

**SOUTHERN CALIFORNIA GAS COMPANY  
2020 TCAP**

**CARE Bill Impact Calculations**

**Workpapers to the Prepared Written **Rebuttal** Testimony  
of **Michael Foster****

**Errata (Redlined) - September 8, 2023**



TCAP CARE Bill Impact Graph Data

**50% vol and customer count**

Usage	\$15 Cust		CARE Discount - Cust Charge		15		20	
	\$5 Cust Charge	Charge	\$5 Cust Charge	Charge	\$5 Cust Charge	Charge	\$5 Cust Charge	Charge
January	5.10		(11.67)		(11.06)		(11.15)	
February	4.54		(10.45)		(9.92)		(10.00)	
March	5.95		(1.79)		(1.35)		(1.43)	
April	6.89		(1.37)		0.53		(1.18)	
May	7.65		4.44		4.63		4.59	
June	7.32		4.13		4.31		4.27	
July	8.07		4.53		4.68		4.64	
August	8.50		4.55		5.10		4.65	
September	7.74		4.21		4.77		4.32	
October	8.07		4.53		4.67		4.63	
November	7.32		(1.28)		2.23		0.26	
December	7.22		(11.15)		(0.84)		(4.15)	
Average	7.03		(0.94)		0.65		(0.05)	

Bill Impacts Lowest 10 Percentile

CARE	revmo	Customers	Average Therms	Avg Baseline Therms	Avg Non Baseline Therms	High (90th Percentile		Low (10th Percentile)		Total Bill Status Quo	Total Bill		Care (T/F)	Daily BL Limit	Days/Mo nth	Monthly BL Limit	Bill 1	Bill 1	Bill 2	Bill 2
						Therms	Median Therms	Therms	Therms		\$20 Cust Charge	Delta					Care Discount	Discount - Customer	Care Discount	Discount - Customer
No	1	1,750,275	65	41	23	123	55	12	20.44	25.54	5.10	FALSE	1.600	31	50	20%	20%	20%	50%	
No	2	1,762,765	58	38	20	109	49	11	18.67	23.20	4.54	FALSE	1.600	28	45	20%	20%	20%	50%	
No	3	1,770,705	46	35	11	86	37	10	17.88	23.83	5.95	FALSE	0.874	31	27	20%	20%	20%	50%	
No	4	1,782,822	28	24	4	49	22	7	13.88	20.77	6.89	FALSE	0.874	30	26	20%	20%	20%	50%	
No	5	1,800,018	23	19	5	40	18	6	12.77	20.41	7.65	FALSE	0.424	31	13	20%	20%	20%	50%	
No	6	1,803,972	22	12	10	38	17	6	12.60	19.92	7.32	FALSE	0.424	30	13	20%	20%	20%	50%	
No	7	1,813,785	18	11	6	30	13	5	11.49	19.56	8.07	FALSE	0.424	31	13	20%	20%	20%	50%	
No	8	1,821,982	16	11	5	27	12	4	10.21	18.70	8.50	FALSE	0.424	31	13	20%	20%	20%	50%	
No	9	1,830,888	16	11	5	28	12	5	11.32	19.07	7.74	FALSE	0.424	30	13	20%	20%	20%	50%	
No	10	1,824,865	18	11	7	30	14	5	11.49	19.56	8.07	FALSE	0.424	31	13	20%	20%	20%	50%	
No	11	1,804,430	23	18	5	39	18	6	12.60	19.92	7.32	FALSE	0.874	30	26	20%	20%	20%	50%	
No	12	1,791,172	34	28	6	65	26	7	14.04	21.27	7.22	FALSE	1.600	31	50	20%	20%	20%	50%	

Monthly Therms	Baseline Usage	Non BL Usage	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
				0.164383562	0.79239056	1.218341131		0.078365633	0.00577	0.022411264		0.493150685	0.37238413	1.213565319		0.073254775	0.00577	0.022411264
12	12	0	20.44	5.09589	9.50869	-	4.82256	0.94039	0.06924	-	25.54	15.28767	4.46861	-	4.83402	0.87906	0.06924	-
11	11	0	18.67	4.60274	8.71630	-	4.42068	0.86202	0.06347	-	23.20	13.80822	4.09623	-	4.43118	0.80580	0.06347	-
10	10	0	17.88	5.09589	7.92391	-	4.01880	0.78366	0.05770	-	23.83	15.28767	3.72384	-	4.02835	0.73255	0.05770	-
7	7	0	13.88	4.93151	5.54673	-	2.81316	0.54856	0.04039	-	20.77	14.79452	2.60669	-	2.81984	0.51278	0.04039	-
6	6	0	12.77	5.09589	4.75434	-	2.41128	0.47019	0.03462	-	20.41	15.28767	2.23430	-	2.41701	0.43953	0.03462	-
6	6	0	12.60	4.93151	4.75434	-	2.41128	0.47019	0.03462	-	19.92	14.79452	2.23430	-	2.41701	0.43953	0.03462	-
5	5	0	11.49	5.09589	3.96195	-	2.00940	0.39183	0.02885	-	19.56	15.28767	1.86192	-	2.01417	0.36627	0.02885	-
4	4	0	10.21	5.09589	3.16956	-	1.60752	0.31346	0.02308	-	18.70	15.28767	1.48954	-	1.61134	0.29302	0.02308	-
5	5	0	11.32	4.93151	3.96195	-	2.00940	0.39183	0.02885	-	19.07	14.79452	1.86192	-	2.01417	0.36627	0.02885	-
5	5	0	11.49	5.09589	3.96195	-	2.00940	0.39183	0.02885	-	19.56	15.28767	1.86192	-	2.01417	0.36627	0.02885	-
6	6	0	12.60	4.93151	4.75434	-	2.41128	0.47019	0.03462	-	19.92	14.79452	2.23430	-	2.41701	0.43953	0.03462	-
7	7	0	14.04	5.09589	5.54673	-	2.81316	0.54856	0.04039	-	21.27	15.28767	2.60669	-	2.81984	0.51278	0.04039	-

Bill Impacts Average

CARE	revmo	Customers	Average	Avg Baseli	High (90th			Median	Low (10th		Total Bill	Total Bill		Care (T/F)	Daily BL	Days/Mo	Monthly	Care	Bill 1	Bill 1	Bill 2	Bill 2	Monthly	Baseline
					Therms	Therms	Therms		Percentile	Therms		Percentile	Therms						Therms	Discount -	Care	Discount -		
No	1	1,750,275	65	41	23	123	55	12	93.81	82.66	(11.15)	FALSE	1.600	31	50	20%	20%	20%	50%	65	50			
No	2	1,762,765	58	38	20	109	49	11	83.82	73.82	(10.00)	FALSE	1.600	28	45	20%	20%	20%	50%	58	45			
No	3	1,770,705	46	35	11	86	37	10	71.67	70.24	(1.43)	FALSE	0.874	31	27	20%	20%	20%	50%	46	27			
No	4	1,782,822	28	24	4	49	22	7	41.05	39.87	(1.18)	FALSE	0.874	30	26	20%	20%	20%	50%	28	26			
No	5	1,800,018	23	19	5	40	18	6	39.26	43.84	4.59	FALSE	0.424	31	13	20%	20%	20%	50%	23	13			
No	6	1,803,972	22	12	10	38	17	6	37.24	41.51	4.27	FALSE	0.424	30	13	20%	20%	20%	50%	22	13			
No	7	1,813,785	18	11	6	30	13	5	29.47	34.10	4.64	FALSE	0.424	31	13	20%	20%	20%	50%	18	13			
No	8	1,821,982	16	11	5	27	12	4	26.05	30.70	4.65	FALSE	0.424	31	13	20%	20%	20%	50%	16	13			
No	9	1,830,888	16	11	5	28	12	5	26.88	31.20	4.32	FALSE	0.424	30	13	20%	20%	20%	50%	16	13			
No	10	1,824,865	18	11	7	30	14	5	29.86	34.50	4.63	FALSE	0.424	31	13	20%	20%	20%	50%	18	13			
No	11	1,804,430	23	18	5	39	18	6	33.87	34.13	0.26	FALSE	0.874	30	26	20%	20%	20%	50%	23	23			
No	12	1,791,172	34	28	6	65	26	7	48.33	44.18	(4.15)	FALSE	1.600	31	50	20%	20%	20%	50%	34	34			

Non BL  
Usage

	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
		0.164383562	0.79239056	1.21834113		0.078365633	0.00577	0.022411264		0.493150685	0.3723841	1.21356532		0.073254775	0.00577	0.022411264
15	93.81	5.09589	39.61953	17.72053	25.93927	5.05809	0.37242	-	82.66	15.28767	18.61921	17.65106	26.00088	4.72821	0.37242	-
13	83.82	4.60274	35.65758	15.50363	23.19861	4.52367	0.33307	-	73.82	13.80822	16.75729	15.44286	23.25371	4.22865	0.33307	-
19	71.67	5.09589	21.39455	22.91383	18.40908	3.58973	0.26431	-	70.24	15.28767	10.05437	22.82401	18.45281	3.35561	0.26431	-
2	41.05	4.93151	20.60215	2.05644	11.12722	2.16978	0.15976	-	39.87	14.79452	9.68199	2.04838	11.15364	2.02827	0.15976	-
10	39.26	5.09589	10.30108	12.53978	9.36079	1.82533	0.13440	-	43.84	15.28767	4.84099	12.49062	9.38302	1.70629	0.13440	-
9	37.24	4.93151	10.30108	11.21617	8.92419	1.74020	0.12813	-	41.51	14.79452	4.84099	11.17220	8.94539	1.62670	0.12813	-
5	29.47	5.09589	10.30108	5.54089	7.05215	1.37515	0.10125	-	34.10	15.28767	4.84099	5.51917	7.06890	1.28547	0.10125	-
3	26.05	5.09589	10.30108	3.09849	6.24650	1.21805	0.08968	-	30.70	15.28767	4.84099	3.08634	6.26134	1.13861	0.08968	-
3	26.88	4.93151	10.30108	3.81195	6.48184	1.26394	0.09306	-	31.20	14.79452	4.84099	3.79700	6.49724	1.18151	0.09306	-
5	29.86	5.09589	10.30108	5.82318	7.14527	1.39331	0.10259	-	34.50	15.28767	4.84099	5.80036	7.16224	1.30244	0.10259	-
0	33.87	4.93151	17.93774	-	9.09756	1.77400	0.13062	-	34.13	14.79452	8.42985	-	9.11917	1.65830	0.13062	-
0	48.33	5.09589	26.80023	-	13.59239	2.65048	0.19515	-	44.18	15.28767	12.59478	-	13.62467	2.47762	0.19515	-

Bill Impacts Median

CARE	revmo	Customers	Average	Avg Baseli	High (90th		Median	Low (10th		Total Bill	Total Bill		Care (T/F)	Daily BL	Days/Mo	Monthly	Care	Bill 1	Bill 1	Bill 2	Bill 2	Monthly	Baseline
					Therms	Therms		Therms	Therms		Therms	Therms						Therms	Therms	Discount -	Discount -		
No	1	1,750,275	65	41	23	123	55	12	77.54	66.48	(11.06)	FALSE	1.600	31	50	20%	20%	20%	50%	55	50		
No	2	1,762,765	58	38	20	109	49	11	68.95	59.03	(9.92)	FALSE	1.600	28	45	20%	20%	20%	50%	49	45		
No	3	1,770,705	46	35	11	86	37	10	56.66	55.31	(1.35)	FALSE	0.874	31	27	20%	20%	20%	50%	37	27		
No	4	1,782,822	28	24	4	49	22	7	33.06	33.59	0.53	FALSE	0.874	30	26	20%	20%	20%	50%	22	22		
No	5	1,800,018	23	19	5	40	18	6	30.24	34.87	4.63	FALSE	0.424	31	13	20%	20%	20%	50%	18	13		
No	6	1,803,972	22	12	10	38	17	6	28.37	32.68	4.31	FALSE	0.424	30	13	20%	20%	20%	50%	17	13		
No	7	1,813,785	18	11	6	30	13	5	21.72	26.39	4.68	FALSE	0.424	31	13	20%	20%	20%	50%	13	13		
No	8	1,821,982	16	11	5	27	12	4	20.44	25.54	5.10	FALSE	0.424	31	13	20%	20%	20%	50%	12	12		
No	9	1,830,888	16	11	5	28	12	5	20.27	25.05	4.77	FALSE	0.424	30	13	20%	20%	20%	50%	12	12		
No	10	1,824,865	18	11	7	30	14	5	23.42	28.09	4.67	FALSE	0.424	31	13	20%	20%	20%	50%	14	13		
No	11	1,804,430	23	18	5	39	18	6	27.94	30.17	2.23	FALSE	0.874	30	26	20%	20%	20%	50%	18	18		
No	12	1,791,172	34	28	6	65	26	7	38.33	37.50	(0.84)	FALSE	1.600	31	50	20%	20%	20%	50%	26	26		



Non BL  
Usage

	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
		0.164383562	0.79239056	1.21834113		0.078365633	0.00577	0.022411264		0.493150685	0.3723841	1.21356532		0.073254775	0.00577	0.022411264
5	77.54	5.09589	39.61953	6.09171	22.10340	4.31011	0.31735	-	66.48	15.28767	18.61921	6.06783	22.15590	4.02901	0.31735	-
4	68.95	4.60274	35.65758	4.87336	19.69212	3.83992	0.28273	-	59.03	13.80822	16.75729	4.85426	19.73890	3.58948	0.28273	-
10	56.66	5.09589	21.39455	12.18341	14.86956	2.89953	0.21349	-	55.31	15.28767	10.05437	12.13565	14.90488	2.71043	0.21349	-
0	33.06	4.93151	17.43259	-	8.84136	1.72404	0.12694	-	33.59	14.79452	8.19245	-	8.86236	1.61161	0.12694	-
5	30.24	5.09589	10.30108	6.09171	7.23384	1.41058	0.10386	-	34.87	15.28767	4.84099	6.06783	7.25102	1.31859	0.10386	-
4	28.37	4.93151	10.30108	4.87336	6.83196	1.33222	0.09809	-	32.68	14.79452	4.84099	4.85426	6.84819	1.24533	0.09809	-
0	21.72	5.09589	10.30108	-	5.22444	1.01875	0.07501	-	26.39	15.28767	4.84099	-	5.23685	0.95231	0.07501	-
0	20.44	5.09589	9.50869	-	4.82256	0.94039	0.06924	-	25.54	15.28767	4.46861	-	4.83402	0.87906	0.06924	-
0	20.27	4.93151	9.50869	-	4.82256	0.94039	0.06924	-	25.05	14.79452	4.46861	-	4.83402	0.87906	0.06924	-
1	23.42	5.09589	10.30108	1.21834	5.62632	1.09712	0.08078	-	28.09	15.28767	4.84099	1.21357	5.63968	1.02557	0.08078	-
0	27.94	4.93151	14.26303	-	7.23384	1.41058	0.10386	-	30.17	14.79452	6.70291	-	7.25102	1.31859	0.10386	-
0	38.33	5.09589	20.60215	-	10.44888	2.03751	0.15002	-	37.50	15.28767	9.68199	-	10.47370	1.90462	0.15002	-

Bill Impacts Median

CARE	revmo	Customers	Average	Avg Baseli	High (90th			Median	Low (10th		Total Bill	Total Bill		Care (T/F)	Daily BL	Days/Mo	Monthly	Care	Bill 1	Bill 1	Bill 2	Bill 2	Monthly	Baseline
					Percentile	Percentile	Percentile		Status Quo	\$10 Cust		Delta	Discount -						Care	Discount -	Therms	Usage		
			Therms	Therms	Therms	Therms	Therms	Therms	Therms					Limit	nth	BL Limit	Discount	Customer	Care	Customer	Customer			
No	1	1,750,275	65	41	23	123	55		12	69.02	58.00	(11.02)	FALSE	1.600	31	50	20%	20%	20%	50%	50	50		
No	2	1,762,765	58	38	20	109	49		11	62.13	52.25	(9.88)	FALSE	1.600	28	45	20%	20%	20%	50%	45	45		
No	3	1,770,705	46	35	11	86	37		10	39.61	38.35	(1.26)	FALSE	0.874	31	27	20%	20%	20%	50%	27	27		
No	4	1,782,822	28	24	4	49	22		7	38.17	37.00	(1.17)	FALSE	0.874	30	26	20%	20%	20%	50%	26	26		
No	5	1,800,018	23	19	5	40	18		6	21.72	26.39	4.68	FALSE	0.424	31	13	20%	20%	20%	50%	13	13		
No	6	1,803,972	22	12	10	38	17		6	21.55	25.90	4.35	FALSE	0.424	30	13	20%	20%	20%	50%	13	13		
No	7	1,813,785	18	11	6	30	13		5	21.72	26.39	4.68	FALSE	0.424	31	13	20%	20%	20%	50%	13	13		
No	8	1,821,982	16	11	5	27	12		4	21.72	26.39	4.68	FALSE	0.424	31	13	20%	20%	20%	50%	13	13		
No	9	1,830,888	16	11	5	28	12		5	21.55	25.90	4.35	FALSE	0.424	30	13	20%	20%	20%	50%	13	13		
No	10	1,824,865	18	11	7	30	14		5	21.72	26.39	4.68	FALSE	0.424	31	13	20%	20%	20%	50%	13	13		
No	11	1,804,430	23	18	5	39	18		6	38.17	37.00	(1.17)	FALSE	0.874	30	26	20%	20%	20%	50%	26	26		
No	12	1,791,172	34	28	6	65	26		7	69.02	58.00	(11.02)	FALSE	1.600	31	50	20%	20%	20%	50%	50	50		

Non BL  
Usage

	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
		0.164383562	0.79239056	1.21834113		0.078365633	0.00577	0.022411264		0.493150685	0.3723841	1.21356532		0.073254775	0.00577	0.022411264
0	69.02	5.09589	39.61953	-	20.09400	3.91828	0.28850	-	58.00	15.28767	18.61921	-	20.14173	3.66274	0.28850	-
0	62.13	4.60274	35.65758	-	18.08460	3.52645	0.25965	-	52.25	13.80822	16.75729	-	18.12756	3.29646	0.25965	-
0	39.61	5.09589	21.39455	-	10.85076	2.11587	0.15579	-	38.35	15.28767	10.05437	-	10.87653	1.97788	0.15579	-
0	38.17	4.93151	20.60215	-	10.44888	2.03751	0.15002	-	37.00	14.79452	9.68199	-	10.47370	1.90462	0.15002	-
0	21.72	5.09589	10.30108	-	5.22444	1.01875	0.07501	-	26.39	15.28767	4.84099	-	5.23685	0.95231	0.07501	-
0	21.55	4.93151	10.30108	-	5.22444	1.01875	0.07501	-	25.90	14.79452	4.84099	-	5.23685	0.95231	0.07501	-
0	21.72	5.09589	10.30108	-	5.22444	1.01875	0.07501	-	26.39	15.28767	4.84099	-	5.23685	0.95231	0.07501	-
0	21.72	5.09589	10.30108	-	5.22444	1.01875	0.07501	-	26.39	15.28767	4.84099	-	5.23685	0.95231	0.07501	-
0	21.55	4.93151	10.30108	-	5.22444	1.01875	0.07501	-	25.90	14.79452	4.84099	-	5.23685	0.95231	0.07501	-
0	21.72	5.09589	10.30108	-	5.22444	1.01875	0.07501	-	26.39	15.28767	4.84099	-	5.23685	0.95231	0.07501	-
0	38.17	4.93151	20.60215	-	10.44888	2.03751	0.15002	-	37.00	14.79452	9.68199	-	10.47370	1.90462	0.15002	-
0	69.02	5.09589	39.61953	-	20.09400	3.91828	0.28850	-	58.00	15.28767	18.61921	-	20.14173	3.66274	0.28850	-

Bill Impacts Average

CARE	revmo	Customers	Average	Avg Baseli	High (90th			Median	Low (10th		Total Bill	Total Bill		Care (T/F)	Daily BL	Days/Mo	Monthly	Care	Bill 1	Bill 1	Bill 2	Bill 2	Monthly	Baseline
					Therms	Therms	Therms		Percentile	Therms		Percentile)	Therms						Therms	Discount -	Care	Discount -		
No	1	1,750,275	65	41	23	123	55	12	193.43	181.77	(11.67)	FALSE	1.600	31	50	20%	20%	20%	50%	123	50			
No	2	1,762,765	58	38	20	109	49	11	171.21	160.76	(10.45)	FALSE	1.600	28	45	20%	20%	20%	50%	109	45			
No	3	1,770,705	46	35	11	86	37	10	140.17	138.38	(1.79)	FALSE	0.874	31	27	20%	20%	20%	50%	86	27			
No	4	1,782,822	28	24	4	49	22	7	77.37	76.00	(1.37)	FALSE	0.874	30	26	20%	20%	20%	50%	49	26			
No	5	1,800,018	23	19	5	40	18	6	67.73	72.17	4.44	FALSE	0.424	31	13	20%	20%	20%	50%	40	13			
No	6	1,803,972	22	12	10	38	17	6	64.16	68.29	4.13	FALSE	0.424	30	13	20%	20%	20%	50%	38	13			
No	7	1,813,785	18	11	6	30	13	5	50.69	55.22	4.53	FALSE	0.424	31	13	20%	20%	20%	50%	30	13			
No	8	1,821,982	16	11	5	27	12	4	45.58	50.13	4.55	FALSE	0.424	31	13	20%	20%	20%	50%	27	13			
No	9	1,830,888	16	11	5	28	12	5	47.12	51.33	4.21	FALSE	0.424	30	13	20%	20%	20%	50%	28	13			
No	10	1,824,865	18	11	7	30	14	5	50.69	55.22	4.53	FALSE	0.424	31	13	20%	20%	20%	50%	30	13			
No	11	1,804,430	23	18	5	39	18	6	60.33	59.05	(1.28)	FALSE	0.874	30	26	20%	20%	20%	50%	39	26			
No	12	1,791,172	34	28	6	65	26	7	94.58	83.43	(11.15)	FALSE	1.600	31	50	20%	20%	20%	50%	65	50			

Non BL  
Usage

	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
		0.164383562	0.79239056	1.21834113		0.078365633	0.00577	0.022411264		0.493150685	0.3723841	1.21356532		0.073254775	0.00577	0.022411264
73	193.43	5.09589	39.61953	88.93890	49.43125	9.63897	0.70971	-	181.77	15.28767	18.61921	88.59027	49.54866	9.01034	0.70971	-
64	171.21	4.60274	35.65758	77.97383	43.80493	8.54185	0.62893	-	160.76	13.80822	16.75729	77.66818	43.90897	7.98477	0.62893	-
59	140.17	5.09589	21.39455	71.88213	34.56169	6.73944	0.49622	-	138.38	15.28767	10.05437	71.60035	34.64378	6.29991	0.49622	-
23	77.37	4.93151	20.60215	28.02185	19.69212	3.83992	0.28273	-	76.00	14.79452	9.68199	27.91200	19.73890	3.58948	0.28273	-
27	67.73	5.09589	10.30108	32.89521	16.07520	3.13463	0.23080	-	72.17	15.28767	4.84099	32.76626	16.11338	2.93019	0.23080	-
25	64.16	4.93151	10.30108	30.45853	15.27144	2.97789	0.21926	-	68.29	14.79452	4.84099	30.33913	15.30771	2.78368	0.21926	-
17	50.69	5.09589	10.30108	20.71180	12.05640	2.35097	0.17310	-	55.22	15.28767	4.84099	20.63061	12.08504	2.19764	0.17310	-
14	45.58	5.09589	10.30108	17.05678	10.85076	2.11587	0.15579	-	50.13	15.28767	4.84099	16.98991	10.87653	1.97788	0.15579	-
15	47.12	4.93151	10.30108	18.27512	11.25264	2.19424	0.16156	-	51.33	14.79452	4.84099	18.20348	11.27937	2.05113	0.16156	-
17	50.69	5.09589	10.30108	20.71180	12.05640	2.35097	0.17310	-	55.22	15.28767	4.84099	20.63061	12.08504	2.19764	0.17310	-
13	60.33	4.93151	20.60215	15.83843	15.67332	3.05626	0.22503	-	59.05	14.79452	9.68199	15.77635	15.71055	2.85694	0.22503	-
15	94.58	5.09589	39.61953	18.27512	26.12220	5.09377	0.37505	-	83.43	15.28767	18.61921	18.20348	26.18425	4.76156	0.37505	-

### SoCalGas Residential Bill Impact

Customer Charge                                   \$     5   \$     15

  \$5 Cust   \$15 Cust  
  Charge     Charge

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**INPUT:**

Customer Charge \$/day =	\$0.16438	\$0.49315
BL Rate \$/th =	\$0.79239	\$0.37238
NBL Rate \$/th =	\$1.21834	\$1.21357
PPPS Non-CARE \$/th =	\$0.07837	\$0.07325
G-SRF \$/th =	\$0.00577	\$0.00577
PPPS CARE \$/th =	\$0.02241	\$0.02241

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**SOUTHERN CALIFORNIA GAS COMPANY  
2020 TCAP**

**CARE Bill Impact Calculations**

**Workpapers to the Prepared Written Testimony of  
Michael Foster**





TCAP CARE Bill Impact Graph Data

50% vol and customer count

Usage

CARE Discount - Cust Charge

CARE Discount

15

20

20%

50%

20%

20%

	\$20 Cust		\$20 Cust		\$20 Cust		\$20 Cust	
	\$5 Cust Charge	Charge	\$5 Cust Charge	Charge	\$5 Cust Charge	Charge	\$5 Cust Charge	Charge
January	7.55		(17.99)		(17.01)		(17.14)	
February	6.72		(16.11)		(15.25)		(15.38)	
March	8.84		(2.96)		(2.26)		(2.38)	
April	10.28		(2.29)		0.62		(1.99)	
May	11.42		6.52		6.84		6.76	
June	10.93		6.06		6.36		6.28	
July	12.07		6.66		6.91		6.84	
August	12.71		6.71		7.55		6.87	
September	11.57		6.20		7.06		6.37	
October	12.07		6.66		6.90		6.84	
November	10.93		(2.15)		3.19		0.21	
December	10.78		(17.15)		(1.47)		(6.51)	
Average	10.49		(1.65)		0.79		(0.27)	

Bill Impacts Lowest 10 Percentile

CARE	revmo	Customers	Average Therms	Avg Baseline Therms	Avg Non Baseline Therms	High (90th Percentile		Low (10th Percentile)		Total Bill Status Quo	Total Bill		Care (T/F)	Daily BL Limit	Days/Mo nth	Monthly BL Limit	Bill 1	Bill 1	Bill 2	Bill 2
						Therms	Median Therms	Therms	Therms		\$20 Cust Charge	Delta					Care Discount	Discount - Customer	Care Discount	Discount - Customer
No	1	1,750,275	65	41	23	123	55	12	20.44	27.99	7.55	FALSE	1.600	31	50	20%	20%	20%	50%	
No	2	1,762,765	58	38	20	109	49	11	18.67	25.38	6.72	FALSE	1.600	28	45	20%	20%	20%	50%	
No	3	1,770,705	46	35	11	86	37	10	17.88	26.72	8.84	FALSE	0.874	31	27	20%	20%	20%	50%	
No	4	1,782,822	28	24	4	49	22	7	13.88	24.16	10.28	FALSE	0.874	30	26	20%	20%	20%	50%	
No	5	1,800,018	23	19	5	40	18	6	12.77	24.19	11.42	FALSE	0.424	31	13	20%	20%	20%	50%	
No	6	1,803,972	22	12	10	38	17	6	12.60	23.53	10.93	FALSE	0.424	30	13	20%	20%	20%	50%	
No	7	1,813,785	18	11	6	30	13	5	11.49	23.55	12.07	FALSE	0.424	31	13	20%	20%	20%	50%	
No	8	1,821,982	16	11	5	27	12	4	10.21	22.92	12.71	FALSE	0.424	31	13	20%	20%	20%	50%	
No	9	1,830,888	16	11	5	28	12	5	11.32	22.90	11.57	FALSE	0.424	30	13	20%	20%	20%	50%	
No	10	1,824,865	18	11	7	30	14	5	11.49	23.55	12.07	FALSE	0.424	31	13	20%	20%	20%	50%	
No	11	1,804,430	23	18	5	39	18	6	12.60	23.53	10.93	FALSE	0.874	30	26	20%	20%	20%	50%	
No	12	1,791,172	34	28	6	65	26	7	14.04	24.82	10.78	FALSE	1.600	31	50	20%	20%	20%	50%	

Monthly Therms	Baseline Usage	Non BL Usage	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
				0.164383562	0.79239056	1.218341131		0.078365633	0.00577	0.022411264		0.657534247	0.15295018	1.208952988		0.07146011	0.00577	0.022411264
12	12	0	20.44	5.09589	9.50869	-	4.82256	0.94039	0.06924	-	27.99	20.38356	1.83540	-	4.84523	0.85752	0.06924	-
11	11	0	18.67	4.60274	8.71630	-	4.42068	0.86202	0.06347	-	25.38	18.41096	1.68245	-	4.44146	0.78606	0.06347	-
10	10	0	17.88	5.09589	7.92391	-	4.01880	0.78366	0.05770	-	26.72	20.38356	1.52950	-	4.03769	0.71460	0.05770	-
7	7	0	13.88	4.93151	5.54673	-	2.81316	0.54856	0.04039	-	24.16	19.72603	1.07065	-	2.82639	0.50022	0.04039	-
6	6	0	12.77	5.09589	4.75434	-	2.41128	0.47019	0.03462	-	24.19	20.38356	0.91770	-	2.42262	0.42876	0.03462	-
6	6	0	12.60	4.93151	4.75434	-	2.41128	0.47019	0.03462	-	23.53	19.72603	0.91770	-	2.42262	0.42876	0.03462	-
5	5	0	11.49	5.09589	3.96195	-	2.00940	0.39183	0.02885	-	23.55	20.38356	0.76475	-	2.01885	0.35730	0.02885	-
4	4	0	10.21	5.09589	3.16956	-	1.60752	0.31346	0.02308	-	22.92	20.38356	0.61180	-	1.61508	0.28584	0.02308	-
5	5	0	11.32	4.93151	3.96195	-	2.00940	0.39183	0.02885	-	22.90	19.72603	0.76475	-	2.01885	0.35730	0.02885	-
5	5	0	11.49	5.09589	3.96195	-	2.00940	0.39183	0.02885	-	23.55	20.38356	0.76475	-	2.01885	0.35730	0.02885	-
6	6	0	12.60	4.93151	4.75434	-	2.41128	0.47019	0.03462	-	23.53	19.72603	0.91770	-	2.42262	0.42876	0.03462	-
7	7	0	14.04	5.09589	5.54673	-	2.81316	0.54856	0.04039	-	24.82	20.38356	1.07065	-	2.82639	0.50022	0.04039	-

Bill Impacts Average

CARE	revmo	Customers	Average	Avg Baseli	High (90th			Median	Low (10th		Total Bill	Total Bill		Care (T/F)	Daily BL	Days/Mo	Monthly	Care	Bill 1	Bill 1	Bill 2	Bill 2	Monthly	Baseline
					Therms	Therms	Therms		Percentile	Therms		Percentile)	Therms						Therms	Status Quo	\$10 Cust	Delta		
No	1	1,750,275	65	41	23	123	55	12	93.81	76.66	(17.14)	FALSE	1.600	31	50	20%	20%	20%	50%	65	50			
No	2	1,762,765	58	38	20	109	49	11	83.82	68.44	(15.38)	FALSE	1.600	28	45	20%	20%	20%	50%	58	45			
No	3	1,770,705	46	35	11	86	37	10	71.67	69.28	(2.38)	FALSE	0.874	31	27	20%	20%	20%	50%	46	27			
No	4	1,782,822	28	24	4	49	22	7	41.05	39.06	(1.99)	FALSE	0.874	30	26	20%	20%	20%	50%	28	26			
No	5	1,800,018	23	19	5	40	18	6	39.26	46.02	6.76	FALSE	0.424	31	13	20%	20%	20%	50%	23	13			
No	6	1,803,972	22	12	10	38	17	6	37.24	43.53	6.28	FALSE	0.424	30	13	20%	20%	20%	50%	22	13			
No	7	1,813,785	18	11	6	30	13	5	29.47	36.31	6.84	FALSE	0.424	31	13	20%	20%	20%	50%	18	13			
No	8	1,821,982	16	11	5	27	12	4	26.05	32.92	6.87	FALSE	0.424	31	13	20%	20%	20%	50%	16	13			
No	9	1,830,888	16	11	5	28	12	5	26.88	33.25	6.37	FALSE	0.424	30	13	20%	20%	20%	50%	16	13			
No	10	1,824,865	18	11	7	30	14	5	29.86	36.70	6.84	FALSE	0.424	31	13	20%	20%	20%	50%	18	13			
No	11	1,804,430	23	18	5	39	18	6	33.87	34.08	0.21	FALSE	0.874	30	26	20%	20%	20%	50%	23	23			
No	12	1,791,172	34	28	6	65	26	7	48.33	41.83	(6.51)	FALSE	1.600	31	50	20%	20%	20%	50%	34	34			

Non BL  
Usage

	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =		Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
		0.164383562	0.79239056	1.21834113		0.078365633	0.00577	0.022411264			0.657534247	0.1529502	1.20895299		0.07146011	0.00577	0.022411264
15	93.81	5.09589	39.61953	17.72053	25.93927	5.05809	0.37242	-		76.66	20.38356	7.64751	17.58398	26.06121	4.61238	0.37242	-
13	83.82	4.60274	35.65758	15.50363	23.19861	4.52367	0.33307	-		68.44	18.41096	6.88276	15.38417	23.30766	4.12505	0.33307	-
19	71.67	5.09589	21.39455	22.91383	18.40908	3.58973	0.26431	-		69.28	20.38356	4.12965	22.73726	18.49562	3.27340	0.26431	-
2	41.05	4.93151	20.60215	2.05644	11.12722	2.16978	0.15976	-		39.06	19.72603	3.97670	2.04059	11.17952	1.97858	0.15976	-
10	39.26	5.09589	10.30108	12.53978	9.36079	1.82533	0.13440	-		46.02	20.38356	1.98835	12.44315	9.40480	1.66448	0.13440	-
9	37.24	4.93151	10.30108	11.21617	8.92419	1.74020	0.12813	-		43.53	19.72603	1.98835	11.12974	8.96614	1.58685	0.12813	-
5	29.47	5.09589	10.30108	5.54089	7.05215	1.37515	0.10125	-		36.31	20.38356	1.98835	5.49820	7.08530	1.25397	0.10125	-
3	26.05	5.09589	10.30108	3.09849	6.24650	1.21805	0.08968	-		32.92	20.38356	1.98835	3.07461	6.27587	1.11072	0.08968	-
3	26.88	4.93151	10.30108	3.81195	6.48184	1.26394	0.09306	-		33.25	19.72603	1.98835	3.78257	6.51231	1.15257	0.09306	-
5	29.86	5.09589	10.30108	5.82318	7.14527	1.39331	0.10259	-		36.70	20.38356	1.98835	5.77831	7.17886	1.27053	0.10259	-
0	33.87	4.93151	17.93774	-	9.09756	1.77400	0.13062	-		34.08	19.72603	3.46241	-	9.14033	1.61768	0.13062	-
0	48.33	5.09589	26.80023	-	13.59239	2.65048	0.19515	-		41.83	20.38356	5.17308	-	13.65629	2.41692	0.19515	-

Bill Impacts Median

CARE	revmo	Customers	Average Therms	Avg Baseli Therms	Avg Non B Therms	High (90th Percentile Therms	Median Therms	Low (10th Percentile) Therms	Total Bill Status Quo	Total Bill		Care (T/F)	Daily BL Limit	Days/Mo nth	Monthly BL Limit	Bill 1	Bill 1	Bill 2	Bill 2	Monthly Therms	Baseline Usage
										\$10 Cust Charge	Delta					Care Discount	Care Discount - Customer Charge	Care Discount	Care Discount - Customer Charge		
No	1	1,750,275	65	41	23	123	55	12	77.54	60.53	(17.01)	FALSE	1.600	31	50	20%	20%	20%	50%	55	50
No	2	1,762,765	58	38	20	109	49	11	68.95	53.70	(15.25)	FALSE	1.600	28	45	20%	20%	20%	50%	49	45
No	3	1,770,705	46	35	11	86	37	10	56.66	54.40	(2.26)	FALSE	0.874	31	27	20%	20%	20%	50%	37	27
No	4	1,782,822	28	24	4	49	22	7	33.06	33.67	0.62	FALSE	0.874	30	26	20%	20%	20%	50%	22	22
No	5	1,800,018	23	19	5	40	18	6	30.24	37.07	6.84	FALSE	0.424	31	13	20%	20%	20%	50%	18	13
No	6	1,803,972	22	12	10	38	17	6	28.37	34.73	6.36	FALSE	0.424	30	13	20%	20%	20%	50%	17	13
No	7	1,813,785	18	11	6	30	13	5	21.72	28.62	6.91	FALSE	0.424	31	13	20%	20%	20%	50%	13	13
No	8	1,821,982	16	11	5	27	12	4	20.44	27.99	7.55	FALSE	0.424	31	13	20%	20%	20%	50%	12	12
No	9	1,830,888	16	11	5	28	12	5	20.27	27.33	7.06	FALSE	0.424	30	13	20%	20%	20%	50%	12	12
No	10	1,824,865	18	11	7	30	14	5	23.42	30.31	6.90	FALSE	0.424	31	13	20%	20%	20%	50%	14	13
No	11	1,804,430	23	18	5	39	18	6	27.94	31.14	3.19	FALSE	0.874	30	26	20%	20%	20%	50%	18	18
No	12	1,791,172	34	28	6	65	26	7	38.33	36.87	(1.47)	FALSE	1.600	31	50	20%	20%	20%	50%	26	26

Non BL Usage										Non BL Usage									
	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =		Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =		
		0.164383562	0.79239056	1.21834113		0.078365633	0.00577	0.022411264			0.657534247	0.1529502	1.20895299		0.07146011	0.00577	0.022411264		
5	77.54	5.09589	39.61953	6.09171	22.10340	4.31011	0.31735	-	60.53	20.38356	7.64751	6.04476	22.20731	3.93031	0.31735	-			
4	68.95	4.60274	35.65758	4.87336	19.69212	3.83992	0.28273	-	53.70	18.41096	6.88276	4.83581	19.78470	3.50155	0.28273	-			
10	56.66	5.09589	21.39455	12.18341	14.86956	2.89953	0.21349	-	54.40	20.38356	4.12965	12.08953	14.93946	2.64402	0.21349	-			
0	33.06	4.93151	17.43259	-	8.84136	1.72404	0.12694	-	33.67	19.72603	3.36490	-	8.88292	1.57212	0.12694	-			
5	30.24	5.09589	10.30108	6.09171	7.23384	1.41058	0.10386	-	37.07	20.38356	1.98835	6.04476	7.26785	1.28628	0.10386	-			
4	28.37	4.93151	10.30108	4.87336	6.83196	1.33222	0.09809	-	34.73	19.72603	1.98835	4.83581	6.86408	1.21482	0.09809	-			
0	21.72	5.09589	10.30108	-	5.22444	1.01875	0.07501	-	28.62	20.38356	1.98835	-	5.24900	0.92898	0.07501	-			
0	20.44	5.09589	9.50869	-	4.82256	0.94039	0.06924	-	27.99	20.38356	1.83540	-	4.84523	0.85752	0.06924	-			
0	20.27	4.93151	9.50869	-	4.82256	0.94039	0.06924	-	27.33	19.72603	1.83540	-	4.84523	0.85752	0.06924	-			
1	23.42	5.09589	10.30108	1.21834	5.62632	1.09712	0.08078	-	30.31	20.38356	1.98835	1.20895	5.65277	1.00044	0.08078	-			
0	27.94	4.93151	14.26303	-	7.23384	1.41058	0.10386	-	31.14	19.72603	2.75310	-	7.26785	1.28628	0.10386	-			
0	38.33	5.09589	20.60215	-	10.44888	2.03751	0.15002	-	36.87	20.38356	3.97670	-	10.49800	1.85796	0.15002	-			

Bill Impacts Median

CARE	revmo	Customers	Average Therms	Avg Baseli Therms	Avg Non B Therms	High (90th Percentile Therms	Median Therms	Low (10th Percentile) Therms	Total Bill Status Quo	Total Bill		Care (T/F)	Daily BL Limit	Days/Mo nth	Monthly BL Limit	Bill 1	Bill 1	Bill 2	Bill 2	Monthly Therms	Baseline Usage
										\$10 Cust Charge	Delta					Care Discount	Care Discount - Customer Charge	Care Discount	Care Discount - Customer Charge		
No	1	1,750,275	65	41	23	123	55	12	69.02	52.08	(16.94)	FALSE	1.600	31	50	20%	20%	20%	50%	50	50
No	2	1,762,765	58	38	20	109	49	11	62.13	46.94	(15.19)	FALSE	1.600	28	45	20%	20%	20%	50%	45	45
No	3	1,770,705	46	35	11	86	37	10	39.61	37.50	(2.11)	FALSE	0.874	31	27	20%	20%	20%	50%	27	27
No	4	1,782,822	28	24	4	49	22	7	38.17	36.21	(1.96)	FALSE	0.874	30	26	20%	20%	20%	50%	26	26
No	5	1,800,018	23	19	5	40	18	6	21.72	28.62	6.91	FALSE	0.424	31	13	20%	20%	20%	50%	13	13
No	6	1,803,972	22	12	10	38	17	6	21.55	27.97	6.42	FALSE	0.424	30	13	20%	20%	20%	50%	13	13
No	7	1,813,785	18	11	6	30	13	5	21.72	28.62	6.91	FALSE	0.424	31	13	20%	20%	20%	50%	13	13
No	8	1,821,982	16	11	5	27	12	4	21.72	28.62	6.91	FALSE	0.424	31	13	20%	20%	20%	50%	13	13
No	9	1,830,888	16	11	5	28	12	5	21.55	27.97	6.42	FALSE	0.424	30	13	20%	20%	20%	50%	13	13
No	10	1,824,865	18	11	7	30	14	5	21.72	28.62	6.91	FALSE	0.424	31	13	20%	20%	20%	50%	13	13
No	11	1,804,430	23	18	5	39	18	6	38.17	36.21	(1.96)	FALSE	0.874	30	26	20%	20%	20%	50%	26	26
No	12	1,791,172	34	28	6	65	26	7	69.02	52.08	(16.94)	FALSE	1.600	31	50	20%	20%	20%	50%	50	50



Non BL Usage										Non BL Usage									
	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =		Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =		
0	69.02	0.164383562	0.79239056	1.21834113	20.09400	3.91828	0.28850	0.00577	0.022411264	52.08	0.657534247	0.1529502	1.20895299	20.18847	0.07146011	0.00577	0.022411264	-	
0	62.13	4.60274	35.65758	-	18.08460	3.52645	0.25965	-	-	46.94	18.41096	6.88276	-	18.16962	3.21570	0.25965	-	-	
0	39.61	5.09589	21.39455	-	10.85076	2.11587	0.15579	-	-	37.50	20.38356	4.12965	-	10.90177	1.92942	0.15579	-	-	
0	38.17	4.93151	20.60215	-	10.44888	2.03751	0.15002	-	-	36.21	19.72603	3.97670	-	10.49800	1.85796	0.15002	-	-	
0	21.72	5.09589	10.30108	-	5.22444	1.01875	0.07501	-	-	28.62	20.38356	1.98835	-	5.24900	0.92898	0.07501	-	-	
0	21.55	4.93151	10.30108	-	5.22444	1.01875	0.07501	-	-	27.97	19.72603	1.98835	-	5.24900	0.92898	0.07501	-	-	
0	21.72	5.09589	10.30108	-	5.22444	1.01875	0.07501	-	-	28.62	20.38356	1.98835	-	5.24900	0.92898	0.07501	-	-	
0	21.72	5.09589	10.30108	-	5.22444	1.01875	0.07501	-	-	28.62	20.38356	1.98835	-	5.24900	0.92898	0.07501	-	-	
0	21.55	4.93151	10.30108	-	5.22444	1.01875	0.07501	-	-	27.97	19.72603	1.98835	-	5.24900	0.92898	0.07501	-	-	
0	21.72	5.09589	10.30108	-	5.22444	1.01875	0.07501	-	-	28.62	20.38356	1.98835	-	5.24900	0.92898	0.07501	-	-	
0	38.17	4.93151	20.60215	-	10.44888	2.03751	0.15002	-	-	36.21	19.72603	3.97670	-	10.49800	1.85796	0.15002	-	-	
0	69.02	5.09589	39.61953	-	20.09400	3.91828	0.28850	-	-	52.08	20.38356	7.64751	-	20.18847	3.57301	0.28850	-	-	

Bill Impacts Average

CARE	revmo	Customers	Average	Avg Baseli	High (90th			Median	Low (10th		Total Bill	Total Bill		Care (T/F)	Daily BL	Days/Mo	Monthly	Care	Bill 1	Bill 1	Bill 2	Bill 2	Monthly	Baseline
					Therms	Therms	Therms		Percentile	Therms		Percentile	Therms						Therms	Discount -	Care	Discount -		
No	1	1,750,275	65	41	23	123	55	12	193.43	175.45	(17.99)	FALSE	1.600	31	50	20%	20%	20%	50%	123	50			
No	2	1,762,765	58	38	20	109	49	11	171.21	155.10	(16.11)	FALSE	1.600	28	45	20%	20%	20%	50%	109	45			
No	3	1,770,705	46	35	11	86	37	10	140.17	137.21	(2.96)	FALSE	0.874	31	27	20%	20%	20%	50%	86	27			
No	4	1,782,822	28	24	4	49	22	7	77.37	75.08	(2.29)	FALSE	0.874	30	26	20%	20%	20%	50%	49	26			
No	5	1,800,018	23	19	5	40	18	6	67.73	74.25	6.52	FALSE	0.424	31	13	20%	20%	20%	50%	40	13			
No	6	1,803,972	22	12	10	38	17	6	64.16	70.22	6.06	FALSE	0.424	30	13	20%	20%	20%	50%	38	13			
No	7	1,813,785	18	11	6	30	13	5	50.69	57.35	6.66	FALSE	0.424	31	13	20%	20%	20%	50%	30	13			
No	8	1,821,982	16	11	5	27	12	4	45.58	52.28	6.71	FALSE	0.424	31	13	20%	20%	20%	50%	27	13			
No	9	1,830,888	16	11	5	28	12	5	47.12	53.32	6.20	FALSE	0.424	30	13	20%	20%	20%	50%	28	13			
No	10	1,824,865	18	11	7	30	14	5	50.69	57.35	6.66	FALSE	0.424	31	13	20%	20%	20%	50%	30	13			
No	11	1,804,430	23	18	5	39	18	6	60.33	58.18	(2.15)	FALSE	0.874	30	26	20%	20%	20%	50%	39	26			
No	12	1,791,172	34	28	6	65	26	7	94.58	77.43	(17.15)	FALSE	1.600	31	50	20%	20%	20%	50%	65	50			

Non BL  
Usage

	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
		0.164383562	0.79239056	1.21834113		0.078365633	0.00577	0.022411264		0.657534247	0.1529502	1.20895299		0.07146011	0.00577	0.022411264
73	193.43	5.09589	39.61953	88.93890	49.43125	9.63897	0.70971	-	175.45	20.38356	7.64751	88.25357	49.66363	8.78959	0.70971	-
64	171.21	4.60274	35.65758	77.97383	43.80493	8.54185	0.62893	-	155.10	18.41096	6.88276	77.37299	44.01086	7.78915	0.62893	-
59	140.17	5.09589	21.39455	71.88213	34.56169	6.73944	0.49622	-	137.21	20.38356	4.12965	71.32823	34.72416	6.14557	0.49622	-
23	77.37	4.93151	20.60215	28.02185	19.69212	3.83992	0.28273	-	75.08	19.72603	3.97670	27.80592	19.78470	3.50155	0.28273	-
27	67.73	5.09589	10.30108	32.89521	16.07520	3.13463	0.23080	-	74.25	20.38356	1.98835	32.64173	16.15077	2.85840	0.23080	-
25	64.16	4.93151	10.30108	30.45853	15.27144	2.97789	0.21926	-	70.22	19.72603	1.98835	30.22382	15.34323	2.71548	0.21926	-
17	50.69	5.09589	10.30108	20.71180	12.05640	2.35097	0.17310	-	57.35	20.38356	1.98835	20.55220	12.11308	2.14380	0.17310	-
14	45.58	5.09589	10.30108	17.05678	10.85076	2.11587	0.15579	-	52.28	20.38356	1.98835	16.92534	10.90177	1.92942	0.15579	-
15	47.12	4.93151	10.30108	18.27512	11.25264	2.19424	0.16156	-	53.32	19.72603	1.98835	18.13429	11.30554	2.00088	0.16156	-
17	50.69	5.09589	10.30108	20.71180	12.05640	2.35097	0.17310	-	57.35	20.38356	1.98835	20.55220	12.11308	2.14380	0.17310	-
13	60.33	4.93151	20.60215	15.83843	15.67332	3.05626	0.22503	-	58.18	19.72603	3.97670	15.71639	15.74700	2.78694	0.22503	-
15	94.58	5.09589	39.61953	18.27512	26.12220	5.09377	0.37505	-	77.43	20.38356	7.64751	18.13429	26.24501	4.64491	0.37505	-

### SoCalGas Residential Bill Impact

Customer Charge                                   \$     5   \$     20

  \$5 Cust   \$20 Cust  
  Charge     Charge

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**INPUT:**

Customer Charge \$/day =	\$0.16438	\$0.65753
BL Rate \$/th =	\$0.79239	\$0.15295
NBL Rate \$/th =	\$1.21834	\$1.20895
PPPS Non-CARE \$/th =	\$0.07837	\$0.07146
G-SRF \$/th =	\$0.00577	\$0.00577
PPPS CARE \$/th =	\$0.02241	\$0.02241

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**SOUTHERN CALIFORNIA GAS COMPANY  
2020 TCAP**

**CARE Bill Impact Calculations**

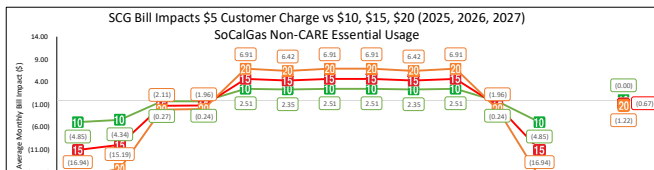
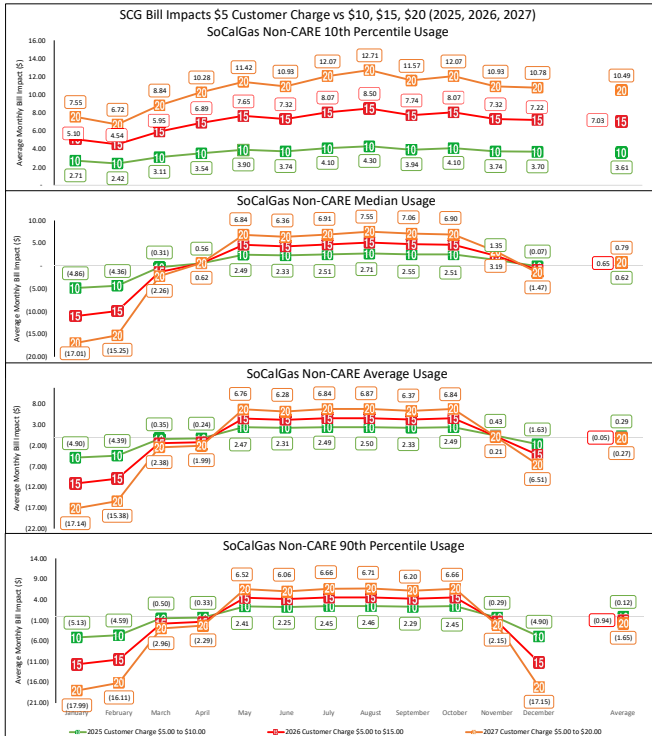
**Workpapers to the Prepared Written Testimony of  
Michael Foster**



TCAP CARE Bill Impact Graph Data

Usage	CARE Discount - Cust Charge		CARE Discount		Usage			
	5	10	20%	50%	10% use \$5.00 to \$10.00	10% use \$5.00 to \$15.00	10% use \$5.00 to \$20.00	Average use \$5.00 to \$20.00
January	2.71	5.10	(5.13)	(11.67)	(4.86)	(11.06)	(4.90)	(11.15)
February	2.42	4.54	(4.59)	(10.45)	(4.36)	(9.92)	(4.39)	(10.00)
March	3.11	5.95	(0.50)	(1.79)	(0.31)	(1.35)	(0.35)	(1.43)
April	3.54	6.89	(0.33)	(1.37)	0.56	0.53	(0.24)	(1.18)
May	3.90	7.65	2.41	4.44	2.49	4.63	2.47	4.59
June	3.74	7.32	2.25	4.13	2.33	4.31	2.31	4.27
July	4.10	8.07	2.45	4.53	2.51	4.68	2.49	4.64
August	4.30	8.50	2.46	4.55	2.71	5.10	2.50	4.65
September	3.94	7.74	2.29	4.21	2.55	4.77	2.33	4.32
October	4.10	8.07	2.45	4.53	2.51	4.67	2.49	4.63
November	3.74	7.32	(0.29)	(1.28)	1.35	2.23	0.43	0.26
December	3.70	7.22	(4.90)	(11.15)	(0.07)	(0.84)	(1.63)	(4.15)
Average	3.61	7.03	(0.12)	(0.94)	0.62	0.65	0.29	(0.05)

Usage	2027 Customer Charge \$5.00 to \$20.00	Median use \$5.00 to \$20.00	Average use \$5.00 to \$20.00	Essential Usage Customer Charge \$5.00 to \$20.00	Customer Charge \$5.00 to \$20.00	Customer Charge \$5.00 to \$20.00
January	7.55	(17.01)	(17.14)	(4.85)	(11.02)	(16.94)
February	6.72	(16.11)	(15.38)	(4.34)	(9.88)	(15.19)
March	8.84	(2.96)	(2.26)	(0.27)	(1.26)	(2.11)
April	10.28	(2.29)	0.62	(0.24)	(1.17)	(1.96)
May	11.42	6.52	6.84	2.51	4.68	6.91
June	10.93	6.06	6.36	2.35	4.35	6.42
July	12.07	6.66	6.91	2.51	4.68	6.91
August	12.71	6.71	7.55	2.51	4.68	6.91
September	11.57	6.20	7.06	2.35	4.35	6.42
October	12.07	6.66	6.90	2.51	4.68	6.91
November	10.93	(2.15)	3.19	(0.24)	(1.17)	(1.96)
December	10.78	(17.15)	(1.47)	(4.85)	(11.02)	(16.94)
Average	10.49	(1.65)	0.79	(0.00)	(0.67)	(1.22)



196.266667

Bill Impacts Lowest 10 Percentile

CARE	revmo	Customers	Average Therms	Avg Baseline Therms	Avg Non Baseline Therms	High (90th Percentile Therms		Low (10th Percentile) Therms		Total Bill Status Quo	Total Bill \$20 Cust Charge		Delta	Care (T/F)	Daily BL Limit	Days/Mo nth	Monthly BL Limit	Bill 1	Bill 1	Bill 2	Bill 2
						Care	Discount - Customer	Care	Discount - Customer												
No	1	1,750,275	65	41	23	123	55	12	20.43	23.14	2.71	FALSE	1.600	31	50	20%	20%	20%	50%		
No	2	1,762,765	58	38	20	109	49	11	18.66	21.08	2.42	FALSE	1.600	28	45	20%	20%	20%	50%		
No	3	1,770,705	46	35	11	86	37	10	17.88	20.99	3.11	FALSE	0.874	31	27	20%	20%	20%	50%		
No	4	1,782,822	28	24	4	49	22	7	13.88	17.42	3.54	FALSE	0.874	30	26	20%	20%	20%	50%		
No	5	1,800,018	23	19	5	40	18	6	12.77	16.67	3.90	FALSE	0.424	31	13	20%	20%	20%	50%		
No	6	1,803,972	22	12	10	38	17	6	12.60	16.34	3.74	FALSE	0.424	30	13	20%	20%	20%	50%		
No	7	1,813,785	18	11	6	30	13	5	11.49	15.59	4.10	FALSE	0.424	31	13	20%	20%	20%	50%		
No	8	1,821,982	16	11	5	27	12	4	10.21	14.51	4.30	FALSE	0.424	31	13	20%	20%	20%	50%		
No	9	1,830,888	16	11	5	28	12	5	11.32	15.26	3.94	FALSE	0.424	30	13	20%	20%	20%	50%		
No	10	1,824,865	18	11	7	30	14	5	11.49	15.59	4.10	FALSE	0.424	31	13	20%	20%	20%	50%		
No	11	1,804,430	23	18	5	39	18	6	12.60	16.34	3.74	FALSE	0.874	30	26	20%	20%	20%	50%		
No	12	1,791,172	34	28	6	65	26	7	14.04	17.75	3.70	FALSE	1.600	31	50	20%	20%	20%	50%		



Monthly Therms	Baseline Usage	Non BL Usage	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
				0.164383562	0.79239056	1.218341131		0.078365633	0.00577	0.022411264		0.328767123	0.59655553	1.217445211		0.075159379	0.00577	0.022411264
12	12	0	20.43	5.09589	9.50869	-	4.82061	0.94039	0.06924	-	23.14	10.19178	7.15867	-	4.82324	0.90191	0.06924	-
11	11	0	18.66	4.60274	8.71630	-	4.41889	0.86202	0.06347	-	21.08	9.20548	6.56211	-	4.42131	0.82675	0.06347	-
10	10	0	17.88	5.09589	7.92391	-	4.01717	0.78366	0.05770	-	20.99	10.19178	5.96556	-	4.01937	0.75159	0.05770	-
7	7	0	13.88	4.93151	5.54673	-	2.81202	0.54856	0.04039	-	17.42	9.86301	4.17589	-	2.81356	0.52612	0.04039	-
6	6	0	12.77	5.09589	4.75434	-	2.41030	0.47019	0.03462	-	16.67	10.19178	3.57933	-	2.41162	0.45096	0.03462	-
6	6	0	12.60	4.93151	4.75434	-	2.41030	0.47019	0.03462	-	16.34	9.86301	3.57933	-	2.41162	0.45096	0.03462	-
5	5	0	11.49	5.09589	3.96195	-	2.00859	0.39183	0.02885	-	15.59	10.19178	2.98278	-	2.00969	0.37580	0.02885	-
4	4	0	10.21	5.09589	3.16956	-	1.60687	0.31346	0.02308	-	14.51	10.19178	2.38622	-	1.60775	0.30064	0.02308	-
5	5	0	11.32	4.93151	3.96195	-	2.00859	0.39183	0.02885	-	15.26	9.86301	2.98278	-	2.00969	0.37580	0.02885	-
5	5	0	11.49	5.09589	3.96195	-	2.00859	0.39183	0.02885	-	15.59	10.19178	2.98278	-	2.00969	0.37580	0.02885	-
6	6	0	12.60	4.93151	4.75434	-	2.41030	0.47019	0.03462	-	16.34	9.86301	3.57933	-	2.41162	0.45096	0.03462	-
7	7	0	14.04	5.09589	5.54673	-	2.81202	0.54856	0.04039	-	17.75	10.19178	4.17589	-	2.81356	0.52612	0.04039	-

Bill Impacts Median

CARE	revmo	Customers	Average	Avg Baseli	High (90th		Median	Low (10th		Total Bill	Total Bill		Care (T/F)	Daily BL	Days/Mo	Monthly	Care	Bill 1	Bill 1	Bill 2	Bill 2	Monthly	Baseline
					Therms	Therms		Therms	Therms		Therms	Therms						Status Quo	\$10 Cust	Delta	Discount		
No	1	1,750,275	65	41	23	123	55	12	77.53	72.66	(4.86)	FALSE	1.600	31	50	20%	20%	20%	20%	55	50		
No	2	1,762,765	58	38	20	109	49	11	68.94	64.58	(4.36)	FALSE	1.600	28	45	20%	20%	20%	20%	49	45		
No	3	1,770,705	46	35	11	86	37	10	56.65	56.34	(0.31)	FALSE	0.874	31	27	20%	20%	20%	20%	37	27		
No	4	1,782,822	28	24	4	49	22	7	33.05	33.61	0.56	FALSE	0.874	30	26	20%	20%	20%	20%	22	22		
No	5	1,800,018	23	19	5	40	18	6	30.23	32.73	2.49	FALSE	0.424	31	13	20%	20%	20%	20%	18	13		
No	6	1,803,972	22	12	10	38	17	6	28.37	30.70	2.33	FALSE	0.424	30	13	20%	20%	20%	20%	17	13		
No	7	1,813,785	18	11	6	30	13	5	21.71	24.22	2.51	FALSE	0.424	31	13	20%	20%	20%	20%	13	13		
No	8	1,821,982	16	11	5	27	12	4	20.43	23.14	2.71	FALSE	0.424	31	13	20%	20%	20%	20%	12	12		
No	9	1,830,888	16	11	5	28	12	5	20.27	22.82	2.55	FALSE	0.424	30	13	20%	20%	20%	20%	12	12		
No	10	1,824,865	18	11	7	30	14	5	23.42	25.92	2.51	FALSE	0.424	31	13	20%	20%	20%	20%	14	13		
No	11	1,804,430	23	18	5	39	18	6	27.94	29.29	1.35	FALSE	0.874	30	26	20%	20%	20%	20%	18	18		
No	12	1,791,172	34	28	6	65	26	7	38.33	38.26	(0.07)	FALSE	1.600	31	50	20%	20%	20%	20%	26	26		

Non BL  
Usage

	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
		0.164383562	0.79239056	1.218341131		0.078365633	0.00577	0.022411264		0.328767123	0.59655553	1.217445211		0.075159379	0.00577	0.022411264
5	77.53	5.09589	39.61953	6.09171	22.09445	4.31011	0.31735	-	72.66	10.19178	29.82778	6.08723	22.10654	4.13377	0.31735	-
4	68.94	4.60274	35.65758	4.87336	19.68415	3.83992	0.28273	-	64.58	9.20548	26.84500	4.86978	19.69492	3.68281	0.28273	-
10	56.65	5.09589	21.39455	12.18341	14.86354	2.89953	0.21349	-	56.34	10.19178	16.10700	12.17445	14.87167	2.78090	0.21349	-
0	33.05	4.93151	17.43259	-	8.83778	1.72404	0.12694	-	33.61	9.86301	13.12422	-	8.84262	1.65351	0.12694	-
5	30.23	5.09589	10.30108	6.09171	7.23091	1.41058	0.10386	-	32.73	10.19178	7.75522	6.08723	7.23487	1.35287	0.10386	-
4	28.37	4.93151	10.30108	4.87336	6.82919	1.33222	0.09809	-	30.70	9.86301	7.75522	4.86978	6.83293	1.27771	0.09809	-
0	21.71	5.09589	10.30108	-	5.22232	1.01875	0.07501	-	24.22	10.19178	7.75522	-	5.22518	0.97707	0.07501	-
0	20.43	5.09589	9.50869	-	4.82061	0.94039	0.06924	-	23.14	10.19178	7.15867	-	4.82324	0.90191	0.06924	-
0	20.27	4.93151	9.50869	-	4.82061	0.94039	0.06924	-	22.82	9.86301	7.15867	-	4.82324	0.90191	0.06924	-
1	23.42	5.09589	10.30108	1.21834	5.62404	1.09712	0.08078	-	25.92	10.19178	7.75522	1.21745	5.62712	1.05223	0.08078	-
0	27.94	4.93151	14.26303	-	7.23091	1.41058	0.10386	-	29.29	9.86301	10.73800	-	7.23487	1.35287	0.10386	-
0	38.33	5.09589	20.60215	-	10.44465	2.03751	0.15002	-	38.26	10.19178	15.51044	-	10.45036	1.95414	0.15002	-

Bill Impacts Median

CARE	revmo	Customers	Average Therms	Avg Baseli Therms	High (90th Percentile)		Median Therms	Low (10th Percentile)		Total Bill Status Quo	Total Bill \$10 Cust Charge Delta		Care (T/F)	Daily BL Limit	Days/Mon th	Monthly BL Limit	Care Discount	Bill 1	Bill 1	Bill 2	Bill 2	Monthly Therms
					Avg Non B Therms	Percentile		Percentile	Discount - Customer		Care Discount	Discount - Customer						Monthly				
No	1	1,750,275	65	41	23	123	55	12	69.01	64.16	(4.85)	FALSE	1.600	31	50	20%	20%	20%	50%	50		
No	2	1,762,765	58	38	20	109	49	11	62.12	57.78	(4.34)	FALSE	1.600	28	45	20%	20%	20%	50%	45		
No	3	1,770,705	46	35	11	86	37	10	39.61	39.34	(0.27)	FALSE	0.874	31	27	20%	20%	20%	50%	27		
No	4	1,782,822	28	24	4	49	22	7	38.17	37.93	(0.24)	FALSE	0.874	30	26	20%	20%	20%	50%	26		
No	5	1,800,018	23	19	5	40	18	6	21.71	24.22	2.51	FALSE	0.424	31	13	20%	20%	20%	50%	13		
No	6	1,803,972	22	12	10	38	17	6	21.55	23.90	2.35	FALSE	0.424	30	13	20%	20%	20%	50%	13		
No	7	1,813,785	18	11	6	30	13	5	21.71	24.22	2.51	FALSE	0.424	31	13	20%	20%	20%	50%	13		
No	8	1,821,982	16	11	5	27	12	4	21.71	24.22	2.51	FALSE	0.424	31	13	20%	20%	20%	50%	13		
No	9	1,830,888	16	11	5	28	12	5	21.55	23.90	2.35	FALSE	0.424	30	13	20%	20%	20%	50%	13		
No	10	1,824,865	18	11	7	30	14	5	21.71	24.22	2.51	FALSE	0.424	31	13	20%	20%	20%	50%	13		
No	11	1,804,430	23	18	5	39	18	6	38.17	37.93	(0.24)	FALSE	0.874	30	26	20%	20%	20%	50%	26		
No	12	1,791,172	34	28	6	65	26	7	69.01	64.16	(4.85)	FALSE	1.600	31	50	20%	20%	20%	50%	50		

Baseline Usage	Non BL Usage	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
			0.164383562	0.79239056	1.218341131		0.078365633	0.00577	0.022411264		0.328767123	0.59655553	1.217445211		0.075159379	0.00577	0.022411264
50	0	69.01	5.09589	39.61953	-	20.08586	3.91828	0.28850	-	64.16	10.19178	29.82778	-	20.09685	3.75797	0.28850	-
45	0	62.12	4.60274	35.65758	-	18.07728	3.52645	0.25965	-	57.78	9.20548	26.84500	-	18.08717	3.38217	0.25965	-
27	0	39.61	5.09589	21.39455	-	10.84637	2.11587	0.15579	-	39.34	10.19178	16.10700	-	10.85230	2.02930	0.15579	-
26	0	38.17	4.93151	20.60215	-	10.44465	2.03751	0.15002	-	37.93	9.86301	15.51044	-	10.45036	1.95414	0.15002	-
13	0	21.71	5.09589	10.30108	-	5.22232	1.01875	0.07501	-	24.22	10.19178	7.75522	-	5.22518	0.97707	0.07501	-
13	0	21.55	4.93151	10.30108	-	5.22232	1.01875	0.07501	-	23.90	9.86301	7.75522	-	5.22518	0.97707	0.07501	-
13	0	21.71	5.09589	10.30108	-	5.22232	1.01875	0.07501	-	24.22	10.19178	7.75522	-	5.22518	0.97707	0.07501	-
13	0	21.71	5.09589	10.30108	-	5.22232	1.01875	0.07501	-	24.22	10.19178	7.75522	-	5.22518	0.97707	0.07501	-
13	0	21.55	4.93151	10.30108	-	5.22232	1.01875	0.07501	-	23.90	9.86301	7.75522	-	5.22518	0.97707	0.07501	-
13	0	21.71	5.09589	10.30108	-	5.22232	1.01875	0.07501	-	24.22	10.19178	7.75522	-	5.22518	0.97707	0.07501	-
26	0	38.17	4.93151	20.60215	-	10.44465	2.03751	0.15002	-	37.93	9.86301	15.51044	-	10.45036	1.95414	0.15002	-
50	0	69.01	5.09589	39.61953	-	20.08586	3.91828	0.28850	-	64.16	10.19178	29.82778	-	20.09685	3.75797	0.28850	-

Bill Impacts Average

CARE	revmo	Customers	Average	Avg Baseli	High (90th			Median	Low (10th		Total Bill	Total Bill		Care (T/F)	Daily BL	Days/Mo	Monthly	Care	Bill 1	Bill 1	Bill 2	Bill 2	Monthly	Baseline
					Therms	Therms	Therms		Percentile	Therms		Percentile	Therms						Therms	Discount -	Care	Discount -		
No	1	1,750,275	65	41	23	123	55	12	93.80	88.89	(4.90)	FALSE	1.600	31	50	20%	20%	20%	20%	50%	65	50		
No	2	1,762,765	58	38	20	109	49	11	83.81	79.42	(4.39)	FALSE	1.600	28	45	20%	20%	20%	20%	50%	58	45		
No	3	1,770,705	46	35	11	86	37	10	71.66	71.31	(0.35)	FALSE	0.874	31	27	20%	20%	20%	20%	50%	46	27		
No	4	1,782,822	28	24	4	49	22	7	41.04	40.80	(0.24)	FALSE	0.874	30	26	20%	20%	20%	20%	50%	28	26		
No	5	1,800,018	23	19	5	40	18	6	39.25	41.72	2.47	FALSE	0.424	31	13	20%	20%	20%	20%	50%	23	13		
No	6	1,803,972	22	12	10	38	17	6	37.24	39.55	2.31	FALSE	0.424	30	13	20%	20%	20%	20%	50%	22	13		
No	7	1,813,785	18	11	6	30	13	5	29.46	31.96	2.49	FALSE	0.424	31	13	20%	20%	20%	20%	50%	18	13		
No	8	1,821,982	16	11	5	27	12	4	26.05	28.55	2.50	FALSE	0.424	31	13	20%	20%	20%	20%	50%	16	13		
No	9	1,830,888	16	11	5	28	12	5	26.88	29.22	2.33	FALSE	0.424	30	13	20%	20%	20%	20%	50%	16	13		
No	10	1,824,865	18	11	7	30	14	5	29.86	32.35	2.49	FALSE	0.424	31	13	20%	20%	20%	20%	50%	18	13		
No	11	1,804,430	23	18	5	39	18	6	33.87	34.30	0.43	FALSE	0.874	30	26	20%	20%	20%	20%	50%	23	23		
No	12	1,791,172	34	28	6	65	26	7	48.33	46.70	(1.63)	FALSE	1.600	31	50	20%	20%	20%	20%	50%	34	34		

Non BL  
Usage

	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
		0.164383562	0.79239056	1.218341131		0.078365633	0.00577	0.022411264		0.328767123	0.59655553	1.217445211		0.075159379	0.00577	0.022411264
15	93.80	5.09589	39.61953	17.72053	25.92876	5.05809	0.37242	-	88.89	10.19178	29.82778	17.70750	25.94295	4.85115	0.37242	-
13	83.81	4.60274	35.65758	15.50363	23.18921	4.52367	0.33307	-	79.42	9.20548	26.84500	15.49223	23.20190	4.33859	0.33307	-
19	71.66	5.09589	21.39455	22.91383	18.40162	3.58973	0.26431	-	71.31	10.19178	16.10700	22.89698	18.41169	3.44286	0.26431	-
2	41.04	4.93151	20.60215	2.05644	11.12271	2.16978	0.15976	-	40.80	9.86301	15.51044	2.05493	11.12879	2.08101	0.15976	-
10	39.25	5.09589	10.30108	12.53978	9.35700	1.82533	0.13440	-	41.72	10.19178	7.75522	12.53055	9.36212	1.75065	0.13440	-
9	37.24	4.93151	10.30108	11.21617	8.92057	1.74020	0.12813	-	39.55	9.86301	7.75522	11.20792	8.92545	1.66900	0.12813	-
5	29.46	5.09589	10.30108	5.54089	7.04929	1.37515	0.10125	-	31.96	10.19178	7.75522	5.53682	7.05315	1.31889	0.10125	-
3	26.05	5.09589	10.30108	3.09849	6.24397	1.21805	0.08968	-	28.55	10.19178	7.75522	3.09621	6.24739	1.16822	0.08968	-
3	26.88	4.93151	10.30108	3.81195	6.47922	1.26394	0.09306	-	29.22	9.86301	7.75522	3.80914	6.48276	1.21223	0.09306	-
5	29.86	5.09589	10.30108	5.82318	7.14237	1.39331	0.10259	-	32.35	10.19178	7.75522	5.81890	7.14628	1.33630	0.10259	-
0	33.87	4.93151	17.93774	-	9.09387	1.77400	0.13062	-	34.30	9.86301	13.50453	-	9.09885	1.70142	0.13062	-
0	48.33	5.09589	26.80023	-	13.58688	2.65048	0.19515	-	46.70	10.19178	20.17670	-	13.59432	2.54204	0.19515	-

Bill Impacts Average

CARE	revmo	Customers	Average	Avg Baseli	High (90th			Median	Low (10th		Total Bill	Total Bill		Care (T/F)	Daily BL	Days/Mo	Monthly	Care	Bill 1	Bill 1	Bill 2	Bill 2	Monthly	Baseline
					Avg Non B	Percentile	Percentile		Percentile	Percentile		Percentile	Discount -						Care	Discount -	Customer	Customer		
					Therms	Therms	Therms		Therms	Therms		Therms	Charge						Delta	Charge	Discount	Charge		
No	1	1,750,275	65	41	23	123	55	12	193.41	188.29	(5.13)	FALSE	1.600	31	50	20%	20%	20%	20%	50%	123	50		
No	2	1,762,765	58	38	20	109	49	11	171.19	166.60	(4.59)	FALSE	1.600	28	45	20%	20%	20%	20%	50%	109	45		
No	3	1,770,705	46	35	11	86	37	10	140.16	139.65	(0.50)	FALSE	0.874	31	27	20%	20%	20%	20%	50%	86	27		
No	4	1,782,822	28	24	4	49	22	7	77.36	77.04	(0.33)	FALSE	0.874	30	26	20%	20%	20%	20%	50%	49	26		
No	5	1,800,018	23	19	5	40	18	6	67.73	70.13	2.41	FALSE	0.424	31	13	20%	20%	20%	20%	50%	40	13		
No	6	1,803,972	22	12	10	38	17	6	64.15	66.40	2.25	FALSE	0.424	30	13	20%	20%	20%	20%	50%	38	13		
No	7	1,813,785	18	11	6	30	13	5	50.68	53.13	2.45	FALSE	0.424	31	13	20%	20%	20%	20%	50%	30	13		
No	8	1,821,982	16	11	5	27	12	4	45.57	48.03	2.46	FALSE	0.424	31	13	20%	20%	20%	20%	50%	27	13		
No	9	1,830,888	16	11	5	28	12	5	47.11	49.40	2.29	FALSE	0.424	30	13	20%	20%	20%	20%	50%	28	13		
No	10	1,824,865	18	11	7	30	14	5	50.68	53.13	2.45	FALSE	0.424	31	13	20%	20%	20%	20%	50%	30	13		
No	11	1,804,430	23	18	5	39	18	6	60.32	60.03	(0.29)	FALSE	0.874	30	26	20%	20%	20%	20%	50%	39	26		
No	12	1,791,172	34	28	6	65	26	7	94.57	89.67	(4.90)	FALSE	1.600	31	50	20%	20%	20%	20%	50%	65	50		



Non BL  
Usage

	Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
		0.164383562	0.79239056	1.218341131		0.078365633	0.00577	0.022411264		0.328767123	0.59655553	1.217445211		0.075159379	0.00577	0.022411264
73	193.41	5.09589	39.61953	88.93890	49.41122	9.63897	0.70971	-	188.29	10.19178	29.82778	88.87350	49.43826	9.24460	0.70971	-
64	171.19	4.60274	35.65758	77.97383	43.78718	8.54185	0.62893	-	166.60	9.20548	26.84500	77.91649	43.81114	8.19237	0.62893	-
59	140.16	5.09589	21.39455	71.88213	34.54768	6.73944	0.49622	-	139.65	10.19178	16.10700	71.82927	34.56659	6.46371	0.49622	-
23	77.36	4.93151	20.60215	28.02185	19.68415	3.83992	0.28273	-	77.04	9.86301	15.51044	28.00124	19.69492	3.68281	0.28273	-
27	67.73	5.09589	10.30108	32.89521	16.06869	3.13463	0.23080	-	70.13	10.19178	7.75522	32.87102	16.07748	3.00638	0.23080	-
25	64.15	4.93151	10.30108	30.45853	15.26526	2.97789	0.21926	-	66.40	9.86301	7.75522	30.43613	15.27361	2.85606	0.21926	-
17	50.68	5.09589	10.30108	20.71180	12.05152	2.35097	0.17310	-	53.13	10.19178	7.75522	20.69657	12.05811	2.25478	0.17310	-
14	45.57	5.09589	10.30108	17.05678	10.84637	2.11587	0.15579	-	48.03	10.19178	7.75522	17.04423	10.85230	2.02930	0.15579	-
15	47.11	4.93151	10.30108	18.27512	11.24808	2.19424	0.16156	-	49.40	9.86301	7.75522	18.26168	11.25424	2.10446	0.16156	-
17	50.68	5.09589	10.30108	20.71180	12.05152	2.35097	0.17310	-	53.13	10.19178	7.75522	20.69657	12.05811	2.25478	0.17310	-
13	60.32	4.93151	20.60215	15.83843	15.66697	3.05626	0.22503	-	60.03	9.86301	15.51044	15.82679	15.67555	2.93122	0.22503	-
15	94.57	5.09589	39.61953	18.27512	26.11162	5.09377	0.37505	-	89.67	10.19178	29.82778	18.26168	26.12591	4.88536	0.37505	-

**SoCalGas Residential Bill Impact**

Customer Charge                    \$                    5    \$                    10

\$10 Cust  
Charge, 50%  
CARE

\$5 Cust Charge, Discount on  
20% CARE                    Customer  
Discount                    Charge

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**INPUT:**

Customer Charge \$/day =	\$0.16438	\$0.32877
BL Rate \$/th =	\$0.79239	\$0.59656
NBL Rate \$/th =	\$1.21834	\$1.21745
PPPS Non-CARE \$/th =	\$0.07837	\$0.07516
G-SRF \$/th =	\$0.00577	\$0.00577
PPPS CARE \$/th =	\$0.02241	\$0.02241

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