 Describe how your rate design proposal complies legally and substantively
16 with the relevant provisions of D.08-07-045, particularly Ordering Paragraph
17 (OP) 8.³

18 **Response to Question 3**

19 PG&E fully complied with D.08-07-045, OP 8, when it filed its application for
20 a default residential critical peak pricing rate in A.10-08-005. Since A.10-08-005
21 was filed, the Commission has initiated this rate reform rulemaking proceeding
22 (R.12-06-013), and has recently revised the scope of the proceeding to include
23 whether to require the utilities to provide default or voluntary TOU rate designs
24 for residential customers. Furthermore, since D.08-07-045 was issued and
25 A.10-08-005 was filed, AB 327 repealed the then-existing Public Utilities Code
26 Section 745 governing default and mandatory time-variant rates, and replaced it
27 with a new Public Utilities Code Section 745 governing the timing and statutory
28 criteria applicable to the requirement or authorization of default TOU pricing for

³ Decision Adopting Dynamic Pricing Timetable and Rate Design Guidance for Pacific Gas and Electric Company. The Commission has previously adopted rate design guidance requiring utilities to develop default rates based on dynamic and Time-Variant Pricing (TVP). (See, e.g., D.08-07-045.) In D.08-07-0453, the Commission ordered PG&E to file an application proposing a default residential rate based on TVP after AB 1X restrictions were lifted. (D.08-07-045 (OP 8.)) D.08-07-045 found that, for its purposes, Critical Peak Pricing (CPP) combined with TOU was the optimal TVP or dynamic pricing mechanism for residential rates.

1 residential customers. Accordingly, the Assigned Commissioner has ordered
2 the utilities to submit their proposed rate designs for default or voluntary TOU
3 pricing in Phase 1 of the rate-setting phase of this rulemaking proceeding.
4 PG&E's rate design proposal is in compliance with the Assigned
5 Commissioner's direction.

6 **Question 4**

7 Does your default rate design request for 2018 and beyond include two-,
8 three-, or four-tiered rates? If so, how steeply tiered should these rates be?
9 If you propose fewer than four tiers, how should the tiered rates transition over
10 time to ensure a reasonable phase-in schedule? If you propose retaining more
11 than two tiers in 2018 and beyond, either as a default or an optional rate, please
12 discuss the rationale for retaining three or more tiers.

13 **Response to Question 4**

14 PG&E's standard rate design request for 2018 includes two tiers for both
15 non-CARE and CARE rates, with a price ratio of 1.2:1 between the tiers.
16 PG&E proposes a reasonable, gradual transition to these 2018 rates over the
17 transition period, with a reduction to three tiers in 2015 followed by an additional
18 reduction to two tiers in 2018. After 2018, PG&E reserves the right to propose
19 further changes to the standard rate design structure, consistent with statutory
20 restrictions.

21 **Question 5**

22 Does your rate design request propose default time-of-use (TOU) rates
23 beginning January 1, 2018 or thereafter? Why or why not?

24 **Response to Question 5**

25 PG&E's rate design request does not propose default TOU rates beginning
26 in 2018.

27 PG&E agrees with the CPUC's rate design principle number six,⁴ that rates
28 should provide customers with a choice, and PG&E believes that awareness of
29 rate options is required for customers to truly make a choice. By offering two,
30 simple options, such as a two-tiered non-TOU and a non-tiered TOU rate plans,
31 PG&E's customers who are aware of their options can make an affirmative

⁴ Attachment A, Principle 6 of the Administrative Law Judge (ALJ) Ruling dated March 19, 2013, in this proceeding states: "Rates should be stable and understandable and provide customer choice."

1 choice to enroll in the rate plan that works best for them in terms of their desire
2 to save money on their bill and their preferences for, and ability to effect, load
3 shifting and load reduction.

4 Offering residential electric customers a simpler, optional, two-period TOU
5 rate plan starting in 2015 will continue to build a population of engaged
6 customers—and PG&E views customer engagement as a key driver in achieving
7 the important policy objective of peak load shifting.⁵ To engage customers,
8 residential rate design must balance simplicity, efficiency, and stability. Ease of
9 understanding is crucial to the success of moving more customers to TOU rates.
10 Currently, over 100,000 residential customers are on tiered three-period TOU
11 rates and the only open residential TOU rate, Schedule E-6, is adding about 800
12 to 900 participants per month.⁶ PG&E's intent is that significantly more
13 residential customers opt-in to the simpler TOU rate plans over the next several
14 years.⁷

15 PG&E's proposed optional non-tiered TOU rate plan is designed with the
16 objectives of achieving meaningful load impacts and increasing customer
17 engagement beginning in 2015.⁸

18 An initial evaluation of large-scale residential TOU programs indicates that a
19 pilot program for PG&E's customers is warranted prior to a CPUC decision on
20 whether or not to pursue default TOU for residential customers. PG&E's

⁵ PG&E has completed a benchmarking study that suggests that customers who are able to choose their rate plan, as opposed to being defaulted onto a rate plan, tend to be more engaged and satisfied and, therefore, are more likely to provide peak load reduction and other more efficient uses of energy. More details on this study are found in Chapter 2, Section G, of this testimony.

⁶ Customers are discovering the availability of TOU primarily through solar providers and online rate analysis tools.

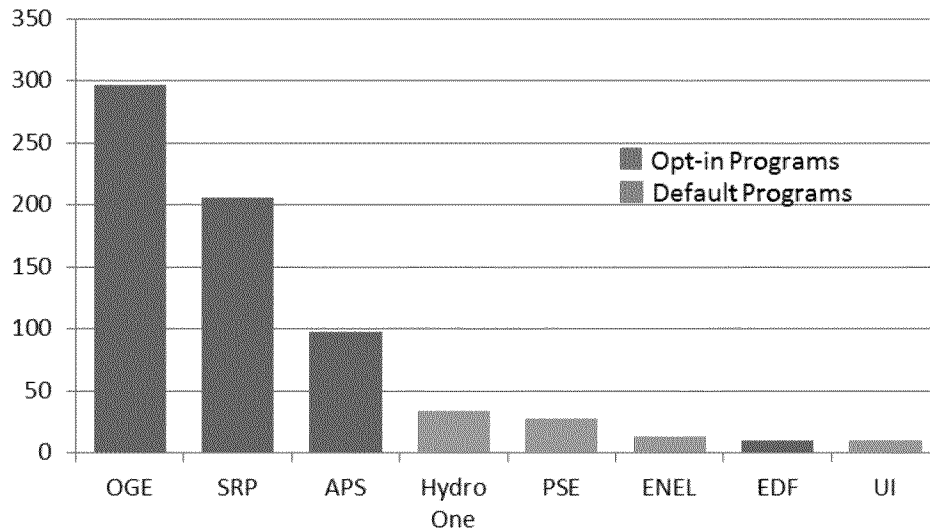
⁷ Per the February 13, 2014 ACR, on March 21, 2014, PG&E will describe its plan to attract customers to opt-in TOU prior to 2018, including customer communication, outreach and education.

⁸ Hiner & Partners was retained by PG&E, SCE and SDG&E to conduct a survey to improve understanding of customer perceptions of current and possible future rate structures and potential bill impacts. An online survey of approximately 5,300 electric customers was fielded in February and March of 2013, through a market research panel company employing quotas to ensure the sample was representative of the IOU customer population. The survey concluded that customers prefer simpler rate plan structures: flat, two-tier and two-period TOU rate plans were preferred relative to three-tier and three-period plans. ("RROIR Customer Survey Findings," Hiner & Partners, April 16, 2013, p. 18.)

1 “customer choice” approach is better supported by experiences around the world
2 with default and opt-in residential TOU programs. PG&E’s testimony describes
3 the benchmarking effort performed by eMeter Strategic Consulting (ESC) with
4 the majority of jurisdictions around the world that have or have had substantial
5 numbers of residential customers on TOU rates. The experiences of the
6 large-scale roll-outs of opt-in and default residential TOU programs reviewed in
7 that benchmarking study, provide important insights on the best approaches to
8 transitioning residential customers to TOU rates.⁹ Examination of the results of
9 those programs shows that maximizing participation through default may not
10 necessarily achieve load-shifting objectives better than an opt-in approach, over
11 time. Figure 2-19 below shows aggregate load impacts for the large-scale
12 residential TOU programs included in the benchmarking effort. Individual load
13 impacts have been adjusted to represent the program’s overall impact on
14 system peak.

⁹ **Arizona Public Service:** Meissner, Chuck, Arizona Public Service. “Residential Time-of-Use Pricing,” presentation from APSC Webinar, January 2014. **Enel:** Maggiore, Simone, Ricerca Sistema Energenico. “Impact of a mandatory time-of-use tariff on residential customers in Italy,” presentation from Espoo, November 2012; **Enel:** The Regulatory Authority for Electricity and Gas (Italy). “2013 Annual Report,” July 31, 2013 http://www.ceer.eu/portal/page/portal/EER_HOME/EER_PUBLICATIONS/NATIONAL_REPORTS/National%20Reporting%202013/NR_En/C13_NR_Italy-EN.pdf; **Hydro One:** Navigant Consulting. “Time of Use Rates in Ontario, Prepared for the Ontario Energy Board,” December 20, 2013 http://www.ontarioenergyboard.ca/OEB/Documents/EB-2004-0205/Navigant_report_TOU_Rates_in_Ontario_Part_1_201312.pdf; **Oklahoma Gas and Electric Company (OGE):** Enernoc. “OG&E SmartHours Residential Pricing Results,” presentation from AEIC Load Research Conference, July 9, 2013; **Puget Sound Energy (PSE),** DuBois, Dennis. “Time-of-Use Electricity Billing: How Puget Sound Energy Reduced Peak Power Demands (Case Study),” Energy Priorities, February 14, 2006 http://www.energypriorities.com/entries/2006/02/pse_tou_amr_case.php; **Salt River Project (SRP):** Schwartz, Judith. “The Persistence of Consumer Choice: SRP,” Case Study for the Association of Demand Response and Smart Grid, June 2012 http://www.demandresponsesmartgrid.org/Resources/Documents/Case%20Studies/SRP_CaseStudy_FINAL_061812.pdf.

**FIGURE 2-19
PACIFIC GAS AND ELECTRIC COMPANY
MW REDUCED PER MILLION CUSTOMERS**



1 **Question 6**

2 Regardless of whether you propose defaulting customers to a TOU a rate,
3 please explain why default TOU rates should or should not be tiered?

4 **Response to Question 6**

5 TOU rates generally should not be tiered because: (a) tiered rates do not
6 reflect cost of service; and (b) tiering introduces complexity and confusion for
7 customers that detracts from and reduces the simplicity, understandability and
8 efficiency of the price signals provided to customers by the TOU component of
9 the rates. PG&E customer surveys have already shown that customers do not
10 understand basic tiered rates; having tiers within TOU periods causes an
11 exponential increase in rate complexity.¹⁰

12 **Question 7**

13 If you are proposing default TOU in 2018, what is your proposed opt-out rate
14 or rates? For tiered rates, how many tiers are included and how steeply tiered
15 are they?

¹⁰ PG&E Residential Rate Tier Survey June 2012, King Brown Partners, p. 30. Those customers that do understand tiered rates are not aware of the “tier” price signal, or how they would adjust their energy usage behavior if they received a real-time tier price signal. They are, however, aware when their bills go up significantly (+10 percent) and are frustrated because they don’t know what they can do to lower the bill. The concept of baseline quantity is complicated.

1 **Response to Question 7**

2 PG&E is not proposing any default TOU rate plans for its residential
3 customers in 2018. In addition to a two-tiered rate with a ratio of 1.2:1 between
4 the tiers, customers would have a choice of a simple, non-tiered TOU rate
5 option, as well as a choice of SmartRate as an overlay on either the standard
6 two-tiered rate or the opt-in, non-tiered TOU rate.

7 **Question 8**

8 Prior to 2018, does your rate design request include optional TOU rates?
9 Please explain whether and why these optional TOU rates should be tiered or
10 not. If your proposal includes optional TOU rates with fewer tiers than the
11 default rate, do you expect some amount of revenue shortfall associated with
12 higher cost upper tier customers migrating to the TOU rate? How would you
13 handle that revenue shortfall? Should the optional TOU rates remain revenue
14 neutral to the default rate during the 2015-2018 transitional period? Why or why
15 not? What about after 2018?

16 **Response to Question 8**

17 Yes, PG&E is proposing to introduce an opt-in TOU rate with no tiers,
18 beginning in 2015 and continuing beyond 2018. This new TOU rate—
19 Schedule E-TOU¹¹—will also be available to CARE customers at a 35 percent
20 discount on the energy rate, plus a \$2.50 monthly service fee.

21 PG&E's benchmarking efforts, as well as the Customer Survey conducted in
22 spring of 2013 as part of this proceeding, have provided substantial insight into
23 customer preferences for, and performance on, particular TOU rate designs.
24 This research shows that a simple, non-tiered optional TOU rate is more likely to
25 attract customer enrollment, as it is easier for customers to understand. Further,
26 opt-in non-tiered TOU rates provide price signals on which engaged customers
27 who have chosen to be on the rate are likely to take action to reduce or shift
28 loads. PG&E is proposing to phase out, and by 2016 eliminate, its existing
29 tiered TOU rate options,¹² in favor of the new, more cost-based, non-tiered
30 Schedule E-TOU.

11 "E-TOU" is the interim name for this non-tiered TOU rate. PG&E intends to rename this schedule upon completion of customer research around meaningful rate plan names.

12 The tiered TOU rate options include Schedules E-6, E-7, EL-6 and EL- 7.

1 Currently, residential customers are given multiple sets of prices (in the form
2 of tiers) for the same TOU period. All customers are charged the lowest price
3 level at the beginning of each month, but this price can increase throughout the
4 course of the month for many customers based on their total usage, and without
5 regard to when during the day or night they use electricity, only to reset to the
6 lowest level on the first day of the following month. As a result, some customers
7 can pay a significantly lower rate for summer peak usage than other customers
8 pay for summer off-peak usage. This is economically illogical and inefficient.
9 For example, a customer could desire, on the 26th of the month, to use outdoor
10 lighting to enhance night time security between the hours of 2:00 a.m. and
11 4:00 a.m. However, because it is near the end of the month, this customer is
12 required to pay a high tiered rate that bears absolutely no relation to actual cost.
13 Table 2-10 demonstrates the current problem embedded in the Schedule E-6
14 rate design. This problem also exists for Schedules EL-6, E-7 and EL-7.

TABLE 2-10
PACIFIC GAS AND ELECTRIC COMPANY
SCHEDULE E-6 SUMMER TOU RATES (\$/KWH) AS OF JANUARY 1, 2014

Line No.	Energy Rates	Peak	Part-Peak	Off-Peak
1	<u>Summer Rates</u>			
2	Baseline Usage	0.287	0.175	0.101
2	101% – 130% of Baseline	0.305	0.193	0.119
3	131% – 200% of Baseline	0.478	0.366	0.291
4	Over 200% of Baseline	0.518	0.406	0.331
5	<u>Winter Rates</u>			
6	Baseline Usage	NA	0.121	0.105
7	101% – 130% of Baseline	NA	0.139	0.123
8	131% – 200% of Baseline	NA	0.312	0.296
9	Over 200% of Baseline	NA	0.352	0.336

15 As shown in Table 2-10, Schedule E-6 Tier 3 and Tier 4 customers pay
16 more for electricity at 3:00 a.m. than Tier 1 customers pay at 3:00 p.m. during
17 the summer. They even pay more in the winter, when loads are significantly
18 below those in both the summer peak and summer part-peak periods, than a
19 Tier 1 customer pays for peak power in the summer. In addition, Schedule E-6
20 customers are confronted with a confusing array of prices depending on which
21 tier they are in, something that can only be ascertained by either checking their

1 usage online in My Energy, or by receiving an email or text from PG&E informing
2 them that they are entering a higher tier.

3 In contrast, customers would be very clear about the price they would pay
4 under a non-tiered TOU rate design. They know whether today is a weekday or
5 weekend. They know whether today is the summer or winter. As for the time of
6 day, they only need to look at their watch or cell phone. Only one price applies
7 at a time, instead of the current four-tiered prices. It is also very clear to
8 customers from the simplified rates that the summer on-peak price is not only
9 the most expensive price, it is nearly double that of the winter off-peak price.
10 The message of a non-tiered TOU rate is simple: reduce summer peak period
11 usage.

12 The optional rate should be designed and kept as revenue neutral with the
13 class to avoid cross subsidies inside of the residential class, as is the case with
14 the current Schedule E-7 rate design, where approximately \$17 million a year of
15 cross subsidy is built into that rate, because it was not designed to be revenue
16 neutral with the residential class. PG&E believes that the optional non-tiered
17 TOU rate should stay revenue neutral at least through the transition period.

18 By eliminating tiers and their inclining block structure, PG&E's new
19 Schedule E-TOU rate is more cost-based than PG&E's existing tiered TOU
20 rates. However, because the Schedule E-1 rates will still have high top-tier rates
21 in 2015, there is a potential for revenue loss due to migration of upper-tier
22 consuming customers to the non-tiered Schedule E-TOU. To the extent such
23 shortfalls occur, they will be recovered within the residential class over an
24 appropriate period of time and enrollment in Schedule E-TOU will be temporarily
25 capped as appropriate.

26 **Question 9**

27 What other optional residential tariffs are you proposing either in this
28 proceeding or in other proceedings? Do you propose additional optional
29 time-variant pricing options that would take effect between 2015 and 2018?
30 If yes, then describe these rates, e.g., critical peak pricing, electric vehicle rates,
31 etc. Include specific details on: peak event period timing and pricing, event
32 notification, and rate structure.

1 **Response to Question 9**

2 In addition to an opt-in, non-tiered TOU rate, PG&E proposes to continue its
3 residential CPP program, SmartRate (Schedule E-RSMART) throughout the
4 transition period.

5 SmartRate is an optional demand response program that PG&E customers
6 may choose as an “overlay” to either their standard rate or optional TOU rate.
7 PG&E currently provides service to over 118,000 customers under this opt-in
8 demand response tariff, making it the largest residential CPP program in the
9 nation.

10 SmartRate is a “carrot and stick” program under which participating
11 customers’ ordinary bills are adjusted through supplemental charges and credits.
12 Specifically, SmartRate participants pay higher prices on a limited number of
13 “Smart Days” each year, usually on hot summer afternoons. These higher
14 prices are offset by two separate rate credits that apply to most of the
15 customer’s other summer-season usage. The first rate credit applies to all of the
16 participating customers’ June through September usage except during
17 Smart Day event hours. The second—called a “participation credit”—applies
18 only to their usage above 130 percent of baseline during the same June through
19 September period. The higher charge on Smart Days, as well as the first credit
20 that applies to usage regardless of tier, will be unaffected by PG&E’s tier
21 collapse proposal. However, the participation credit will need to be modified,
22 since it is applicable today to usage above 130 percent of baseline, and that will
23 no longer be a tier boundary. Instead, for customers on tiered rates, PG&E
24 proposes that the participation credit apply to all usage over 100 percent of
25 baseline. Because more kilowatt-hours (kWh) would be eligible for the credit,
26 PG&E proposes to reduce its value from today’s level of 1.0 cents per kWh to
27 0.75 cents per kWh. For customers on PG&E’s new non-tiered optional TOU
28 rate, Schedule E-TOU, PG&E proposes that the participation credit apply to all
29 usage, but be further reduced to 0.5 cents per kWh. These changes would
30 preserve the approximate magnitude of the currently effective SmartRate
31 participation credit for all participants, with the reductions approximately
32 reflecting the increased number of kilowatt-hours that will now be eligible to
33 receive these credits.

1 For customers with electric vehicle charging loads, PG&E proposes to retain
2 its existing non-tiered TOU rate option, Schedule EV, but modify it to add a
3 monthly service fee (at the same levels proposed over time for standard rate
4 Schedule E-1). PG&E's tiered TOU rate option for electric vehicles will be
5 eliminated, as previously directed by the Commission.

6 **Question 10**

7 How should the Commission ensure that any TOU rate schedule does not
8 cause unreasonable hardship for senior citizens or economically vulnerable
9 customers in hot climate zones?

10 **Response to Question 10**

11 By adopting PG&E's proposed opt-in approach to TOU rates, the CPUC will
12 ensure that senior citizens and economically vulnerable customers in hot climate
13 zones will be able to choose among TOU and non-TOU rate offerings, based on
14 their individual operating characteristics and needs as related to energy use, as
15 well as their individual economic circumstances. PG&E will include robust
16 customer education and outreach in order to provide customers with relevant
17 information upon which to base their choices. Under PG&E's approach, no
18 customer—including senior citizens and economically vulnerable customers in
19 hot climate zones—would be defaulted onto any TOU rate that they did not
20 choose.

21 **B. Fixed Charges, Demand Charges and Minimum Bills**

22 **Question 11**

23 If your proposal contains fixed charges, demand charges, or minimum bills
24 that are higher than current minimum bills, describe such charges, and why they
25 are appropriate. Please state whether such charges reflect different costs of
26 serving multi-family vs. single-family customers, or other cost-based distinctions
27 among residential households. If no such cost-based distinctions among
28 residential households should apply with respect to fixed charges, demand
29 charges, and/or minimum bills, please explain your rationale for reaching that
30 conclusion.

31 **Response to Question 11**

32 For non-CARE customers, PG&E is proposing to introduce a \$5.00 monthly
33 service fee in 2015 to help cover fixed costs. PG&E proposes to increase it to
34 \$10.00 in 2016, and to thereafter increase it by the Consumer Price Index

1 (as authorized by AB 327). PG&E is proposing similar monthly service fees for
2 CARE customers, at half the non-CARE levels. These charges would in general
3 replace today's minimum bill amount charges.¹³ PG&E is not proposing
4 demand charges for residential customers, nor is it proposing separate monthly
5 service fees for single- and multi-family customers.¹⁴ The remainder of this
6 response is taken from Chapter 2, Section B, of PG&E's testimony, describing
7 why a fixed monthly service fee is appropriate.

8 A fundamental principle for an equitable rate design is that rates should
9 reflect cost of service, so that customers pay bills roughly consistent with how
10 the utility incurs the costs to serve its customers.¹⁵ The cost of providing
11 electric service to residential customers has both fixed and variable elements.
12 For example, the cost of printing and mailing a bill does not vary with a
13 customer's monthly usage. Indeed, PG&E incurs this cost each month even if a
14 customer uses no electricity at all. An appropriate cost-based rate design would
15 thus charge customers for this and other fixed costs via a fixed monthly charge,
16 or service fee, and employ a variable charge or charges (e.g., separate prices
17 for different TOU periods) to collect variable costs that do differ depending upon
18 the customer's usage.¹⁶ All of PG&E's rates for non-residential customers

13 However, PG&E proposes that a zero minimum bill would continue to apply on delivery charges on all residential rate schedules to ensure no negative bills (as is currently the case with Schedules E-7, EL-7 and EL-8).

14 By not proposing different monthly service fee levels for single- and multi-family customers, PG&E is not concluding that fixed costs do not differ between such dwelling types. They may. But there are practical problems with defining how to make such distinctions (e.g., answering the question, "Is a duplex unit considered single- or multi-family?"), and disputes will arise. Moreover, fixed cost differences may be more a function of the customer's panel size than dwelling type. Since it has not evaluated the degree to which differences in fixed costs might be related to different customer characteristics, PG&E decided to propose a simple monthly service fee that applies to all customers. PG&E reserves the right, in a future proceeding, to propose differentiated monthly service fees based upon cost of service characteristics.

15 See Bonbright, Danielson and Kanerschen, *Principles of Public Utility Rates*, specifically, Chapter 5, entitled "Cost of Service as a basic standard of reasonableness." Also see R.12-06-013 Attachment A of the Administrative Law Judge (ALJ) Ruling dated March 19, 2013, where the CPUC stated that rates should be based on cost-causation principles.

16 Marginal customer costs, which include revenue cycle services costs, are driven by the number of customers served. In addition, as described below, there are other quasi-fixed costs that are driven by customer coincident and non-coincident kW loads, independent of kWh usage.

1 include such a rate component to help cover fixed costs. However, to date,
2 PG&E’s residential electric rates, do not do this. Instead, all costs are collected
3 through variable (sometimes called volumetric) energy charges. This rate
4 structure is not cost-based, since low users do not pay their fair share of the
5 fixed costs they impose on the system, and high users pay an unfairly high
6 share of those costs.

7 A monthly fixed fee to recover fixed costs of utility service is a key tool for
8 fulfilling the very important ratemaking principle that rates should be based on
9 cost causation. In the context of residential rate design, there are a number of
10 categories of costs that do not vary with the volumes of kWh consumed by
11 customers. First, there are customer access and revenue cycle service costs
12 that, for non-residential customers, are generally collected via monthly fixed
13 charges. These include the costs of connecting a customer to the grid and
14 maintaining that connection and service to the account—including metering,
15 preparing and sending bills, processing payments, providing service center
16 resources, and other grid-related costs. Second, there are capacity-related
17 costs associated with generation, transmission, and distribution assets.
18 These generation and grid costs are driven by customers’ coincident and
19 non-coincident demands on the PG&E system, and for non-residential
20 customers are generally collected via demand charges.¹⁷ For a customer class
21 like residential, though, where demand charges are not currently employed, it is
22 more appropriate to collect these types of costs through a fixed monthly charge
23 rather than through volumetric charges—since the costs are incurred by the
24 utility on behalf of each individual customer and do not change based on the
25 volume of electricity that the customer consumes.

26 In situations where certain costs are fixed and cannot be avoided, setting a
27 rate to recover these costs through monthly fixed fees, rather than through
28 volumetric rates, more appropriately reflects cost causation, and supports more
29 equitable recovery of PG&E’s fixed costs among customers. These fixed costs
30 should be paid by all customers, rather than shifted unfairly from some onto

¹⁷ There is also another category of costs—the cost of programs like those that provide incentives for energy efficiency—which do not vary with customers’ usage, yet are collected through volumetric charges that force higher users to bear a greater proportion of the program costs.

1 others, as is currently the case. Consistent with this fair and efficient cost-
2 causation principle, the CPUC has approved fixed fees for every single one of
3 PG&E's *non-residential* rate schedules—in recognition that this is an appropriate
4 way to collect fixed costs. Because PG&E incurs these same types of fixed
5 costs to serve residential customers, a monthly fixed fee that similarly does not
6 vary with consumption would be appropriate for these customers as well.

7 In addition, a monthly service fee provides revenue that allows for a
8 reduction in higher tiered volumetric rates, providing for further movement of
9 overall residential electric rates towards cost. Thus, establishing a monthly
10 service fee will help mitigate the inequity in the current inclining block rate
11 design and the associated rate disparities between the lower and higher tier
12 non-CARE rates and between CARE and non-CARE rates.

13 The Energy Division (ED) Report recognizes the need for a fixed charge,
14 and recommends either a monthly fixed fee or a monthly minimum bill amount,
15 as a means to more appropriately collect fixed costs from customers. PG&E has
16 analyzed the introduction of a monthly service fee, instead of a minimum bill,
17 and concluded that a monthly service fee is a superior alternative to a minimum
18 bill amount.¹⁸ First, fixed costs are incurred to serve all customers. Consistent
19 with this cost-causation, a monthly service fee, that is, a fixed amount each
20 month regardless of usage, appropriately applies to *all* customers. In contrast, a
21 minimum bill amount is applied only to a very small percentage of customers
22 with little or no usage in a given month. For example, for the current minimum
23 bill on PG&E's residential rate Schedule E-1 to apply, a customer would have to
24 use 34 kWh or less in a month (since 34 kWh times 13.2 cents equals \$4.50).
25 Only about 3 percent of PG&E's total E-1 customers have usage this low in any
26 given month. Consequently, it yields only a small amount of revenue (less than
27 \$4 million per year). In contrast, a \$5.00 customer charge would yield over
28 \$150 million in annual revenue.

29 The monthly fixed fee also is more equitable because it charges all
30 customers on a rate schedule the same amount, every month, to cover a portion
31 of PG&E's fixed costs. For example, a \$5.00 monthly service fee on PG&E's

¹⁸ It is notable that no rate schedule applicable to PG&E's non-residential customers employs a minimum bill amount to collect fixed costs. All use monthly fixed fees.

1 rate Schedule E-1 would apply to each and every customer's monthly bill,
2 regardless of the customer's usage. This is appropriate since the fee is
3 collecting a portion of the fixed costs PG&E has incurred for every single
4 customer regardless of usage. In contrast, the minimum bill amount artificially
5 "bumps up" different low usage customers' bills by different amounts. In the
6 example above, a customer with zero usage has its bill increased by \$4.50 for a
7 total bill of \$4.50, while a customer using 10 kWh would have its bill increased
8 by just \$3.18 (to get to the same \$4.50 total bill). Put another way, both
9 customers pay the same total bill of \$4.50 even though the second one
10 (under the minimum bill) should pay more since the customer is getting the
11 benefit of 10 additional kWh.¹⁹

12 As noted earlier, there is a spectrum of cost items from fixed to variable.
13 On the one end, there are items like revenue cycle service costs that are clearly
14 fixed. At the other end are items like as-available energy that are clearly
15 variable. In between are capacity costs (for generation, transmission and
16 distribution) that are demand-related, but in the absence of a demand charge
17 are more fixed than variable. Finally, there are costs like the administrative
18 costs of offering energy efficiency programs to customers that are not driven by
19 kWh usage but have traditionally been collected via a volumetric charge.
20 PG&E believes that many (if not all) of these cost items (e.g., capacity costs,
21 program costs, etc.) would more appropriately be collected with fixed charges
22 than with variable ones. In this proceeding, however, AB 327's \$10 limit on the
23 maximum allowable fixed month charge makes the issue of which costs are
24 fixed somewhat moot. This is because, even if you define fixed costs in the
25 most narrow way, to include just the Equal Percentage of Marginal Cost (EPMC)
26 adjusted residential marginal customer costs, they would exceed \$10. In
27 PG&E's 2014 GRC Phase II proceeding, PG&E recently updated its estimate of
28 the marginal customer cost for the residential class. The EPMC adjusted
29 residential marginal customer cost estimate is \$198.09 per customer-year, or
30 \$16.51 per customer-month.²⁰ So at \$10.00 per month, the fixed monthly fee

¹⁹ These problems with the minimum bill amount do not go away if it is set at a higher level (e.g., at \$10 per month). It still will only apply to a fraction of customers and it still will unfairly charge the same bill to customers with different amounts of low usage.

²⁰ See PG&E's August 16, 2013 update testimony in the 2014 GRC Phase II proceeding.

1 still will not collect all of PG&E's fixed costs to serve residential customers, even
2 with fixed costs defined in the most narrow way.

3 Table 2-3 shows PG&E's proposed levels of monthly service fees for
4 non-CARE and CARE rates schedules over the transition period. Consistent
5 with AB 327, which permits the Commission to approve a monthly fixed fee
6 beginning January 1, 2015, PG&E is proposing to introduce monthly service fees
7 of \$5.00 and \$2.50,²¹ respectively, on its non-CARE and CARE rates beginning
8 in 2015.²² A monthly service fee will begin the process of making PG&E's
9 residential rates more cost-based, by starting to collect at least a portion of
10 PG&E's fixed costs of service through a fixed monthly charge. In 2016, PG&E is
11 proposing to increase these monthly service fees to \$10.00 for non-CARE and
12 \$5.00 for CARE. In 2017 and 2018, the monthly service fees would be adjusted
13 according to the year-over-year change in the California CPI.²³ The levels of
14 these proposed monthly service fees are fully consistent with the limits on fixed
15 charges in AB 327, which allow for levels up to \$10.00, adjusted upward by the
16 CPI (and half those levels for CARE). These charges would, in general, replace
17 today's minimum bill amounts.²⁴

²¹ AB 327, Section 739.9(f) specifies that: "the commission may, beginning January 1, 2015, authorize fixed charges that do not exceed ten dollars (\$10) per residential customer account per month for customers not enrolled in the CARE program and five dollars (\$5) per residential customer account per month for customers enrolled in the CARE program. Beginning in January 2016, the maximum allowable fixed charge may be adjusted by no more than the annual percentage increase in the CPI for the prior calendar year."

²² All residential rate schedules except E-8, which already has a fixed monthly service fee. For multi-family rate schedules, the monthly service fee would be calculated based on the number (and mix, between non-CARE and CARE) dwelling units served by each account.

²³ For the purpose of developing illustrative levels of the monthly service fee in 2017 and 2018, PG&E assumed the CPI increases at 2.1 percent per year, as directed in the February 13, 2014 ACR.

²⁴ However, PG&E proposes that a zero minimum bill would continue to apply on delivery charges on all residential rate schedules to ensure no negative bills (as is currently the case with Schedules E-7, EL-7 and EL-8).

**TABLE 2-3
PACIFIC GAS AND ELECTRIC COMPANY
PROPOSED MONTHLY SERVICE FEES**

Line No.	Rates Schedules	Summer 2014	2015	2016	2017	2018
1	Non-CARE	None	\$5.00	\$10.00	\$10.21	\$10.42
2	CARE	None	\$2.50	\$5.00	\$5.11	\$5.21

1 **Question 12**

2 Should such charges be phased in over time concurrent with other changes
3 proposed herein? If so, on what timetable?

4 **Response to Question 12**

5 Yes, a fixed charge should be phased in. For non-CARE customers, PG&E
6 is proposing to introduce a \$5.00 monthly service fee in 2015, increasing it to
7 \$10.00 in 2016, and thereafter increasing with the CPI (as authorized by
8 AB 327). PG&E is proposing similar monthly service fees for CARE customers,
9 at half the non-CARE levels. These charges would, in general, replace today's
10 minimum bill amount charges. PG&E is not proposing any residential demand
11 charges.

12 **Question 13**

13 For any proposed fixed charges address how your proposed charges satisfy
14 the following criteria contained in AB 327:

- 15 • Reasonably reflect the different costs of serving small and large
16 customers
- 17 • Not unreasonably impair incentives for conservation, customer
18 generation, and energy efficiency
- 19 • Not overburden low-income customers.

20 **Response to Question 13**

21 **a. Costs of Serving Small vs. Large Customers**

22 Because PG&E's fixed costs, even for small customers, exceed the
23 levels of its proposed monthly service fees, and because of the current
24 statutory cap on such fees, PG&E is not proposing to differentiate its

1 proposed fixed monthly service fee by customer size.²⁵ In addition,
2 because higher usage customers will continue to pay tiered rates
3 through 2018 that exceed the average costs of serving those customers,
4 PG&E's overall rate structure will result in some continued cross-
5 subsidies by large customers to small customers even if there were a
6 measurable difference in fixed costs between small and large
7 customers. These subsidies will, however, be significantly reduced
8 during the transition period, as the tiers move closer together and get
9 collapsed to two tiers by 2018.

10 **b. Incentives for Conservation**

11 As PG&E described earlier in this proceeding (in its May 29, 2013
12 Rate Design Reform Proposal), the conventional wisdom is that
13 introducing a fixed monthly charge, by reducing volumetric charges, will
14 result in customers having a reduced incentive to conserve. But this
15 theory assumes that residential customers respond to marginal prices
16 (i.e., the price in the tier in which they are currently consuming) while
17 making consumption decisions. Recent research by Dr. Koichiro Ito,
18 though, has shown this assumption does not seem to hold true in
19 practice.²⁶ Rather, the research strongly suggests that customers
20 respond to average rates rather than marginal rates. The addition of a
21 customer charge will increase the average rate paid by customers in the
22 lower tiers and decrease the average rate in the upper tiers.²⁷ So while

²⁵ By not proposing size-differentiated monthly service fee levels, PG&E is not saying that fixed costs might not differ by customer size. Since it has not evaluated the degree to which differences in fixed costs might be related to different sizes, however, PG&E decided to propose a simple monthly service fee that applies to all customers. PG&E reserves the right, in a future proceeding, to propose differentiated monthly service fees based upon size or other cost-based customer service characteristics.

²⁶ See Koichiro Ito, "Do Consumers Respond to Marginal or Average Price? Evidence from Nonlinear Electricity Pricing" (Revised October 2012), Energy Institute at Haas, http://ei.haas.berkeley.edu/pdf/working_papers/WP210.pdf.

²⁷ The average rate paid by a customer depends upon its usage level. Since PG&E's proposal is to use the additional revenues from the monthly service fee in large part to reduce upper-tier rates, the average rates paid by households consuming in the upper tiers will generally decrease with the introduction of the monthly service fee to help cover fixed costs. However, the average rates paid by households consuming in the lower tiers will increase.

1 upper-tier consuming households will have a reduced incentive to
2 conserve, lower-tier consuming ones will have an increased incentive to
3 do so—and it is an empirical issue which of these effects prevails.
4 Given the preponderance of customers and sales in the lower tiers
5 compared to the upper tiers, the effect of introducing a fixed monthly fee
6 might well be expected to reduce overall residential usage, or at least
7 leave it at about the same level.²⁸

8 **c. Not Overburden Low-Income Customers**

9 PG&E’s proposed monthly service fee is lower for CARE customers
10 than for non-CARE customers, in recognition of the need to consider
11 potential burdens on low income customers. In addition, PG&E’s
12 evaluation of the overall bill impacts of its rate design proposal on CARE
13 customers, including the reduced monthly service fee, indicates that low
14 income customers will not be overburdened by the proposed monthly
15 service fee for CARE customers.

16 **C. CARE, Family Electric Rate Assistance (FERA), and Medical Baseline**
17 **Programs**

18 CARE structural changes will be dealt with in a later phase of this
19 proceeding or in the next CARE and Energy Saving Assistance Program
20 proceeding. Phase 1 of this proceeding will deal with the level of CARE
21 discount. A subsequent phase or separate proceeding will address how that
22 discount should be structured, i.e., using any of the four models identified in the
23 ED Staff Proposal or other approaches.

24 **Question 14**

25 What level of CARE discount are you proposing for the years 2015-2018,
26 and how will your CARE proposal satisfy the following criteria in 2015 and in
27 subsequent years:

²⁸ Under the alternative assumption that customers respond to marginal rates, PG&E has conducted an evaluation of the *entirety* of its rate proposal—including reducing the number of tiers and narrowing tier differentials, and raising CARE rate levels to reduce the CARE discount percentage, in addition to implementing a monthly service fee. These results, which do not try to isolate the effect of the monthly service fee, are presented in Chapter 2, Section H.

- 1 a) The average effective CARE discount shall not be less than 30 percent
2 or more than 35 percent of the revenues that would have been produced
3 for the same billed usage by non-CARE customers.
- 4 b) That low-income ratepayers are not jeopardized or overburdened by
5 monthly energy expenditures, pursuant to subdivision (b) of Section 382.
- 6 c) That the level of the discount for low-income electricity ratepayers
7 correctly reflects the level of need as determined by the needs
8 assessment conducted pursuant to subdivision (d) of Section 382.
- 9 d) If the level of CARE discount is current above 35 percent, the currently
10 effective discount in excess of this amount should be reduced by a
11 reasonable amount on an annual basis.

12 **Response to Question 14**

- 13 a) PG&E proposes to gradually reduce its CARE discount, resulting in
14 approximate CARE discounts of 43 percent in 2015, 39 percent in 2016,
15 36 percent in 2017 and 35 percent in 2018.²⁹
- 16 b) PG&E's average energy burden for low-income customers has been
17 statistically unchanged, when comparing results under the Overall
18 Energy Burden³⁰ methodology between the 2007 and 2013 Low-Income
19 Needs Assessment reports.³¹ Specifically, using the same
20 methodology KEMA Inc., used in its 2007 study on the low-income
21 energy burden in 2003,³² the Evergreen Economics 2013 Report found
22 that the overall energy burden for California's low-income customers
23 was essentially unchanged at 4.1 percent in 2013 compared to
24 4.2 percent in 2003.

²⁹ These figures pertain to the rates based upon the 2.1 percent revenue growth scenario. PG&E reserves the right to make additional proposals for post-2018 adjustments to ensure PG&E's effective CARE discount remains within the 30 percent to 35 percent range required under AB 327.

³⁰ The Overall Energy Burden methodology totals all customer bills and divides that number by total customer income.

³¹ Needs Assessment for the Energy Savings Assistance and the California Alternate Rates for Energy Programs, Volume 2: Detailed Findings, Final Report, p. 5-93. Evergreen Economics, December 16, 2013.

³² Final Report on Phase 2 Low Income Needs Assessment, p. 5-9. KEMA Inc., September 7, 2007.

1 c) Evergreen Economics also calculated the “customer energy burden,”
2 which gives equal weights to each customer’s energy burden by
3 separately dividing each customer’s energy bill by its total income, then
4 taking the average of each customer’s energy burden and accumulating
5 those numbers. This showed the energy burden for PG&E’s low-income
6 customers to be 9.9 percent in 2013 vs. the national average of
7 13.6 percent in 2007, as calculated for the Low-Income Home Energy
8 Assistance Program (LIHEAP.)³³ However, the calculations by both
9 Evergreen Economics and LIHEAP did not specifically take into account
10 any of the other income assistance already received by low-income
11 customers, such as the Earned Income Tax Credit, Supplemental
12 Nutrition Assistance Program (food stamps), Section 8 housing
13 subsidies, school lunch programs, etc.³⁴ When these additional
14 sources of income are taken into account, the effective energy burden
15 for PG&E customers will be less than the 9.9 percent shown here. Even
16 so, PG&E’s customer energy burden remains substantially below the
17 LIHEAP national average taken in the year prior to the onset of the
18 “Great Recession.”

19 PG&E calculated bill-to-income ratios for CARE customers for the rates
20 PG&E proposed for Summer 2014, as well as for where PG&E would be
21 in 2018 if Phase 1 proposals are adopted. Figure 2-5 shows that under
22 PG&E’s proposed Summer 2014 CARE rates, 90 percent of CARE
23 customers will spend less than 6.6 percent of their income on electricity,
24 based on their 2009 income from the RASS. For rates as of 2018, the
25 percentage of income that a CARE customer would spend on electricity
26 would increase to about 8.8 percent under PG&E’s proposal in this
27 proceeding. This 8.8 percent 2018 figure is below the 13.6 percent
28 national average energy burden shown in the Evergreen Economics
29 December 2013 Needs Assessment.

³³ LIHEAP Home Energy Notebook for FY 2007: Executive Summary, p. i.
U.S. Department of Health and Human Services, June 2009.

³⁴ Customers were asked to state their total household income, but were not asked
specifically asked about income or assistance from other programs.

1 However, this analysis holds income constant at 2009 levels while
2 increasing rates each year. In addition, it does not include the impact of
3 two scheduled increases in the California minimum wage currently
4 received by 3 million Californians. The first is a 12.5 percent minimum
5 wage increase—to \$9.00 per hour—scheduled for July 2014. The
6 second is an 11.1 percent increase—to \$10.00 per hour—scheduled for
7 January 2016.³⁵ As a result, the bill-to-income ratio calculated for 2018
8 is overstated.

FIGURE 2-5
PACIFIC GAS AND ELECTRIC COMPANY
BILL TO INCOME RATIO FOR CARE CUSTOMERS(a)
MAY 2014 VS. 2018

(a) Income was held constant at 2009 levels.

³⁵ “California Minimum Wage Increase Signed into Law, Set to Be Nation’s Highest,”
Huffingtonpost.com, September 25, 2013.

1 d) PG&E proposes to gradually reduce its CARE discount, resulting in
2 approximate CARE discounts of 43 percent in 2015, 39 percent in 2016,
3 36 percent in 2017 and 35 percent in 2018.³⁶ This proposal builds on
4 PG&E's RROIR Phase 2 proposal that began the process of complying
5 with AB 327 by gradually transitioning CARE rate discounts to the
6 required range of 30 percent to 35 percent.

7 **Question 15**

8 Describe how you propose to structure and operate the FERA program in
9 each year of your rate design proposal.

10 **Response to Question 15**

11 PG&E's proposal to reduce the number of tiers by combining current Tiers 2
12 and 3 also has implications for customers on the FERA program. On
13 Schedule E-FERA, qualifying customers currently pay the standard rate for
14 usage up to 130 percent of baseline, and also pay the standard rate for usage in
15 excess of 200 percent of baseline. However, FERA customers only have to pay
16 the Tier 2 rate (instead of the Tier 3 rate) for usage between 130 and
17 200 percent of baseline. At current Schedule E-1 rate levels, this represents a
18 discount of about 17 cents per kWh for current Tier 3 usage (a 53 percent
19 discount). This is a rather convoluted way to provide a FERA discount, with
20 usage in the lowest two tiers and in the highest tier charged at the standard rate
21 while usage in a "middle" tier (current Tier 3) receiving a very large
22 17-cent-per-kWh discount.

23 In this Phase 1 rate reform proposal, PG&E proposes to simplify the FERA
24 discount by making it a constant percentage off a FERA customer's bill
25 calculated at standard rates, so that households will receive a discount
26 regardless of the tier in which they are consuming.³⁷ PG&E has calculated that,
27 over the last five years, FERA customers on average have received a discount
28 of 12.5 percent off their bills. PG&E is proposing the FERA discount consist of a
29 simple 12.5 percent discount off a bill calculated at standard rates, starting in

36 PG&E reserves the right to make additional proposals for post-2018 adjustments to ensure PG&E's effective CARE discount remains within the 30 percent to 35 percent range required under AB 327.

37 Under today's rates, households consuming less than 130 percent of baseline receive no discount at all.

1 2015. This simplified proposal would replace today's confusing FERA discount
2 structure and ensure that all FERA customers receive an identical percentage
3 discount regardless of their usage level.

4 **Question 16**

5 Describe how you propose to structure and operate the Medical Baseline
6 program in each year of your rate design proposal.

7 **Response to Question 16**

8 PG&E's proposal to collapse Tiers 2 and 3 into a single Tier 2 (for usage
9 between 100 and 200 percent of baseline) for has implications for Medical
10 Baseline customers. Currently, Medical Baseline customers receive both
11 augmented baseline quantities and a discount on usage in excess of
12 200 percent of baseline. Specifically, they only pay the current Tier 3 rate for
13 their current Tier 4 usage, which represents a four cent per kWh discount.
14 PG&E proposes to continue this 4-cent-per-kWh discount for Medical Baseline
15 customers on usage in excess of 200 percent of baseline under its proposed
16 three-tier structure. So, under PG&E's Phase 1 rate reform proposal, in each
17 year during the transition period, Medical Baseline customers would continue to
18 pay the standard rates for usage up to 200 percent of their adjusted baseline
19 and receive a four cent per kWh discount on the standard rate applicable to
20 usage in excess of 200 percent of their adjusted baseline—just as they do today.

21 **D. Greenhouse Gas (GHG) Costs Embedded in Residential Rates**

22 **Question 17**

23 When do you propose to embed GHG costs in residential rates?

24 **Response to Question 17**

25 PG&E's revenue requirement for GHG costs is currently scheduled to be
26 included in PG&E's residential rates beginning May 1, 2014 in accordance with
27 the Commission's GHG decisions, including D.13-12-041 and the subsequent
28 GHG cost and revenue implementation letter issued by Energy Division on
29 January 28, 2014. PG&E's future GHG forecast revenue requirements will be
30 embedded in its ERRR-forecast application, and will be allocated among all
31 residential electric customers in accordance with PG&E's rate design proposal
32 as approved in this and other rate design proceedings, in the same way all other
33 procurement costs are allocated.

1 **Question 18**

2 Quantify the rate impact of including GHG costs in residential rates.

3 **Response to Question 18**

4 PG&E anticipates that GHG costs will go into residential rates for the first
5 time in May 2014 and will recover all of the forecasted GHG costs for 2014 and
6 half of the costs for 2013. PG&E is currently estimating that this will result in a
7 2.3 cent increase to the non-CARE Tier 3 and 4 rates, with no change to the
8 non-CARE Tier 1 and 2 rates or to the CARE rates in any tier. However, there is
9 an offsetting GHG credit, that similarly is limited to non-CARE Tier 3 and 4 sales
10 that will offset these increases.

11 With rate reform, PG&E anticipates that, starting in 2015, the GHG costs will
12 be shared by all customers on an equal cents per kWh basis (like other
13 generation costs are today), which would reduce their size to about one-fourth of
14 this 2.3 cent level.

15 **Question 19**

16 How would proposed rate design changes affect the IOU's ability to meet or
17 exceed Commission-adopted energy efficiency (EE) and demand response (DR)
18 goals?

19 **Response to Question 19**

20 PG&E's rate design changes will maintain and potentially enhance PG&E's
21 and PG&E customers' ability to meet or exceed EE and DR goals. This is
22 because PG&E's proposed changes will gradually eliminate distortions in today's
23 existing rate design structure, which currently cause many residential customers
24 to pay amounts that are significantly lower than the cost to serve them. Once
25 residential customers are subject to rates that more accurately reflect the cost of
26 serving them on a monthly (as well as on a TOU) basis, communications on EE
27 and DR programs will empower customers to make more informed decisions
28 about their participation and engagement in such programs, and also to more
29 clearly see and correlate the benefits of their actions through their bills.

30 **Question 20**

31 If you are proposing or piloting new EE measures for use of programmable
32 and communicating thermostats (and other similar devices) please describe
33 such efforts and discuss how such EE measures are or should be coordinated
34 with efforts to encourage adoption of TVP rates.

1 **Response to Question 20**

2 PG&E is investigating the opportunity to launch a residential programmable
3 communicating thermostat (i.e., Smart Thermostat) measure—which would
4 initially be used in conjunction with PG&E’s demand response SmartRate
5 program—to help our residential customers better manage their energy use.
6 This product is expected to offer energy efficiency and demand response
7 incentives to eligible customers who purchase a qualified Smart Thermostat that
8 has energy efficiency savings and is compliant with the OpenADR 2.0b industry
9 DR standard. Residential customers would receive an energy efficiency rebate
10 for installation of a qualifying thermostat, and would be eligible for an additional
11 DR incentive if they enroll in SmartRate (PG&E’s residential CPP rate plan), and
12 sign up for AutoDR. This will further encourage adoption of SmartRate—which
13 already has over 118,000 participants, including about 39,000 SmartAC™
14 customers—while also promoting the expected energy efficiency benefits of the
15 Smart Thermostat product.

16 In addition, PG&E’s customer outreach and education for its opt-in TOU
17 rates will coordinate with EE measures by including significant and beneficial
18 information on PG&E EE programs that can help customers save money and
19 energy on TOU rates.

20 **Question 21**

21 Please quantify and discuss the impacts of any rate design changes on
22 customer participation and load impact in EE, DR, and distributed generation
23 (DG) programs (for example estimate the elasticity factor and *Ex-Ante* load
24 impact to answer this question).

25 **Response to Question 21**

26 There are many variables that affect participation in EE, DR, and DG
27 programs, including factors exogenous or unrelated to rate design. Therefore, it
28 is difficult to quantify the expected impacts of PG&E’s proposed rate design on
29 customer participation and load impact of PG&E’s EE, DR and DG programs,
30 including elasticity factors and Ex Ante load impacts. However, because
31 PG&E’s rate reform proposal will provide rates and rate options to customers
32 that are priced closer to cost of service and are easier to understand, PG&E
33 expects that customers will be empowered and motivated to make more
34 frequent and more informed choices on EE, DR, and DG investments.

1 In addition, PG&E will monitor and adjust its EE, DR, and DG programs in
2 response to the rate design changes, as it does with any significant rate
3 changes.

4 **Question 22**

5 How would the proposed rate design changes affect the value of net energy
6 metered facilities for customer generators and the cost borne by
7 non-participants?

8 **Response to Question 22**

9 PG&E's proposed rate design will affect the value of net energy metered
10 (NEM) facilities for each customer generator differently. The impact will depend
11 on what rate option the customer is on currently, how much of their annual
12 usage their installation is designed to offset, and the performance of their
13 system. Some customers will be better off, i.e., the value of their NEM
14 investment will increase. Other customers will see their bills go up as a result of
15 the rate design changes, i.e., the value of their investment will decrease. The
16 average customer payback periods for customers installing new solar NEM
17 facilities will increase slightly, while the costs currently shifted to and borne by
18 non-NEM customers will be reduced. Overall, PG&E expects that the value of
19 NEM facilities to customer generators will continue to sustain the viability of the
20 solar industry, which continues to experience robust growth in response to
21 similar rate design changes. The current NEM structure will be evaluated in a
22 separate CPUC proceeding in accordance with the direction and statutory
23 criteria adopted in AB 327.

24 **Question 23**

25 Please quantify the bill impacts (including the average, median, and range)
26 of any rate design changes on NEM customers.

27 **Response to Question 23**

28 The effects of PG&E's rate proposal on residential NEM customers taking
29 service on will depend upon each customer's specific situation—their rate
30 schedule, baseline quantities and monthly usage levels (and, if on a TOU rate,
31 monthly usage by TOU), and their pattern of monthly exports, if any.
32 NEM customers' bills could increase or decrease depending on their situation.
33 PG&E is in the process of developing the bill impacts for NEM customers on its

1 standard and optional TOU rates and will make those bill impacts available
2 shortly once the work has been completed.

3 **Question 24**

4 How would the proposed rate design changes impact the value of
5 customer-side distributed energy storage systems?

6 **Response to Question 24**

7 Customers install energy storage systems for a variety of reasons including:
8 permanent load shifting, demand charge mitigation, and critical system backup.
9 However, to date, very few residential customers have installed storage
10 systems, and many of those have been installed in conjunction with renewable
11 generation to provide back-up power for critical appliances. There is not enough
12 empirical information at this time regarding residential storage market drivers to
13 determine what impact the existing rate design structure and overall bill savings
14 may have had (if any) on the quantitative and subjective value of the energy
15 storage system for the customer. Also, given that storage output is less than
16 storage input, it is not clear that there would be bill savings for the residential
17 customers even without changes to the current rate design structure. However,
18 by bringing PG&E's residential rates more closely into alignment with the costs
19 of service, PG&E's rate design proposal will provide all customers with more
20 accurate, valuable pricing information on which to base their assessment of the
21 value of customer-side energy storage.

22 **E. Additional Details on TOU Rates, Time Periods and Seasons**

23 **Question 25**

24 For any default and optional TOU rate proposed describe in detail:

- 25 • Peak to off-peak ratios and semi-peak to off-peak ratios by season
- 26 • TOU time periods by season
- 27 • Definition of seasons

28 AB 327 directs the Commission to strive to adopt time periods for TOU rates
29 that are appropriate for at least 5 years.

30 **Response to Question 25**

31 For PG&E's proposed optional TOU rate, the summer peak to off-peak ratio
32 is 1.75 to 1. The winter peak to off-peak ratio is 1.08 to 1.

1 PG&E's proposed voluntary, opt-in, non-tiered TOU rates will include the
 2 following time periods and seasonal differentiations:

Line No.	Time periods	Peak	Off-Peak
1	Summer (May-October)	1:00 p.m. to 7:00 p.m., Monday-Friday (Except Holidays)	All Other Hours
2	Winter (November-April)	5:00 p.m. to 8:00 p.m., Monday-Friday (Except Holidays)	All Other Hours

3 To more easily communicate the need to reduce summer peak usage,
 4 PG&E has proposed that there be just two TOU periods in each season, a peak
 5 period and off-peak period. Consequently, PG&E proposes combining the
 6 summer part-peak and off-peak periods into a single off-peak period that would
 7 reflect the weighted average of the underlying marginal costs for these TOU
 8 periods. Because PG&E has yet to study the most appropriate future TOU
 9 periods for its new E-TOU rate, PG&E proposes, as an interim measure, to use
 10 the same TOU periods as Schedule E-6, except for the summer part-peak and
 11 off-peak periods which would be combined into a single period.

12 PG&E plans to study TOU periods for its entire service territory across all
 13 customer classes during 2014 and will submit a proposal in an upcoming Rate
 14 Design Window Proceeding to request CPUC approval for new TOU periods that
 15 will be appropriate for at least five years.

PACIFIC GAS AND ELECTRIC COMPANY
APPENDIX E
STATEMENTS OF QUALIFICATIONS

1 **PACIFIC GAS AND ELECTRIC COMPANY**
2 **STATEMENT OF QUALIFICATIONS OF DENNIS M. KEANE**

3 Q 1 Please state your name and business address.

4 A 1 My name is Dennis M. Keane, and my business address is Pacific Gas and
5 Electric Company, 77 Beale Street, San Francisco, California.

6 Q 2 Briefly describe your responsibilities at Pacific Gas and Electric Company
7 (PG&E).

8 A 2 I am a senior manager in the Analysis and Rates Department, responsible
9 for preparing and managing the preparation of retail electric rate design
10 proposals for presentation before the California Public Utilities Commission
11 (CPUC or Commission).

12 Q 3 Please summarize your educational and professional background.

13 A 3 I received a bachelor of arts degree in economics (with honors) in 1974 from
14 the University of California at Berkeley, and a Ph.D. degree in economics in
15 1980 from the University of Wisconsin, Madison.

16 From 1978-1980, I taught in the Economics Department at the
17 University of Southern California. In 1980, I joined PG&E as a load research
18 analyst, responsible for preparing PG&E's class load research reports and
19 designing samples for load profile metering projects. In 1982, I was
20 promoted to coordinator of load research projects, where I managed a
21 number of large-scale load profile metering projects. In 1984, I was
22 promoted to supervisor of load management analysis and operations,
23 responsible for scheduling experimental operations of PG&E's dispatchable
24 load management programs, as well as estimating their load impacts.
25 In 1988, I became the supervisor of commercial/industrial electric rate
26 design. In 1991, I accepted a position in the Market Planning and Research
27 Department, where I managed a number of projects designed to evaluate
28 the effectiveness and economics of distributed generation and targeted
29 demand-side management programs designed to alleviate peaking
30 problems on the local distribution system. I left PG&E in 1993 for a position
31 at the consulting firm Freeman, Sullivan & Company, where I directed the
32 firm's electric utility practice. I returned to PG&E in 1996 as a senior analyst
33 in the Service Analysis Department, and, in 2000, was promoted to a

1 manager position in that department. From July 2008 through
2 February 2009, I worked as a principal in the Market Design and Analysis
3 Department, responsible for estimating avoided costs and evaluating
4 demand response cost-effectiveness. In March 2009, I took the position of
5 manager of electric rates in the Analysis and Rates Department. I was
6 promoted to my current, senior manager position in April 2011.

7 I have previously appeared before the Commission, sponsoring
8 testimony on electric rate design, revenue forecasting, flexible rate options,
9 customer retention and economic development, the applicability of
10 non-bypassable charges to direct access and departing load customers, and
11 the cost-effectiveness of PG&E's demand response programs.

12 Q 4 What is the purpose of your testimony?

13 A 4 I am sponsoring the following testimony and workpapers in PG&E's
14 Long-Term Residential Electric Rate Design Reform Proposal-Prepared
15 Testimony:

- 16 • Chapter 1, "Long-Term Rate Design Reform Policy."
- 17 • Chapter 2, "Long-Term Residential Rate Design":
 - 18 – Section A, "Introduction."
 - 19 – Section B, "Monthly Service Fees."
 - 20 – Section C, "Changes to Tiered Rate Structures."
 - 21 – Section D, "Standard Non-CARE Rates."
 - 22 – Section H, "Impacts of Proposals on Conservation."
 - 23 – Section I, "Rate Changes Between Cases."

24 Q 5 Does this conclude your statement of qualifications?

25 A 5 Yes, it does.

1 **PACIFIC GAS AND ELECTRIC COMPANY**
2 **STATEMENT OF QUALIFICATIONS OF PHILIP J. QUADRINI**

3 Q 1 Please state your name and business address.

4 A 1 My name is Philip J. Quadrini, and my business address is Pacific Gas and
5 Electric Company, 77 Beale Street, San Francisco, California.

6 Q 2 Briefly describe your responsibilities at Pacific Gas and Electric Company
7 (PG&E).

8 A 2 I am a senior regulatory analyst in the Electric Rates section of the Rates
9 Department.

10 Q 3 Please summarize your educational and professional background.

11 A 3 I graduated with a bachelor of arts degree in economics in 1976 from the
12 University of Notre Dame, in Indiana. After earning a master of business
13 administration degree from the University of California, Berkeley, in 1980,
14 I joined the PG&E's Energy Conservation & Services Department, and
15 served as an analyst and project manager in various conservation
16 programs. I joined PG&E's Rates Department in 1988 as a project manager
17 for both the Commercial Time-of-Use program and Small Commercial
18 Industrial Project. From 1990-1993, I worked as the rates analyst for the
19 Small Light & Power class and was the Small Light & Power and Economic
20 Development rate design witness in PG&E's 1993 General Rate Case
21 (GRC) Phase II proceeding. In 1994, I became the rates analyst for the
22 Residential class, and was promoted to senior rates analyst in 1995. I
23 served as the rate design and revenue allocation witness for PG&E's 1994
24 Low Emission Vehicle proceeding; the residential rate design witness in
25 PG&E's 1996, 2003, 2007 and 2011 GRC Phase II proceedings; the rate
26 design witness in the 1998 Revenue Adjustment proceeding; the rate
27 design/revenue allocation witness in the 2007 Nuclear Decommissioning
28 proceeding; the residential rate design witness in PG&E's 2012 Rate Design
29 Window proceeding; the Small Light & Power witness in PG&E's 2007, 2011
30 and 2014 GRC Phase II proceedings; and a residential rate design witness
31 in the Summer 2014 Electric Rate Reform proceeding.

1 Q 4 What is the purpose of your testimony?

2 A 4 I am sponsoring the following testimony and workpapers in PG&E's

3 Long-Term Residential Electric Rate Design Reform Proposal-Prepared

4 Testimony:

5 • Chapter 2, "Long-Term Residential Rate Design":

6 – Section E, "Standard CARE Rates."

7 – Section F, "Optional Tiered Schedules."

8 – Section G, "Non-Tiered TOU Rate Design" (Part 1, "Rate Proposal"
9 and Part 2, "TOU Periods").

10 Q 5 Does this conclude your statement of qualifications?

11 A 5 Yes, it does.

1 **PACIFIC GAS AND ELECTRIC COMPANY**
2 **STATEMENT OF QUALIFICATIONS OF KAREN J. ZELMAR**

3 Q 1 Please state your name and business address.

4 A 1 My name is Karen J. Zelmar, and my business address is Pacific Gas and
5 Electric Company, 245 Market Street, San Francisco, California.

6 Q 2 Briefly describe your responsibilities at Pacific Gas and Electric Company
7 (PG&E).

8 A 2 As Director of Energy Efficiency Programs, I am responsible for delivering
9 against energy savings goals for all of our Residential, Commercial,
10 Industrial, Agricultural, Third Party and Government Partnership programs
11 through effective program delivery, channel engagement and strategies for
12 customer segmentation.

13 Q 3 Please summarize your educational and professional background.

14 A 3 I received a bachelor of arts degree in economics from Northwestern
15 University in 1993. Upon graduation, I worked as a systems integration
16 analyst and manager for Price Waterhouse Consulting (now owned by IBM.)
17 From 1997-1999, I attended University of California at Berkeley, and
18 graduated from the Haas School of Business with a master's degree in
19 business administration in spring 1999. I joined Netscape Communications
20 as a product manager in Online Shopping Services. America Online (AOL)
21 acquired Netscape Communications in 1999, and I worked for AOL first in
22 San Francisco, California, in the online media division, then as a director of
23 product management for AOL Europe in London, United Kingdom and finally
24 in Dulles, Virginia, as Vice President of Operations and Program
25 Management. In 2007, I joined NAVTEQ as Vice President, Map Network,
26 managing the strategic direction, planning and business operations for
27 online acquisition. In 2008, I joined SunPower Corporation as an
28 independent consultant in marketing, focusing on their commercial business
29 lead generation.

30 In 2010, I joined PG&E in the Customer Care Division. The Customer
31 Energy Solutions group is responsible for designing, implementing and
32 administering customer demand side management programs, including
33 energy efficiency, distributed generation, demand response, and rate

1 programs that help PG&E customers in northern and central California
2 manage the energy use of their homes and businesses, which also results in
3 positive environmental impacts and cost savings. My first role was in
4 Product Lifecycle Development, and I was subsequently promoted to
5 director, Pricing Products, in October 2010. As Director of Pricing Products,
6 I was responsible for defining and implementing how customers experience
7 our pricing programs (such as Dynamic Pricing, CARE and also our
8 standard rate plan offerings) as well as other Advanced Metering
9 Infrastructure-enabled pricing services. In February 2014, I took the position
10 of Director of Energy Efficiency Programs.

11 Q 4 What is the purpose of your testimony?

12 A 4 I am sponsoring the following testimony in PG&E's Long-Term Residential
13 Electric Rate Design Reform Proposal-Prepared Testimony:

- 14 • Chapter 2, "Long-Term Residential Rate Design":
 - 15 – Section G, "Non-Tiered TOU Rate Design" (Part 3, "Building TOU
16 Participation Through Customer Choice," Part 4, "An Initial
17 Evaluation of Large-Scale Residential TOU Programs Indicates That
18 a Pilot Program for PG&E's Customers is Warranted" and Part 5,
19 "TOU Pilot Proposal").
 - 20 – Section J, "Customer Education and Outreach."

21 Q 5 Does this conclude your statement of qualifications?

22 A 5 Yes, it does.