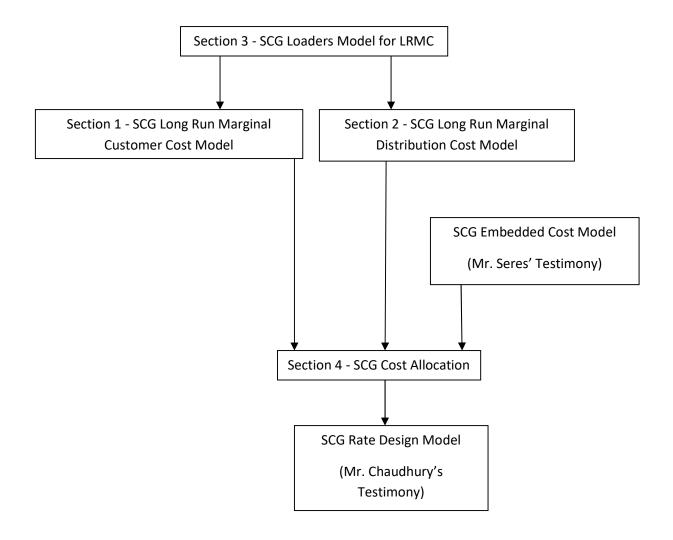
SoCalGas 2024 TCAP Cost Allocation Flowchart



Workpapers to the Prepared Written Testimony of Marjorie Schmidt-Pines

SOUTHERN CALIFORNIA GAS COMPANY 2024TCAP

Section 1
Long Run Marginal Customer Cost Model

Workpapers to the Prepared Written Testimony of Marjorie Schmidt-Pines

SCG 2024 TCAP LRMC Customer Cost/Rental Method RD Format

Co	rrected		Residential	CCI	G-AC	G-GEN	NGV	Total Core
1 2 3	Marginal Customer Unit Cost @ various LRMC Allocation Methods Customer Cust \$/Cust/Year Rental Method Customer Cost \$/Cust/Year NCO Method Customer Cost \$/Cust/Year NCO Method w/Replacement Cost		\$288.38 \$159.43 \$271.76	\$1,603.52 \$831.28 \$1,057.23	\$7,390.92 \$1,491.30 \$2,646.56	\$15,379.96 \$5,566.79 \$9,212.28	\$55,227.93 \$49,527.15 \$51,436.07	
1	Input from O&M Loader Model:							
3	Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses	87.20%	SCG LRMC O&N	/I Loaders				
4	General Plant Loading Factor as a % or O&M expenses	86.83%	SCG LRMC O&N	/I Loaders				
5	Annualized Distribution Customer Related Costs \$000/yr	\$1,807,161	SCG LRMC O&N	/I Loaders				
6								
7	2021-24 Factor: Capital General Plant	0.9874	SCG LRMC O&N	/I Loaders				
8	2021-24 Factor: O&M	1.0809	SCG LRMC O&N	/I Loaders				

SCG 2024 TCAP LRMC Customer Cost/Rental Method RD Format

						Total Retail			South West	
Co	rected	NCCI	EG Tier 1	EG Tier 2	EOR	NonCore	Long Beach	SDG&E	Gas	Vernon
	Marginal Customer Unit Cost @ various LRMC Allocation Methods									
1	Customer Cust \$/Cust/Year Rental Method	\$67,851.57	\$32,230.78	\$207,138.21	\$91,610.84		\$1,174,227.71	\$2,615,750.06	\$789,930.02	\$641,584.88
2	Customer Cost \$/Cust/Year NCO Method	\$25,685.23	\$20,578.04	\$68,605.03	\$34,008.27		\$246,637.98	\$231,542.60	\$305,655.23	\$178,378.16
3	Customer Cost \$/Cust/Year NCO Method w/Replacement Cost	\$33,613.08	\$23,539.61	\$92,284.35	\$42,018.90		\$741,549.32	\$1,503,625.80	\$564,037.87	\$425,520.03

Input from O&M Loader Model:

- 3 Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses
- General Plant Loading Factor as a % or O&M expenses
- 5 Annualized Distribution Customer Related Costs \$000/yr
- 7 2021-24 Factor: Capital General Plant
- 8 2021-24 Factor: O&M

6

SCG 2024 TCAP LRMC Customer Cost/Rental Method RD Format

		Total Whole				SYSTEM	
Cor	rected	sale	Ecogas	UBS	Total Noncore	TOTAL	Sources
	Marginal Customer Unit Cost @ various LRMC Allocation Methods						
1	Customer Cust \$/Cust/Year Rental Method		\$169,574.86	\$0.00			Cust MC
2	Customer Cost \$/Cust/Year NCO Method		\$101,400.99	\$0.00			Cust MC
3	Customer Cost \$/Cust/Year NCO Method w/Replacement Cost		\$137,774.85	\$0.00	\$3,628,587.74		Cust MC

Input from O&M Loader Model:

- 3 Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses
- General Plant Loading Factor as a % or O&M expenses
- 5 Annualized Distribution Customer Related Costs \$000/yr
- 7 2021-24 Factor: Capital General Plant
- 8 2021-24 Factor: O&M

6

SCG 2024 TCAP LRMC Customer Cost/Rental Method

Marginal Unit Costs	Core												Core		Noncore Retail				
510	Residential					Non-Residentia						Non-Residentia	al						
	Single	Multi	Master Meter		Residential	Commercial/Ind						Air	Natural Gas	Gas	G-30 - Noncore	e C&I		Small EG	Large EG
	Family		(up to	(100,001 therms		Very Small -	Small -	Medium -	Large - 50,001	Very Large -									
	(Detached		100,000	per year and		up to 300	301 to 3,000		to 250,000	Over 250,000									
	homes)	Family	therms/year)	greater)	Total or Avg.	therms/year	therms/year	therms/year	therms/year	therms/year	Average	Conditioning	Vehicle	Engine	Distribution	Transmission	Total	< 3million	> 3million
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718	519	19	538	351	21
Marginal Investment: 2021 \$/Customer																			
Meter & House Reg	\$531.64	\$446.14	\$1,715.62	\$23,533.95	\$530.13	\$739.19	\$1,218.74	\$2,427.57	\$8,336.33	\$12,282.84	\$1,378.71	\$5,317.08	\$90,204.04	\$3,377.22	\$139,688.52		\$148,592.75	\$103,881.66	\$916,358.0
Service Lines	\$1,156.49	\$1,241.99	\$11,727.95	\$93,892.86	\$1,406.66	\$8,393.24	\$8,646.46	\$12,753.10	\$51,902.21	\$708,154.59	\$11,009.79		\$88,095.97	\$205,325.53	\$383,335.44		\$410,998.74	\$190,284.47	\$466,096.9
Exclusive Use Facilities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,463.15	\$98,052.27	\$28,026.70	\$0.00	\$320,661.6
Total	\$1,688.13	\$1,688.13	\$13,443.57	\$117,426.80	\$1,936.79	\$9,132.43	\$9,865.20	\$15,180.67	\$60,238.53	\$720,437.43	\$12,388.50	\$84,402.52	\$178,300.01	\$208,702.74	\$548,487.11	***************************************	\$587,618.19	\$294,166.14	\$1,703,116.5
Weighted RECC factors used to annualize SRM capital costs																			
Meter & House Reg	8.65%	8.65%	8.56%	8.48%	8.66%	8.61%	8.61%	8.57%	8.55%	8.56%	8.75%	8.54%	8.46%	8.53%	8.45%	8.46%	8.46%	8.45%	8.45%
Service Lines	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%
Exclusive Use															9.04%	9.04%	9.04%	9.04%	9.04%
Annualized Marginal Investment: \$/Cust.																			
Meter & House Reg Service Lines	\$45.97 \$79.63	\$38.60 \$85.52	\$146.93 \$807.57	\$1,996.05 \$6.465.33	\$45.90 \$96.86	\$63.67 \$577.95	\$104.97 \$595.38	\$207.95 \$878.16	\$712.37 \$3.573.91	\$1,051.23 \$48.762.51	\$120.65 \$758.12	\$453.91 \$5.445.71	\$7,629.65 \$6.066.16	\$288.02 \$14.138.42	\$11,806.87 \$26,395.93	\$25,391.76 \$80.333.40	\$12,566.07 \$28,300.79	\$8,781.40 \$13.102.72	\$77,462.20 \$32.094.77
Exclusive Use Facilities	\$79.63	\$80.02 \$0.00	\$807.57	\$0,400.33 \$0.00	\$96.86	\$577.95	\$0.00	\$878.16	\$3,573.91	\$48,762.51	\$758.12	\$0,445.71	\$0,000.10	\$14,138.42	\$20,395.93	\$80,333.40 \$8.860.38	\$28,300.79	\$13,102.72	\$32,094.77
Total Annualized Marginal Investment: 2024 \$/Cust.	\$125.61	\$124.12	\$954.50	\$8,461,38	\$142.76	\$641.62	\$700.35	\$1,086,11	\$4,286,28	\$49.813.74	\$878.76		\$13,695,81	\$14,426,44	\$40,503,74	\$114.585.53	\$43,399,46	\$21,884,11	\$138,533,1
			,,,,,,,,	70,101100	********		********	¥1,1222111	* 1,=====	¥10,010.0		40,000.00	***	***,	V.11,000	*****	* 10,000.110		***********
O&M: \$/Customer										*****									
Customer Services O&M Cost 2021\$'s \$000/year	\$86,027.90	\$40,203.55	\$2,716.25	\$1.16	\$128,948.87	\$4,326.81	\$4,724.93	\$11,943.44	\$854.96	\$224.45	\$22,074.61	\$0.17	\$83.47	\$96.26	\$0.00	\$0.00 19	\$289.63	\$74.89	\$4.48
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835		245	718	519		538	351	21
Customer Services O&M \$/Customer 2021\$ escalator 2021\$'s to 2024\$'s	\$22.68 1.0809	\$22.68 1.0809	\$22.68 1.0809	\$22.68 1.0809	\$22.68 1.0809	\$48.67 1.0809	\$73.21 1.0809	\$254.07 1.0809	\$411.43 1.0809	\$717.11 1.0809	\$108.83 1.0809	\$19.10 1.0809	\$340.68 1.0809	\$134.07 1.0809	\$0.00 1.0809	\$0.00 1.0809	\$538.34 1.0809	\$213.35 1.0809	\$213.35 1.0809
Customer Services O&M \$/Customer 2024\$	\$24.52	\$24.52	\$24.52	\$24.52	\$24.52	\$52.61	\$79.13	\$274.62	\$444.70	\$775.09	\$117.63	\$20.65	\$368.22	\$144.91	\$581.86	\$581.86	\$581.86	\$230.60	\$230.60
Customer Accounts O&M 2013\$'s \$000/yr	\$53,584.51	\$25,041.73	\$1,691.88	\$0.72	\$80,318.84	\$1,111.27	\$687.44	\$5,977.49	\$163.40	\$117.62	\$8,057.21	\$4.32	\$284.92	\$48.52	\$0.00	\$0.00	\$897.83	\$604.04	\$36.14
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718	519	19	538	351	21
Customer Services O&M \$/Customer 2021\$	\$14.13	\$14.13	\$14.13	\$14.13	\$14.13	\$12.50	\$10.65	\$127.16	\$78.63	\$375.77	\$39.72	\$479.68	\$1,162.94	\$67.57 1.0809	\$0.00	\$0.00	\$1,668.83	\$1,720.92	\$1,720.92
escalator 2021\$'s to 2024\$'s Customer Accounts O&M \$/Customer 2024\$	1.0809 \$15.27	1.0809 \$15.27	1.0809 \$15.27	1.0809 \$15.27	1.0809 \$15.27	1.0809 \$13.51	1.0809 \$11.51	1.0809 \$137.44	1.0809 \$84.99	1.0809 \$406.16	1.0809 \$42.93	1.0809 \$518.46	1.0809 \$1,256.97	1.0809 \$73.04	1.0809	1.0809 \$1.803.76	1.0809 \$1.803.76	1.0809 \$1.860.06	1.0809 \$1,860.06
Customer Accounts O&M \$/Customer 2024\$	\$15.27	\$15.27	\$15.27	\$15.27	\$15.27	\$13.51	\$11.51	\$137.44	\$84.99	\$406.16	\$42.93	\$518.46	\$1,250.97	\$73.04	\$1,803.76	\$1,803.76	\$1,803.76	\$1,800.00	\$1,860.06
Meter & House Reg O&M Total Cost	\$5,587.22	\$2,191.17	\$569.29	\$3.33	\$8,351.00	\$3.05	\$3.66	\$5.30	\$0.81	\$0.18	\$13.00	\$0.00	\$0.00	\$0.00			\$62.00	\$513.00	\$61.00
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718	519	19	538	351	21
Customer Services O&M \$/Customer 2021\$	\$1.47	\$1.24	\$4.75	\$65.21	\$1.47	\$0.03	\$0.06	\$0.11	\$0.39	\$0.57	\$0.06	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$115.24	\$1,461.54	\$2,904.76
escalator 2021\$'s to 2024\$'s	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809
Meter & House Reg O&M \$/Customer 2024\$	\$1.59	\$1.34	\$5.14	\$70.49	\$1.59	\$0.04	\$0.06	\$0.12	\$0.42	\$0.62	\$0.07	\$0.00	\$0.00	\$0.00	\$124.56	\$124.56	\$124.56	\$1,579.71	\$3,139.62
Total Service																			
Line Footage	231,707,635	58,800,895	11,613,724	14,016	302,136,270	12,721,655	6,951,318	6,611,352	562,372	116,057	26,962,754	250	60,700	625,863	104,645	16,542	121,188	46,579	16,273
Percent of	201,101,000	00,000,000	11,010,124	14,010	002,100,210	12,721,000	0,001,010	0,011,002	002,012	110,001	20,002,704	1 200	00,700	020,000	104,040	10,042	121,100	40,070	10,210
Total Footage	70 23%	17.82%	3.52%	0.00%	91.57%	3 86%	2 11%	2 00%	0.17%	0.04%	8 17%	0.00%	0.02%	0.19%	0.03%	0.01%	0.04%	0.01%	0.00%
Allocated SL O&M Costs \$000	\$31,820	\$8,075	\$1,595	\$2	\$41,492	\$1,747	\$955	\$908	\$77	\$16	\$3,703	\$0	\$8	\$86	\$14	\$2	\$17	\$6	\$2
escalator 2021\$'s to 2024\$'s	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809
Allocated SL O&M Costs 2024\$'s	\$34,393	\$8,728	\$1,724	\$2	\$44,847	\$1,888	\$1,032	\$981	\$83	\$17	\$4,002	\$0	\$9	\$93	\$16	\$2	\$18	\$7	\$2
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718	519	19	538	351	21
Service Lines O&M \$/Customer 2024\$	\$9.07	\$4.92	\$14.40	\$40.79	\$7.89	\$21.24	\$15.99	\$20.88	\$40.17	\$55.04	\$19.73	\$4.12	\$36.78	\$129.39	\$29.93	\$129.23	\$33.44	\$19.70	\$115.02
Customer Service & Information Cost (CSI) Costs Accounts (FERC Ac	counts 907 to 91	10):																	
2021 Number of Customers	3.792.575	1.772.390	119.747	51	5.684.763	88.897	64.539	47.008	2.078	313	202.835	9	245	718	519	19	538	351	21
Customer Services & Information O&M \$/Customer 2021\$	\$3.49	\$3.49	\$3.49	\$3.49	\$3.49	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$77.38	\$0.00	\$12,459.35	\$0.00	\$0.00	\$0.00	\$5.887.41	\$72.96	\$18,175.54
escalator 2021\$'s to 2024\$'s	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809
Customer Accounts O&M \$/Customer 2024\$	\$3.78	\$3.78	\$3.78	\$3.78	\$3.78	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$83.64	\$0.00	\$13,466.72	\$0.00	\$0.00	\$0.00	\$6,363.42	\$78.86	\$19,645.09
Total Direct O&M \$/customer/yr	\$54.23	\$49.83	\$63.10	\$154.85	\$53.04	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$264.00	\$543.23	\$15,128.69	\$347.34	\$2,540.11	\$2,639.42	\$8,907.04	\$3,768.92	\$24,990.39
O&M Loaders: \$/Customer															1				
Administrative & General as % of O&M	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%
Administrative & General \$/customer/yr 2024\$'s	\$47.29	\$43.45	\$55.02	\$135.03	\$46.25	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$230.21	\$473.70	\$13,192.38	\$302.88	\$2,215.01	\$2,301.60	\$7,767.04	\$3,286.54	\$21,791.90
						1						1			1				
General Plant as % of O&M	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%
General Plant \$/customer/yr 2024\$'s	\$47.09	\$43.26	\$54.79	\$134.46	\$46.06	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$229.24	\$471.69	\$13,136.45	\$301.60	\$2,205.61	\$2,291.84	\$7,734.11	\$3,272.61	\$21,699.50
Materials & Supplies Loader:						1						1			1				
Per Customer Direct+A&G+GP O&M \$/customer/yr	\$148.60	\$136.54	\$172.91	\$424.33	\$145.35	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$723.45	\$1,488.62	\$41,457.51	\$951.81	\$6,960.73	\$7,232.86	\$24,408.19	\$10,328.08	\$68,481.7
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718	519	19	538	351	21
Total Direct+A&G+GP O&M \$000/yr	\$563,570	\$242,003	\$20,706	\$22	\$826,300	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$146,742	\$13	\$10,157	\$683	\$3,613	\$137	\$13,132	\$3,625	\$1,438
Percent of Total	56.12%	24.10%	2.06%	0.00%	82.29%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	14.61%	0.00%	1.01%	0.07%	0.36%	0.01%	1.31%	0.36%	0.14%
Allocated M&S \$1,807,161.19	\$1,014,231	\$435,521	\$37,264	\$39	\$1,487,055	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$264,085	\$24	\$18,279	\$1,230	\$6,501	\$247	\$23,632	\$6,524	\$2,588
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718	519	19	538	351	21
M&S Loader \$/customer/yr 2024\$s	\$0.27	\$0.25	\$0.31	\$0.76	\$0.26	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$1.30	\$2.68	\$74.61	\$1.71	\$12.53	\$13.02	\$43.93	\$18.59	\$123.24
					****	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$460.75	\$948.07	\$26,403.43	\$606.19	\$4,433,15	\$4,606,46	\$15,545,07	\$6,577,74	\$43,614,64
Total O&M Loaders \$/customer/yr	\$94.64	\$86.96	\$110.13	\$270.25	\$92.57	#DIV/0!	#DIV/0!	#DIV/0:	#DIV/0:	#DIV/U:	\$460.75	\$948.07	\$26,403.43	\$606.19	\$4,433.15	\$4,606.46	\$15,545.07	\$0,577.74	\$40,014.04
Total O&M Loaders \$/customer/yr LRMC Rental Customer Cost \$/customer/year	\$94.64 \$274.47	\$86.96 \$260.90	\$110.13	\$8,886.47	\$288.38	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		\$7,390.92				\$121,831.41			

Marginal Unit Costs		Noncore Wholesal						1		
\$10							Total O&M Cost			
	EOR	Wholesale				International	for All			
	G-40	LB	SDG&E	SWG	Vernon	Ecogas	Customers			
2021 Number of Customers	30	1	1	1	1	1	5,889,515	cust 2		
Marginal Investment: 2021 \$/Customer										
Meter & House Reg Service Lines	\$403,486.95 \$274,177.59	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		cust 5 cust 5		
Exclusive Use Facilities	\$51,163.67	\$10,265,059.48	\$26,384,543.35	\$5,359,168.35	\$5,126,021.11	\$754,437.82		cust 6		
Total	\$728,828.22	\$10,265,059.48	\$26,384,543.35	\$5,359,168.35	\$5,126,021.11	\$754,437.82				
Weighted RECC factors used to annualize SRM capital costs										
Meter & House Reg Service Lines	8.45% 6.89%	0 6.89%	0 6.89%	0 6.89%	0 6.89%	0 6.89%		cust 10 cust 10		
Exclusive Use	9.04%	9.04%	9.04%	9.04%	9.04%	9.04%		cust 10		
Annualized Marginal Investment: \$/Cust.										
Meter & House Reg Service Lines	\$34,099.74 \$18.879.48	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00				
Exclusive Use Facilities	\$4,623.34	\$927,589.73	\$2,384,207.47	\$484,274.79	\$463,206.72	\$68,173.86				
Total Annualized Marginal Investment: 2024 \$/Cust.	\$57,602.56	\$927,589.73	\$2,384,207.47	\$484,274.79	\$463,206.72	\$68,173.86	1			
O&M: \$/Customer										
Customer Services O&M Cost 2021\$'s \$000/year	\$1.50 30	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$151,573.87	cust 8		
2021 Number of Customers Customer Services O&M \$/Customer 2021\$	\$50.03	1 \$0.00	1 \$0.00	1 \$0.00	1 \$0.00	1 \$0.00	5,889,515 \$25,74	cust 2		
escalator 2021\$'s to 2024\$'s	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	Loader Model		
Customer Services O&M \$/Customer 2024\$	\$54.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.82			
Customer Accounts O&M 2013\$'s \$000/yr	\$50.90	\$6.53	\$5.09	\$10.86	\$3.64	\$2.92	\$90,331.76	cust 8		
2021 Number of Customers Customer Services O&M \$/Customer 2021\$	30 \$1,696.63	1 \$6,530.71	1 \$5,087.00	1 \$10,861.85	1 \$3,643.28	1 \$2,921.42	5,889,515 \$15.34	cust 2		
escalator 2021\$'s to 2024\$'s	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	Loader Model		
Customer Accounts O&M \$/Customer 2024\$	\$1,833.81	\$7,058.74	\$5,498.30	\$11,740.07	\$3,937.85	\$3,157.63	\$16.58			
Meter & House Reg O&M Total Cost	\$42.00	\$8.00	\$8.00	\$17.00	\$1.00	\$1.00	\$9,077.00	cust 8		
2021 Number of Customers Customer Services O&M \$/Customer 2021\$	30 \$1.400.00	1 \$8.000.00	1 \$8.000.00	1 \$17,000.00	1 \$1,000.00	1 \$1.000.00	5,889,515 \$1.54	cust 2		
escalator 2021\$'s to 2024\$'s	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	Loader Model		
Meter & House Reg O&M \$/Customer 2024\$	\$1,513.19	\$8,646.82	\$8,646.82	\$18,374.50	\$1,080.85	\$1,080.85	\$1.67			
Total Service										
Line Footage	11.667	0	0	0	0	0	329,934,966	cust 8		
Percent of										
Total Footage Allocated SL O&M Costs \$000	0.00%	0.00% \$0	0.00% \$0	0.00%	0.00%	0.00%	100.00% \$45.310	cust 8		
escalator 2021\$'s to 2024\$'s	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	Loader Model		
Allocated SL O&M Costs 2024\$'s	\$2	\$0	\$0 1	\$0	\$0	\$0 1	\$48,973		\$0	\$0
2021 Number of Customers Service Lines O&M \$/Customer 2024\$	30 \$57.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	5,889,515 \$8.32	cust 2		
								1		
Customer Service & Information Cost (CSI) Costs Accounts (FERC 2021 Number of Customers	30	1	1	1	1	1	5,889,515			
Customer Services & Information O&M \$/Customer 2021\$	\$8,261.26	\$68,590.22	\$64,946.55	\$75,148.83	\$55,473.00	\$30,252.33	\$7.26	\$0.00		\$0.00
escalator 2021\$'s to 2024\$'s Customer Accounts O&M \$/Customer 2024\$	1.0809	1.0809 \$74,135.95	1.0809 \$70,197.67	1.0809	1.0809	1.0809	1.0809 \$7.84	Loader Model		
Sabana / Sabana Sam Gradania 252-4	00,020.20	014,100.00	070,107.07	001,224.04	1 400,000.10	002,000.02	Ų1.54	1		
Total Direct O&M \$/customer/yr	\$12,388,01	\$89.841.51	\$84.342.79	\$111.339.41	\$64.976.87	\$36,936,80	\$62.22	1		
		,		, , , , , , , , , , , , , , , , , , , ,	,	,		1		
O&M Loaders: \$/Customer Administrative & General as % of O&M	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	cust 4. a&q		
Administrative & General \$/customer/yr 2024\$'s	\$10,802.48	\$78,342.78	\$73,547.84	\$97,089.18	\$56,660.54	\$32,209.30	\$54.26			
General Plant as % of O&M	86 83%	86 83%	86 83%	86.83%	86.83%	86 83%	86.83%	cust 4, gen plan	nt	
General Plant \$/customer/yr 2024\$'s	\$10,756.68	\$78,010.63	\$73,236.01	\$96,677.55	\$56,420.31	\$32,072.74	\$54.02	ouot 4, gon pian		
Materials & Supplies Loader:										
Per Customer Direct+A&G+GP O&M \$/customer/yr	\$33,947.18	\$246,194.92	\$231,126.65	\$305,106.14	\$178,057.72	\$101,218.83				
2021 Number of Customers Total Direct+A&G+GP O&M \$000/yr	30 \$1,018	1 \$246	1 \$231	1 \$305	1 \$178	1 \$101	5,889,515 \$1,004,171.13	cust 2		
Percent of Total	0.10%	0.02%	0.02%	0.03%	0.02%	0.01%	100.00%	1		
Allocated M&S \$1,807,161.19 2021 Number of Customers	\$1,833 30	\$443	\$416 1	\$549 1	\$320	\$182 1	\$1,807,161.19	Loader Model		
2021 Number of Customers M&S Loader \$/customer/yr 2024\$s	\$61.09	\$443.07	\$415.95	\$549.09	\$320.44	1 \$182.16	5,889,515 \$0.31	cust 2		
		\$156,796.47		\$194,315.82	\$113,401.29	\$64,464.19	\$108.59	4		
Total O&M Loaders \$/customer/yr	\$21,620.26		\$147,199.80					1		
LRMC Rental Customer Cost \$/customer/year	\$91,610.84	\$1,174,227.71	\$2,615,750.06	\$789,930.02	\$641,584.88	\$169,574.86	\$170.81	1		

SCG 2024 TCAP LRMC Customer Cost/Rental Method

Marginal Unit Costs	Core												Core		Noncore Reta	1			
10	Residential					Non-Residentia	al					Non-Resident			Noncore Reta				
U .	Single	Multi	Master Meter	1	Residential	Commercial/Inc						Δir	Natural Gas	Gas	G-30 - Noncor	n C81		Small EG	Large EG
	Family	muiu	(up to	(100.001 therms	recordential	Very Small -	Small -	Medium -	Large - 50.001	Very Large -		1 ''''	Tradarar Gas	000	0 00 11011001	o oui		1 0	Luigo Lo
	(Detached		100,000	per year and		up to 300	301 to 3.000			Over 250.000									
	homes)	Family.	therms/year)	greater)	Total or Avg.	therms/year	therms/vear	therms/year	therms/year	therms/year		0 4/4/ /	Vehicle	Engine	Distribution	Transmission	Total	< 3million	> 3million
	Hornes)	Family	tilelilis/year)	greater)	rotal or Avg.	uleillis/year	u leitiis/year	i i e i i i s/yeai	uleillis/year	uleillis/yeal	Average	Conditioning	venicie	Engine	Distribution	Transmission	Total	< amilion	> 3million
Total Rental Capital (\$000) before RECC		1	1	1	\$11,010,181	\$811,845	\$636,690	\$713,613	\$125,176	\$225,497		\$760	\$43,684	\$149,849	\$284,665	\$29,734	\$316,139	\$103,252	\$35,765
NCO Method:																			
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718	519	19	538	351	21
New Hookups Rate	0.54%	0.70%	0.19%	0.00%	0.59%	0.77%	0.72%	0.59%	0.35%	0.30%	0.70%	0.00%	3.67%	1.81%	0.19%	0.00%	0.18%	19.20%	0.00%
No of New Customer Hookups /year	20,562	12,479	233	0	33,262	685	462	277	7	1	1,430	0	9	13	1	0	1	10	0
Marginal Investment: \$/Customer																			
Meter & House Rea	\$531.64	\$446.14	\$1.715.62	\$23,533,95	\$530.13	\$739.19	\$1,218,74	\$2,427.57	\$8.336.33	\$12,282,84	\$1 378 71	\$5.317.08	\$90,204.04	\$3,377.22	\$139,688,52	\$300 242 92	\$148.592.75	\$103 881 66	\$916 358 0
Service Lines	\$1,156,49	\$1.241.99	\$11.727.95	\$93.892.86	\$1.406.66	\$8.393.24	\$8,646,46	\$12,753,10	\$51.902.21	\$708.154.59	\$11,009,79	\$79.085.45		\$205.325.53	\$383,335,44	#############		\$190,284,47	\$466.096.9
Exclusive Use Facilities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,463,15	\$98.052.27	\$28,026,70	\$0.00	\$320,661.6
Total Marginal Investment \$/customer	\$1,688.13	\$1,688.13	\$13,443.57	\$117,426.80	\$1,936.79	\$9,132.43	\$9,865.20	\$15,180.67	\$60,238.53	\$720,437.43	\$12,388.50	\$84,402.52	\$178,300.01	\$208,702.74	\$548,487.11	***********	\$0.00	\$294,166.14	\$1,703,116.
Weighted PVRR for Meter & House Reg	121.48%	121.52%	121.63%	121.93%	121.45%	121.53%	121.50%	121.62%	121.63%	121.58%	121.18%	121.67%	122.04%	121.72%	122.07%	122.05%	122.05%	122.06%	122.06%
PVCC for Service Lines	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%
PVRR:																			
Meter & House Reg \$/customer	\$645.85	\$542.14	\$2,086.66	\$28,694.66	\$643.85	\$898.30	\$1,480.78	\$2,952.32	\$10,139.17	\$14,933.84	\$1,670.71	\$6,469.48	\$110,085.50	\$4,110.79	\$170,515.42	\$366,435.20	\$181,354.26	\$126,801.65	\$1,118,539
Service Lines \$/customer	\$1,411.96	\$1,516.35	\$14,318.73	\$114,634.45	\$1,717.40	\$10,247.36	\$10,556.52	\$15,570.35	\$63,367.77	\$864,590.90	\$13,441.93	\$96,555.98			\$468,016.93		\$501,791.24	\$232,319.65	\$569,061.0
PVRR of Hookup Cost \$/customer	\$2,057.81	\$2,058.49	\$16,405.39	\$143,329.10	\$2,361.25	\$11,145.67	\$12,037.30	\$18,522.67	\$73,506.94	\$879,524.75	\$15,112.64		\$217,642.48	\$254,794.17	\$638,532.35			\$359,121.30	\$1,687,600.
Total PVRR of Hookup Cost for Class \$'s	\$42,312,213	\$25,687,597	\$3,823,853	\$0	\$78,540,536	\$7,639,840	\$5,566,074	\$5,137,896	\$541,178	\$831,696	\$21,607,277	\$0	\$1,958,782	\$3,312,324	\$620,596	\$0	\$663,416	\$3,591,213	\$0
PVRR of Hookup Cost \$/customer	\$11.16	\$14.49	\$31.93	\$0.00	\$13.82	\$85.94	\$86.24	\$109.30	\$260.43	\$2,657.17	\$106.53	\$0.00	\$7,995.03	\$4,613.26	\$1,195.75	\$0.00	\$1,233.11	\$10,231.38	\$0.00
O&M Cost w/Loaders \$/Cust.			****																
Total Direct O&M	\$54.23	\$49.83	\$63.10	\$154.85	\$53.04	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$264.00	\$543.23	\$15,128.69	\$347.34	\$2,540.11	\$2,639.42	\$8,907.04	\$3,768.92	\$24,990.39
Total O&M Loaders \$/customer/yr	\$94.64	\$86.96	\$110.13	\$270.25	\$92.57	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$460.75	\$948.07	\$26,403.43	\$606.19	\$4,433.15	\$4,606.46	\$15,545.07	\$6,577.74	\$43,614.64
LRMC NCO Customer Cost \$/customer/year	\$160.02	\$151.28	\$205.16	\$425.09	\$159.43	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$831.28	\$1,491.30	\$49,527.15	\$5,566.79	\$8,169.01	\$7,245.87	\$25,685.23	\$20,578.04	\$68,605.03
NCO w/ Replacement Cost Adder																			
Marginal Investment: Meter & House Reg \$/Customer	\$531.64	\$446.14	\$1,715.62	\$23,533.95	\$530.13	\$739.19	\$1,218.74	\$2,427.57	\$8,336.33	\$12,282.84	\$1,378.71	\$5,317.08	\$90,204.04	\$3,377.22	\$139,688.52		\$148,592.75	\$103,881.66	\$916,358.0
Service Lines Replacement Cost	\$5,453.11	\$5,153.21	\$10,801.80	\$83,525.70	\$5,472.98	\$7,771.50	\$7,831.55	\$11,100.74	\$60,204.80	\$514,112.53	\$9,880.69	\$57,195.30	\$88,369.78	\$196,578.35	\$316,997.27	\$880,789.46	\$336,908.15	\$150,084.47	\$341,323.9
Exclusive Use Facilities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,463.15	\$98,052.27	\$28,026.70	\$0.00	\$320,661.6
Total	\$1,688.13	\$1,688.13	\$13,443.57	\$117,426.80	\$1,936.79	\$9,132.43	\$9,865.20	\$15,180.67	\$60,238.53	\$720,437.43	\$12,388.50		\$178,300.01	\$208,702.74	\$548,487.11	***********	\$0.00	\$294,166.14	\$1,703,116.
Weighted PVRR for Meter & House Reg	121.48%	121.52%	121.63%	121.93%	121.45%	121.53%	121.50%	121.62%	121.63%	121.58%	121.18%	121.67%	122.04%	121.72%	122.07%	122.05%	122.05%	122.06%	122.06%
PVCC for Service Lines	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%
PVCC for Exclusive Use Facilities (Meters)															121%	121%	121%	121%	121%
Weighted Replacement Factor for Meter & House Reg	1.88%	1.64%	1.78%	0.73%	1.96%	1.93%	2.08%	1.82%	1.95%	2.09%	2.75%	1.75%	0.27%	1.54%	0.25%	0.16%	0.24%	0.18%	0.18%
Replacement Factor for Service Lines	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Replacement Factor for Exclusive Use Facilities															4.00%	4.00%	4.00%	4.00%	4.00%
Meter & House Reg, Replacement	\$12.13	\$8.87	\$37.04	\$208.34	\$12.60	\$17.37	\$30.85	\$53.77	\$197.90	\$312.28	\$45.90	\$113.02	\$298.60	\$63.34	\$422.13	\$583.86	\$437.29	\$226.66	\$1,999.43
Service Lines, Replacement	\$99.37	\$93.90	\$196.84	\$1,522.05	\$99.73	\$141.62	\$142.71	\$202.28	\$1,097.08	\$9,368.41	\$180.05	\$1,042.24	\$1,610.32	\$3,582.15	\$5,776.48	\$16,050.18	\$6,139.31	\$2,734.91	\$6,219.77
Exclusive Use Facilities, Replace						1						1			\$1,227,66	\$4,727,41	\$1,351,26	\$0.00	\$15,460,12
Replacement Adder \$/Customer	\$111.50	\$102.77	\$233.88	\$1.730.38	\$112.33	\$158.98	\$173.56	\$256.06	\$1,294,98	\$9.680.69	\$225.95	\$1,155,26	\$1.908.92	\$3.645.49	\$7,426,27	\$21.361.45	\$7.927.85	\$2.961.58	\$23,679.32
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NCO w/o Repl Cost \$/Cust/yr	\$160.02	\$151.28	\$205.16	\$425.09	\$159.43	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$831.28	\$1,491.30	\$49,527.15	\$5,566.79	\$8,169.01	\$7,245.87	\$25,685.23	\$20,578.04	\$68,605.03
NCO w/ Repl Cost; \$/Cust/vr.	\$271.52	\$254.05	\$439.04	\$2,155,48	\$271.76	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$1.057.23	\$2,646,56	\$51,436,07	\$9,212.28	\$15,595,28	\$28,607,33	\$33,613,08	\$23,539,61	\$92,284,35

ginal Unit Costs	-	Noncore Wholesa	le					1
							Total O&M Cost	
	EOR	Wholesale				International	for All	
	G-40	LB	SDG&E	swg	Vernon	Ecogas	Customers	
Total Rental Capital (\$000) before RECC	\$21,865	\$10,265	\$26,385	\$5,359	\$5,126	\$754		\$14,556
	*=-,	, v,	, ,,	, ,,,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1,
NCO Method:								
2021 Number of Customers	30	1	1	1	1	1	5,889,515	cust 2
New Hookups Rate	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
No of New Customer Hookups /year	0	0	0	0	0	0	34,725	
Marginal Investment: \$/Customer								
Meter & House Reg	\$403,486.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5
Service Lines Exclusive Use Facilities	\$274,177.59 \$51,163.67	\$0.00	\$0.00 \$26,384,543.35	\$0.00 \$5,359,168.35	\$0.00 \$5,126,021.11	\$0.00 \$754,437.82		cust 5 cust 6, cus
Total Marginal Investment \$/customer	\$728.828.22			\$5,359,168.35	\$5,126,021.11	\$754,437.82		cusi o, cus
Total Warginal Investment occusioner	\$120,020.22	\$10,200,009.40	\$20,304,343.33	\$5,359,100.35	\$5,120,021.11	\$134,431.02		
Weighted PVRR for Meter & House Reg	122.07%							cust 10
PVCC for Service Lines	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%		2013 REC
PVRR:								
Meter & House Reg \$/customer	\$492,548.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
Service Lines \$/customer	\$334,745.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
PVRR of Hookup Cost \$/customer Total PVRR of Hookup Cost for Class \$'s	\$827,293.82 \$0	\$0.00 \$0	\$0.00 \$0	\$0.00 \$0	\$0.00 \$0	\$0.00 \$0		
PVRR of Hookup Cost \$/customer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		-
T VICE OF HOOKED GOOD GOOD COME	\$0.00	\$0.00	\$0.00	\$0.00	ψυ.υυ	\$0.00		1
O&M Cost w/Loaders \$/Cust.								
Total Direct O&M	\$12,388,01	\$89.841.51	\$84.342.79	\$111,339,41	\$64.976.87	\$36,936.80		
Total O&M Loaders \$/customer/yr	\$21,620.26	\$156,796.47	\$147,199.80	\$194,315.82	\$113,401.29	\$64,464.19		
·								
LRMC NCO Customer Cost \$/customer/year	\$34,008.27	\$246,637.98	\$231,542.60	\$305,655.23	\$178,378.16	\$101,400.99		-
NCO w/ Replacement Cost Adder								
Marginal Investment: Meter & House Reg \$/Customer	\$403,486,95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5
Service Lines Replacement Cost	\$266,167,05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5
Exclusive Use Facilities	\$51.163.67	\$10.265.059.48	\$26.384.543.35	\$5.359.168.35	\$5.126.021.11	\$754.437.82		cust 6. cus
Total		\$10,265,059.48	\$26,384,543.35	\$5,359,168.35	\$5,126,021.11	\$754,437.82		cust 6, cus
1000	\$1 E0,0E0.EE	¢10,200,000.40	\$20,004,040.00	\$0,000,100.00	\$0,120,021.11	\$104,401.0E		
Weighted PVRR for Meter & House Reg	122.07%							cust 10
PVCC for Service Lines	122%						П	2013 REC
PVCC for Exclusive Use Facilities (Meters)	121%	121%	121%	121%	121%	121%		
Weighted Replacement Factor for Meter & House Reg	0.14%							cust 10
Replacement Factor for Service Lines	1.5%							1
Replacement Factor for Exclusive Use Facilities	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%		cust 10
Meter & House Reg, Replacement	\$693.64							
Service Lines, Replacement	\$4,850.23							
Exclusive Use Facilities, Replace	\$2,466.76	\$494,911.34	\$1,272,083.20	\$258,382.64	\$247,141.87	\$36,373.86		
Replacement Adder \$/Customer	\$8,010.63	\$494,911.34	\$1,272,083.20	\$258,382.64	\$247,141.87	\$36,373.86]
NCO w/o Repl Cost \$/Cust/yr	\$34,008.27	\$246,637.98	\$231,542.60	\$305,655.23	\$178,378.16	\$101,400.99	 	4
NCO w/ Repl Cost: \$/Cust/yr.	\$42,018.90	\$741,549.32	\$1,503,625.80	\$564,037.87	\$425,520.03	\$137,774.85	11	1

Tab = cust MUC

								Core							
				Residential							Non-Reside	ential			
		Single	Multi	Master	Meter	Residential			G-10)			Gas Air	Natrual Gas	Gas
		Family	Family	Small	Large	Total	Very Small	Small	Medium	Large	Very Large	Total	Conditioning	Vehicle	Engine
ſ	2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718

							Noncor	e						
			Non-Residential											
			G-30 Small Large EOR Wholesale International C									Over All		
		Distribution	Transmission	Total	EG	EĞ	G-40	LB	SDG&E	SWG	Vernon	Mexacali	Rosarito	Customers
ſ	2021 Number of Customers	519	19	538	351	21	30	1	1	1	1	1	0	5,889,515

S10

1) Residential Segmentation

1a) Segmentation of Residential Total Customer Counts into Bands

			Residential		
	Single	Multi	Master	Meter	
	Family	Family	Small	Large	Total
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763
Percent of Total	67%	31%	2%	0%	100%

values from 'Number of Customers', cust 2 tab

1b) Segmentation of Residential Meter, Regulator & MSA Investment Costs into Bands

			Residential		
	Single	Multi	Master	Meter	
	Family	Family	Small	Large	Total
Per Cust. Meter, Reg. & MSA Investment	\$531.64	\$446.14	\$1,715.62	\$23,533.95	
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763
Total Meter, Reg. & MSA Investment	\$2,016,281,008	\$790,734,870	\$205,440,502	\$1,200,231	\$3,013,656,611
Percent of Total Meter, Reg. & MSA Investment	67%	26%	7%	0%	100%

note: used to segment Meters, Regulators & MSAs O&M Costs values from 'Investment Meters, REGs', cust 5 tab

2) G10 Segmentation 2a) Segmentation of G-10 Total Customer Counts into Bands

			G-1	10		
	Very Small	Small	Medium	Large	Very Large	Total
2021 Number of Customers	88,897	64,539	47,008	2,078	313	202,835
Percent of Total	44%	32%	23%	1%	0%	100%

values from 'Number of Customers', cust 2 tab

2b) Segmentation of G-10 Meter, Regulator & MSA Investment Costs into Bands

			G-′	10		
	Very Small	Small	Medium	Large	Very Large	Total
Per Cust. Meter, Reg & MSA Investment	\$739.19	\$1,218.74	\$2,427.57	\$8,336.33	\$12,282.84	
2021 Number of Customers	88,897	64,539	47,008	2,078	313	202,835
Total Meter, Reg & MSA Investment	\$65,711,720	\$78,656,410	\$114,114,980	\$17,322,887	\$3,844,529	\$279,650,527
Percent of Total Meter, Reg & MSA Investment	23%	28%	41%	6%	1%	100%

note: used to segment Meters, Regulators & MSAs O&M Costs values from 'Investment Meters, REGs', cust 5 tab

3) G 30 Segmentation 3a) Segmentation of G-30 total customer counts by Service Level

		G-30	
	Distribution	Transmission	Total
2021 Number of Customers	519	19	538
Percent of Total	96%	4%	100%

values from 'cust 2' tab

3b) Allocation of G-30 Total Big GEMS Costs by Service Level

			G-30	
		Distribution	Transmission	Total
Meter/Reg Investment Cost Per Customer	2013 \$s	\$139,688.52	\$300,242.92	
2021 Number of Customers		519	19	538
Total Cost	2013 \$s	\$72,498,342	\$5,704,615	\$78,202,957
Percent of Total Cost		93%	7%	100%

note: used to segment Meters, Regulators & MSAs O&M Costs values from 'Investment Meters, REGs', cust 5 tab

SCG 2024 TCAP LRMC Customer Cost Average Per Customer Investment in Meters & Regulators by Customer Class

S10

310	Core														
									Core						
				Residentia							Non-Residential				
		Single	Multi	Maste	r Meter	Residential			G		Gas Air	Natrual Gas	Gas		
Investment Per Customer:		Family	,	Small	Large	Average	Very Small	Small	Medium	Large	Very Large	Average	Conditioning	Vehicle	Engine
Meter, Reg.	2021 \$s	\$508.61 \$426.81 \$1,641.30 \$22,514.50 \$507.16			\$507.16	\$707.17	\$1,165.95	\$2,322.41	\$7,975.21	\$11,750.77	\$1,318.99	\$5,086.75	\$86,296.57	\$3,230.92	
Meter, Reg.				\$530.13	\$739.19	\$1,218.74	\$2,427.57	\$8,336.33	\$12,282.84	\$1,378.71	\$5,317.08	\$90,204.04	\$3,377.22		
Total		\$531.64	\$446.14	\$1,715.62	\$23,533.95	\$530.13	\$739.19	\$1,218.74	\$2,427.57	\$8,336.33	\$12,282.84	\$1,378.71	\$5,317.08	\$90,204.04	\$3,377.22

For Res and Non-Residential G10 customers we multiply 5 yr average meter size and pressure type combination for new customers per class times unit cost for each associated combination. For other classes we multiply average meter size and pressure type combination for all customers per class times unit cost for each associated combination.

Average Per Customer Investment in Service Lines by Customer Class

									Core						
				Residentia							Non-Residential				
		Single	Multi	Maste	r Meter	Residential			G	-10			Gas Air	Natrual Gas	Gas
Investment Per C	nvestment Per Customer:		Family	Small	Large	Average	Very Small	Small	Medium	Large	Very Large	Average	Conditioning	Vehicle	Engine
Service Lines	2021 \$s	\$1,106.39	\$1,188.19	\$11,219.91	\$89,825.59	\$1,345.73	\$8,029.66	\$8,271.91	\$12,200.66	\$49,653.90	\$677,478.66	\$10,532.87	\$75,659.61	\$84,279.82	\$196,431.21
Service Lines				11,727.95	93,892.86	1,406.66	8,393.24	8,646.46	12,753.10	51,902.21	708,154.59	11,009.79	79,085.45	88,095.97	205,325.53
Total 1,156.49 1,241.99 11,727.95 93,892.86 1,406					4 400 00	0.202.24	0.040.40	40.750.40	54 000 04	700 454 50	11.009.79	70.005.45	00 005 07	205 225 52	
Total		1,106.49	1,241.99	11,727.95	93,892.86	1,406.66	8,393.24	8,646.46	12,753.10	51,902.21	708,154.59	11,009.79	79,085.45	88,095.97	205,325.53

formerly tabs: 'Investment Meter, Reg' and 'Investment Service Lines'
For residential and non-residential G10 customers we multiply Ken's 5 yr average footage, pipe type, pipe size configuration per class times Distribution Managers' cost per foot each associated configuration.
For other classes we multiply average footage, pipe type and pipe size combination for all customers per class times unit cost for each associated combination.

Service Lines Renlacement Costs

Service Lines Repla	acement costs														
									Core						
				Residential							Non-Residential				
		Single	Multi	Master	Meter	Residential			G-	-10			Gas Air	Natrual Gas	Gas
Investment Per Customer: Family Family Small Large						Average	Very Small	Small	Medium	Large	Very Large	Average	Conditioning	Vehicle	Engine
Service Lines Replac	ceme 2021 \$s	5,216.89	4,929.98	10,333.89	79,907.52	5,235.90	7,434.85	7,492.30	10,619.88	57,596.84	491,842.14	9,452.68	54,717.70	84,541.76	188,062.95
					5,472.98	7,771.50	7,831.55	11,100.74	60,204.80	514,112.53	9,880.69	57,195.30	88,369.78	196,578.35	
Total 5,453.11 5,153.21 10,801.80 83,525.70 5,472.9					5,472.98	7,771.50	7,831.55	11,100.74	60,204.80	514,112.53	9,880.69	57,195.30	88,369.78	196,578.35	

SCG 2024 TCAP LRMC Customer Cost Average Per Customer Investment in

S10

510														
							Noncore							
							Non-Resident	ial						Total
					<3 Million									1
			G-30 SM. COGEN >3 Million EG EOR Wholesale International											
Investment Per C	ustomer:	Distribution	Transmission	Average	G-50	G-50	G-40	LB	SDG&E	SWG	Vernon	DGN	Rosarito	Customers
Meter, Reg.	2021 \$s	\$133,637.47	\$287,236.96	\$142,155.99	\$99,381.70	\$876,663.09	\$386,008.65	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Meter, Reg.	2024 \$s	\$139,688.52	\$300,242.92	\$148,592.75	\$103,881.66	\$916,358.01	\$403,486.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Total		\$139,688.52	\$300,242.92	\$148,592.75	\$103,881.66	\$916,358.01	\$403,486.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

For Res and Non-Residential G10 custo For other classes we multiply average n

Average Per Customer Investment in Service Lines by Customer Class

							Noncore							
							Non-Resident	al						Total
			G-30		SM. COGEN	EG	EOR		Wh	olesale		Interna	ational	Over All
Investment Per Cu	istomer:	Distribution	Transmission	Average	G-50	G-50	G-40	LB	SDG&E	SWG	Vernon	DGN	Rosarito	Customers
Service Lines	2021 \$s	\$366,730.07	\$1,116,106.66	\$393,195.04	\$182,041.71	\$445,906.52	\$262,300.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Service Lines				410,998.74	190,284.47	466,096.97	274,177.59	0.00	0.00	0.00	0.00	0.00	0.00	
Total		383,335.44	410,998.74	190,284.47	466,096.97	274,177.59	0.00	0.00	0.00	0.00	0.00	0.00	1 1	

formerly tabs: 'Investment Meter, Reg' & For residential and non-residential G10 For other classes we multiply average for

Service Lines Replacement Costs

Service Lines Rep	iacement costs															
							Noncore									
							Non-Residenti	al						Total		
			G-30 SM. COGEN EG EOR Wholesale International													
Investment Per Cu	istomer:	Distribution Transmission Average G-50 G-50 G-40 LB SDG&E SWG Vernon DGN Rosarito												Customers		
Service Lines Repla	aceme 2021 \$s	303,265.54	842,635.30	322,313.92	143,583.09	326,538.45	254,637.19	0.00	0.00	0.00	0.00	0.00	0.00			
Service Lines	2024 \$s	316,997.27	880,789.46	336,908.15	150,084.47	341,323.97	266,167.05	0.00	0.00	0.00	0.00	0.00	0.00			
Total		316,997.27 880,789.46 336,908.15 150,084.47 341,323.97 266,167.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00														

avg labor and

				avg lapor and				
		Meter	Above	nonlabor				
Code	Element	Size	Std	\$/meter	avg \$/meter	avg \$/regulator	Total	
S10	SGL	1	0	\$247	\$118	\$29	\$394	
M10	MULT	1	0	\$205	\$118	\$7	\$330	
30	AG	3	0	\$259	\$201	\$29	\$489	
	CMB	3		\$468	\$201	\$165	\$834	
31	LBS	3	1	\$271	\$201	\$320	\$792	
S40	SZ	4	0	\$155	\$645	\$263	\$1,063	
S50	SZ	5	0	\$155	\$645	\$263	\$1,063	
	CMB	4		\$292	\$742	\$286	\$1,320	
	CMB	5		\$292	\$742	\$286	\$1,320	
41	@LBS	4	1	\$1,652	\$603	\$494	\$2,750	
51	@LBS	5	1	\$1,652	\$603	\$494	\$2,750	
S60	STD	6	0	\$1,461	\$566	\$263	\$2,290	
S70	STD	7	0	\$1,461	\$566	\$263	\$2,290	
61	LBS	6	1	\$2,039	\$566	\$320	\$2,925	
71	LBS	7	1	\$2,039	\$566	\$320	\$2,925	
S80	STD	8	0	\$1,461	\$685	\$311	\$2,457	
S90	STD	9	0	\$1,461	\$685	\$311	\$2,457	
81	LBS	8	1	\$2,039	\$685	\$710	\$3,434	
91	LBS	9	1	\$2,039	\$685	\$710	\$3,434	
99	TURBINE METERS	10		\$739,804	\$20,289	\$3,986	\$764,079	
100	ROTARY METERS	10		\$5,451	\$4,433	\$3,300	\$13,184	
110	ULTRASONIC METERS	12		\$2,506,778	\$88,986	\$0	\$2,595,764	

		Meter	Above	Number of customers	avg labor							Average Meter & Regulator CAPEX/
Code	Rate	Size (1)	Std (2)	(3)	\$/meter	avg \$/meter	avg \$/regulator	tot lab	tot met	tot rea	tot cost	Customer
S10	SF	1	0	42,231	\$246.69	\$118.12	\$29.15	\$10,417,965	\$4,988,309	\$1,231,034	\$16,637,308	\$393.96
30	SF	3	0	66,495	\$259.47	\$200.78	\$29.15	\$17,253,458	\$13,351,025	\$1,938,329	\$32,542,812	\$489.40
31	SF	3	1	48	\$270.94	\$200.78	\$320.15	\$13,005	\$9,638	\$15,367	\$38,010	\$791.87
S40	SF	4	0	6,938	\$154.88	\$644.79	\$262.99	\$1,074,557	\$4,473,547	\$1,824,625	\$7,372,729	\$1,062.66
41	SF	4	1	61	\$1,651.88	\$603.42	\$494.47	\$100,765	\$36,809	\$30,163	\$167,736	\$2,749.77
S50	SF	5	0	600	\$154.88	\$644.79	\$262.99	\$92,928	\$386,873	\$157,794	\$637,595	\$1,062.66
S60	SF	6	0	556	\$1,461.01	\$566.35	\$262.99	\$812,322	\$314,892	\$146,222	\$1,273,436	\$2,290.35
61	SF	6	1	13	\$2,038.84	\$566.35	\$320.15	\$26,505	\$7,363	\$4,162	\$38,029	\$2,925.34
S70	SF	7	0	2	\$1,461.01	\$566.35	\$262.99	\$2,922	\$1,133	\$526	\$4,581	\$2,290.35
S80	SF	8	0	167	\$1,461.01	\$685.14	\$310.83	\$243,989	\$114,419	\$51,909	\$410,316	\$2,456.98
81	SF	8	1	16	\$2,038.84	\$685.14	\$709.64	\$32,621	\$10,962	\$11,354	\$54,938	\$3,433.62
S90	SF	9	Ô	3	\$1,461.01	\$685.14	\$310.83	\$4,383	\$2,055	\$932	\$7,371	\$2,456.98
91	SF	9	1	9	\$2,038.84	\$685.14	\$709.64	\$18,350	\$6,166	\$6,387	\$30,903	\$3,433.62
100	SF	10	1	2	\$5,451.00	\$4,433.19	\$3,300.00	\$10,902	\$8,866	\$6,600	\$26,368	\$13,184.19
.00	tot SF			117,141	ψο, το τ.σο	ψ1,100.10	ψ0,000.00	\$30,104,671	\$23,712,057	\$5,425,404	\$59,242,133	\$505.73
M10	MF	1	0	43,992	\$204.52	\$118.12	\$7.29	\$8,997,244	\$5,196,318	\$320,702	\$14,514,263	\$329.93
30	MF	3	0	13,530	\$259.47	\$200.78	\$29.15	\$3,510,629	\$2,716,586	\$394,400	\$6,621,614	\$489.40
31	MF	3	1	44	\$270.94	\$200.78	\$320.15	\$11,921	\$8,834	\$14,087	\$34,842	\$791.87
S40	MF	4	0	465	\$154.88	\$644.79	\$262.99	\$72,019	\$299,827	\$122,290	\$494,137	\$1,062.66
S60	MF	6	0	17	\$1,461.01	\$566.35	\$262.99	\$24,837	\$9,628	\$4,471	\$38,936	\$2,290.35
61	MF	6	1	1	\$2,038.84	\$566.35	\$320.15	\$2.039	\$566	\$320	\$2,925	\$2,925.34
81	MF	8	1	7	\$2,038.84	\$685.14	\$709.64	\$14,272	\$4,796	\$4,967	\$24,035	\$3,433.62
	tot MF			58,056	, ,	,		\$12,632,961	\$8,236,555	\$861,237	\$21,730,753	\$374.31
M10	MM Band 1	1	0	553	\$204.52	\$118.12	\$7.29	\$113,100	\$65,320	\$4,031	\$182,451	\$329.93
30	MM Band 1	3	0	257	\$259.47	\$200.78	\$29.15	\$66,684	\$51,601	\$7,492	\$125,776	\$489.40
31	MM Band 1	3	1	11	\$270.94	\$200.78	\$320.15	\$2,980	\$2,209	\$3,522	\$8,711	\$791.87
S40	MM Band 1	4	0	261	\$154.88	\$644.79	\$262.99	\$40,424	\$168,290	\$68,640	\$277,354	\$1,062.66
41	MM Band 1	4	1	53	\$1,651.88	\$603.42	\$494.47	\$87,550	\$31,981	\$26,207	\$145,738	\$2,749.77
S50	MM Band 1	5	0	56	\$154.88	\$644.79	\$262.99	\$8,673	\$36,108	\$14,727	\$59,509	\$1,062.66
S60	MM Band 1	6	0	121	\$1,461.01	\$566.35	\$262.99	\$176,782	\$68,529	\$31,822	\$277,133	\$2,290.35
61	MM Band 1	6	1	61	\$2,038.84	\$566.35	\$320.15	\$124,369	\$34,547	\$19,529	\$178,446	\$2,925.34
S70	MM Band 1	7	0	1	\$1,461.01	\$566.35	\$262.99	\$1,461	\$566	\$263	\$2,290	\$2,290.35
S80	MM Band 1	8	0	81	\$1,461.01	\$685.14	\$310.83	\$118,342	\$55,496	\$25,177	\$199,015	\$2,456.98
81	MM Band 1	8	1	142	\$2,038.84	\$685.14	\$709.64	\$289,515	\$97,290	\$100,769	\$487,574	\$3,433.62
S90	MM Band 1	9	0	11	\$1,461.01	\$685.14	\$310.83	\$16,071	\$7,537	\$3,419	\$27,027	\$2,456.98
91	MM Band 1	9	1	83	\$2,038.84	\$685.14	\$709.64	\$169,224	\$56,867	\$58,900	\$284,991	\$3,433.62
100	MM Band 1	10	1	45	\$5,451.00	\$4,433.19	\$3,300.00	\$245,295	\$199,494	\$148,500	\$593,289	\$13,184.19
	tot MM 1			1,736				\$1,460,470	\$875,835	\$512,999	\$2,849,303	\$1,641.30
61	MM Band 2	6	1	3	\$2,038.84	\$566.35	\$320.15	\$6,117	\$1,699	\$960	\$8,776	\$2,925.34
71	MM Band 2	7	1	1	\$2,038.84	\$566.35	\$320.15	\$2,039	\$566	\$320	\$2,925	\$2,925.34
81	MM Band 2	8	1	6	\$2,038.84	\$685.14	\$709.64	\$12,233	\$4,111	\$4,258	\$20,602	\$3,433.62
91	MM Band 2	9	1	18	\$2,038.84	\$685.14	\$709.64	\$36,699	\$12,333	\$12,774	\$61,805	\$3,433.62
99	MM Band 2	10	1	1	\$739,804.00	\$20,289.00	\$3,986.00	\$739,804	\$20,289	\$3,986	\$764,079	\$764,079.00
100	MM Band 2	10	11	22	\$5,451.00	\$4,433.19	\$3,300.00	\$119,922	\$97,530	\$72,600	\$290,052	\$13,184.19
	tot MM 2			51				\$916,814	\$136,528	\$94,898	\$1,148,240	\$22,514.50

		Meter	Above	Number of customers	avg labor							Average Meter & Regulator CAPEX/
Code	Rate	Size (1)	Std (2)	(3)	\$/meter	avg \$/meter	avg \$/regulator	tot lab	tot met	tot reg	tot cost	Customer
S10	G10 Band 1	1	0	1,355	\$246.69	\$118.12	\$29.15	\$334,265	\$160,052	\$39,498	\$533,815	\$393.96
30	G10 Band 1	3	0	456	\$259.47	\$200.78	\$29.15	\$118,318	\$91,557	\$13,292	\$223,167	\$489.40
31	G10 Band 1	3	1	17	\$270.94	\$200.78	\$320.15	\$4,606	\$3,413	\$5,443	\$13,462	\$791.87
S40	G10 Band 1	4	0	285	\$154.88	\$644.79	\$262.99	\$44,141	\$183,765	\$74,952	\$302,858	\$1,062.66
41	G10 Band 1	4	1	31	\$1,651.88	\$603.42	\$494.47	\$51,208	\$18,706	\$15,329	\$85,243	\$2,749.77
S50	G10 Band 1	5	0	93	\$154.88	\$644.79	\$262.99	\$14,404	\$59,965	\$24,458	\$98,827	\$1,062.66
51	G10 Band 1	5	1	9	\$1,651.88	\$603.42	\$494.47	\$14,867	\$5,431	\$4,450	\$24,748	\$2,749.77
S60	G10 Band 1	6	0	47	\$1,461.01	\$566.35	\$262.99	\$68,667	\$26,619	\$12,361	\$107,647	\$2,290.35
S70	G10 Band 1	/	0	1	\$1,461.01	\$566.35	\$262.99	\$1,461	\$566	\$263	\$2,290	\$2,290.35
S80	G10 Band 1	8	0	25	\$1,461.01	\$685.14	\$310.83	\$36,525	\$17,129	\$7,771	\$61,425	\$2,456.98
81	G10 Band 1	8	1	31	\$2,038.84	\$685.14	\$709.64	\$63,204	\$21,239	\$21,999	\$106,442	\$3,433.62
S90	G10 Band 1	9	0	3	\$1,461.01	\$685.14	\$310.83	\$4,383	\$2,055	\$932	\$7,371	\$2,456.98
91	G10 Band 1	9	1	8	\$2,038.84	\$685.14	\$709.64	\$16,311	\$5,481	\$5,677	\$27,469	\$3,433.62
100	G10 Band 1	10	1	6	\$5,451.00	\$4,433.19	\$3,300.00	\$32,706	\$26,599	\$19,800	\$79,105	\$13,184.19
	tot Band 1			2,367				\$805,067	\$622,578	\$246,225	\$1,673,869	\$707.17
S10	G10 Band 2	1	0	420	\$246.69	\$118.12	\$29.15	\$103,610	\$49,610	\$12,243	\$165,463	\$393.96
30	G10 Band 2	3	0	428	\$259.47	\$200.78	\$29.15	\$111,053	\$85,935	\$12,476	\$209,464	\$489.40
31	G10 Band 2	3	1	29	\$270.94	\$200.78	\$320.15	\$7,857	\$5,823	\$9,284	\$22,964	\$791.87
S40	G10 Band 2	4	0	589	\$154.88	\$644.79	\$262.99	\$91,224	\$379,781	\$154,901	\$625,906	\$1,062.66
41	G10 Band 2	4	1	56	\$1,651.88	\$603.42	\$494.47	\$92,505	\$33,791	\$27,690	\$153,987	\$2,749.77
S50	G10 Band 2	5	Ô	215	\$154.88	\$644.79	\$262.99	\$33,299	\$138,630	\$56,543	\$228,472	\$1,062.66
51	G10 Band 2	5	1	3	\$1,651.88	\$603.42	\$494.47	\$4,956	\$1,810	\$1,483	\$8,249	\$2,749.77
S60	G10 Band 2	6	0	157	\$1,461.01	\$566.35	\$262.99	\$229,379	\$88,917	\$41,289	\$359,585	\$2,290.35
61	G10 Band 2	6	1	43	\$2,038.84	\$566.35	\$320.15	\$87,670	\$24,353	\$13,766	\$125,790	\$2,925.34
S70	G10 Band 2	7	Ó	1	\$1,461.01	\$566.35	\$262.99	\$1,461	\$566	\$263	\$2,290	\$2,290.35
71	G10 Band 2	7	1	i	\$2,038.84	\$566.35	\$320.15	\$2,039	\$566	\$320	\$2,925	\$2,925.34
S80	G10 Band 2	8	ó	65	\$1,461.01	\$685.14	\$310.83	\$94,966	\$44,534	\$20,204	\$159,704	\$2,456.98
81	G10 Band 2	8	1	55	\$2,038.84	\$685.14	\$709.64	\$112,136	\$37,683	\$39,030	\$188,849	\$3,433.62
S90	G10 Band 2	9	'n	7	\$1,461.01	\$685.14	\$310.83	\$10,227	\$4,796	\$2,176	\$17,199	\$2,456.98
91	G10 Band 2	9	1	20	\$2,038.84	\$685.14	\$709.64	\$40,777	\$13,703	\$14,193	\$68,672	\$3,433.62
100	G10 Band 2	10	1	8	\$5,451.00	\$4,433.19	\$3,300.00	\$43,608	\$35,466	\$26,400	\$105,474	\$13,184.19
100	tot Band 2	10	'	2,097	ψ0,401.00	ψ4,400.10	ψ0,000.00	\$1,066,767	\$945,964	\$432,263	\$2,444,994	\$1,165.95
S10	G10 Band 3	1	0	12	\$246.69	\$118.12	\$29.15	\$2,960	\$1,417	\$350	\$4,728	\$393.96
30	G10 Band 3	3	0	103	\$259.47	\$200.78	\$29.15	\$26,725	\$20,681	\$3,002	\$50,408	\$489.40
	G10 Band 3	3	1	18	\$270.94	\$200.78	\$320.15	\$4,877	\$3,614	\$5,763	\$14,254	\$791.87
31 S40		3	0	472			\$320.15 \$262.99					
41	G10 Band 3 G10 Band 3	4	1	78	\$154.88 \$1,651.88	\$644.79	\$494.47	\$73,103	\$304,340	\$124,131	\$501,575	\$1,062.66 \$2,749.77
S50		4 5	0	78 295		\$603.42	\$494.47 \$262.99	\$128,847	\$47,067	\$38,569	\$214,482	
	G10 Band 3	5 5		295 4	\$154.88	\$644.79 \$603.42		\$45,690	\$190,213	\$77,582	\$313,484 \$10,999	\$1,062.66
51	G10 Band 3	-	1		\$1,651.88		\$494.47	\$6,608	\$2,414	\$1,978		\$2,749.77
S60	G10 Band 3	6	0	419	\$1,461.01	\$566.35	\$262.99	\$612,163	\$237,302	\$110,193	\$959,658	\$2,290.35
61	G10 Band 3	6	1	83	\$2,038.84	\$566.35	\$320.15	\$169,224	\$47,007	\$26,572	\$242,803	\$2,925.34
71	G10 Band 3	7	1	1	\$2,038.84	\$566.35	\$320.15	\$2,039	\$566	\$320	\$2,925	\$2,925.34
S80	G10 Band 3	8	0	200	\$1,461.01	\$685.14	\$310.83	\$292,202	\$137,028	\$62,166	\$491,396	\$2,456.98
81	G10 Band 3	8	1	215	\$2,038.84	\$685.14	\$709.64	\$438,351	\$147,305	\$152,573	\$738,229	\$3,433.62
S90	G10 Band 3	9	0	34	\$1,461.01	\$685.14	\$310.83	\$49,674	\$23,295	\$10,568	\$83,537	\$2,456.98
91	G10 Band 3	9	1	112	\$2,038.84	\$685.14	\$709.64	\$228,350	\$76,736	\$79,480	\$384,566	\$3,433.62
100	G10 Band 3	10	1	68	\$5,451.00	\$4,433.19	\$3,300.00	\$370,668	\$301,457	\$224,400	\$896,525	\$13,184.19
	tot Band 3			2,114				\$2,451,481	\$1,540,442	\$917,647	\$4,909,569	\$2,322.41
31	G10 Band 4	3	1	1	\$270.94	\$200.78	\$320.15	\$271	\$201	\$320	\$792	\$791.87
61	G10 Band 4	6	1	3	\$2,038.84	\$566.35	\$320.15	\$6,117	\$1,699	\$960	\$8,776	\$2,925.34
S80	G10 Band 4	8	0	1	\$1,461.01	\$685.14	\$310.83	\$1,461	\$685	\$311	\$2,457	\$2,456.98
81	G10 Band 4	8	1	23	\$2,038.84	\$685.14	\$709.64	\$46,893	\$15,758	\$16,322	\$78,973	\$3,433.62
S90	G10 Band 4	9	Ô	1	\$1,461.01	\$685.14	\$310.83	\$1,461	\$685	\$311	\$2,457	\$2,456.98
91	G10 Band 4	9	1	27	\$2,038.84	\$685.14	\$709.64	\$55,049	\$18,499	\$19,160	\$92,708	\$3,433.62
100	G10 Band 4	10	ò	3	\$5,451.00	\$4,433.19	\$3,300.00	\$16,353	\$13,300	\$9,900	\$39,553	\$13,184.19
100	G10 Band 4	10	1	47	\$5,451.00	\$4,433.19	\$3,300.00	\$256,197	\$208,360	\$155,100	\$619,657	\$13,184.19
	tot Band 4			106	,-,	Ţ.,	T-1	\$383,801	\$259,187	\$202,384	\$845,373	\$7,975.21
81	G10 Band 5	8	1	1	\$2,038.84	\$685.14	\$709.64	\$2,039	\$685	\$710	\$3,434	\$3,433.62

	Meter	Above	Number of customers	avg labor							Average Meter & Regulator CAPEX/
Rate	Size (1)	Std (2)	(3)	\$/meter	avg \$/meter	avg \$/regulator	tot lab	tot met	tot reg	tot cost	Customer
G10 Band 5	9	1	1	\$2,038.84	\$685.14	\$709.64	\$2,039	\$685	\$710	\$3,434	\$3,433.62
G10 Band 5	10	1	14	\$5,451.00	\$4,433.19	\$3,300.00	\$76,314	\$62,065	\$46,200	\$184,579	\$13,184.19
tot Band 5			16				\$78,353	\$62,750	\$46,910	\$188,012	\$11,750.77
GAC	6	1	1	\$2.038.84	\$566.35	\$320.15	\$2.039	\$566	\$320	\$2.925	\$2.925.34
GAC	8	ò	i	\$1,461.01	\$685.14	\$310.83	\$1,461	\$685	\$311	\$2,457	\$2,456.98
GAC	8	1	2	\$2,038.84	\$685.14	\$709.64	\$4,078	\$1,370	\$1,419	\$6,867	\$3,433.62
GAC	10	1	1	\$5,451.00	\$4,433.19	\$3.300.00	\$5,451	\$4,433	\$3.300	\$13.184	\$13,184.19
tot GAC			5	, . ,	. , ,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$13,029	\$7,055	\$5,350	\$25,434	\$5,086.75
NOV		_		2010.00	0440.40	200.45	20.744	*4.000	0004	04.004	****
NGV NGV	3	0	11 2	\$246.69 \$259.47	\$118.12 \$200.78	\$29.15 \$29.15	\$2,714 \$519	\$1,299 \$402	\$321 \$58	\$4,334 \$979	\$393.96 \$489.40
NGV	3	1	8	\$259.47 \$270.94	\$200.78 \$200.78	\$29.15 \$320.15	\$2,168	\$402 \$1,606	\$2,561	\$6,335	\$489.40 \$791.87
NGV	4	1	7	\$1.651.88	\$603.42	\$494.47	\$11,563	\$1,000	\$3,461	\$19.248	\$2,749.77
NGV	5	1	6	\$1,651.88	\$603.42	\$494.47	\$9.911	\$3,621	\$2,967	\$16,499	\$2,749.77 \$2.749.77
NGV	6	1	20	\$2,038.84	\$566.35	\$320.15	\$40,777	\$11,327	\$6,403	\$58,507	\$2,925.34
NGV	7	1	3	\$2,038.84	\$566.35	\$320.15	\$6,117	\$1,699	\$960	\$8,776	\$2,925.34
NGV	8	1	43	\$2,038.84	\$685.14	\$709.64	\$6,117 \$87,670	\$1,699 \$29,461	\$30,515	\$8,776 \$147,646	\$2,925.34 \$3,433.62
NGV	9	1	35	\$2,038.84	\$685.14	\$709.64	\$71,359	\$23,980	\$24,837	\$120,177	\$3,433.62 \$3,433.62
NGV	10	1	30	\$739,804.00	\$20,289.00	\$3,986.00	\$22,194,120	\$608,670	\$119,580	\$22,922,370	\$3,433.62 \$764,079.00
NGV	10	1	124	\$5.451.00	\$4,433,19	\$3,300.00	\$675,924	\$549.716	\$409.200	\$1.634.840	\$13.184.19
tot NGV	10		289	\$0, 4 01.00	ψ+,+00.10	ψ0,000.00	\$23,102,841	\$1,236,005	\$600,864	\$24,939,710	\$86,296.57
GEN	1	0	1	\$246.69	\$118.12	\$29.15	\$247	\$118	\$29	\$394	\$393.96
GEN	3	0	7	\$259.47	\$200.78	\$29.15	\$1,816	\$1,405	\$204	\$3,426	\$489.40
GEN	3	1	6	\$270.94	\$200.78	\$320.15	\$1,626	\$1,205	\$1,921	\$4,751	\$791.87
GEN	4	0	27	\$154.88	\$644.79	\$262.99	\$4,182	\$17,409	\$7,101	\$28,692	\$1,062.66
GEN GEN	4 5	0	24	\$1,651.88	\$603.42	\$494.47	\$39,645	\$14,482	\$11,867	\$65,994	\$2,749.77
GEN	5 5	0	15 9	\$154.88 \$1.651.88	\$644.79 \$603.42	\$262.99 \$494.47	\$2,323 \$14,867	\$9,672 \$5,431	\$3,945 \$4,450	\$15,940	\$1,062.66 \$2,749.77
GEN	5 6	0	86	\$1,051.00	\$566.35	\$494.47 \$262.99	\$14,867 \$125,647	\$5,431 \$48.706	\$4,450 \$22,617	\$24,748 \$196.970	\$2,749.77 \$2.290.35
GEN	6	0	107	\$1,461.01	\$566.35	\$202.99 \$320.15	\$125,647 \$218,156	\$48,706 \$60,600	\$22,617	\$196,970	\$2,290.35 \$2,925.34
GEN	7	0	3	\$2,038.84 \$1,461.01		\$320.15 \$262.99		\$60,600 \$1,699	\$34,256 \$789		\$2,925.34 \$2,290.35
GEN	7	1	3	\$2,038.84	\$566.35 \$566.35	\$320.15	\$4,383 \$6,117	\$1,699	\$960	\$6,871 \$8,776	\$2,290.35 \$2.925.34
GEN	8	0	87	\$1,461.01	\$685.14	\$310.83	\$127,108	\$59,607	\$27,042	\$213,757	\$2,925.34 \$2,456.98
GEN	8	1	163	\$2,038.84	\$685.14	\$709.64	\$332,331	\$111,678	\$115,671	\$559,680	\$3,433.62
GEN	9	'n	8	\$1,461.01	\$685.14	\$310.83	\$11,688	\$5,481	\$2,487	\$19.656	\$2,456.98
GEN	9	1	63	\$2,038.84	\$685.14	\$709.64	\$128,447	\$43,164	\$44,707	\$216,318	\$3,433.62
GEN	10	'n	1	\$5,451.00	\$4,433.19	\$3,300.00	\$5,451	\$4,433	\$3,300	\$13,184	\$13,184.19
GEN	10	1	28	\$5,451.00	\$4,433.19	\$3,300.00	\$152,628	\$124,129	\$92,400	\$369,157	\$13,184.19
tot GEN			638	40,101100	71,100110	40,000.00	\$1,176,661	\$510,919	\$373,747	\$2,061,327	\$3,230.92
G30 Tran	7	1	1	\$2,038.84	\$566.35	\$320.15	\$2,039	\$566	\$320	\$2,925	\$2,925.34
G30 Tran	8	1	1	\$2,038.84	\$685.14	\$709.64	\$2,039	\$685	\$710	\$3,434	\$3,433.62
G30 Tran	9	1	3	\$2,038.84	\$685.14	\$709.64	\$6,117	\$2,055	\$2,129	\$10,301	\$3,433.62
G30 Tran	10	1	7	\$739,804.00	\$20,289.00	\$3,986.00	\$5,178,628	\$142,023	\$27,902	\$5,348,553	\$764,079.00
G30 Tran tot G30 Tran	10	11	7 19	\$5,451.00	\$4,433.19	\$3,300.00	\$38,157 \$5,226,979	\$31,032 \$176,362	\$23,100 \$54,161	\$92,289 \$5,457,502	\$13,184.19 \$287,236.96
tot G30 Trail			15				ψJ,220,313	\$170,30Z	\$34,101	φ3,437,302	\$207,230.30
G30 Dist	5	1	4	\$1,651.88	\$603.42	\$494.47	\$6,608	\$2,414	\$1,978	\$10,999	\$2,749.77
G30 Dist	6	0	2	\$1,461.01	\$566.35	\$262.99	\$2,922	\$1,133	\$526	\$4,581	\$2,290.35
G30 Dist	6	1	7	\$2,038.84	\$566.35	\$320.15	\$14,272	\$3,964	\$2,241	\$20,477	\$2,925.34
G30 Dist	8	1	37	\$2,038.84	\$685.14	\$709.64	\$75,437	\$25,350	\$26,257	\$127,044	\$3,433.62
G30 Dist	9	0	2	\$1,461.01	\$685.14	\$310.83	\$2,922	\$1,370	\$622	\$4,914	\$2,456.98
G30 Dist	9	1	69	\$2,038.84	\$685.14	\$709.64	\$140,680	\$47,275	\$48,965	\$236,920	\$3,433.62
G30 Dist	10	1	85	\$739,804.00	\$20,289.00	\$3,986.00	\$62,883,340	\$1,724,565	\$338,810	\$64,946,715	\$764,079.00
G30 Dist	10	11	314	\$5,451.00	\$4,433.19	\$3,300.00	\$1,711,614	\$1,392,023	\$1,036,200	\$4,139,837	\$13,184.19
tot G30 Dist	•		520			•	\$64,837,794	\$3,198,094	\$1,455,598	\$69,491,487	\$133,637.47

Code	Rate	Meter Size (1)	Above Std (2)	Number of customers (3)	avg labor \$/meter	avg \$/meter	avg \$/regulator	tot lab	tot met	tot reg	tot cost	Average Meter & Regulator CAPEX/ Customer
	0.1050				04.054.00	*****	A104.47	04.050	****	0404	00.750	*****
11	Sml G50	4	1	1	\$1,651.88	\$603.42	\$494.47	\$1,652	\$603	\$494	\$2,750	\$2,749.77
1	Sml G50	5	1	2	\$1,651.88	\$603.42	\$494.47	\$3,304	\$1,207	\$989	\$5,500	\$2,749.77
1	Sml G50	6	1	146	\$2,038.84	\$566.35	\$320.15	\$297,671	\$82,687	\$46,742	\$427,100	\$2,925.34
1	Sml G50	8	1	58	\$2,038.84	\$685.14	\$709.64	\$118,253	\$39,738	\$41,159	\$199,150	\$3,433.62
1	Sml G50	9	1	43	\$2,038.84	\$685.14	\$709.64	\$87,670	\$29,461	\$30,515	\$147,646	\$3,433.62
9	Sml G50	10	1	41	\$739,804.00	\$20,289.00	\$3,986.00	\$30,331,964	\$831,849	\$163,426	\$31,327,239	\$764,079.00
00	Sml G50	10	1	37	\$5,451.00	\$4,433.19	\$3,300.00	\$201,687	\$164,028	\$122,100	\$487,815	\$13,184.19
	tot G50			328				\$31,042,200	\$1,149,574	\$405,425	\$32,597,199	\$99,381.70
		_		_								
l)	G50 EG	8	1	3	\$2,038.84	\$685.14	\$709.64	\$6,117	\$2,055	\$2,129	\$10,301	\$3,433.62
	G50 EG	10	1	30	\$739,804.00	\$20,289.00	\$3,986.00	\$22,194,120	\$608,670	\$119,580	\$22,922,370	\$764,079.00
0	G50 EG	10	1	5	\$5,451.00	\$4,433.19	\$3,300.00	\$27,255	\$22,166	\$16,500	\$65,921	\$13,184.19
0	G50 EG	12	1	6	\$2,506,778.00	\$88,986.00	\$0.00	\$15,040,668	\$533,916	\$0	\$15,574,584	\$2,595,764.00
	tot G50 EG			44				\$37,268,160	\$1,166,807	\$138,209	\$38,573,176	\$876,663.09
	G40	5	1	1	\$1,651.88	\$603.42	\$494.47	\$1,652	\$603	\$494	\$2,750	\$2,749.77
I	G40		;	,	\$2,038.84	\$685.14	\$709.64	\$8,155	\$2,741	\$2,839	\$13,734	\$3,433.62
	G40	0	1	2	\$2,038.84	\$685.14	\$709.64	\$6,117	\$2,055	\$2,129	\$10,301	\$3,433.62
	G40	10	1	3 1E	\$739.804.00	\$20,289.00				\$59,790		
0				15			\$3,986.00	\$11,097,060	\$304,335		\$11,461,185	\$764,079.00
U	G40 tot G40	10	1	30	\$5,451.00	\$4,433.19	\$3,300.00	\$38,157	\$31,032	\$23,100	\$92,289	\$13,184.19
	IOI G40			30				\$11,151,141	\$340,767	\$88,352	\$11,580,259	\$386,008.65

	Pipe		New	
	Diameter		Business	Replacement
Code	Inches	Pipe Type	\$/ft	\$/ft
0.5P	0.5	Р	\$146.46	\$176.54
1P	1	Р	\$235.19	\$220.66
2P	2	P	\$230.98	\$196.21
3P	3	Р	\$218.87	\$351.91
4P	4	P	\$537.03	\$821.46
6P	6	P	\$1,507.03	\$1,040.13
3P	8	P	\$2,177.99	\$1,602.57
0.5	0.5	S	\$445.65	\$251.60
0.75	0.75	S	\$445.65	\$251.60
1S	1	S	\$673.27	\$410.04
1.25	1.25	S	\$481.15	\$631.07
28	2	S	\$887.66	\$688.76
3S	3	S	\$728.43	\$725.33
48	4	S	\$903.83	\$740.56
6S	6	S	\$1,808.75	\$1,318.32
88	8	S	\$2,645.28	\$1,812.13
10S	10	S	\$3,435.87	\$2,664.50
12S	12	S	\$4,390.84	\$3,004.50
16S	16	S	\$11,096.37	\$7,618.61
20S	20	S	\$11,096.37	\$7,618.61

Calculation of Weighted Average Service Line and Service Line Replacement Cost \$/customer

aiculation	of Weighted Avera	age Service Line and S	Service Line	Replaceme	nt Cost \$/cu	# New					керіасетепт		
			Pipe			Customers		New		Service Line	Service Line		Replacement
			Diameter	Pipe frac	Pipe Type	last 5 years	Avg Length	Business	Replacement	CAPEX	CAPEX	Service Line	Service Line
	Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/customer	\$/customer	CAPEX \$'s	CAPEX \$'s
	0.5P	SF	0	12	Р	109,698	25.2	\$146.46	\$176.54	\$3,692	\$4,450	\$405,031,743	\$488,208,757
	0.75	SF	0	34	S	186	9.3	\$445.65	\$251.60	\$4,122	\$2,327	\$766,742	\$432,880
	1P	SF	1	0	Р	43,508	32.4	\$235.19	\$220.66	\$7,620	\$7,149	\$331,542,120	\$311,049,555
	1S	SF	1	0	S	261	2.5	\$673.27	\$410.04	\$1,676	\$1,021	\$437,552	\$266,482
	2P	SF	2	0	Р	117	97.7	\$230.98	\$196.21	\$22,576	\$19,178	\$2,641,347	\$2,243,809
		Tot SF				153,770				\$4,815	\$5,217	\$740,419,504	\$802,201,484
	0.5P	MF	0	12	Р	2,206	10.0	C11C 1C	¢176 E4	60.040	62 540	#6 400 000	¢7 740 040
		MF	0				19.9	\$146.46	\$176.54	\$2,912	\$3,510	\$6,423,022	\$7,742,049
	0.75	MF	0	34	S P	80	1.0	\$445.65	\$251.60	\$423 \$5,701	\$239	\$33,869 \$49,804,642	\$19,122
	1P		1	0		8,736	24.2	\$235.19	\$220.66		\$5,349 \$3,446		\$46,726,225
	1S	MF	1		S	402	8.3	\$673.27	\$410.04	\$5,608	\$3,416	\$2,254,557	\$1,373,092
	1.25	MF	1	25	S	26	10.6	\$481.15	\$631.07	\$5,110	\$6,702	\$132,855	\$174,250
	2P	MF	2	0	P	920	39.9	\$230.98	\$196.21	\$9,209	\$7,823	\$8,472,301	\$7,197,169
	2S	MF	2	0	S	1,005	1.9	\$887.66	\$688.76	\$1,669	\$1,295	\$1,677,142	\$1,301,336
	3P	MF	3	0	P	6	108.2	\$218.87	\$351.91	\$23,675	\$38,067	\$142,050	\$228,399
	3S	MF	3	0	S	21	86.0	\$728.43	\$725.33	\$62,645	\$62,378	\$1,315,539	\$1,309,942
		Tot MF				13,402				\$5,242	\$4,929.98	\$70,255,977	\$66,071,584
	0.5P	MM Band 1	0	12	Р	250	40.7	\$146.46	\$176.54	\$5,961	\$7,185	\$1,490,225	\$1,796,257
	0.75	MM Band 1	ő	34	s	48	1.1	\$445.65	\$251.60	\$490	\$277	\$23,530	\$13,285
	1P	MM Band 1	1	0	P	659	47.6	\$235.19	\$220.66	\$11,200	\$10,508	\$7,380,731	\$6,924,529
	1S	MM Band 1	1	0	S	158	2.7	\$673.27	\$410.04	\$1,804	\$1,099	\$285,090	\$173,628
	1.25	MM Band 1	1	25	S	6	2.2	\$481.15	\$631.07	\$1,044	\$1,369	\$6,265	\$8,216
	2P	MM Band 1	2	0	P	308	76.4	\$230.98	\$196.21	\$1,044 \$17,640	\$1,369 \$14,985	\$5,433,014	\$4,615,313
	25	MM Band 1	2	0	S	150	20.9	\$887.66	\$688.76		\$14,388	\$2,781,478	
	2S 3P			0	P					\$18,543			\$2,158,217
	3S	MM Band 1 MM Band 1	3 3	0	S	23 15	91.3 25.9	\$218.87 \$728.43	\$351.91 \$725.33	\$19,983 \$18,844	\$32,130 \$18,764	\$459,602 \$282,666	\$738,984 \$281,464
	33	Tot MM 1	<u> </u>	U		1,617	20.9	φ120.43	\$120.00	\$11,220	\$10,764	\$18,142,602	\$16,709,893
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	0.5P	MM Band 2	0	12 0	Р	8	27.8	\$146.46	\$176.54	\$4,064	\$4,899	\$32,514	\$39,191
	1S	MM Band 2	1		S	2	99.0	\$673.27	\$410.04	\$66,654	\$40,594	\$133,308	\$81,188
	1.25	MM Band 2	1	25	S	8	42.5	\$481.15	\$631.07	\$20,449	\$26,820	\$163,591	\$214,562
	2P	MM Band 2	2	0	Р	4	739.5	\$230.98	\$196.21	\$170,807	\$145,099	\$683,228	\$580,398
	2S	MM Band 2	2	0	S	12	93.7	\$887.66	\$688.76	\$83,147	\$64,516	\$997,764	\$774,189
	2S 3P 3S	MM Band 2	3	0	Р	1	96.0	\$218.87	\$351.91	\$21,011	\$33,784	\$21,011	\$33,784
	3S	MM Band 2	3	0	S	11	190.5	\$728.43	\$725.33	\$138,729	\$138,139	\$1,526,018	\$1,519,526
	48	MM Band 2	4	0	S	6	205.3	\$903.83	\$740.56	\$185,583	\$152,059	\$1,113,497	\$912,352
		Tot MM 2				52			·	\$89,826	\$79,908	\$4,670,931	\$4,155,191
	0.50	040 David 4		40			40.0	0440.46	0470.54	A7 477	***	#440.000	0504.740
	0.5P	G10 Band 1	0	12	Р	58	49.0	\$146.46	\$176.54	\$7,177	\$8,650	\$416,238	\$501,716
	0.75	G10 Band 1	0	34	S	214	2.3	\$445.65	\$251.60	\$1,038	\$586	\$222,210	\$125,454
	1P	G10 Band 1	1	0	Р	572	79.3	\$235.19	\$220.66	\$18,644	\$17,491	\$10,664,229	\$10,005,075
	18	G10 Band 1	1	0	S	945	0.8	\$673.27	\$410.04	\$566	\$344	\$534,443	\$325,492
	1.25	G10 Band 1	1	25	S	34	0.9	\$481.15	\$631.07	\$452	\$593	\$15,378	\$20,169
	2P	G10 Band 1	2	0	Р	121	135.3	\$230.98	\$196.21	\$31,240	\$26,538	\$3,779,984	\$3,211,074
	2S 3P	G10 Band 1	2	0	S	216	5.5	\$887.66	\$688.76	\$4,900	\$3,802	\$1,058,373	\$821,218
	3P	G10 Band 1	3	0	Р	3	27.7	\$218.87	\$351.91	\$6,056	\$9,737	\$18,168	\$29,212
	4P	G10 Band 1	4	0	Р	7	190.3	\$537.03	\$821.46	\$102,191	\$156,316	\$715,337	\$1,094,215
		tot Band 1				2,170				\$8,030	\$7,435	\$17,424,360	\$16,133,624
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					# New					Replacement		
		Pipe			Customers		New		Service Line	Service Line		Replacement
		Diameter	Pipe frac	Pipe Type	last 5 years	Avg Length	Business	Replacement	CAPEX	CAPEX	Service Line	Service Line
Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/customer	\$/customer	CAPEX \$'s	CAPEX \$'s
0.5P	G10 Band 2	0	12	P	31	34.0	\$146.46	\$176.54	\$4,980	\$6,002	\$154,368	\$186,069
0.75	G10 Band 2	0	34	S	323	3.2	\$445.65	\$251.60	\$1,426	\$805	\$460,624	\$260,055
1P	G10 Band 2	1	0	Р	578	84.3	\$235.19	\$220.66	\$19,822	\$18,597	\$11,457,159	\$10,748,994
1S	G10 Band 2	1	0	S	961	0.8	\$673.27	\$410.04	\$532	\$324	\$511,141	\$311,300
1.25	G10 Band 2	1	25	S	21	0.9	\$481.15	\$631.07	\$433	\$568	\$9,094	\$11,927
2P	G10 Band 2	2	0	Р	166	130.2	\$230.98	\$196.21	\$30,068	\$25,543	\$4,991,369	\$4,240,138
2S	G10 Band 2	2	0	S	150	4.4	\$887.66	\$688.76	\$3,879	\$3,010	\$581,860	\$451,480
3P	G10 Band 2	3	0	P	8	198.1	\$218.87	\$351.91	\$43,364	\$69,725	\$346,915	\$557,798
0.	tot Band 2				2,238		Ψ2.0.0.	φου πο τ	\$8,272	\$7,492	\$18,512,531	\$16,767,761
					,				,	. , .	, .,. ,	, ,, , ,
0.5P	G10 Band 3	0	12	Р	19	64.5	\$146.46	\$176.54	\$9,451	\$11,392	\$179,570	\$216,446
0.75	G10 Band 3	0	34	s S	258	3.4	\$445.65	\$251.60	\$1,506	\$850	\$388,625	\$219,407
1P	G10 Band 3	1	0	P	618	80.3	\$235.19	\$220.66	\$18,881	\$17,714	\$11,668,645	\$10,947,408
 1S	G10 Band 3	1	Ö	S	1,172	1.4	\$673.27	\$410.04	\$909	\$554	\$1,065,250	\$648,769
1.25	G10 Band 3	1	25	Š	24	1.0	\$481.15	\$631.07	\$462	\$606	\$11,086	\$14,540
2P	G10 Band 3	2	0	P	451	149.3	\$230.98	\$196.21	\$34,476	\$29,287	\$15,548,457	\$13,208,321
2S	G10 Band 3	2	0	S	212	3.4	\$887.66	\$688.76	\$2,974	\$2,307	\$630,415	\$489,155
3P	G10 Band 3	3	0	P	14	139.9	\$218.87	\$351.91	\$30,626	\$49,243	\$428,768	\$689,406
		3	0	P	4		\$537.03					
4P 6P	G10 Band 3	6	0	P	4 12	188.5		\$821.46	\$101,230	\$154,846	\$404,919	\$619,384
0P	G10 Band 3 tot Band 3		U	Р	2,784	201.3	\$1,507.03	\$1,040.13	\$303,409 \$12,201	\$209,409 \$10,620	\$3,640,913 \$33,966,647	\$2,512,911 \$29,565,746
	tot band 3				2,704				\$12,201	\$10,620	φ33,900,04 <i>1</i>	\$29,303,740
1P	G10 Band 4	1	0	Р	13	70.3	\$235.19	\$220.66	\$16,536	\$15,514	\$214,974	\$201.686
1S	G10 Band 4	1	0	S	8	35.4	\$673.27	\$410.04	\$23,820	\$14,507	\$190,563	\$116,058
2P	G10 Band 4	2	0	P	59	166.4	\$230.98	\$196.21	\$38,437	\$32,652	\$2,267,769	\$1,926,456
2S	G10 Band 4	2	0	S	4	64.0	\$887.66	\$688.76	\$56,810	\$32,652 \$44,080	\$2,267,769	\$1,920,430
23 3P		3	0	P	8							
32	G10 Band 4		-			214.0	\$218.87	\$351.91	\$46,838	\$75,310	\$374,703	\$602,477
3S 4P	G10 Band 4	3	0	S P	7	18.6	\$728.43	\$725.33	\$13,527	\$13,469	\$94,688	\$94,285
4P	G10 Band 4	4	0	Р	12 111	332.3	\$537.03	\$821.46	\$178,471	\$272,997	\$2,141,646	\$3,275,966
	tot Band 4				111				\$49,654	\$57,597	\$5,511,583	\$6,393,250
2P	G10 Band 5	2	0	Р	4	81.0	\$230.98	\$196.21	\$18,709	\$15,893	\$74,836	\$63,573
2P 4P	G10 Band 5 G10 Band 5	3	0	P	4	105.0	\$230.98 \$537.03	\$821.46	\$16,709 \$56,388	\$15,693 \$86,254	\$74,636 \$56,388	\$86,254
		3	0									
4S	G10 Band 5	4 6		S	4	201.3	\$903.83	\$740.56	\$181,895	\$149,037	\$727,581	\$596,149
6S	G10 Band 5	-	0	S	3	1,203.7	\$1,808.75	\$1,318.32	\$2,177,137	\$1,586,827	\$6,531,412	\$4,760,482
8S	G10 Band 5	8	0	S	4	326.0	\$2,645.28	\$1,812.13	\$862,360	\$590,754	\$3,449,441	\$2,363,016
	tot Band 5				16				\$677,479	\$491,842	\$10,839,658	\$7,869,474
1P	GAC	1	0	Р	4	10.0	\$235.19	\$220.66	£2.252	¢2 207	\$2,352	\$2,207
10	GAC	1	0	S	1				\$2,352 \$14,812	\$2,207 \$0,034		
1S		1			1	22.0	\$673.27	\$410.04	\$14,812 \$200,845	\$9,021	\$14,812	\$9,021
6S	GAC tot GAC	6	0	S	3	116.0	\$1,808.75	\$1,318.32	\$209,815	\$152,926	\$209,815	\$152,926
	IOI GAC				<u>ა</u>				\$75,660	\$54,718	\$226,979	\$164,153

					# New					керіасетепт		
		Pipe			Customers		New		Service Line	Service Line		Replacement
		Diameter	Pipe frac	Pine Type	last 5 years	Ava I enath		Replacement	CAPEX	CAPEX	Service Line	Service Line
Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/customer	\$/customer	CAPEX \$'s	CAPEX \$'s
3000 (.)			(-/	(0)	(. /	1001 (0)	ψ (c)	ψ (σ)	4.0001011101	v, cactonici	U. 1. 2. V U	
0.5P	NGV	0	12	Р	3	43.7	\$146.46	\$176.54	\$6,396	\$7,709	\$19,188	\$23,128
0.75	NGV	0	34	S	2 5	160.5	\$445.65	\$251.60	\$71,527	\$40,382	\$143,054	\$80,764
1P	NGV	1	0	Р	5	155.8	\$235.19	\$220.66	\$36,643	\$34,378	\$183,215	\$171,891
1S	NGV	1	0	S	5	123.8	\$673.27	\$410.04	\$83,351	\$50,763	\$416,755	\$253,816
1.25	NGV	1	25	s	ī	330.0	\$481.15	\$631.07	\$158,779	\$208,252	\$158,779	\$208,252
2P	NGV	2	0	P	44	141.6	\$230.98	\$196.21	\$32,709	\$27,786	\$1,439,176	\$1,222,571
2S	NGV	2	ő	s	9	69.4	\$887.66	\$688.76	\$61,639	\$47,827	\$554,751	\$430,445
3P	NGV	3	0	P	16	181.8	\$218.87	\$351.91	\$39,779	\$63,960	\$636,469	\$1,023,366
36	NGV	3	0	s	15	167.3	\$728.43	\$725.33	\$121,888	\$121,369	\$1,828,315	\$1,820,537
3S 4P	NGV	4	0	P	16	251.1	\$537.03	\$821.46	\$134,826	\$206,237	\$2,157,220	\$3,299,788
4S	NGV	4	0	S	12	136.8	\$903.83	\$740.56	\$123,598	\$101,271	\$1,483,181	\$1,215,255
45 6P		6	0	S P								
	NGV			S	3	50.7	\$1,507.03	\$1,040.13	\$76,361	\$52,703	\$229,083	\$158,110
6S	NGV	6	0	5	6	211.7	\$1,808.75	\$1,318.32	\$382,858	\$279,050	\$2,297,148	\$1,674,298
	tot NGV				137				\$84,280	\$84,542	\$11,546,335	\$11,582,222
0.5P	GEN	0	12	Р	8	378.5	\$146.46	\$176.54	\$55,435	\$66,819	\$443,479	\$534,552
0.75	GEN	0	34	S	o 172	183.4	\$445.65	\$251.60	\$81,741	\$46,149	\$14,059,486	\$7,937,585
0.75 1P	GEN	1		S P	182	347.0	\$445.65 \$235.19			\$46,149 \$76,576		
			0					\$220.66	\$81,621		\$14,855,097	\$13,936,906
1S	GEN	1	0	S	36	352.7	\$673.27	\$410.04	\$237,456	\$144,618	\$8,548,419	\$5,206,242
1S	GEN	1	25	S	3	2,629.0	\$673.27	\$410.04	\$1,770,030	\$1,078,001	\$5,310,091	\$3,234,004
2P	GEN	2	0	Р	207	1,167.1	\$230.98	\$196.21	\$269,568	\$228,996	\$55,800,526	\$47,402,213
2S 3P	GEN	2	0	S	43	224.0	\$887.66	\$688.76	\$198,818	\$154,268	\$8,549,164	\$6,633,506
3P	GEN	3	0	Р	32	1,561.8	\$218.87	\$351.91	\$341,831	\$549,623	\$10,938,590	\$17,587,928
4P	GEN	4	0	Р	18	1,985.6	\$537.03	\$821.46	\$1,066,301	\$1,631,066	\$19,193,425	\$29,359,189
	tot GEN				701				\$196,431	\$188,063	\$137,698,278	\$131,832,126
		_		_	_							
0.5P	G30 Dist	0	12	P	6	174.5	\$146.46	\$176.54	\$25,557	\$30,805	\$153,343	\$184,833
0.75	G30 Dist	0	34	S	22	80.8	\$445.65	\$251.60	\$36,016	\$20,334	\$792,363	\$447,345
1P	G30 Dist	1	0	Р	6	113.8	\$235.19	\$220.66	\$26,773	\$25,118	\$160,636	\$150,707
1S	G30 Dist	1	0	S	13	65.7	\$673.27	\$410.04	\$44,229	\$26,937	\$574,974	\$350,176
1.25	G30 Dist	1	25	S	15	107.1	\$481.15	\$631.07	\$51,515	\$67,566	\$772,725	\$1,013,491
2P	G30 Dist	2	0	Р	48	358.6	\$230.98	\$196.21	\$82,829	\$70,363	\$3,975,792	\$3,377,412
2S	G30 Dist	2	0	S	103	273.8	\$887.66	\$688.76	\$243,073	\$188,606	\$25,036,471	\$19,426,413
3P	G30 Dist	3	0	Р	46	383.0	\$218.87	\$351.91	\$83,836	\$134,798	\$3,856,466	\$6,200,730
3S 4P	G30 Dist	3	0	S	63	325.5	\$728.43	\$725.33	\$237,132	\$236,123	\$14,939,329	\$14,875,770
4P	G30 Dist	4	0	Р	14	481.3	\$537.03	\$821.46	\$258,464	\$395,360	\$3,618,501	\$5,535,034
4S	G30 Dist	4	0	S	72	761.2	\$903.83	\$740.56	\$687,963	\$563,688	\$49,533,343	\$40,585,512
6P	G30 Dist	6	0	Р	3	1,282.0	\$1,507.03	\$1,040.13	\$1,932,004	\$1,333,445	\$5,796,013	\$4,000,334
6S	G30 Dist	6	0	S	23	845.1	\$1,808.75	\$1,318.32	\$1,528,631	\$1,114,157	\$35,158,504	\$25,625,611
8S	G30 Dist	8	0	S	5	1,265.8	\$2,645.28	\$1,812.13	\$3,348,390	\$2,293,792	\$16,741,951	\$11,468,961
10S	G30 Dist	10	0	S	1	73.0	\$3,435.87	\$2,664.50	\$250,818	\$194,508	\$250,818	\$194,508
	tot G30 Dist				440				\$366,730	\$303,266	\$161,361,230	\$133,436,839
2P	G30 Tran	2	0	Р	3	1,363.0	\$230.98	\$196.21	\$314,821	\$267,438	\$944,462	\$802,315
2S	G30 Tran	2	0	S	5	1,484.6	\$887.66	\$688.76	\$1,317,818	\$1,022,527	\$6,589,090	\$5,112,637
4S	G30 Tran	4	0	S	1	53.0	\$903.83	\$740.56	\$47,903	\$39,250	\$47,903	\$39,250
6S	G30 Tran	6	0	S	2	1,593.0	\$1,808.75	\$1,318.32	\$2,881,338	\$2,100,091	\$5,762,676	\$4,200,181
8S	G30 Tran	8	0	S	1	42.0	\$2,645.28	\$1,812.13	\$111,102	\$76,109	\$111,102	\$76,109
16S	G30 Tran	16	0	S	1	95.0	\$11,096.37	\$7,618.61	\$1,054,155	\$723,767	\$1,054,155	\$723,767
	tot G30 Tran				13				\$1,116,107	\$842,635	\$14,509,387	\$10,954,259

					# New					керіасетепт		
		Pipe			Customers		New		Service Line	Service Line		Replacement
		Diameter	Pipe frac	Pipe Type	last 5 years	Avg Length	Business	Replacement	CAPEX	CAPEX	Service Line	Service Line
Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/customer	\$/customer	CAPEX \$'s	CAPEX \$'s
0.75	Sml G50	0	34	S	5	7.4	\$445.65	\$251.60	\$3,298	\$1,862	\$16,489	\$9,309
1P	Sml G50	1	0	Р	21	113.4	\$235.19	\$220.66	\$26,678	\$25,029	\$560,232	\$525,604
1S	Sml G50	1	0	S	6	19.7	\$673.27	\$410.04	\$13,241	\$8,064	\$79,446	\$48,385
1.25	Sml G50	1	25	S	3	143.7	\$481.15	\$631.07	\$69,125	\$90,663	\$207,375	\$271,989
2P	Sml G50	2	0	Р	37	103.7	\$230.98	\$196.21	\$23,959	\$20,353	\$886,486	\$753,064
2S	Sml G50	2	0	S	15	121.8	\$887.66	\$688.76	\$108,117	\$83,890	\$1,621,752	\$1,258,357
3P	Sml G50	3	0	Р	2	159.5	\$218.87	\$351.91	\$34,910	\$56,130	\$69,819	\$112,261
3S	Sml G50	3	0	S	3	28.0	\$728.43	\$725.33	\$20,396	\$20,309	\$61,188	\$60,928
4P	Sml G50	4	0	Р	3	284.3	\$537.03	\$821.46	\$152,695	\$233,569	\$458,084	\$700,708
48	Sml G50	4	0	S	7	679.9	\$903.83	\$740.56	\$614,474	\$503,474	\$4,301,319	\$3,524,318
6P	Sml G50	6	0	Р	2	131.5	\$1,507.03	\$1,040.13	\$198,174	\$136,777	\$396,348	\$273,554
6S	Sml G50	6	0	S	7	788.7	\$1,808.75	\$1,318.32	\$1,426,585	\$1,039,780	\$9,986,098	\$7,278,463
88	Sml G50	8	0	S	4	82.0	\$2,645.28	\$1,812.13	\$216,913	\$148,595	\$867,651	\$594,378
10S	Sml G50	10	0	S	1	467.0	\$3,435.87	\$2,664.50	\$1,604,550	\$1,244,319	\$1,604,550	\$1,244,319
	tot Sml G50				116				\$182,042	\$143,583	\$21,116,838	\$16,655,639
1.25	G50 EG	1	25	S	1	163.0	\$481.15	\$631.07	\$78,427	\$102,864	\$78,427	\$102,864
2S	G50 EG	2	0	S	2	27.0	\$887.66	\$688.76	\$23,967	\$18,596	\$47,934	\$37,193
3S	G50 EG	3	0	S	1	520.0	\$728.43	\$725.33	\$378,782	\$377,171	\$378,782	\$377,171
4S	G50 EG	4	0	S	2	22.5	\$903.83	\$740.56	\$20,336	\$16,663	\$40,672	\$33,325
6S	G50 EG	6	0	S	3	232.0	\$1,808.75	\$1,318.32	\$419,630	\$305,851	\$1,258,890	\$917,554
8S	G50 EG	8	0	S	2	586.0	\$2,645.28	\$1,812.13	\$1,550,133	\$1,061,909	\$3,100,267	\$2,123,817
	tot G50 EG				11				\$445,907	\$326,538	\$4,904,972	\$3,591,923
2S	G40	2	0	S	6	86.0	\$887.66	\$688.76	\$76,339	\$59,233	\$458,032	\$355,398
3S	G40	3	0	S	4	129.3	\$728.43	\$725.33	\$94,149	\$93,749	\$376,597	\$374,995
4P	G40	4	0	Р	2	1,477.5	\$537.03	\$821.46	\$793,459	\$1,213,713	\$1,586,918	\$2,427,426
48	G40	4	0	S	7	437.3	\$903.83	\$740.56	\$395,231	\$323,835	\$2,766,616	\$2,266,847
6S	G40	6	0	S	3	5.7	\$1,808.75	\$1,318.32	\$10,250	\$7,471	\$30,749	\$22,412
88	G40	8	0	S	2	26.5	\$2,645.28	\$1,812.13	\$70,100	\$48,021	\$140,200	\$96,043
16S	G40	16	0	S	1	108.0	\$11,096.37	\$7,618.61	\$1,198,408	\$822,809	\$1,198,408	\$822,809
	tot G40				25				\$262,301	\$254,637	\$6,557,518	\$6,365,930

Notes::

(1) "code" shows Pipe type and pipe diameter size

(2) "Pipe fraction" is a code for the pipe size—the codes 12, 34, and 25 represent .5, .75, and .25 inch diameter pipes, respectively (3) "Pipe type": P means plastic and S means steel.

(4)*# of new customers" represents new customers added to SoCalGas' system in the past 5 years. For residential, core commercial and industrial customers, new customer data were used (premises that initial gas service started between

2012-2016) while all the other rate classes cover the entire population that service line history could be matched by premise as very few large new customers are added to SoCalGas system each year.

(5) The average length was computed by dividing the total service line footage by rate class, line diameter, and pipe type by the number of customers used in the analysis (6) New Business is newly installed pipe, and Replacement is when we replace existing pipe. The costs represent the unit cost that is the best representation of the cost per foot, by pipe size and pipe material, to install New Business service pipe and Replacement service pipe on the Gas Distribution system.

(7) Line Extension Credit, per SoCalGas' Rule 20, effective 04/2017

WATER HEATING	\$ 643
SPACE HEATING	\$ 698
COOKTOP & OVEN	\$ 114
DRYER STUB	\$ 160
Total	\$ 1,61

	ripe Diameter		new Business	Replacement	avg labor and nonlabor			
Code	Inches	Pipe Type	\$/ft	\$/ft	\$/meter	avg \$/meter	avg \$/regulator	Total
0.5PS10	0.5	Р	\$146.46	\$176.54	\$247	\$119	\$29	\$395
0.5P30	0.5	Р	\$146.46	\$176.54	\$259	\$202	\$29	\$491
0.5PS40	0.5	Р	\$146.46	\$176.54	\$155	\$615	\$263	\$1,032
1PS10	1	Р	\$235.19	\$220.66	\$247	\$119	\$29	\$395
1P30	1	Р	\$235.19	\$220.66	\$259	\$202	\$29	\$491
1P31	1	Р	\$235.19	\$220.66	\$271	\$203	\$320	\$794
1PS40	1	Р	\$235.19	\$220.66	\$155	\$615	\$263	\$1,032
1PS41	1	Р	\$235.19	\$220.66	\$1,652	\$573	\$494	\$2,720
1PS50	1	Р	\$235.19	\$220.66	\$155	\$615	\$263	\$1,032
1PS60	1	Р	\$235.19	\$220.66	\$1,461	\$536	\$263	\$2,260
1PS80	1	Р	\$235.19	\$220.66	\$1,461	\$655	\$311	\$2,427
2P30	2	Р	\$230.98	\$196.21	\$259	\$202	\$29	\$491
0.75\$10	0.75	S	\$445.65	\$251.60	\$247	\$119	\$29	\$395
0.7530	0.75	S	\$445.65	\$251.60	\$259	\$202	\$29	\$491
0.75\$40	0.75	S	\$445.65	\$251.60	\$155	\$615	\$263	\$1,032
1S30	1	S	\$673.27	\$410.04	\$259	\$202	\$29	\$491
1SS40	1	S	\$673.27	\$410.04	\$155	\$615	\$263	\$1,032

tab = SF Meter-Serv Line Extension

Calculation of Weighted Average Service Line and Service Line Replacement Cost \$/customer

													,go
					# New				Meter and	Replacement			Meter &
		Pipe			Customers		New		Service Line	Service Line		Replacement	Regulator
		Diameter	Pipe frac	Pipe Type	last 5 years	Avg Length	Business	Replacement	CAPEX	CAPEX	Service Line	Service Line	CAPEX/
Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/customer	\$/customer	CAPEX \$'s	CAPEX \$'s	Customer
0.5PS10	SF	0	12	Р	23,872	25.2	\$146.46	\$176.54	\$1,615	\$4,450	\$38,553,280	\$106,241,859	\$395.24
0.5P30	SF	0	34	P	45,742	25.2	\$146.46	\$176.54	\$1,615	\$4,450	\$73,873,330	\$203,573,857	\$490.68
0.5PS40	SF	1	0	Р	2,106	25.2	\$146.46	\$176.54	\$1,615	\$4,450	\$3,401,190	\$9,372,711	\$1,032.45
1PS10	SF	1	0	P	6,956	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$11,233,940	\$49,730,181	\$395.24
1P30	SF	1	0	Р	15,390	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$24,854,850	\$110,026,953	\$490.68
1P31	SF	1	0	Р	29	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$46,835	\$207,328	\$793.71
1PS40	SF	1	0	Р	3,905	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$6,306,575	\$27,917,820	\$1,032.45
1PS41	SF	1	0	Р	44	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$71,060	\$314,567	\$2,719.56
1PS50	SF	1	0	Р	486	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$784,890	\$3,474,535	\$1,032.45
1PS60	SF	1	0	Р	454	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$733,210	\$3,245,759	\$2,260.15
1PS80	SF	1	0	Р	125	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$201,875	\$893,656	\$2,426.78
2P30	SF	1	0	Р	27	97.7	\$230.98	\$196.21	\$1,615	\$19,178	\$43,605	\$517,802	\$490.68
0.75S10	SF	0	34	S	52	9.3	\$445.65	\$251.60	\$1,615	\$2,327	\$83,980	\$121,020	\$395.24
0.7530	SF	0	34	S	54	9.3	\$445.65	\$251.60	\$1,615	\$2,327	\$87,210	\$125,675	\$490.68
0.75\$40	SF	0	34	S	52	9.3	\$445.65	\$251.60	\$1,615	\$2,327	\$83,980	\$121,020	\$1,032.45
1S30	SF	1	0	S	60	2.5	\$673.27	\$410.04	\$1,615	\$1,021	\$96,900	\$61,260	\$490.68
1SS40	SF	1	0	S	54	2.5	\$673.27	\$410.04	\$1,615	\$1,021	\$87,210	\$55,134	\$1,032.45
	Tot SF				99,408				\$1,615	\$5,191	\$160,543,920	\$516,001,139	\$509

Service Cost for CAPEX \$1,106

Average

Notes::

(1) "code" shows Pipe type and pipe diameter size

(2) "Pipe fraction" is a code for the pipe size—the codes 12, 34, and 25 represent .5, .75, and .25 inch diameter pipes, respectively

(3) "Pipe type": P means plastic and S means steel.

(4)"# of new customers" represents new customers added to SoCalGas' system in the past 5 years. For residential, core commercial and industrial customers, new customer data were used (premises that initial gas service started between 2012-2016) while all the other rate classes cover the entire population that service line history could be matched by premise as very few large new customers are added to SoCalGas system each year.

(5) The average length was computed by dividing the total service line footage by rate class, line diameter, and pipe type by the number of customers used in the analysis

(6) New Business is newly installed pipe, and Replacement is when we replace existing pipe. The costs represent the unit cost that is the best representation of the cost per foot, by pipe size and pipe material, to install New Business service pipe and Replacement service pipe on the Gas Distribution system.

(7) Line Extension Credit, per SoCalGas' Rule 20, effective 01/2020

WATER HEATING	\$	643
SPACE HEATING	\$	698
COOKTOP & OVEN	. \$	114
DRYER STUB	\$	160
Total	\$	1,615

	۲۱pe Diameter		new Business	Replacement	avg iapor and nonlabor			
Code	Inches	Pipe Type	\$/ft	\$/ft	\$/meter	avg \$/meter	avg \$/regulator	Total
0.5PM10	0.5	Р	\$146.46	\$176.54	\$205	\$118	\$7	\$330
0.5P30	0.5	Р	\$146.46	\$176.54	\$259	\$201	\$29	\$489
0.5PS40	0.5	Р	\$146.46	\$176.54	\$155	\$645	\$263	\$1,063
1PM10	1	Р	\$235.19	\$220.66	\$205	\$118	\$7	\$330
1P30	1	Р	\$235.19	\$220.66	\$259	\$201	\$29	\$489
1P31	1	Р	\$235.19	\$220.66	\$271	\$201	\$320	\$792
1PS40	1	Р	\$235.19	\$220.66	\$155	\$645	\$263	\$1,063
1PS41	1	Р	\$235.19	\$220.66	\$1,652	\$603	\$494	\$2,750
2PM10	1	Р	\$235.19	\$220.66	\$205	\$118	\$7	\$330
2P30	1	Р	\$235.19	\$220.66	\$259	\$201	\$29	\$489
1SM10	1	S	\$673.27	\$410.04	\$1,461.01	\$566.35	\$263	\$2,290
1S30	1	S	\$673.27	\$410.04	\$259	\$201	\$29	\$489
1SS40	1	S	\$673.27	\$410.04	\$155	\$645	\$263	\$1,063
2SM10	2	S	\$887.66	\$688.76	\$205	\$118	\$7	\$330

Calculation of Weighted Average Service Line and Service Line Replacement Cost \$/customer

Code (1)	Rate	Pipe Diameter Inches	Pipe frac	Pipe Type (3)	# New Customers last 5 years (4)	Avg Length feet (5)	New Business \$/ft (6)	Replacement \$/ft (6)	Meter and Service Line CAPEX \$/customer	Replacement Service Line CAPEX \$/customer	Service Line CAPEX \$'s	Replacement Service Line CAPEX \$'s	Meter & Regulator CAPEX/ Customer
0.5PM10	MF	0	12	P	670	19.9	\$146.46	\$176.54	\$1,615	\$3,510	\$1,082,050	\$2,351,393	\$329.93
0.5P30	MF	0	12	Р	744	19.9	\$146.46	\$176.54	\$1,615	\$3,510	\$1,201,560	\$2,611,099	\$489.40
0.5PS40	MF	1	12	Р	46	19.9	\$146.46	\$176.54	\$1,615	\$3,510	\$74,290	\$161,439	\$1,062.66
1PM10	MF	1	0	Р	3,330	24.2	\$235.19	\$220.66	\$1,615	\$5,349	\$5,377,950	\$17,811,164	\$329.93
1P30	MF	1	0	Р	2,180	24.2	\$235.19	\$220.66	\$1,615	\$5,349	\$3,520,700	\$11,660,161	\$489.40
1PS40	MF	1	0	Р	152	24.2	\$235.19	\$220.66	\$1,615	\$5,349	\$245,480	\$813,002	\$1,062.66
2PM10	MF	1	0	Р	452	39.9	\$235.19	\$220.66	\$1,615	\$8,798	\$729,980	\$3,976,492	\$329.93
2P30	MF	1	0	Р	112	39.9	\$235.19	\$220.66	\$1,615	\$8,798	\$180,880	\$985,325	\$489.40
1SM10	MF	1	0	S	56	8.3	\$673.27	\$410.04	\$1,615	\$3,416	\$90,440	\$191,277	\$2,290.35
1S30	MF	1	0	S	72	8.3	\$673.27	\$410.04	\$1,615	\$3,416	\$116,280	\$245,927	\$489.40
1SS40	MF	1	0	S	26	8.3	\$673.27	\$410.04	\$1,615	\$3,416	\$41,990	\$88,807	\$1,062.66
2SM10	MF	2	0	S	103	1.9	\$887.66	\$688.76	\$1,615	\$1,295	\$166,345	\$133,371	\$329.93
	Tot MF	·	·	·	7,943	·	·	·	\$1,615	\$5,165	\$12,827,945	\$41,029,457	\$427
												Service Cost for	

CAPEX

\$1,188

Notes::

- (1) "code" shows Pipe type and pipe diameter size
- (2) "Pipe fraction" is a code for the pipe size—the codes 12, 34, and 25 represent .5, .75, and .25 inch diameter pipes, respectively
- (3) "Pipe type": P means plastic and S means steel.
- (4)"# of new customers" represents new customers added to SoCalGas' system in the past 5 years. For residential, core commercial and industrial customers, new customer data were used (premises that initial gas service started between 2012-2016) while all the other rate classes cover the entire population that service line history could be matched by premise as very few large new customers are added to SoCalGas system each year.
- (5) The average length was computed by dividing the total service line footage by rate class, line diameter, and pipe type by the number of customers used in the analysis
- (6) New Business is newly installed pipe, and Replacement is when we replace existing pipe. The costs represent the unit cost that is the best representation of the cost per foot, by pipe size and pipe material, to install New Business service pipe and Replacement service pipe on the Gas Distribution system.
- (7) Line Extension Credit, per SoCalGas' Rule 20, effective 04/2017

WATER HEATING	\$ 64
SPACE HEATING	\$ 69
COOKTOP & OVEN	\$ 11
DRYER STUB	\$ 16
Total	\$ 1,61

		N0 081	NonCore C&I	T-4-1 N0								
		NonCore C&I Distribution G30	Transmission G30	Total NonCore C&I G30	EG G-50	EOR G-40	LB	SDG&E	swg	Vernon	Mexicali	Source
		Distribution 630	030	Cardo	LG G-30	LON G-40	LD	SDG&L	3440	Vernon	WIEAICAII	Jource
# of Meters				_		_		_	_	_	_	
ROTARY 11M & LARGER: (*)				0	1	2	1	0	6	0	0	
TURBINE MSA'S (*)				3	29	2	0	1	7	0	1	
ORIFICE METERS (ultra sonic)				5	38	0	4	10	0	2	0	_
Total # meters				8	68	4	5	11	13	2	1	_
Investment in Meters:	Meter Cost \$/meter	_										
ROTARY 11M & LARGER: (*)	\$13,184	\$ 0	\$0	\$0	\$13,184	\$26,367	\$13,184	\$0	\$79,102	\$0	\$0	
TURBINE MSA'S (*)	\$764,079	\$2,009,022	\$283,215	\$2,292,237	\$22,158,291	\$1,528,158	\$0	\$764,079	\$5,348,553	\$0	\$764,079	
ORIFICE METERS (ultra sonic)	\$2,595,764	\$11,375,234	\$1,603,586	\$12,978,820	\$98,639,032	\$0	\$10,383,056	\$25,957,640	\$0	\$5,191,528	\$0	_
Total Investment \$'s	2021 \$s	\$13,384,256	\$1,886,801	\$15,271,057	\$120,810,507	\$1,554,525	\$10,396,240	\$26,721,719	\$5,427,655	\$5,191,528	\$764,079	_
allocation of Total NonCore C&I to Distribution	& Transmission	88%	12%									
Total Investment \$'s	2021 \$s	\$13,215,373	\$1,862,993	\$15,078,366	\$119,286,115	\$1,534,910	\$10,265,059	\$26,384,543	\$5,359,168	\$5,126,021	\$754,438	
2016 Number of Customers		519	19	538	372	30	1	1	1	1	1	_ Tab 'cust 2"
Exclusive Use Cost Per Customer	2021\$s	\$25,463.15	\$98,052.27	\$28,026.70	\$320,661.60	\$51,163.67	\$10,265,059.48	\$26,384,543.35	\$5,359,168.35	\$5,126,021.11	\$754,437.82	_

Note : This is part of Exclusive Use Facilities Costs

Exclusive Use Meter Cost \$/meter	2021 \$s	TURBINE METERS 4"-12"	ROTARY METERS 4" - 6"	ULTRASUNIC METERS 4" - 16"
Avg. Labor Cost		\$110,525	\$1,144	\$230,483
Avg. Contract Cost		\$431,457	\$0	\$600,495
Avg. Materials Cost		\$222,097	\$12,040	\$1,764,786
TOTAL		\$764,079	\$13,184	\$2,595,764

SCG 2024 TCAP LRMC Customer Cost Allocation of Customer-Related Distribution O&M

									Core						
				Residential							Non-l	Residential			
		Single	Multi	Master	Meter	Residential				G-10			Gas Air	Natrual Gas	Gas
		Family	Family	Small	Large	Total	Very Small	Small	Medium	Large	Very Large	Total	Conditioning	Vehicle	Engine
2021 Number of Customers		3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718
Customer Services O&M Costs	s														
Total Cost	2021 M\$s	\$86,028	\$40,204	\$2,716	\$1	\$128,949	\$4,327	\$4,725	\$11,943	\$855	\$224	\$22,075	\$0	\$83	\$96
Cost Per Customer:	2021 \$s	22.68	22.68	22.68	22.68	22.68	48.67	73.21	254.07	411.43	717.11	108.83	19.10	340.68	134.0
	2024 \$s	24.52	24.52	24.52	24.52	24.52	52.61	79.13	274.62	444.70	775.09	117.63	20.65	368.22	144.91
ustomer Accounts O&M Costs															
otal Cost: ost Per Customer:	2021 M\$s 2021 \$s	\$53,585 14.13	\$25,042 14.13	\$1,692 14.13	\$1 14.13	\$80,319 14.13	\$1,111 12.50	\$687 10.65	\$5,977 127.16	\$163 78.63	\$118 375.77	\$8,057 39.72	\$4 479.68	\$285 1,162.94	\$49 67.57
ost rei Customer:	2021 \$s 2024 \$s	14.13 15.27	14.13 15.27	14.13 15.27	14.13 15.27	14.13 15.27	12.50	10.65	127.16	78.63 84.99	3/5.// 406.16	39.72 42.93	479.68 518.46	1,162.94	67.5 73.0
	2024 93	•		10.21	10.21	10.27	10.01	11.01	107.44	04.55	400.10	72.30	310.40	1,200.01	10.0
egmentation by number of custo	omers	66.71%	31.18%	2.11%	0.001%										
leters, Reg & MSAs O&M Cos	sts														
otal Cost	2021 M\$s	\$5,587	\$2,191	\$569	\$3	\$8,351	\$3	\$4	\$5	\$1	\$0	\$13	\$0	\$0	\$0
Cost Per Customer:	2021 \$s	1.47	1.24	4.75	65.21	1.47	0.03	0.06	0.11	0.39	0.57	0.06			
	2024 \$s	1.59	1.34	5.14	70.49	1.59	0.04	0.06	0.12	0.42	0.62	0.07	0.62	0.62	0.62
Camilan Linea COM Conta															
	2021M \$s	I \$45.310	1												
otal Costs	2021M \$s 2024 \$s	\$45,310 \$48,973,451													
otal Costs otal Service Line Footage		\$48,973,451 231,707,635	58,800,895	11,613,724	14,016	302,136,270	12,721,655	6,951,318	6,611,352	562,372	116,057	26,962,754	250	60,700	625,8
otal Costs otal Service Line Footage ercent of Total Footage	2024 \$s	\$48,973,451 231,707,635 70.22%	58,800,895 17.82%	3.52%	0.00%	91.56%	3.86%	2.11%	2.00%	0.17%	0.04%	8.17%	0.00%	0.02%	0.19
Service Lines O&M Costs Total Costs Total Service Line Footage Percent of Total Footage Ullocated SL O&M Costs Cost Per Customer		\$48,973,451 231,707,635	58,800,895	11,613,724 3.52% \$1,723,624 \$14,39											625,8 0.19 \$92,88 \$129.

Calculation of Customer Service & Information Cost (CSI) Costs Accounts (FERC Accounts 907 to 910):

Ca	alculation of Customer Service & Information Cost (CSI) Co	sts Accounts (FERC Accounts 907	to 910):						
						2021 Costs in			
				GRC Exclusion		Transport			
139 Ca	alculation of Customer Service & Information Costs (CSI Cost	2021 Costs M\$	Items	Other Adjustments	Rates		Exclusions	2021 \$	
	7 Cus Svc-Supervision + Payroll Taxes	\$274	\$0	\$0	\$274	FERC Form 2	Self Generation (acct 908)	\$10,876,259	
141 90	8 Cus Svc-Cust Assist Exp (PBR Ex DAP, DSM &Self-Gen)	NON-DSM CUST. INFO	\$267,147	(\$228,960)	\$0	\$38,187	FERC Form 2	Energy Efficiency (acct 908)	\$115,795,522
142 90	9 Cus Svc-Info & Instruction Exp	NON-DSM CUST. INFO	\$1,835	\$0	\$0	\$1,835	FERC Form 2	Low Income Energy Efficiency (acct 908)	\$102,073,863
143 91	0 Cus Svc-Misc CSI Exp	NON-DSM CUST. INFO	\$2,436	\$0	\$0	\$2,436	FERC Form 2	AB802MA (acct 908)	\$213,621
144			\$271,692	(\$228,960)	\$0	\$42,732		MEOMA (acct 908)	\$0
147					_		_	WDRMA (acct 908 and 907001)	\$596
148 CS	S&I O&M, 2021 \$000's					\$42,732	_		\$228,959,861
149							-		

			Residential	CCI	G-AC	G-GEN	NGV	Total Core	NCCI	EG Tier 1	EG Tier 2	EOR	Total Retail NonCore	Long Beach
1	Calculation of CSI Cost Allocator:													
2	Energy Markets Costs:													
3	Mgmnt estimate - FTE			0.3	0.0	0.0	0.0	0	0.7	0.2	3.3	2.2	6.4	0.6
4	Energy Markets		0.0%	2.8%	0.0%	0.0%	0.0%	2.8%	7.3%	2.4%	36.1%	23.5%	69.3%	6.5%
5	Energy Markets	\$884	\$0	\$25	\$0	\$0	\$0	\$25	\$65	\$21	\$319	\$207	\$613	\$57
6	Large C&I:													
7	# Large C&I Customers		0	2,391	0	0	0	2,391	538	0	0	0	538	0
8	% Large C&I only		0.0%	81.6%	0.0%	0.0%	0.0%	81.6%	18.4%	0.0%	0.0%	0.0%	18.4%	0.0%
9	Large C&I	\$5,719	\$0	\$4,668	\$0	\$0	\$0	\$4,668	\$1,050	\$0	\$0	\$0	\$1,050	\$0
10	NGV	\$2,553	\$0	\$0	\$0	\$0	\$2,553	\$2,553	\$0	\$0	\$0	\$0	\$0	\$0
11	Residential	\$10,728	\$10,728	\$0	\$0	\$0	\$0	\$10,728	\$0	\$0	\$0	\$0	\$0	\$0
12	Small Business													
13	# G10, G-AC, G-GE Customers only		0	202,835	0	0	0	202,835	0	0	0	0	0	0
14	Small Business		0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
15	Small Business	\$1,617	\$0	\$1,617	\$0	\$0	\$0	\$1,617	\$0	\$0	\$0	\$0	\$0	\$0
16	Econ Development													
17	# Large C&I Customers		0	2,391	0	0	0	2,391	538	0	0	0	538	0
18	% Large C&I only		0.0%	81.6%	0.0%	0.0%	0.0%	81.6%	18.4%	0.0%	0.0%	0.0%	18.4%	0.0%
19	Econ Development	\$8,353	\$0	\$6,819	\$0	\$0	\$0	\$6,819	\$1,534	\$0	\$0	\$0	\$1,534	\$0
20	Other Residential	\$5,889	\$5,889	\$0	\$0	\$0	\$0	\$5,889	\$0	\$0	\$0	\$0	\$0	\$0
21	Total	\$35,743	\$16,617	\$13,129	\$0	\$0	\$2,553	\$32,299	\$2,649	\$21	\$319	\$207	\$3,197	\$57
22	Allocator %		46.5%	36.7%	0.0%	0.0%	7.1%	90.4%	7.4%	0.1%	0.9%	0.6%	8.9%	0.2%

SCG 2024 TCAP LRMC Customer Cost Allocation of Customer-Related Distribution O&M

								Noncore						ı
							No	n-Residential						Total
			G-30		Small EG	EG	EOR		Who	lesale		Intl		Over All
		Distribution	Transmission	Total	1	G-50	G-40	LB	SDG&E	SWG	Vernon	ECOGAS		Customers
1 2021 Number of Customers		519	19	538	351	21	30	1	1	1	1	1		5,889,515
2 Total Cost	2021 M\$s	,		L #000	675		40				***	1 00		D 454 574
2 Total Cost 3 Cost Per Customer:	2021 M\$s 2021 \$s			\$290 538.34	\$75 213.35	\$4 213.35	\$2 50.03	\$0 0.00	\$0 0.00	\$0 0.00	\$0 0.00	\$0 0.00		\$151,574
3 Cost Per Customer.	2021 \$s 2024 \$s			581.86	230.60	230.60	54.08	0.00	0.00	0.00	0.00	0.00		
4	2024 \$S			581.86	Total EG	\$79	54.08	0.00	0.00	0.00	0.00	0.00		
					TOTAL	1 4/3	!							
Customer Accounts O&M Cos	sts													
5 Total Cost:	2021 M\$s			\$898	\$604	\$36	\$51	\$7	\$5	\$11	\$4	\$3		\$90,332
6 Cost Per Customer:	2021 \$s			1,668.83	1,720.92	1,720.92	1,696.63	6,530.71	5,087.00	10,861.85	3,643.28	2,921.42		
7	2024 \$s			1,803.76	1,860.06	1,860.06	1,833.81	7,058.74	5,498.30	11,740.07	3,937.85	3,157.63		
8														
9 segmentation by number of co	ustomers				EG O&M cost									
					94%	6%	note: split EC	costs by # of cu	stomers					
Meters, Reg & MSAs O&M (1			1 4540	201	210				24	1		
10 Total Cost	2021 M\$s			\$62	\$513	\$61	\$42	\$8	\$8	\$17	\$1	\$1		\$9,077
11 Cost Per Customer:	2021 \$s			115.24	1,461.54	2,904.76	1,400.00	8,000.00	8,000.00	17,000.00	1,000.00	1,000.00		
12	2024 \$s	124.56	124.56	124.56	1,579.71	3,139.62	1,513.19	8,646.82	8,646.82	18,374.50	1,080.85	1,080.85		
Service Lines O&M Costs														
13 Total Costs	2021M \$s	7												
14	2024 \$s													
15 Total Service Line Footage		104,645	16,542	121,188	46,579	16,273	11,667	0	0	0	0	0		329,981,545
16 Percent of Total Footage		0.03%	0.01%	0.04%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		100.00%
17 Allocated SL O&M Costs	2024 \$s	\$15,531	\$2,455	\$17,986	\$6,913	\$2,415	\$1,732	\$0	\$0	\$0	\$0	\$0		\$48,973,451
18 Cost Per Customer	2024 \$s	\$29.92	\$129.21	\$33.43	\$19.70	\$115.00	\$57.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$8.32
Calculation of Customer Se	rvice & Informatio													
5 Total Cost:	2021 M\$s	'i 		\$3,167	\$26	\$382	\$248	\$69	\$65	\$75	\$55	\$30	I	\$42,732
3 Cost Per Customer:	2021 \$s	1		5,887.41	72.96	18,175,54	8,261.26	68.590.22	64.946.55	75.148.83	55,473.00	30,252.33		7.26
A COST OF COSTORIO	2024 \$s	1		6.363.42	78.86	19.645.09	8.929.20	74,135.95	70.197.67	81.224.84	59.958.16	32.698.32		120
·	2024 95			0,000.42	70.00	15,045.09	0,323.20	14,100.00	10,151.07	01,224.04	J3,3JU.10	32,050.32	L	

Calculation of Customer Service & Information

139 Calculation of Customer Service & Information
140 907 Cus Svc-Supervision + Payroll Taxes
141 908 Cus Svc-Cust Assist Exp (PBR Ex DAP, DSM &

142 909 Cus Svc-Info & Instruction Exp

143 910 Cus Svc-Misc CSI Exp

144

147

148 CS&I O&M, 2021 \$000's

SYSTEM Total SDG&E South West Gas Vernon Whole sale DGN UBS TOTAL Total Noncore Sources Calculation of CSI Cost Allocator: Energy Markets Costs: Mgmnt estimate - FTE 0.5 5.3% 2.3 25.0% 0.0 0.0% 9.2 100.0% 0.6 6.1% 0.7 7.1% 8.9 97.2% 0.3 Energy Markets Energy Markets
Energy Markets
Large C&I:
Large C&I Customers
% Large C&I only
Large C&I
NGV
Residential
Small Business
G10 G-AC G-GE Cust \$25 \$54 \$63 \$46 \$221 \$0 \$859 \$884 538 2,929 2021 Customer Count 18.4% \$1,050 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10,728 \$0 # G10, G-AC, G-GE Customers only 202,835 20213 Customer Count from SCG Cust Cost model "cust 2" Small Business 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 100.0% Small Business \$0 \$1,617 538 2013 Customer Count from SCG Cust Cost model "cust 2" 0 2.929 18.4% \$1,534 100.0% \$8,353 \$0 \$0 \$0 \$5.889 \$54 **0.2%** \$46 0.1% \$3,444 9.6% \$35,743 0.2% 0.6% 0.1% 0.0% 100.0%

Schmidt-Pines Section 1 Workpapers File = SCG 2024TCAP LRMC Customer Costs Tab = cust 8 o&m

SCG 2024 TCAP LRMC Customer Cost Weighted Average RECC and Replacement Factors

S10

<u>Line</u> 1. 2.	CUSTOMER CLASS	<u>RATE</u>	Excluded AVERAGE LABOR COST	AVERAGE METER COST	AVERAGE <u>REGULATOR COST</u> Ilars	AVERAGE TOTAL COST	WEIGHTED REPLACEMENT Percent	WEIGHTED <u>RECC</u> Percent	WEIGHTED <u>PVRR</u>
3.	SINGLE FAMILY	GR	257.00	202.42	46.32	505.73	1.88%	8.65%	121.48%
4.	MULTIPLE FAMILY	GR	217.60	141.87	14.83	374.31	1.64%	8.65%	121.52%
5.	MASTER METERED BAND 1	GM,GS	841.28	504.51	295.51	1641.30	1.78%	8.56%	121.63%
6.	MASTER METERED BAND 2	GM,GS	17976.74	2677.02	1860.74	22514.50	0.73%	8.48%	121.93%
7.	RESIDENTIAL WEIGHTED AVERAGE	· · · · · · · · · · · · · · · · · · ·	170.67	146.45	32.51	349.62	1.96%	8.66%	121.45%
8.	SMALL CORE BAND 1	G-10	340.12	263.02	104.02	707.17	1.93%	8.61%	121.53%
9.	SMALL CORE BAND 2	G-10	508.71	451.10	206.13	1165.95	2.08%	8.61%	121.50%
10.	SMALL CORE BAND 3	G-10	1159.64	728.69	434.08	2322.41	1.82%	8.57%	121.62%
11.	SMALL CORE BAND 4	G-10	3620.77	2445.16	1909.29	7975.21	1.95%	8.55%	121.63%
12.	SMALL CORE BAND 5	G-10	4897.05	3921.86	2931.85	11750.77	2.09%	8.56%	121.58%
13.	G10 AVERAGE		430.93	901.17	194.53	1,526.63	2.75%	8.75%	121.18%
14.	GAS COOLING	GAC	2605.71	1410.99	1070.05	5086.75	1.75%	8.54%	121.67%
15.	Natural Gas Vehicles	NGV	79940.63	4276.83	2079.11	86296.57	0.27%	8.46%	122.04%
16.	GAS ENGINES	GENG	1844.30	800.81	585.81	3230.92	1.54%	8.53%	121.72%
17.	NONCORE COMM/IND TRANSMISSION	G-30	275104.17	9282.22	2850.56	287236.96	0.16%	8.45%	122.07%
18.	NONCORE COMM/IND DISTRIBUTION	G-30	124688.07	6150.18	2799.23	133637.47	0.25%	8.46%	122.05%
19.	NONCORE COMM/IND TOTAL	G-30	130,000.16	6,260.79	2,801.04	139061.99	0.24%	8.46%	122.05%
20.	COGENERATION	G-50	94640.85	3504.80	1236.05	99381.70	0.18%	8.45%	122.06%
21.	EOR	G-40	371704.69	11358.89	2945.07	386008.65	0.14%	8.45%	122.07%
22.	SYSTEM AVERAGE		197.25	173.32	38.52	409.08	1.98%	8.66%	121.44%
22.	INVERSE OF BOOK LIFE		0.00%	4.00%	3.03%				
23.	RECC		8.44%	9.04%	8.12%				
23.	PVRR		122.12%	120.53%	122.09%				

SCG 2024 TCAP LRMC Customer Cost Weighted Average RECC and Replacement Factors

Weighted Average RECC and Replacement Factor for Exclusive Use Facilities

<u>Line</u> 1. 2.	CUSTOMER CLASS	<u>RATE</u>	GEMs Dollars	AVERAGE TOTAL COST Dollars	WEIGHTED REPLACEMENT Percent	WEIGHTED RECC
3. 4.	NONCORE COMM/IND TRANSMISSION NONCORE COMM/IND DISTRIBUTION	G-30 G-30	1,862,993 13,215,373	1,862,993 13,215,373	4.00% 4.00%	9.04% 9.04%
5.	NONCORE COMM/IND TOTAL	G-30	15,078,366	15,078,366	4.00%	9.04%
6.	COGENERATION	G-50	119,286,115	119,286,115	4.00%	9.04%
7.	EOR	G-40	1,534,910	1,534,910	4.00%	9.04%
8.	LONG BEACH		10,265,059	10,265,059	4.00%	9.04%
9.	SAN DIEGO GAS & ELECTRIC		26,384,543	26,384,543	4.00%	9.04%
10.	SOUTHWEST GAS		5,359,168	5,359,168	4.00%	9.04%
11.	VERNON		5,126,021	5,126,021	4.00%	9.04%
12.	DGN	_	 754,438	754,438	4.00%	9.04%
13.	SYSTEM TOTAL		198,866,988	198,866,988	4.00%	9.04%
14.	INVERSE OF BOOK LIFE		4.00%			
15.	RECC factors		9.04%			

Source:Meter cost detail

SOUTHERN CALIFORNIA GAS

2021 Economic Assumptions Update LEVELIZED ANNUAL CAPITAL COST AND RECC FACTORS

	utility socal		uth RO						====>	21.00%			x Rate ===>		d Valorum	Rate ===>	•	1.342%	
FERC			Fed	State		Normlzd	Normlzd		Depreciat	ion Metho	od		LACC Com	ponents	(in percent)	Т		PVCC	Sum of
Account	Account Name	Boo Life		Tax Life	Percent Salvage	Federal Taxes ?	State Taxes ?	Feder	al Tax	State	Тах	Book Depr				Total LACC	RECC Factors	Factors	Rev Req
GAS UN	DERGROUND STORAGE	9	10	11	12	13	14		15		16	19	20	21	22	23	25	26	27
	Wells	49		22	-70%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.47	3.83	0.97	0.73	9.01	7.08	119.48	224.69
	Lines Compressor Station Equipment	54 41		22 22	-40% -15%	TRUE TRUE	FALSE FALSE	db/sl db/sl	150% 150%	db/sl db/sl	200% 200%	2.59 2.80	4.41 4.46	1.09 1.11	0.87 0.88	8.97 9.26	6.99 7.43	120.14 119.86	282.24 276.35
	Purification Equipment	39		22	-30%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.33	4.16	1.04	0.80	9.34	7.53	119.75	253.27
GAS TR	ANSMISSION PLANT																		
G-365.1	Land	0	0	0	0%	FALSE	FALSE	none	0%	none	0%	0.00	7.30	2.10	1.34	10.74	n/a	147.12	1105.13
	Land Rights	#N/			#N/A	#N/A	#N/A	#N/A	#N/A	sl	#N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	Structures & Improvements	47		45	-40%	TRUE	FALSE	sl	0%	db/sl	0%	2.98	4.68	1.38	0.83	9.86	7.79	130.22	287.81
	Mains	64		22 22	-60% -15%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.50	4.40	1.09	0.87	8.86	6.81	120.09	265.76
	Compressor Station Equipment Measuring & Regulating Equipment	50 46		22 22	-15% -50%	TRUE	FALSE FALSE	db/sl db/sl	150% 150%	db/sl db/sl	200% 200%	2.30 3.26	4.67 4.04	1.15 1.01	0.94 0.78	9.06 9.10	7.11 7.20	120.42 119.75	309.85 247.73
	Other Equipment	21		22	-10%	TRUE	FALSE	db/si	150%	db/si	200%	5.24	4.04	1.10	0.74	11.16	9.69	118.09	203.20
0071	Caron Equipment		10		1070	TITOL	TALOL	ub/oi	10070	ab/oi	20070	0.21	1.00	1.10	0.71	11.10	0.00	110.00	200.20
GAS DIS	STRIBUTION PLANT																		
G-374.1		0	0	0	0%	FALSE	FALSE	none	0%	db/sl	0%	0.00	7.30	2.10	1.34	10.74	n/a	147.12	1105.13
	Land Rights	40		40	0%	FALSE	FALSE	sl	0%	db/sl	0%	2.50	5.17	1.49	0.93	10.09	8.11	130.02	313.88
	Structures & Improvements	40		45	-10% -80%		FALSE	sl 	0%	db/sl	0%	2.75	4.99	1.47	0.89	10.10	8.12	130.11	302.03
	Mains Measuring & Regulating Equipment	68 47		35 35	-80% -95%	TRUE	FALSE FALSE	db/sl db/sl	150% 150%	db/sl db/sl	200% 200%	2.65 4.15	4.38 3.50	1.19 1.00	0.84 0.62	9.05 9.27	6.92 7.32	122.96 122.34	231.10 191.81
	Services	67		35	-95 % -115%	TRUE	FALSE	db/sl	150%	db/si	200%	3.21	3.94	1.11	0.02	8.99	6.89	122.09	150.81
	Meters	25		35	5%	TRUE	FALSE	db/si	150%	db/si	200%	3.80	4.62	1.34	0.75	10.62	9.04	120.53	229.99
	Meter & Regulator Installations	30		35	-10%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.67	4.41	1.24	0.82	10.14	8.44	122.12	243.24
	House Regulators	33	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.88	4.77	1.32	0.91	9.88	8.12	122.09	266.77
G-387	Other Equipment	21	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.52	4.57	1.37	0.83	11.29	9.80	119.44	211.60
GAS GE	NERAL PLANT																		
G-390	Structures & Improvements	33	39	45	-15%	TRUE	FALSE	sl	0%	db/sl	0%	3.48	4.74	1.43	0.82	10.47	8.61	129.47	269.48
	Office Furniture & Equipment	14		10	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	7.14	3.81	0.97	0.73	12.65	11.45	108.66	166.78
	Computer Equipment	5	5	6	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	20.00	3.78	1.09	0.57	25.44	24.59	103.47	125.64
	Stores Equipment	20		35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	5.00	4.45	1.33	0.79	11.56	10.09	119.69	205.90
	Shop & Garage Equipment	29		35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.45	4.59	1.30	0.86	10.20	8.52	121.60	245.35
	Large Portable Tools	24		35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.17	4.50	1.31	0.82	10.80	9.23	120.67	223.46
	Laboratory Equipment	25		35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.00	4.52	1.30	0.83	10.65	9.06	120.88	227.84
	Communications Equipment	15		10	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	6.67	3.82	0.96	0.74	12.19	10.96	108.93	171.15
	Miscellaneous Equipment	20 10		35 3	0% 0%	TRUE	FALSE FALSE	db/sl sl	150% 0%	db/sl	200% 0%	5.00 10.00	4.45 3.51	1.33 0.76	0.79 0.68	11.56 14.95	10.09	119.69 103.58	205.90 146.07
	Software Programs - 10yr ASL Software Programs - 15yr ASL	15		3	0% 0%	TRUE	FALSE	si	0% 0%	db/sl db/sl	0%	6.67	3.51	0.76	0.68	14.95	13.91 10.57	105.58	167.96
	Software Programs - 20yr ASL	20		3	0%	TRUE	FALSE	sl	0%	db/si	0%	5.00	3.74	0.74	0.74	10.26	8.96	105.00	189.85
	Software Programs - 3yr ASL	3	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	33.33		1.08	0.47	38.65	37.98	100.20	115.42
	Software Programs - 6yr ASL	6	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	16.67		0.84	0.60	21.63	20.74	102.14	128.56

Calculation of Marginal Customer Costs 2024 \$/Customer Marginal Unit O&M and Annualized Cost 2024 Loaders CAPEX **CAPEX** (\$/customer/ (\$/customer/ **Customer Class** RECC % \$/customer (\$/customer/year) year) year) Residential \$1,936.79 7.37% \$142.76 \$145.62 \$288.38 Core C/I¹⁴ \$724.76 \$12,388.50 7.09% \$878.76 \$1,603.52 Gas A/C¹⁵ \$1,491.30 \$84,402.52 6.99% \$5,899.62 \$7,390.92 Gas Engine¹⁶ \$953.52 \$208.702.74 6.91% \$14,426,44 \$15.379.96 NGV \$178,300.01 7.68% \$13,695.81 \$41,532.12 \$55,227.93 Noncore C/I¹⁷ \$24,452.12 \$587,618.19 7.39% \$43,399.46 \$67,851.57 Small EG¹⁸ \$10,346.66 \$294,166.14 7.44% \$21,884.11 \$32,230.78 Large EG¹⁹ \$68,605.03 \$1,703,116.58 \$138,533.17 \$207,138.21 8.13% EOR²⁰ \$34,008.27 \$728,828.22 7.90% \$57,602.56 \$91,610.84 Long Beach²¹ \$246,637.98 \$10,265,059.48 9.04% \$927,589.73 \$1,174,227.71 SDG&E²² \$231,542.60 \$26,384,543.35 9.04% \$2,384,207.47 \$2,615,750.06 Southwest Gas²³ \$305,655.23 \$5,359,168.35 9.04% \$484.274.79 \$789.930.02 Vernon²⁴ \$178,378.16 \$5,126,021.11 \$463,206.72 \$641,584.88 9.04% Ecogas²⁵ \$101,400.99 \$754,437.82 9.04% \$68,173.86 \$169,574.86

¹⁴ Core C&I are the Core Commercial & Industrial customers

¹⁵ Gas A/C are the Gas Air Conditioning for Commercial & Industrial customers

¹⁶ Gas Engine are Core Gas Engine Water Pumping Service for Commercial and Industrial

¹⁷ Noncore C/I are Noncore Commercial & Industrial customers

¹⁸Small EG are Electric Generation customers with usage less than 3 million therms/year

¹⁹Large EG are Electric Generation customers with usage greater than 3 million therms/year

²⁰EOR are Enhanced Oil Refinery customers

²¹ Long Beach is the Wholesale - City of Long Beach customer

²² SDG&E is the Wholesale – San Diego Gas & Electric customer

²³SW Gas is the Wholesale – Southwest Gas Corporation's service territory in southern California

²⁴Vernon is the Wholesale – City of Vernon customer

²⁵Ecogas is the Wholesale – ECOGAS Mexico, S. de R.L. de C.V. customer

SoCalGas 2024 TCAP

Section 2 Long Run Marginal Distribution Cost Model

Workpapers to the Prepared Written Testimony of Marjorie Schmidt-Pines

General Information about the Distribution Model

This model estimates Demand-related Long Run Marginal Costs (LRMC) for SoCalGas' Distribution Systems, separately for High Pressure and Medium Pressure Distribution Systems.

This workbook contains multiples sheets. These sheets are categorized into:

a) Input/Calculations Sheets,

b) Output/Calculation Sheets, and

Below is a description of each of these sheets

Input/Calculation Sheets:

HPD_Peak_Month_Demand: Cost Driver for High Pressure Distribution Mains. It contains 3 Tables:

- 1: Peak Month Demand by Customer Class: Historical Data,
- 2: Peak Month Demand by Customer Class: Forecast Data,
- 3: Number of customers by class: Historical Data,
- 4: Number of customers by class: Forecasted Data, and
- 5: Level of usage of High Pressure Distribution Service by Customer Class.

MPD Per contains 3 Tables:

- 1: Peak Day Demand by Customer Class: Historical Data,
- 2: Peak Day Demand by Customer Class: Forecast Data, and
- 3: Level of Usage of Medium Pressure Distribution Services by Customer Class.

IN_investment_History: It contains Historical inputs needed to estimate Annualized Investment-related LRMC. It includes 9 Tables:

- 1: High Pressure Distribution (HPD) Mains Footage Investment: New Business & Replacement Combined,
- 2: Total Plastic Distribution Mains Footage Investment: New Business & Replacement Combined,

(Note: no HP Plastic Distribution Mains)

3: Total Steel Distribution Mains (including HP) Footage Investment: New Business & Replacement Combined,

(Medium Pressure (MP) Steel Distribution Mains Footage is calculated as the residual)

- 4: Plastic New Business Vs. Replacement Distribution Mains Footage: Based on a Sample Survey,
- 5: Steel New Business Vs. Replacement Distribution Mains Footage: Based on a Sample Survey,
- 6: Plastic Mains Pressure Betterment Investment as a Fraction of Total Plastic Mains Investment,
- 7: Steel Mains Pressure Betterment Investment as a Fraction of Total Steel Mains Investment,
- 8: Contribution in Aid of Construction as a Fraction of Total Distribution Mains Cost,
- 9: Account 378 (Meters & Regulator Stations) Investment Info.

OUT_Investment_Forecast: It contains Forecasted inputs needed to estimate Annualized Investment-related LRMC. It includes 1 Tal

1: Forecasted Distribution-related Investment Costs:

Intermediate Output/Calculation Sheets:

HPD_Peak_Month_Demand: It calculates 4 Tables:

- 1: Peak Month Demand for Additional Customers Served by Customer Class,
- 2: Average Coincident Peak Month Demand per Customer,
- 3: Coincident Peak Month Demand for additional Customer served, and
- 4: High Pressure Distribution-Service-Usage-Weighted Coincident Peak Month Demand for Additional Customers Served.

Peak_Day_Demand: It calculates 5 Tables:

- 1: Number of Customers by Class,
- 2: Number of Additional Customers Served,
- 3: Average Peak Day Demand per Customer,
- 4: Peak Day Demand for Additional Customer served, and
- 5: Medium Pressure Distribution-Service-Usage-Weighted Peak Day Demand for Additional Customers Served.

OUT_Investment_History: It contains 4 Tables:

- 1: Plastic Distribution Mains: New Business, Pressure Betterment & Contribution in Aid of New Construction.
- 2: Steel Distribution Mains: New Business, Pressure Betterment & Contribution in Aid of New Construction.
- 3: High Pressure Distribution Mains: New Business, Pressure Betterment & Contribution in Aid of New Construction.
- 4: Load-Growth-related HP & MP Distribution Investments by Components & Total

OUT_Investment_Forecast: It contains 1 Table:

1: Allocation Factor, High & Medium Pressure Distribution Mains Forecasted Investments

OUT_MP_LRMC: It contains 4 Table:

- 1: System Demand Determinate, it estimates the distribution LRMC
- 2: Regression of Distribution Investment, it estimates Regression Coefficients for MP and HP Investment
- 3: Calculate Weighted Average RECC Factor, it estimates Regression Coefficients for HP Investment
- 4: % Share of investment between MPD and HPD



HPD Peak Month 2024 TCAP

							NonCore C&I G-						Cumulative
Year	Residential	Core C&I G10	Gas AC	NGV	Gas Eng	Total Core	30	EOR G-40	EG G-50	Total Noncore	Wholesale	Total System	Total
Table 1: Co	incident Peak Mon	nth Demand by Cust	tomer Class (Mcf): Analysis	Period								
2011	33,158,369	10,274,743	4,780	821,302	61,959	44,321,152	12,624,707	1,197,599	26,180,912	40,003,218	0	84,324,370	(1)
2012	33,529,230	10,561,089	4,488	887,719	80,223	45,062,748	12,336,990	574,786	23,602,690	36,514,465		81,577,213	
2013	34,474,944	10,688,621	4,643	914,448	119,725	46,202,380	12,035,985	2,017,821	23,384,401	37,438,207		83,640,587	
2014	34,233,857	10,535,790	5,216	961,365	88,873	45,825,102	13,118,963	1,770,415	21,835,259	36,724,637		82,549,739	
2015	32,267,744	10,664,737	4,371	919,641	73,833	43,930,326	12,018,388	1,709,949	19,658,518	33,386,855		77,317,181	
2016	31,079,807	10,195,310	5,105	1,100,279	98,288	42,478,789	14,272,532	1,978,620	18,744,194	34,995,345		77,474,134	
2017	35,464,898	11,414,321	5,593	1,189,689	111,750	48,186,250	13,472,390	1,411,859	15,095,793	29,980,042		78,166,292	
2018	34,433,021	11,225,909	1,275	1,205,263	83,698	46,949,166	13,250,126	1,686,235	15,063,031	29,999,392		76,948,558	
2019	34,174,027	11,182,613	1,055	1,236,293	76,692	46,670,678	13,563,407	1,559,018	18,977,545	34,099,970		80,770,648	
2020	35,214,192	9,995,333	564	1,069,007	99,958	46,379,053	13,180,122	1,498,188	17,588,672	32,266,981		78,646,035	
2021	33,036,733	10,613,559	923	1,292,908	83,739	45,027,863	12,825,458	799,403	18,831,785	32,456,645		77,484,508	
2022	36,580,938	10,883,426	867	1,330,579	87,015	48,882,826	13,838,557	1,296,573	18,810,465	33,945,594	0	82,828,420	•
2023	36,159,492	10,578,875	867	1,357,046	87,015	48,183,295	13,855,442	1,296,573	18,797,216	33,949,231	0	82,132,526	
2024	35,599,937	10,295,184	867	1,387,516	87,015	47,370,519	13,874,784	1,296,573	17,478,912	32,650,269	0	80,020,788	
2025	34,942,272	10,036,879	867	1,420,599	87,015	46,487,633	13,869,130	1,296,573	16,811,896	31,977,599	0	78,465,232	
2026	34,320,756	9,808,977	867	1,455,538	87,015	45,673,152	13,862,758	1,257,675	16,408,590	31,529,024	0	77,202,176	
	umber of Custome		40	400	000	E ECA CA7	045	22	400	007	0	F FCO 404	
2011 2012	5,355,438 5,380,407	205,300 204,351	12 10	198 199	699 695	5,561,647 5,585,662	615 607	33 38	189 199	837 844	0 0	5,562,484 5,586,506	
2012	5,422,975	206,292	9	205	709	5,630,190	577	32	220	829	0	5,631,019	
2014	5,446,579	204,616	9	218	712	5,652,134	571	32	228	831	Ö	5,652,965	
2015	5,475,689	203,977	10	226	714	5,680,616	565	34	247	846	0	5,681,462	
2016	5,516,213	203,580	9	245	718	5,720,765	554	33	313	900	0	5,721,665	-
2017	5,552,767	203,710	9	251	711	5,757,448	572	24	344	940	0	5,758,388	
2018	5,585,261	203,226	6	262	691	5,789,446	567	24	346	937	0	5,790,383	
2019 2020	5,621,561 5,651,072	203,895 202,864	5 4	262 282	682 658	5,826,405 5,854,880	572 565	23 22	350 367	945 954	0 0	5,827,350 5,855,834	
2021	5,684,763	202,835	4	290	639	5,888,531	554	22	364	940	0	5,889,471	
2022	5,710,782	203,089	5	359	29	5,970,638	595	34	391	1,019	0	5,971,658	
2023	5,753,044	203,003	5	366	29	5,956,596	584	34	380	998	0	5,957,594	
2024	5,794,138	203,096	5	373	29	5,997,640	588	34	383	1,005	Ö	5,998,645	
2025	5,834,165	203,035	5	380	29	6,037,613	591	34	388	1,013	0	6,038,626	
2026	5,873,684	202,991	5	387	29	6,077,095	593	34	389	1,016	0	6,078,111	
2027	5,912,768	202,935	5	393	29	6,116,129	595	34	391	1,019	0	6,117,148	

ahle 2'· Nu	mber of Additions	al Customers Serve	ed by Custom	or Class = cha	nge in # custo	mers each vear						
2011	0	0	0	0	0	0	0	0	0	0	0	0
2012	24,969	0	0	1	0	24,970	0	5	10	7	0	24,977
2013	42,568	1,941	Ö	6	14	44,529	Ō	Ō	21	0	Ö	44,529
2014	23,604	0	0	13	3	23,620	0	0	8	2	0	23,622
2015	29,110	0	1	8	2	29,121	0	2	19	15	0	29,136
2016	40,524	0	0	19	4	40,547	Ō	0	66	54	Ö	40,601
2017	36,554	130	0	6	0	36,690	18	0	31	40	0	36,730
2018	32,494	0	0	11	0	32,505	0	Ō	2	0	Ö	32,505
2019	36,300	669	0	0	0	36,969	5	0	4	8	0	36,977
2020	29,511	0	0	20	Ö	29,531	0	Ö	17	9	Ö	29,540
2021	33,691	0	0	8	0	33,699	0	0	0	0	0	33,699
2022	26,019	254	1	69	ő	26,342	41	12	27	79	Ö	26,421
2023	42,262	64	0	7	0	42,333	0	0	0	0	0	42,333
2023	41,094	0	0	7	0	41,101	4	0	3	7	0	41,108
2025	40,027	0	0	7	0	40,034	3	0	4	8	0	40,042
2026	39,519	0	0	7	0	39,526	2	0	1	3	0	39,529
2020	39,319	Ü	U	,	U	39,320	2	U	'	3	U	39,329
ble 2: Ave	erage Coincident F	Peak Month Demai	nd Per Custon	ner (Mcf) = Tota	al Demand by	class / total # custo	mers in class					
2011	0	0	0	0	0	0	0	0	0	0	0	0
2012	6.2	51.7	448.8	4,460.9	115.4	5,083	20,324.5	15,125.9	118,606.5	43,263.6	0.0	48,347
2013	6.4	51.8	515.9	4,460.7	168.9	5,204	20,859.6	63,056.9	106,292.7	45,160.7	0.0	50,364
2014	6.3	51.5	579.6	4,409.9	124.8	5,172	22,975.4	55,325.5	95,768.7	44,193.3	0.0	49,365
2015	5.9	52.3	437.1	4,069.2	103.4	4,668	21,271.5	50,292.6	79,589.1	39,464.4	0.0	44,132
2016	5.6	50.1	567.3	4,490.9	136.9	5,251	25,762.7	59,958.2	59,885.6	38,883.7	0.0	44,135
2017	6.4	56.0	621.4	4,739.8	157.2	5,581	23,553.1	58,827.5	43,883.1	31,893.7	0.0	37,474
2018	6.2	55.2	212.4	4,600.2	121.1	4,995	23,368.8	70,259.8	43,534.8	32,016.4	0.0	37,012
2019	6.1	54.8	210.9	4,718.7	112.5	5,103	23,712.3	67,783.4	54,221.6	36,084.6	0.0	41,188
2020	6.2	49.3	141.1	3,790.8	151.9	4,139	23,327.6	68,099.4	47,925.5	33,822.8	0.0	37,962
2021	5.8	52.3	230.8	4,458.3	131.0	4,878	23,150.6	36,336.5	51,735.7	34,528.3	0.0	39,407
2022	6.4	53.6	192.7	3,706.3	3,003.3	6,962	23,274.3	38,134.5	48,132.7	33,299.9	0.0	40,262
2023	6.3	52.1	192.7	3,707.8	3,003.3	6,962	23,715.5	38,134.5	49,446.1	34,004.0	0.0	40,966
2024	6.1	50.7	192.7	3,719.9	3,003.3	6,973	23,594.5	38,134.5	45,587.8	32,472.9	0.0	39,446
2025	6.0	49.4	192.7	3,738.4	3,003.3	6,990	23,452.1	38,134.5	43,357.3	31,563.1	0.0	38,553
2026	5.8	48.3	192.7	3,761.1	3,003.3	7,011	23,371.2	36,990.5	42,180.4	31,027.4	0.0	38,039
blo 2: Coi	incident Dook Monte	oth Domand For As	dditional Cuat	omovo Sovied	(Mof) = # oddit	ional customers * a	vorene demond	aar ayatamara				
2011	0	0	0	0	0	0	0	0	0	0	0	0
2011	155,600	0	0	4,461	0	126,922,732	0	75,630	1,186,065	302,845	0	1,207,552,857
2012	270,613	100,569	0	26,764	2,364	231,713,114	0	75,630	2,232,147	0	0	2,242,673,200
2013			0	57,329	374		0	0			0	
	148,360	0				122,165,206	0		766,149	88,387	0	1,166,109,808
2015	171,543	0	437	32,554	207	135,933,996		100,585	1,512,194	591,966		1,285,837,826
2016	228,323	0	0	85,328	548	212,904,460	0	0	3,952,450	2,099,721	0	1,791,905,774
2017	233,466	7,284	0	28,439	0	204,759,897	423,956	0	1,360,377	1,275,746	0	1,376,437,320
2018	200,325	0	0	50,603	0	162,369,116	0	0	87,070	0	0	1,203,063,066
2019	220,671	36,691	0	0	0	188,650,937	118,561	0	216,886	288,677	0	1,522,992,907
2020	183,895	0	0	75,816	0	122,237,452	0	0	814,734	304,405	0	1,121,401,153
2021	195,794	0	0	35,666	0	164,392,638	0	0	0	0	0	1,327,963,376
2022	166,667	13,585	96	255,738	0	183,402,825	944,600	457,614	1,290,175	2,643,683	0	1,063,785,360
2023	265,628	3,333	0	25,954	0	294,729,255	0	0	0	0	0	1,734,218,797
2024	252,487	0	0	26,039	0	286,586,843	90,049	0	148,431	229,663	0	1,621,533,233
2025	239,732	0	0	26,169	0	279,832,537	78,107	0	188,187	242,115	0	1,543,723,594
2026	230,915	0	0	26,328	0	277,127,610	41,474	0	53,063	94,094	0	1,503,632,791
2027	0	0	0	0	0	0	Ó	0	0	0	0	0

Table 1: Level of Usa	ge of High Pressure	Distribution Service b	y Customer Class

all years	100.00%	99.19%	100.00%	87.09%	14.00%	54.36%	71.72%	15.69%
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Table 4:	High Pressure Distrib	ution-Service-Usa	ge-Weighted	Coincident Peal	Month Dem	and For Additional	Customers Serve	ed (Mcf) = total de	mand for addition	nal customers * % of	customers tha	t use HPD system.	
2011	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	155,594	0	0	3,885	0	155,594	0	54,244	186,151	240,395	0	395,989	395,989
2013	270,603	99,750	0	23,309	331	370,684	0	0	350,331	350,331	0	721,016	1,117,005
2014	148,355	0	0	49,927	52	148,407	0	0	120,246	120,246	0	268,653	1,385,657
2015	171,536	0	437	28,350	29	172,002	0	72,143	237,336	309,479	0	481,481	1,867,138
2016	228,314	0	0	74,311	77	228,391	0	0	620,330	620,330	0	848,721	2,715,859
2017	233,457	7,225	0	24,767	0	240,682	230,484	0	213,509	443,992	0	684,675	3,400,534
2018	200,317	0	0	44,069	0	200,317	0	0	13,665	13,665	0	213,983	3,614,516
2019	220,663	36,393	0	0	0	257,055	64,456	0	34,040	98,496	0	355,551	3,970,067
2020	183,888	0	0	66,027	0	183,888	0	0	127,871	127,871	0	311,759	4,281,827
2021	195,786	0	0	31,061	0	195,786	0	0	0	0	0	195,786	4,477,613
2022	166,661	13,474	96	222,718	0	180,231	513,532	328,215	202,491	1,044,238	0	1,224,469	5,702,082
2023	265,618	3,306	0	22,603	0	268,924	0	0	0	0	0	268,924	5,971,006
2024	252,477	0	0	22,677	0	252,477	48,955	0	23,296	72,251	0	324,728	6,295,734
2025	239,722	0	0	22,790	0	239,722	42,463	0	29,536	71,998	0	311,721	6,607,454
2026	230,906	0	0	22,928	0	230,906	22,548	0	8,328	30,876	0	261,782	6,869,236
2027	0	0	0	0	0	0	0	0	0	0	0	0	6,869,236

MPD Peak Day Demand 2024 TCAP

		Core C&I					NonCore			Total			Cummulative
Year	Residential	G10	Gas AC	NGV	Gas Eng	Total Core	C&I G-30	EOR G-40	EG G-50	Noncore	Wholesale	Total System	Total
Table 1: Po	eak Day Demand by	Customer Cla	ss (Mcfd): An	alveie Porio	d								
2011	0	0	0	0	0	0	0	0	0	0	0	0	
2012	2,262,015	544,545	145	28,636	2,588	2,837,929	504,588	18,541	830.676	1.353.805	Ö	4,191,734	
2013	2,300,224	549,658	150	29,498	3,862	2,883,391	492,277	65,091	822,993	1,380,361	Ö	4,263,752	
2014	2,297,952	543,272	168	31,012	2,867	2,875,271	536,571	57,110	768,472	1,362,153	0	4,237,425	
2015	2,242,576	547,557	141	29,666	2,382	2,822,322	491,557	55,160	691,864	1,238,581	Ō	4,060,902	
2016	2,212,797	531,975	165	35,493	3,171	2,783,600	583,752	63,826	659,685	1,307,264	Ō	4,090,863	
2017	2,362,245	571,420	180	38,377	3,605	2,975,827	551,026	45,544	531,283	1,127,853	Ö	4,103,680	
2018	2,336,114	564,866	41	38,879	2,700	2,942,601	541,935	54,395	530,130	1,126,460	Ö	4,069,061	
2019	2,335,726	564,137	34	39,880	2,474	2,942,252	554,749	50,291	667,898	1,272,937	0	4,215,189	
2020	2,376,353	525,006	18	34,484	3,224	2,939,086	539,072	48,329	619,018	1,206,419	Ö	4,145,504	
2021	2,312,902	544,723	30	41,707	2,701	2,902,063	524,566	25,787	662,768	1,213,121	0	4,115,185	
2021	2,272,650	550,291	28	42,922	2,807	2,868,698	563,968	41,825	663,211	1,269,003	0	4,137,702	
2022	2,243,620	536,949	28	42,922	2,807	2,827,180	564,660	41,825	654,721	1,265,003	0	4,088,386	
2024	2,210,342	524,337	28	44,759	2,807	2,782,272	565,483	41,825	621,950	1,229,258	0 0	4,011,531	
2025	2,174,104	512,599	28	45,826	2,807	2,735,364	565,257	41,825	593,299	1,200,380		3,935,744	
2026	2,139,234	502,207	28	46,953	2,807	2,691,229	565,056	40,570	574,713	1,180,339	0	3,871,568	
	umber of Customer												
2012	5,355,438	205,300	12	198	699	5,561,647	615	33	189	837	0	5,562,484	
2013	5,380,407	204,351	10	199	695	5,585,662	607	38	199	844	0	5,586,506	
2014	5,422,975	206,292	9	205	709	5,630,190	577	32	220	829	0	5,631,019	
2015	5,446,579	204,616	9	218	712	5,652,134	571	32	228	831	0	5,652,965	
2016	5,475,689	203,977	10	226	714	5,680,616	565	34	247	846	0	5,681,462	
2017	5,516,213	203,580	9	245	718	5,720,765	554	33	313	900	0	5,721,665	
2018	5,552,767	203,710	9	251	711	5,757,448	572	24	344	940	0	5,758,388	
2019	5,585,261	203,226	6	262	691	5,789,446	567	24	346	937	0	5,790,383	
2020	5,621,561	203,895	5	262	682	5,826,405	572	23	350	945	0	5,827,350	
2021	5,651,072	202,864	4	282	658	5,854,880	565	22	367	954	0	5,855,834	
2022	5,684,763	202,835	4	290	639	5,888,531	554	22	364	940	0	5,889,471	
2023	5,710,782	203,089	5	359	29	5,914,263	595	34	391	1,019	0	5,915,282	
2024	5,753,044	203,153	5	366	29	5,956,596	584	34	380	998	0	5,957,594	
2025	5,794,138	203,096	5	373	29	5,997,640	588	34	383	1,005	0	5,998,645	
2026	5,834,165	203,035	5	380	29	6,037,613	591	34	388	1,013	0	6,038,626	
2027	5,873,684	202,991	5	387	29	6,077,095	593	34	389	1,016	0	6,078,111	
	-,,	,	-			-,,				.,	-	.,,	

Table 2': Nur	mber of Additiona	al Customers S	erved by Cu	stomer Class	= change in #	customers each	vear					
2011	0	0	0	0	0	0	0	0	0	0	0	0
2012	24,969	0	0	1	0	24,970	0	5	10	15	0	24,985
2013	42,568	1,941	0	6	14	44,529	0	0	21	21	0	44,550
2014	23,604	0	0	13	3	23,620	0	0	8	8	0	23,628
2015	29,110	0	1	8	2	29,121	0	2	19	21	Ō	29,142
2016	40,524	0	0	19	4	40,547	Ō	0	66	66	Ö	40,613
2017	36,554	130	0	6	0	36,690	18	0	31	49	Ō	36,739
2018	32,494	0	0	11	0	32,505	0	0	2	2	Ö	32,507
2019	36,300	669	Ö	0	Ö	36,969	5	Ö	4	9	0	36,978
2020	29,511	0	Ö	20	Ö	29,531	0	0	17	17	0	29,548
2021	33,691	0	Ö	8	0	33,699	0	0	0	0	0	33,699
2022	26,019	254	1	69	0	26,342	41	12	27	79	0	26,421
2023	42,262	64	0	7	0	42,333	0	0	0	0	0	42,333
2024	41,094	0	0	7	0	41,101	4	0	3	7	0	41,108
2024	40,027	0	0	7	0	40,034	3	0	4	8	0	40,042
2025	39,519	0	0	7	0	39,526	2	0	1	3	0	39,529
2026	39,519	U	U	,	U	39,526	2	U	1	3	U	39,529
Table 2: Ave	rage Peak Day De	emand Per Cus	tomer (Mcfd) = Total Dem	and by class	/ total # custome	rs in class					
2006	0	0	0	0	0	0	0	0	0	0	0	0
2012	0.42	2.66	14.48	143.90	3.72	0.51	831.28	487.93	4174.25	1604.03	0.00	0.75
2013	0.42	2.66	16.64	143.89	5.45	0.51	853.17	2034.09	3740.88	1665.09	0.00	0.76
2014	0.42	2.66	18.70	142.26	4.03	0.51	939.70	1784.69	3370.49	1639.17	0.00	0.75
2015	0.41	2.68	14.10	131.26	3.34	0.50	870.01	1622.34	2801.07	1464.04	0.00	0.71
2016	0.40	2.61	18.30	144.87	4.42	0.49	1053.70	1934.13	2107.62	1452.52	0.00	0.71
2017	0.43	2.81	20.05	152.90	5.07	0.52	963.33	1897.66	1544.43	1199.84	0.00	0.71
2018	0.42	2.78	6.85	148.39	3.91	0.51	955.79	2266.44	1532.17	1202.20	0.00	0.70
2019	0.42	2.77	6.80	152.22	3.63	0.50	969.84	2186.56	1908.28	1347.02	0.00	0.72
2020	0.42	2.59	4.55	122.28	4.90	0.50	954.11	2196.76	1686.70	1264.59	0.00	0.71
2021	0.41	2.69	7.44	143.82	4.23	0.49	946.87	1172.15	1820.79	1290.55	0.00	0.70
2022	0.40	2.71	6.22	119.56	96.88	0.49	948.51	1230.14	1697.04	1244.87	0.00	0.70
2023	0.39	2.64	6.22	119.61	96.88	0.47	966.49	1230.14	1722.24	1263.24	0.00	0.69
2024	0.38	2.58	6.22	120.00	96.88	0.46	961.62	1230.14	1622.15	1222.58	0.00	0.67
2025	0.37	2.52	6.22	120.59	96.88	0.45	955.82	1230.14	1530.10	1184.82	0.00	0.65
2026	0.36	2.47	6.22	121.33	96.88	0.44	952.63	1193.24	1477.37	1161.56	0.00	0.64
			_									
<u>Table 3: Pea</u> 2011	nk Day Demand Fo	or Additional Cu 0	ustomers Se 0	rved (Mcfd) = 0	# additional o	customers * aver 0	age demand p 0	er customers 0	0	0	0	0
2011	10,497	0	0	144	0	10,641	0	2,440	41,742	44,182	0	54,823
		5,172	0	863			0	2,440			0	102,726
2013	18,056				76	24,167			78,558	78,558		
2014	9,959	0	0	1,849	12	11,820	0	0	26,964	26,964	0	38,784
2015	11,922	0	14	1,050	7	12,993	0	3,245	53,220	56,465	0	69,458
2016	16,256	0	0	2,753	18	19,026	0	0	139,103	139,103	0	158,129
2017	15,551	365	0	917	0	16,833	17,340	0	47,877	65,217	0	82,050
2018	13,591	0	0	1,632	0	15,223	0	0	3,064	3,064	0	18,288
2019	15,082	1,851	0	0	0	16,933	4,849	0	7,633	12,482	0	29,416
2020	12,410	0	0	2,446	0	14,855	0	0	28,674	28,674	0	43,529
2021	13,708	0	0	1,151	0	14,858	0	0	0	0	0	14,858
2022	10,354	687	3	8,250	0	19,294	38,496	14,762	45,488	98,746	0	118,040
2023	16,482	169	0	837	0	17,488	0	0	0	0	0	17,488
2024	15,676	0	0	840	0	16,516	3,670	0	5,282	8,952	0	25,468
2025	14,916	0	0	844	0	15,760	3,183	0	6,641	9,825	0	25,585
2026	14,393	0	0	849	0	15,242	1,691	0	1,859	3,549	0	18,791

 Table 1: Level of Usage of Medium Pressure Distribution Service by Customer Class

 all years
 99.61%
 94.23%
 100.00%
 48.20%
 81.31%
 17.74% 0.01% 6.04%

Source: Demand Forecast TCAP, updated 7-5-2022

Table 4:	Medium Pressure Di	stribution-Servi	ce-Usage-W	leighted Peak	Day Demano	d For Additional C	ustomers Serv	ed (Mcfd) =	total demand	for additiona	customers	* % of customer	s that use HPD system.
2011	0	0	0	0	0	0	0	0	0	0	0	0	
2012	10,457	0	0	69	0	10,526	0	0	2,521	2,521	0	13,047	13,047
2013	17,986	4,873	0	416	62	23,338	0	0	4,745	4,745	0	28,082	41,130
2014	9,920	0	0	891	10	10,821	0	0	1,629	1,629	0	12,450	53,580
2015	11,876	0	14	506	5	12,402	0	0	3,214	3,215	0	15,616	69,196
2016	16,193	0	0	1,327	14	17,534	0	0	8,401	8,401	0	25,935	95,131
2017	15,491	344	0	442	0	16,276	3,077	0	2,892	5,969	0	22,245	117,376
2018	13,538	0	0	787	0	14,325	0	0	185	185	0	14,510	131,886
2019	15,024	1,744	0	0	0	16,768	860	0	461	1,321	0	18,090	149,976
2020	12,362	0	0	1,179	0	13,541	0	0	1,732	1,732	0	15,272	165,249
2021	13,654	0	0	555	0	14,209	0	0	0	0	0	14,209	179,458
2022	10,314	647	3	3,977	0	14,941	6,831	1	2,747	9,580	0	24,521	203,979
2023	16,418	159	0	404	0	16,981	0	0	0	0	0	16,981	220,960
2024	15,616	0	0	405	0	16,021	651	0	319	970	0	16,991	237,951
2025	14,858	0	0	407	0	15,265	565	0	401	966	0	16,231	254,182
2026	14,337	0	0	409	0	14,747	300	0	112	412	0	15,159	269,341

TABLE - 1 FORECASTED DISTRIBUTION INVESTMENT

						1
			Pressure		FERC Account #378	Total
			i icasuic	New Business	1 Live Account #370	Total
	<u>Year</u>	New Business	Betterment	Forfeiture	Meter & Reg. Station	Distribution
	2012	\$11,307,459	\$18,578,855	(\$2,564,785)	\$7,845,106	\$35,166,634
	2013	\$19,813,570	\$16,516,777	(\$1,866,998)	\$8,316,250	\$42,779,599
	2014	\$20,144,563	\$53,568,457	(\$2,938,240)	\$6,967,124	\$77,741,904
	2015	\$25,504,301	\$31,731,305	(\$3,624,013)	\$6,622,661	\$60,234,254
	2016	\$25,150,192	\$44,246,432	(\$7,499,486)	\$5,314,881	\$67,212,019
	2017	\$30,452,297	\$33,359,289	(\$9,874,188)	\$5,451,961	\$59,389,359
	2018	\$34,138,934	\$21,743,552	(\$3,783,834)	\$7,011,559	\$59,110,211
	2019	\$33,437,711	\$27,628,652	(\$4,897,523)	\$6,960,835	\$63,129,675
	2020	\$28,936,556	\$54,907,150	(\$3,024,569)	\$11,602,736	\$92,421,873
	2021	\$33,291,769	\$24,065,823	(\$2,333,457)	\$19,668,326	\$74,692,461
ast	2022	\$30,990,714	\$29,094,972	(\$4,667,819)	\$19,668,326	\$75,086,193
	2023	\$33,035,653	\$28,272,105	(\$4,773,643)	\$19,668,326	\$76,202,442
	2024	\$33,830,726	\$28,177,382	(\$4,925,328)	\$19,668,326	\$76,751,106
	2025	35,173,805	29,296,024	(\$5,120,863)	\$19,668,326	\$79,017,292
	2026	36,570,206	30,459,077	(\$5,324,162)	\$19,668,326	\$81,373,446
	2027	38,022,043	31,668,302	(\$5,535,531)	\$19,668,326	\$83,823,140

Post Test Years Escalate 3.97%, per Finance,

Forecast

TABLE - 1 FORECASTED DISTRIBUTION INVESTMENT

(

Pressure FERC Account #378 Total **New Business** Forfeiture Year **New Business** Betterment Meter & Reg. Station Distribution 2012 \$14,325,110 \$23,537,042 (\$3,249,256)\$10,394,989 \$45,007,885 2013 \$24,878,094 \$20,738,612 (\$2,344,219)\$11,169,881 \$54,442,368 2014 \$25,012,781 \$66,514,031 (\$3,648,307)\$9,082,308 \$96,960,812 2015 \$31,163,052 \$38,771,669 (\$4,428,089)\$8,698,024 \$74,204,656 2016 \$30,248,276 \$53,215,431 (\$9,019,674) \$6,902,756 \$81,346,790 2017 \$36,107,249 \$39,554,065 (\$11,707,812) \$6,790,050 \$70,743,552 2018 \$39,983,772 \$25,466,209 \$8,331,088 \$69,349,415 (\$4,431,654) 2019 \$37,793,292 \$31,227,547 \$7,942,533 \$71,427,901 (\$5,535,472)2020 \$31,743,096 \$60,232,563 (\$3,317,920)\$12,821,333 \$101,479,072 2021 \$34.828.562 \$25,176,734 (\$2,441,172)\$18,938,998 \$76,503,121 2022 \$32,421,287 \$30,438,034 (\$4,883,292)\$18,938,998 \$76,915,028 2023 \$34,560,623 \$29,577,183 (\$4,994,000)\$18,938,998 \$78,082,805 2024 \$35,392,397 \$29,478,088 (\$5,152,688)\$18,938,998 \$78,656,796 2025 \$36,797,475 \$30,648,368 (\$5,357,249)\$18,938,998 \$81,027,593 2026 \$38,258,335 \$31,865,108 (\$5,569,932)\$18,938,998 \$83,492,510 2027 \$39,777,191 \$33,130,153 (\$5,791,058)\$18,938,998 \$86,055,284

Forecast

2017 - 2021 Values

New Business Column

This includes historical, actual loaded costs of Budget Codes (BCs) 151 – 153. The figures are in recorded-year dollars and *not* constant 2021\$ Due to the little to no HP new business main projects, these costs can be assumed to be entirely medium pressure work

Pressure Betterment Column

This includes historical, actual loaded costs of BC 251. The figures are in recorded-year dollars and not constant 2021\$

Prior to 2021 includes historical. The figures are in recorded-year dollars and not constant 2021\$

2022 - 2024 Values

New Business Column

This is the forecast costs of BCs 151 – 153 based on the RO model output of our TY2024 GRC. The figures are in constant 2021\$. This was calculated by apply

Pressure Betterment Column

This is the forecast costs of BC 251 based on the RO model output of our TY2024 GRC. The figures are in constant 2021\$

TABLE - 2 High Pressure FORECASTED DISTRIBUTION INVESTMENT

			Pressure		FERC Account #378
	<u>Year</u>	New Business	<u>Betterment</u>	New Business Forfeiture	Meter & Reg. Station
	2012	\$0	\$9,103,639	\$0	\$998,034
	2013	\$0	\$8,093,221	\$0	\$1,096,137
	2014	\$0	\$26,248,544	\$0	\$909,837
	2015	\$0	\$15,548,339	\$0	\$867,304
	2016	\$0	\$21,680,752	\$0	\$695,240
	2017	\$0	\$16,346,052	\$0	\$715,297
	2018	\$0	\$10,654,340	\$0	\$919,215
	2019	\$0	\$13,538,039	\$0	\$915,350
	2020	\$0	\$26,904,504	\$0	\$1,540,843
t	2021	\$0	\$11,792,253	\$0	\$2,611,954
	2022	\$0	\$14,256,536	\$0	\$2,611,954
	2023	\$0	\$13,853,331	\$0	\$2,611,954
	2024	\$0	\$13,806,917	\$0	\$2,611,954
	2025	0	\$14,355,052	\$0	2,611,954
	2026	0	\$14,924,947	\$0	2,611,954
	2027	0	\$15,517,468	\$0	2,611,954

FYI- as a follow-up for the HP/MP split, please utilize 6.43% (% of DOT-Distribution jurisdiction HP lines with Song Ik, No Longer

	49%
HP	(\$ 92,526,097.77
	/\$ 188,562,068.53)
	51%
MP	
IVIE	(\$ 96,035,970.76
	/\$ 188,562,068.53)

This split was derived from the type of projects that contribute to the historical c

Forecast

0.789345

TABLE - 2 High Pressure FORECASTED DISTRIBUTION INVESTMENT

Global Insight
Plastic mains
Meas. & Reg. St

Plastic mains	Meas. & Reg. St. Equip.					
JUGPDMP@PCF	JUGPDSTM&R@PCF			Pressure		FERC Account #378
		<u>Year</u>	New Business	<u>Betterment</u>	New Business Forfeiture	Meter & Reg. Station
1.266873	1.325029	2012	\$0	\$11,533,151	\$0	\$1,322,424
1.255609	1.343139	2013	\$0	\$10,161,920	\$0	\$1,472,264
1.241664	1.303595	2014	\$0	\$32,591,875	\$0	\$1,186,059
1.221874	1.313373	2015	\$0	\$18,998,118	\$0	\$1,139,093
1.202706	1.298760	2016	\$0	\$26,075,561	\$0	\$902,950
1.185699	1.245433	2017	\$0	\$19,381,492	\$0	\$890,855
1.171207	1.188193	2018	\$0	\$12,478,442	\$0	\$1,092,206
1.130260	1.141032	2019	\$0	\$15,301,498	\$0	\$1,044,443
1.096989	1.105027	2020	\$0	\$29,513,956	\$0	\$1,702,673
1.046161	0.962919 Forecast	2021	\$0	\$12,336,599	\$0	\$2,515,099
1.046161	0.962919	2022	\$0	\$14,914,637	\$0	\$2,515,099
1.046161	0.962919	2023	\$0	\$14,492,820	\$0	\$2,515,099
1.046161	0.962919	2024	\$0	\$14,444,263	\$0	\$2,515,099
1.046161	0.962919	2025	\$0	\$15,017,700	\$0	\$2,515,099
1.046161	0.962919	2026	\$0	\$15,613,903	\$0	\$2,515,099
1.046161	0.962919	2027	\$0	\$16,233,775	\$0	\$2,515,099

TABLE - 3 Medium Pressure FORECASTED DISTRIBU

	1		T	T	
	Hp Inventory As Fraction of Reg.			_	
Total	Station			Pressure	
Distribution		<u>Year</u>	New Business	Betterment	New Business Forfeiture
\$10,101,673	0.1272	2012	\$11,307,459	\$9,475,216	(\$2,564,785)
\$9,189,358	0.1318	2013	\$19,813,570	\$8,423,556	(\$1,866,998)
\$27,158,381	0.1306	2014	\$20,144,563	\$27,319,913	(\$2,938,240)
\$16,415,643	0.1310	2015	\$25,504,301	\$16,182,966	(\$3,624,013)
\$22,375,991	0.1308	2016	\$25,150,192	\$22,565,680	(\$7,499,486)
\$17,061,349	0.1312	2017	\$30,452,297	\$17,013,237	(\$9,874,188)
\$11,573,556	0.1311	2018	\$34,138,934	\$11,089,212	(\$3,783,834)
\$14,453,389	0.1315	2019	\$33,437,711	\$14,090,613	(\$4,897,523)
\$28,445,347	0.1328	2020	\$28,936,556	\$28,002,647	(\$3,024,569)
\$14,404,207	0.1328	2021	\$33,291,769	\$12,273,570	(\$2,333,457)
\$16,868,490	0.1328	2022	\$30,990,714	\$14,838,435	(\$4,667,819)
\$16,465,285	0.1328	2023	\$33,035,653	\$14,418,774	(\$4,773,643)
\$16,418,871	0.1328	2024	\$33,830,726	\$14,370,465	(\$4,925,328)
\$16,967,006	0.1328	2025	\$35,173,805	\$14,940,972	(\$5,120,863)
\$17,536,901	0.1328	2026	\$36,570,206	\$15,534,129	(\$5,324,162)
\$18,129,422	0.1328	2027	\$38,022,043	\$16,150,834	(\$5,535,531)

hin Gas Distribution; 3,325 miles out of 51,671). Please let me knc Song Ik

TABLE - 3 Medium Pressure FORECASTED DISTRIBU

Total	<u>Cumulative</u>
Distribution	Distribution
\$12,855,575	\$12,855,575
\$11,634,184	\$24,489,758
\$33,777,934	\$58,267,692
\$20,137,211	\$78,404,903
\$26,978,511	\$105,383,413
\$20,272,347	\$125,655,760
\$13,570,648	\$139,226,408
\$16,345,941	\$155,572,350
\$31,216,629	\$186,788,979
\$14,851,698	\$201,640,677
\$17,429,736	\$219,070,413
\$17,007,919	\$236,078,332
\$16,959,362	\$253,037,694
\$17,532,799	\$270,570,493
\$18,129,002	\$288,699,495
\$18,748,874	\$307,448,369

		<u>Pressure</u>	
Year	New Business	<u>Betterment</u>	New Business Forfeiture
2012	\$14,325,110	\$12,003,892	(\$3,249,256)
2013	\$24,878,094	\$10,576,692	(\$2,344,219)
2014	\$25,012,781	\$33,922,156	(\$3,648,307)
2015	\$31,163,052	\$19,773,551	(\$4,428,089)
2016	\$30,248,276	\$27,139,870	(\$9,019,674)
2017	\$36,107,249	\$20,172,573	(\$11,707,812)
2018	\$39,983,772	\$12,987,767	(\$4,431,654)
2019	\$37,793,292	\$15,926,049	(\$5,535,472)
2020	\$31,743,096	\$30,718,607	(\$3,317,920)
2021	\$34,828,562	\$12,840,134	(\$2,441,172)
2022	\$32,421,287	\$15,523,398	(\$4,883,292)
2023	\$34,560,623	\$15,084,363	(\$4,994,000)
2024	\$35,392,397	\$15,033,825	(\$5,152,688)
2025	\$36,797,475	\$15,630,668	(\$5,357,249)
2026	\$38,258,335	\$16,251,205	(\$5,569,932)
2027	\$39,777,191	\$16,896,378	(\$5,791,058)

TION INVESTMENT

FERC Account #378	Total
Meter & Reg. Station	<u>Distribution</u>
\$6,847,072	\$25,064,961
\$7,220,113	\$33,590,242
\$6,057,287	\$50,583,523
\$5,755,358	\$43,818,611
\$4,619,641	\$44,836,028
\$4,736,664	\$42,328,010
\$6,092,344	\$47,536,655
\$6,045,485	\$48,676,286
\$10,061,893	\$63,976,526
\$17,056,372	\$60,288,254
\$17,056,372	\$58,217,703
\$17,056,372	\$59,737,156
\$17,056,372	\$60,332,235
\$17,056,372	\$62,050,287
\$17,056,372	\$63,836,545
\$17,056,372	\$65,693,718

TION INVESTMENT

FERC Account #378	<u>Total</u>	<u>Cumulative</u>
Meter & Reg. Station	<u>Distribution</u>	<u>Distribution</u>
\$9,072,565	\$32,152,310	\$32,152,310
\$9,697,617	\$42,808,184	\$74,960,494
\$7,896,249	\$63,182,878	\$138,143,373
\$7,558,931	\$54,067,445	\$192,210,818
\$5,999,807	\$54,368,279	\$246,579,097
\$5,899,195	\$50,471,205	\$297,050,302
\$7,238,882	\$55,778,767	\$352,829,069
\$6,898,090	\$55,081,959	\$407,911,029
\$11,118,660	\$70,262,443	\$478,173,472
\$16,423,899	\$61,651,423	\$539,824,894
\$16,423,899	\$59,485,292	\$599,310,187
\$16,423,899	\$61,074,886	\$660,385,073
\$16,423,899	\$61,697,434	\$722,082,507
\$16,423,899	\$63,494,793	\$785,577,300
\$16,423,899	\$65,363,508	\$850,940,808
\$16,423,899	\$67,306,410	\$918,247,218

TABLE 8
Distribution Long Run Marginal Cost Estimate (2024\$s)
SOUTHERN CALIFORNIA GAS COMPANY
2024 TCAP

System	MPD	HPD
Demand Determinate	mcfd	mcf/month
Capital-related LRMC:		
Medium Pressure Regression Coefficient =	\$3,225	\$41.94
Weighted RECC Factor =	6.98%	6.95%
Annualized Capital-related LRMC	\$225.14	\$2.91
O&M-related LRMC:		
Total Distribution O&M costs (2021 \$000's) =	\$129,425	\$129,425
escalation 2021 to 2024	1.0809	1.0809
Total Distribution O&M costs (2024 \$000's) =	\$139,890	\$139,890
% Share of Investment	75%	25%
Peak Day Demand	3,936	80,021
O&M-related LRMC	\$26.54	\$0.44285
A&G-related LRMC:		
A&G Factor, as a Percent of O&M-related LRMC	87.20%	87.20%
A&G-related LRMC	\$23.14	\$0.38617
General Plant (GP)-related LRMC:		
GP Factor, as a Percent of O&M-related LRMC	86.83%	86.83%
GP-related LRMC	\$23.04	\$0.38454
Material & Supply (M&S)-related LRMC:		
Total Distribution M&S costs (2024 \$000's) =	\$2,479	\$2,479
% Share of Investment	75%	25%
Demand Determinantes	6,039	6,039
M&S-related LRMC	\$0.31	\$0.10400
Distribution LRMC =	\$298.17 \$/Mcfd	\$4.23 \$Mcf/mo

TABLE 7
Regression of Distribution Investment
SOUTHERN CALIFORNIA GAS COMPANY
2024 TCAP

System	MPD	MPD	HPD	HPD
				Peak Month
			Cumulative	Cumulative
	Cumulative	Peak Day Cumulative	Investment	Demand MMcf/
Year	Investment \$000	Demand MMcfd	\$000	Month
2012	\$32,152	13	\$12,856	396
2013	\$74,960	41	\$24,490	1,117
2014	\$138,143	54	\$58,268	1,386
2015	\$192,211	69	\$78,405	1,867
2016	\$246,579	95	\$105,383	2,716
2017	\$297,050	117	\$125,656	3,401
2018	\$352,829	132	\$139,226	3,615
2019	\$407,911	150	\$155,572	3,970
2020	\$478,173	165	\$186,789	4,282
2021	\$539,825	179	\$201,641	4,478
2022	\$599,310	204	\$219,070	5,702
2023	\$660,385	221	\$236,078	5,971
2024	\$722,083	238	\$253,038	6,296
2025	\$785,577	254	\$270,570	6,607
2026	\$850,941	269	\$288,699	6,869
Regression Coefficient	\$3,224.58		\$41.94	

Calculate Weighted Average RECC Factor:

204

System	MPD	MPD	MPD	MPD	HPD	HPD	HPD	HPD
				Account #378		Pressure		Account #378
	New Business	Pressure Betterment	New Business	Meter & Reg	New Business	Betterment	New Business	Meter & Reg
Historical Investment	\$000's	\$000	Forfeiture \$000	Stations \$000	\$000's	\$000	Forfeiture \$000	Stations \$000
2012	\$14,325	\$12,004	(\$3,249)	\$9,073	\$0	\$11,533	\$0	\$1,322
2013	\$24,878	\$10,577	(\$2,344)	\$9,698	\$0	\$10,162	\$0	\$1,472
2014	\$25,013	\$33,922	(\$3,648)	\$7,896	\$0	\$32,592	\$0	\$1,186
2015	\$31,163	\$19,774	(\$4,428)	\$7,559	\$0	\$18,998	\$0	\$1,139
2016	\$30,248	\$27,140	(\$9,020)	\$6,000	\$0	\$26,076	\$0	\$903
2017	\$36,107	\$20,173	(\$11,708)	\$5,899	\$0	\$19,381	\$0	\$891
2018	\$39,984	\$12,988	(\$4,432)	\$7,239	\$0	\$12,478	\$0	\$1,092
2019	\$37,793	\$15,926	(\$5,535)	\$6,898	\$0	\$15,301	\$0	\$1,044
2020	\$31,743	\$30,719	(\$3,318)	\$11,119	\$0	\$29,514	\$0	\$1,703
2021	\$34,829	\$12,840	(\$2,441)	\$16,424	\$0	\$12,337	\$0	\$2,515
Total Invest \$000	\$291,758	\$184,057	(\$46,874)	\$78,731	\$0	\$176,839	\$0	\$11,946
	Total Invest			Weghted	Total Invest			Weghted
	\$000's	% of Total	RECC %	RECC%	\$000's	% of Total	RECC %	RECC%
New Business \$000's	\$291,758	57%	6.92%	3.98%	\$0	0%	6.92%	0.00%
Pressure Betterment	\$184,057	36%	6.92%	2.51%	\$176,839	94%	6.92%	6.48%
CIAC	(\$46,874)	-9%	6.92%	-0.64%	\$0	0%	6.92%	0.00%
subtotal	\$428,941	84%		5.85%	\$176,839	94%		6.48%
Meter & Reg Stations #378	\$78,731	16%	7.32%	1.14%	\$11,946	6%	7.32%	0.46%
_Total	\$507,673	100%		6.98%	\$188,785	100%		6.95%

% Share of Investment between MPD and HPD:

	Investment	
	\$000's	% Share
MPD Investment	\$850,941	75%
HPD Investment	\$288,699	25%
	\$1,139,640	100%

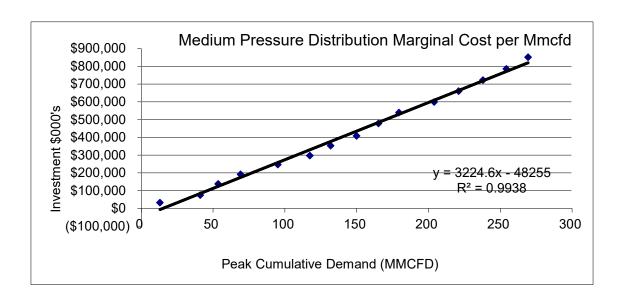
Marginal MPD Costs

		Cumulative
	Cumulative	CAPEX
Year	MMcfd	\$000's
2012	13	\$32,152
2013	41	\$74,960
2014	54	\$138,143
2015	69	\$192,211
2016	95	\$246,579
2017	117	\$297,050
2018	132	\$352,829
2019	150	\$407,911
2020	165	\$478,173
2021	179	\$539,825
2022	204	\$599,310
2023	221	\$660,385
2024	238	\$722,083
2025	254	\$785,577
2026	269	\$850,941

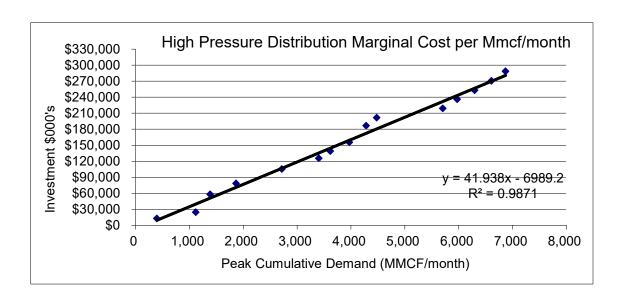
Marginal HPD Costs

	Cumulative	Cumulative
	Mmcf/	CAPEX
Year	month	\$000's
2012	396	\$12,856
2013	1,117	\$24,490
2014	1,386	\$58,268
2015	1,867	\$78,405
2016	2,716	\$105,383
2017	3,401	\$125,656
2018	3,615	\$139,226
2019	3,970	\$155,572
2020	4,282	\$186,789
2021	4,478	\$201,641
2022	5,702	\$219,070
2023	5,971	\$236,078
2024	6,296	\$253,038
2025	6,607	\$270,570
2026	6,869	\$288,699

Marginal MPD Investment per MMCFD



Marginal HPD Investment per MMCF/month



Marginal MP Distribution Cost

Marginal Cost for Medium Pressure Distribution (MPD) (2024 \$/Mcfd peak day)								
Capital-related Charge:	40.004.50							
MPD Regression Coefficient \$/Mcfd	\$3,224.58							
x RECC Factor	6.98%							
= Annualized Capital-related Charge (\$/Mcfd)	\$225.14							
+ Direct O&M	\$26.54							
+ A&G	\$23.14							
+ GP	\$23.04							
+ M&S	\$0.31							
= Marginal Unit Cost (\$/Mcfd)	\$298.17							

Marginal HP Distribution Cost

Marginal Cost for High Pressure Distribution (2024 \$/MCF/month)

Capital-related Charge:	
HPD Regression Coefficient \$/Mcf/month	\$41.94
x RECC Factor	6.95%
= Annualized Capital-related Charge (\$/Mcf/month)	\$2.91
+ Direct O&M	\$0.44
+ A&G	\$0.39
+ GP	\$0.38
+ M&S	\$0.10
= Marginal HP Distribution Cost(\$/MCF/month)	\$4.23

SoCalGas 2024 TCAP

Section 3 O&M Loaders Model for LRMC Studies

SCG 2024 TCAP LRMC O&M Loader Model

<u>Output</u>	Output	Source
Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses	87.20%	A&G
General Plant Loading Factor as a % or O&M expenses	86.83%	Gen Plant
Customer Related Distribution M&S Costs 2024\$000/yr	\$1,807,161	M&S
Demand Related Distribution M&S Costs 2024\$000/yr	\$2,479,091	M&S
2021-24 Factor: Capital Plant	0.9874	Escalation Factors
2021-24 Factor: O&M	1.0809	Escalation Factors
2021-24 Factor: Capital Meter	1.0453	Escalation Factors
2021-24 Factor: Capital Service	1.0525	Escalation Factors
Input from EC Model:		
Transmission A&G	\$66.446	EC Study of Frank Seres
Storage A&G	\$35.827	EC Study of Frank Seres
Total A&G	\$581.486	EC Study of Frank Seres
Transmission General Plant Return	\$3.924	EC Study of Frank Seres
Transmission Gen Plant Dep	\$24.051	EC Study of Frank Seres
Transmission Gen Plant Taxes	\$1.218	EC Study of Frank Seres
Storage General Plant Return	\$2.116	EC Study of Frank Seres
Storage Gen Plant Dep	\$12.968	EC Study of Frank Seres
Storage Gen Plant Taxes	\$0.656	EC Study of Frank Seres
Total Gen Plant Return	\$34.340	EC Study of Frank Seres
Total Gen Plant Dep	\$210.479	EC Study of Frank Seres
Total Gen Plant Taxes	\$10.655	EC Study of Frank Seres

^{*}Sept. 19

Tab = Output

2024 TCAP A&G LOADER ANALYSIS O&M Costs Used in A&G Loader

		2021 Recorded Costs (\$)		source:
1. Total O&M			3,629,062,136	FERC Form 2 line no 271, page 325 less page 335, line
2. Total Production Expenses (incl Purchased Gas cost)		1,618,757,956		FERC Form 2 line no 97, page 320
3. Total Transmission Expenses	1/	227,632,079		FERC Form 2 line no 201, page 323
4. Total Storage Expenses	1/	84,614,222		FERC Form 2 line no 125, page 321
5. Total A&G Expenses		743,492,511		FERC Form 2 line no 270, page 325, less page 335, line
6. Exclusions	2/	633,539,703		From Regulatory Accounting
7.	_			
8. Subtotal of Costs removed from O&M		3,308,036,471		
9. Net O&M			321,025,665	

- Transmission and Storage expenses removed from A&G loader, because SoCalGas proposes to separately scale transmission and storage costs to embedded transmission and storage cost.
 Exclusions E all costs below that are not
- part of authorized base margin.
- 3/ Exclude Part of Transmission expenses

Rows (1) through (7) contain data from FERC Form 2 for 2021, pages 320-325 Row (8) = Sum [Row (2) : Row (7)] Row (9) = Row (1) - Row (8)

Exclusions	2021
Title of Account	Total O&M Costs w/ Labor
Assembly Bill 802 Memorandum Account	\$213,621
Avoided Cost Calculator Update Memorandum Account	(\$300,367)
Aliso Canyon True-up Tracking Account	\$0
Advanced Metering Infrastructure Balancing Account	\$0
Advanced Meter Opt-Out Program Balancing Account	\$0
Biomethane Cost Incentive Program Balancing Account	\$8,000,000
California Alternate Rates for Energy Account	\$7,800,126
Climate Adaption Vulnerability Assessment Memorandum Account	\$12,136
California Consumer Privacy Act Memorandum Account	\$92,369
Catastrophic Event Memorandum Account	\$7,278,953
Core Fixed Cost Account	(\$2,729,574)
Compressor Station Fuel & Power Balancing Account	\$11,333,025
Core Gas Balancing Memorandum Account	\$157,418
Covid-19 Pandemic Protections Memorandum Account	\$788,611
California Solar Initiative Thermal Program Memorandum Account	\$2,998,877
Direct Assistance Program Balancing Account (low income EE)	\$115,795,522
Dairy Biomethane Project Balancing Account	\$40,574,380
Dairy Biomethane Project Memoradum Account	\$212,207
Dairy Biomethane Solicitation Development Memorandum Account	\$0

Schmidt-Pines Section 3 Workpapers File = SCG 2024TCAP LRMC OM loader Tab = Net O&M Page 3 of 23

From Reg Accounts Group

TABLE 2 A&G and Payroll Taxes Loading Factor

SOUTHERN CALIFORNIA GAS COMPANY

DESCRIPTION	2024 TCAP	source
	(\$)	
1. Total Marginal A&G Costs	\$231,529,646	A&G 1 tab
2. Total Payroll Taxes	48,408,248	(SS + Fed&CA
3. Marginal A&G and Payroll Taxes	279,937,895	Row 1 + Row 2
4. Net O&M Costs	321,025,665	O&M Costs tab
5. Marginal A&G/Payroll Taxes Loading Factor	87.20%	Row 3 / Row 4
6. Transmission and Storage adjustment	17.59%	EC study
v v		

Notes:

Data Source: FERC Form 2

Fed. Unemployment Insurance Tax Social Security Tax State Unemployment Insurance Tax Total 382,386 70,653,507 1,143,096 72,178,989 FERC Form 2, p. 263a (SS + Fed&CA L FERC Form 2, p. 263a (SS + Fed&CA L

2024 TCAP Phase II A&G LOADER ANALYSIS Marginal vs Non-marginal Summary

(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8) 2021 Recorded	
A	PUC	Marginal	Marginal		Non-Marginal	Non-Marginal	Total	Total Cost	•
Account Title	Account	Cost	Portion of Total	_	Cost	Portion of Total	Cost	Per FERC Form 2	Source
		(\$)	(%)		(\$)	(%)	(\$)	(\$)	
1. A&G Salaries	920	\$3,261	0.00%		\$96,294,297	14.15%	\$96,297,558	\$96,297,561	FERC Form 2 line no 254, page 325
Office Supplies and Exp	921	1,683,639	0.25%		25,241,462	3.71%	26,925,101	26,925,101	FERC Form 2 line no 255, page 325
Admin Expenses Transferred	922	0	0.00%		(10,709,919)	-1.57%	(10,709,919)	(10,709,919)	FERC Form 2 line no 256, page 325
Outside Services Employed	923	0	0.00%		189,697,344	27.87%	189,697,344	189,697,349	FERC Form 2 line no 257, page 325
5. Property Insurance	924	6,464,195	0.95%		0	0.00%	6,464,195	6,464,195	FERC Form 2 line no 258, page 325
6. Injuries and Damages	925	66,079,211	9.71%		0	0.00%	66,079,211	66,079,212	FERC Form 2 line no 259, page 325
7. Employee Pensions & Benefits	926	228,341,255	33.54%		0	0.00%	228,341,255	228,341,248	FERC Form 2 line no 260, page 325
8. Regulatory Commission Expenses	928	0	0.00%		7,403,259	1.09%	7,403,259	7,403,259	FERC Form 2 line no 262, page 325
Misc General Expenses	930	54,064	0.01%		23,721,436	3.48%	23,775,500	23,775,500	FERC Form 2 line no 265, page 325 les
10. Rents	931	4,858,919	0.71%		17,012,626	2.50%	21,871,545	21,871,545	FERC Form 2 line no 266, page 325
11. Maintenance of Gen Plant	932	24,572,418	3.61%		0	0.00%	24,572,418	24,572,417	FERC Form 2 line no 269, page 325
12. Total		332,056,960	48.78%	_	348,660,505	51.22%	680,717,465	680,717,468	
Pensions and benefits on non-margina Pensions and benefits on exclusions	al A&G labor	(35,551,855) (15,562,813) 280,942,293			35,551,855 15,562,813 399,775,172		= The Pension & Bene abor portion of exclusi	efits OH Planning Rate ons	for 2021 is 36.92%
Payroll Taxes on non-marginal A&G la Payroll taxes on exclusions	abor		= Tax loader on non-marginal la = Tax loader on exclusions	abor	7,703,544 3,372,224	The	e SCG Payroll Tax OF	Hrate for 2016 is 8.00%	(Average for 2021).
				yroll Tax 8.00% 372,224	<u>P&B</u> 36.92% 15,562,813	42,152,798 Lal	bor Exclusion	F	from Reg Accounting.

Color Key: Input Data, Source Data from other tab, calculation Col (1) & Col (2) account description
Col (3) contains data from 'Marginal - Nonmarginal' tab
Col (4) = Col (3) / Col (7)
Col (5) contains data from 'Marginal - Nonmarginal' tab
Col (6) = Col (5) / Col (7)
Col (7) = Col (3) + Col (5)
Col (8) data from FERC Form 2 for 2021

	(1)		(3)	(4)		(5)		(6)		(7) (5) + (6)	(8)		(9)	
	FERC Cost Center Description	PUC Account FERC Cost Center Description Number Acc		Marginal Y/N	2021 Recorded Costs Direct (\$)		Reassigned (\$)				otal Marginal		Non-Marginal (\$)	
1 RIDO	OPER OTH THAN CLEANING SV	920	920.601	Y	s	2,753	s	503	\$	3,257	s	3,257	s	_
	CUREMENT & LOGISTICS CONSULT	920	920.630	Ý	•	-	Ÿ	-	Ψ.	-	•	-	•	-
	ESTATE	920	920.604	Y		-		-		-		-		-
	DING CLEANING SERVICES	920	920.600	Y		-		4		4		4		-
	IRN TO WORK EXAMINATIONS PLIER MANAGEMENT	920 920	920.212 920.632	Y Y		-		-		-		-		-
	DUNT 920 MARGINAL TOTAL	920	920.632	1	-	2,753		507		3,261		3,261		
7 4514	AUGTRATUE A GENERAL GALARIEG					70 704 004								
	NISTRATIVE & GENERAL SALARIES	920	920.000 920.200	N N		76,791,664 8,934,472		4,402,416 2,042,211		81,194,080		-		81,194,080 10,976,683
	AN RESOURCES OPER SALARIES ONAL AFFAIRS	920 920	920.200	N N		3,282,636		733,343		10,976,683 4,015,979		-		4,015,979
	USER SUPPORT COMM	920	920.370	N		3,202,030		755,545		4,010,575		- :		4,010,979
	PUTER END USER SUPPORT	920	920.371	N		349		405		754		-		754
12. REGI	ON MANAGER SALARIES	920	920.047	N		-		-		-		-		-
	IC AFFAIRS ADMINISTRATION	920	920.570	N		-		-		-		-		-
	RATE MAINFRAME COMPUTERS GEN	920	920.360	N		-		-		-		-		-
	IDARD & CODES	920	920.561	N		-		-		-		-		-
	RMATION SYS GENL SUPERVISION RMATION SYS ADMIN SUPPORT	920 920	920.301 920.302	N N		27,309		79,493		106,802		-		106,802
	RMATION SYSTEMS	920	920.302	N						- :				
	ERNMENTAL AFFAIRS SALARIES	920	920.560	N		-		-		-				-
	- A&G SALARIES	920	920.850	N		-		-		-		-		-
	signment Only	920	920.010	N				-						-
ACC	OUNT 920 NON-MARGINAL TOTAL					89,036,430		7,257,867		96,294,297		-		96,294,297
22. BLD0	OPER OTH THAN CLEANING SV	921	921.601	Υ		1,533,162		(32,941)		1,500,221		1,500,221		-
	DING CLEANING SERVICES	921	921.600	Y		182,017		885		182,902		182,902		-
	CUREMENT & LOGISTICS CONSULT	921	921.630	Y		-		-		-		-		-
25. REAL		921	921.604	Υ		416		100		516		516		
ACCO	DUNT 921 MARGINAL TOTAL					1,715,595		(31,956)		1,683,639		1,683,639		-
	NISTRATIVE & GENERAL SALARIES	921	921.000	N		23,623,084		(1,709,634)		21,913,450		-		21,913,450
	AN RESOURCES OPER SALARIES	921	921.200	N		281,161		5,984		287,145		-		287,145
	PUTER END USER SUPPORT	921	921.371	N		302,741		(40,611)		262,130		-		262,130
	ONAL AFFAIRS IC AFFAIRS ADMINISTRATION	921 921	921.571 921.563	N N		242,768 276		(6,493)		236,275 267		-		236,275 267
	ON MANAGER SALARIES	921	921.047	N N		2/0		(8)		207				207
	IDARD & CODES	921	921.561	N		864		(36)		829		-		829
	RMATION SYS GENL SUPERVISION	921	921.301	N		3,025,789		701,796		3,727,585		-		3,727,585
	-A&G OFFICE SUPL	921	921.850	N		-		-		-		-		-
	B/S ERRORS	921	921.999	N		-		(1,186,219)		(1,186,219)				(1,186,219)
ACC	DUNT 921 NON-MARGINAL TOTAL					27,476,683		(2,235,222)		25,241,462		-		25,241,462
37. ADMI	NISTRATIVE EXPENSES TRANSFERRED-CRED	922	922.000	N		-		(7,586,790)		(7,586,790)		-		(7,586,790)
	AP A&G TRANS CR	922	922.200	N		-		(2,152,634)		(2,152,634)		-		(2,152,634)
	N SUP-CAP AG CR	922	922.301	N		-		89,628		89,628				89,628
	DM-CAP A&G TR CR	922	922.563	N		-		(100)		(100)				(100)
	AF-CAP A&G TR CR CLNG-CP AG TR CR	922 922	922.570 922.600	N N		-		(1,059,607) (416)		(1,059,607) (416)				(1,059,607) (416)
	CAP A&G TRN CR	922	922.604	N				(410)		(410)				(410)
	DUNT 922 NON-MARGINAL TOTAL	JEE	022.004	.,		-		(10,709,919)		(10,709,919)		-		10,709,919)
44 OUT	SIDE SERVICES EMPLOYED	923	923.000	N		52,534,630		137,162,714		189,697,344			4	89,697,344
	O-OUTSIDE SERVICES	923 923	923.000	N N		52,554,630		137,102,714		109,097,344		-	- 1	- 180,090
	DUNT 923 NON-MARGINAL TOTAL					52,534,630		137,162,714		189,697,344		-	1	89,697,344

(1)	(2)	(3)	(4)	(5)	(6)	(7) (5) + (6)	(8)	(9)
FERC Cost Center Description	PUC Account Number	FERC Account No.	Marginal Y/N	2021 Recorded Costs Direct	Reassigned	Total	Marginal	Non-Marginal
46. INSURANCE EXPENSE ACCOUNT 924 MARGINAL TOTAL	924	924.000	Υ	5,901,492 5,901,492	562,703 562,703	6,464,195 6,464,195	6,464,195 6,464,195	-
47. INJURIES AND DAMAGES 48. ACCIDENT PREV & SAFE 49. A&G EMERGENCY PREP 50. COLL WORKERS COMP 51. COLL PLPD 52. PSEP. INJUR & DAMAG ACCOUNT 925 MARGINAL TOTAL	925 925 925 925 925 925	925.000 925.160 925.180 925.300 925.310 925.850	Y Y Y Y Y	62,133 5,134,995 1,917,498 19,960,612 55,100,544 	(1,846,681) 870,018 310,126 (4,849,601) (10,580,432) (16,096,571)	(1,784,548) 6,005,012 2,227,624 15,111,011 44,520,112 	(1,784,548) 6,005,012 2,227,624 15,111,011 44,520,112 	: : : :
EMPLOYEE PENSIONS AND BENEFITS TRANSPORTATION PROGRAM EMPLOYEE RECOGNITION PROGRAM DISABILITY BENEFIT EXPENSE ACCOUNT 926 MARGINAL TOTAL	926 926 926 926 926	926.000 926.239 926.200 926.207 926.300	Y Y Y Y	2,975,662 133,227 8,123,061 - 245,798,389 257,030,338	38,008,354 (133,227) (8,117,534) - (58,446,677) (28,689,083)	40,984,016 - 5,527 - 187,351,712 228,341,255	40,984,016 - 5,527 - 187,351,712 228,341,255	· · · · · · · · · · · · · · · · · · ·
58. BLDG SUPPORT CANTEEN GASCO TWR ACCOUNT 926 NON-MARGINAL TOTAL	926	926.202	N	-	<u>-</u> -		-	
59. INTERVENOR COMPENSATION 60. REGULATORY COMMISSION EXPENSES ACCOUNT 928 NON-MARGINAL TOTAL	928 928	928.500 928.000	N N	571,804 4,042,136 4,613,940	2,789,318 2,789,318	571,804 6,831,455 7,403,259	<u>:</u>	571,804 6,831,455 7,403,259
61. DIVISION STATIONERY EXPENSE 62. DUPLICATING EQUIP DIST & TRANS ACCOUNT 930 MARGINAL TOTAL	930 930	930.625 930.600	Y Y	9,191 44,536 53,727	56 280 337	9,248 44,816 54,064	9,248 44,816 54,064	<u>-</u>
63. GENERAL ADVERT EXP 64. MISCELLANEOUS GENERAL EXPENSES 65. MISC DIV OFFICE EXPENSES ACCOUNT 930 NON-MARGINAL TOTAL	930 930 930	930.100 930.200 930.046	N N N	1,235,009 13,739,216 8,397 13,747,613	4,959 9,973,882 (60) 9,973,822	1,239,968 23,713,098 8,338 23,721,436	- - - -	1,239,968 23,713,098 8,338 23,721,436
66. RENTS DISTRIB AND TRANSM REGIONS ACCOUNT 931 MARGINAL TOTAL	931	931.602	Υ	5,966,514 5,966,514	(1,107,595) (1,107,595)	4,858,919 4,858,919	4,858,919 4,858,919	-
67. GAS COMPANY TOWER RENTS 68. RENTS GENERAL ACCOUNT 931 NON-MARGINAL TOTAL	931 931	931.600 931.000	N N	16,814,530 22,474 16,837,004	(799,959) 975,581 175,622	16,014,571 998,055 17,012,626		16,014,571 998,055 17,012,626
69. BLDG YARD & EQUIP MAINTENANCE 70. MAINTENANCE FURN OFFICE EQUIP 71. MEAS SHOP EQUIP 72. GARAGE/FUEL ISLAND MAINTENANCE 73. COMPR MTC CNG VEHICLES 74. TESTRACK MAINTENANCE 75. MAINTENANCE OF GENERAL PLANT ACCOUNT 935 MARGINAL TOTAL	935 935 935 935 935 935 935	935.600 935.601 935.675 935.606 935.605 935.680 935.000	Y Y Y Y Y	21,073,769 18,596 128,928 1,620,271 23,292 45,371 22,910,225	286,065 (405) 1,623 512,971 (59,095) - 921,033 1,662,193	21,359,834 18,191 130,550 2,133,242 (35,803) - 966,404 24,572,418	21,359,834 18,191 130,550 2,133,242 (35,803) - 966,404 24,572,418	: : : : :
TOTAL A&G				580,002,728	100,714,737	680,717,465	332,056,960	348,660,505

2024 TCAP A&G LOADER ANALYSIS 2021 RECORDED COSTS

					r .
FERC Account	LABOR	NON_LABOR	TOTAL DIRECT	REASSIGNMENTS	TOTAL COSTS
920.000 Total	\$76,791,664		\$76,791,664	\$ 4,402,416	\$81,194,080
920.010 Total			\$0	\$ 0	\$0
920.047 Total			\$0	\$ 0	\$0
920.200 Total	\$8,934,472		\$8,934,472	\$ 2,042,211	\$10,976,683
920.212 Total			\$0	\$ 0	\$0
920.300 Total			\$0	\$ 0	\$0
920.301 Total	\$27,309		\$27,309	\$ 79,493	\$ 106,802
920.302 Total			\$0	\$ 0	\$0
920.360 Total			\$0	\$ 0	\$0
920.371 Total	\$349		\$349	\$ 405	\$754
920.372 Total			\$0	\$ 0	\$0
920.372 Total			\$0	\$ 0	\$0
920.563 Total	\$0		\$0	\$ 0	\$0
920.561 Total	\$0		\$0	\$ 0	\$0
920.563 Total	\$0		\$0	\$ 0	\$0
920.570 Total	\$3,282,636		\$3,282,636	\$ 733,343	\$4,015,979
920.600 Total	\$0		\$0	\$ 4	\$4
920.601 Total	\$2,753		\$2,753	\$ 503	\$3,257
920.604 Total			\$0	\$ 0	\$0
920.630 Total			\$0	\$ 0	\$0
920.632 Total			\$0	\$ 0	\$0
920.850 Total	\$0		\$0	\$ 0	\$ 0
	\$ 89,039,183	\$ 0	\$ 89,039,183	\$ 7,258,375	\$ 96,297,558
921.000 Total		\$23,623,084	\$23,623,084	-\$ 1,709,634	\$21,913,450
921.047 Total			\$0	\$ 0	\$ 0
921.200 Total		\$ 281,161	\$281,161	\$ 5,984	\$287,145
921.301 Total		\$ 3,025,789	\$3,025,789	\$ 701,796	\$3,727,585
921.371 Total		\$ 302,741	\$302,741	-\$ 40,611	\$262,130
921.561 Total		\$ 864	\$864	-\$ 36	\$829
921.563 Total		\$ 276	\$276	-\$ 8	\$267
921.570 Total		\$ 242,768	\$242,768	-\$ 6,493	\$236,275
921.600 Total		\$ 182,017	\$182,017	\$ 885	\$182,902
921.601 Total		\$ 1,533,162	\$1,533,162	-\$ 32,941	\$1,500,221
921.604 Total		\$ 416	\$416	\$ 100	\$516
921.630 Total			\$0	\$ 0	\$0
921.850 Total		\$ 0	\$0	\$ 0	\$0
921.999 Total			\$0	-\$ 1,186,219	(\$1,186,219)
	\$ 0	\$ 29,192,278	\$ 29,192,278	-\$ 2,267,177	\$ 26,925,101

2024 TCAP A&G LOADER ANALYSIS 2021 RECORDED COSTS

	i		1		
FERC Account	LABOR	NON_LABOR	TOTAL DIRECT	REASSIGNMENTS	TOTAL COSTS
922.000 Total			\$0	-\$ 7,586,790	(\$7,586,790)
922.200 Total			\$0	-\$ 2,152,634	(\$2,152,634)
922.301 Total			\$0	\$ 89,628	\$89,628
922.563 Total			\$0	-\$ 100	(\$100)
922.570 Total			\$0	-\$ 1,059,607	(\$1,059,607)
922.600 Total			\$0	-\$ 416	(\$416)
922.604 Total			\$0	\$ 0	\$0
	\$ 0	\$ 0	\$ 0	-\$ 10,709,919	-\$ 10,709,919
•					
923.000 Total	\$1,391,558	\$51,143,072	\$52,534,630	\$ 137,162,714	\$189,697,344
923.850 Total	\$0	\$0	\$0	\$ 0	\$0
:	\$ 1,391,558	\$ 51,143,072	\$ 52,534,630	\$ 137,162,714	\$ 189,697,344
	**	*********	45.001.100	A ====	*******
924.000 Total	\$0	\$5,901,492	\$5,901,492	\$ 562,703	\$6,464,195
925.000 Total	\$1,565,655	(\$1,503,522)	\$62,133	(\$1.946.694)	(\$4.794.E40)
925.000 Total 925.160 Total	\$3,418,284	(\$1,503,522) \$1,716,711	\$52,133 \$5,134,995	(\$1,846,681)	(\$1,784,548)
925.160 Total 925.180 Total	\$790,451	\$1,716,711	\$5,134,995	\$870,018 \$310,126	\$6,005,012 \$2,227,624
925.300 Total	\$790,451	\$1,127,047	\$1,917,498		
				(\$4,849,601)	\$15,111,011
925.310 Total	\$0	\$55,100,544	\$55,100,544	(\$10,580,432)	\$44,520,112
925.850 Total		\$0	\$0	\$0 (646,006,574)	\$0
:	\$5,774,389	\$76,401,393	\$82,175,782	(\$16,096,571)	\$66,079,211
926.000 Total	\$2,064,039	\$911,623	\$2,975,662	\$38,008,354	\$40,984,016
926.200 Total	\$14.500	\$8,108,561	\$8,123,061	(\$8,117,534)	\$5,527
926.202 Total	\$0	\$0	\$0	\$0	\$0,327
926.207 Total	\$0	\$0	\$0	\$0	\$0
926.239 Total	Çü	\$133,227	\$133,227	(\$133,227)	\$0
926.300 Total	\$2,293	\$245,796,096	\$245,798,389	(\$58,446,677)	\$187,351,712
320.300 Total	\$2,080,832	\$254,949,506	\$257,030,338	(\$28,689,083)	\$228,341,255
:	ψ2,000,002	Ψ204,040,000	Ψ201,000,000	(\$20,000,000)	Ψ220,041,200
928.000 Total	\$3,739,390	\$302,746	\$4,042,136	\$2,789,318	\$6,831,455
928.500 Total		\$571,804	\$571,804	\$0	\$571,804
•	\$3,739,390	\$874,550	\$4,613,940	\$2,789,318	\$7,403,259
•					
930.046 Total		\$8,397	\$8,397	(\$60)	\$8,338
930.100 Total		\$1,235,009	\$1,235,009	\$4,959	\$1,239,968
930.200 Total	\$3,318,318	\$10,420,898	\$13,739,216	\$9,973,882	\$23,713,098
930.600 Total		\$44,536	\$44,536	\$280	\$44,816
930.625 Total		\$9,191	\$9,191	\$56	\$9,248
	\$3,318,318	\$11,718,032	\$15,036,350	\$9,979,118	\$25,015,468
		_			
931.000 Total		\$22,474	\$22,474	\$975,581	\$998,055
931.600 Total		\$16,814,530	\$16,814,530	(\$799,959)	\$16,014,571
931.602 Total		\$5,966,514	\$5,966,514	(\$1,107,595)	\$4,858,919
	\$0	\$22,803,518	\$22,803,518	(\$931,973)	\$21,871,545
		445.00	A45		
935.000 Total		\$45,371	\$45,371	\$921,033	\$966,404
935.600 Total	\$3,648,377	\$17,425,392	\$21,073,769	\$286,065	\$21,359,834
935.601 Total	***	\$18,596	\$18,596	(\$405)	\$18,191
935.605 Total	\$22,727	\$565	\$23,292	(\$59,095)	(\$35,803)
935.606 Total	\$875,881	\$744,390	\$1,620,271	\$512,971	\$2,133,242
935.675 Total	\$109,601	\$19,326	\$128,928	\$1,623	\$130,550

2024 TCAP A&G LOADER ANALYSIS 2021 RECORDED COSTS

FERC Account	LABOR	NON_LABOR	TOTAL DIRECT	REASSIGNMENTS	TOTAL COSTS
935.680 Total	\$0	\$0	\$0	\$0	\$0
	\$5,183,530	\$14,015,213	\$22,910,225	\$1,662,193	\$24,572,418
	\$110,527,200	\$466,999,054	\$581,237,737	\$100,719,696	\$681,957,433

Weighted Average RECC Calculation

			Gas Plant In Service			Weighted	
	Account		Year End 2021			Average	
	<u>No.</u>	General Plant Accounts	Balance (\$)	<u>Percent</u>	<u>RECC</u>	RECC	Source
1	390	Structures and Improvements	257,107,747	23.86%	8.615%	2 056%	FERC Form 2 line no 112, page 209
2.	391	Office Furniture and Equipment	201,101,111	20.0070	0.01070	2.00070	7 2.10 7 0.111 2 lililo 110 7 12, page 200
3.	391.1	Office Furn & Equip-ME & FF	3,629,862	0.34%	11.446%	0.039%	
4.	391.2	Computer Equip	103,310,104	9.59%	24.587%	2.357%	
	391.25	Computer Hardware AMI	35,476	0.00%	24.587%	0.001%	
5.	391.3	Computer Software 2-4years	13,273,506	1.23%	37.982%	0.468%	
	391.35	Computer Software AMI	499,916	0.05%	20.736%	0.010%	
6.	391.4	Computer Software 5-8years	305,598,813	28.36%	20.736%	5.881%	
7.	391.5	Computer Software 9-12years	41,196,318	3.82%	13.908%	0.532%	
8.	391.55	Computer Software 15years	2,642,267	0.25%	10.568%	0.026%	
9.	391.6	Computer Software 20years	1,316,245	0.12%	8.959%	0.011%	
10.	392	Transportation Equipment	149,370	0.01%	10.091%	0.001%	FERC Form 2 line no 114, page 209
11.	393	Stores Equipment	112,635	0.01%	10.091%	0.001%	FERC Form 2 line no 115, page 209
12.	394	Tools, Shop, and Garage Equipment	123,277,589	11.44%	9.230%	1.056%	FERC Form 2 line no 116, page 209
13.	395	Laboratory Equipment	8,399,288	0.78%	9.062%	0.071%	FERC Form 2 line no 117, page 209
14.	396	Power Operated Equipment	1,124	0.00%	10.091%	0.000%	FERC Form 2 line no 118, page 209
15.	397	Communication Equipment	215,572,989	20.01%	10.957%	2.192%	FERC Form 2 line no 119, page 209
16.	398	Miscellaneous Equipment	1,444,836	0.13%	10.091%	0.014%	FERC Form 2 line no 120, page 209
17.			1,077,568,085	100.00%	_	14.714%	

Reflects 2021 FERC Form 2 data. RECC factors updated.

Gas Plant updated to 2021 FERC Form 2 data RECC factors updated to 2021 values

General Plant Loading Factor

		2024 TCAP	_	Sources
1.	Total General Plant Transmission and Storage adjustment Net Total General Plant after Storage adj.	\$2,298,849,117 17.59% \$1,894,523,312	- ck	FERC Form 2, page 209, line 121
1.	Weighted Average RECC for General Plant	14.71%		RECC tab
2.	Annualized General Plant Costs	\$278,751,022	1 x 2	
3.	Net Recorded O&M Costs	\$321,025,665		O&M Expenses tab
4.	General Plant Loading Factor	86.83%	3 / 4	
6.	Transmission and Storage adjustment	17.59%		EC study

Notes:

1/ Total General Plant on Line 1 reflects removal of GP allocated to Transmission and Storage functions in EC study.

Reflects 2021 FERC Form 2 data for total General Plant.

2021 FERC Form 2 data M&S Annual Costs By Function

I. Direct Plant Investment (To Allocate M&S Cost to Functions)

Line #	Function	Plant	Percent			
1	Storage	\$1,917,731,794	9.87%		FERC form 2, p. 207, line 57	
2	Transmission - Total	\$4,456,171,042	22.93%		FERC form 2, p. 209, line 92	
3	Distribution - Total	\$13,058,897,985	67.20%		from Allocation of Investment tab	
4	Customer Related	\$5,795,758,029	29.82%		from Allocation of Investment tab	
5	Load Related	\$7,263,139,956	37.38%		from Allocation of Investment tab	
6	General Plant	\$0	0.00%			
7	Total	\$19,432,800,821	100.00%			
	II. Total M&S To Be Functionalized					
8	Total Material and Supplies	\$65,353,863			2021 FERC Year end M&S value from Selected Financial Data (from Net Plant Investment Page 1 of 2, Line 13)	
	III. Functional Allocation of M&S				(non-rect lant invocation) ago 1 of 2, 2mo 10)	
9	Storage	\$6,449,466	9.87%			
10	Transmission - Total	\$14,986,414	22.93%			
11	Distribution - Total	\$43,917,984	67.20%			
12	Customer Related	\$19,491,538	29.82%			
13	Load Related	\$24,426,446	37.38%			
14	General Plant	\$0	0.00%			
15	Total	\$65,353,863	100.00%			
16	IV. M&S Annual Cost factor	9.39%			from Annual Cost Factor tab, check with one correct	
	V. M&S Annual Costs					
		2021 \$		2024 \$		
17	Storage	\$605,605	9.87%	\$597,963		
18	Transmission - Total	\$1,407,224	22.93%	\$1,389,468		
19	Distribution - Total	\$4,123,899	67.20%	\$4,071,863		
20	Customer Related	\$1,830,255	29.82%	\$1,807,161	@ O&M Esclation 2021 to 2024	
21	Load Related	\$2,293,643	37.38%	\$2,264,702	1.081	\$2,479,091
22	General Plant	\$0	0.00%	\$0		
23	Total	\$6,136,728	100.00%	\$6,059,294		
23	I otal	\$6,136,728	100.00%	\$6,059,294		

*escalated by capital factor: 2021\$ to 2024\$ Updated to FERC Form 2 data for 2021

0.987

Updated to FERC Form 2 data for 2021

2024 TCAP Phase M&S Annual Costs By Function Allocation of 2021 Distribution Plant Investment

Customer Related

		\$	Percent
1.	380 Services	3,551,498,851	
2.	381 Meters	986,390,272	
3.	382 Meter Installations	640,766,147	
4.	383 House Regulators	188,953,322	
5.	386 Other Property on Customer Premise	0	
6.	Sub-Total	5,367,608,592	44.38%
	388 ARO - Customer Related	428,149,437	
	Customer Related Total	5,795,758,029	

Load Related

		\$	<u>Percent</u>
7.	374 Land & Land Rights	32,627,165	
8.	375 Structures & Improvements	361,104,453	
9.	376 Mains	6,100,785,625	
10.	378 Measurement & Reg Stations	155,470,912	
11.	387 Other Equipment	76,602,609	
12.	Sub-Total	6,726,590,764	55.62%
	388 ARO - Load Related	536,549,192	
	Load Related Total	7,263,139,956	

13. **Total Distribution Plant** 13,058,897,985 100.000%

FERC Form 2, p. 208-9

13,058,897,985 p. 209, line 109

0 <== Difference from Rounding

2024 TCAP M&S Annual Costs By Function Development of Material & Supplies Annual Cost Factor

		Capital <u>Structure</u>	<u>Cost</u>	Weighted <u>Cost</u>	Tax <u>Factor</u>	Pre-Tax <u>Wt. Cost</u>
1.	Long Term Debt	45.60%	4.23%	1.93%	1.00000	1.93%
2.	Preferred Stock	2.40%	6.00%	0.14%	1.38857	0.20%
3.	Common Equity	52.00%	10.05%	5.23%	1.38857	7.26%
4.				7.300%		9.39%

sources:

2020 Cost of Capital Decision (D.19-12-056)

SOUTHERN CALIFORNIA

2021 Economic Assumptions Update LEVELIZED ANNUAL CAPI

utility socal

Auth ROR ===> 7.30%

Fed Tax Rate ====>

21.00%

FERC Account Name

		State			Normlzd	Depreciation Method	
Book	Tax	Tax	Percent	Federal	State	Federal Tax	Ctata Tay
Life	Life	Life	Salvage	Taxes?	Taxes?	reueral Tax	State Tax

GAS GENERAL PLANT

G-391.5	Software Programs - 10yr ASL
G-391.55	Software Programs - 15yr ASL
G-391.6	Software Programs - 20yr ASL
G-391.3	Software Programs - 3yr ASL
G-391.4	Software Programs - 6yr ASL

10	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%
15	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%
20	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%
3	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%
6	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%

GAS

ITAL COST AND RECC FACTORS

State Tax Rate ===> 8.84% d Valorum Rate ===>

1.342%

	LACC Com	inonents (in percent			Sum of Rev Req	
Book Depr	Return on Capital	•	Property Taxes	Total RECC Factors			
	1 1					1	1
10.00	3.51	0.76	0.68	14.95	13.91	103.58	146.07
6.67	3.61	0.74	0.74	11.75	10.57	105.06	167.96
5.00	3.74	0.74	0.79	10.26	8.96	106.26	189.85
33.33	3.76	1.08	0.47	38.65	37.98	100.87	115.42
16.67	3.52	0.84	0.60	21.63	20.74	102.14	128.56

SOUTHERN CALIFORNIA GAS

2021 Economic Assumptions Update LEVELIZED ANNUAL CAPITAL COST AND RECC FACTORS

	utility socal		th ROF		7.30%	по ори		Γax Rate	====>	21.00%			Rate ===>		d Valorum	Rate ===	>	1.342%	
			Fed	State		Normlzd	Normlzd		Denreciat	ion Metho	nd		LACC Comp	nonents (in nercent)				
FERC Account	Account Name	Book Life	Tax Life	Tax Life	Percent Salvage	Federal Taxes ?	State Taxes ?		al Tax	State		Book Depr	Return on Capital			Total LACC	RECC Factors	PVCC Factors	Sum of Rev Req
GAS UN	NDERGROUND STORAGE	9	10	11	12	13	14		15		16	19	20	21	22	23	25	26	27
G-352 G-353 G-354 G-356	Wells Lines Compressor Station Equipment Purification Equipment	49 54 41 39	15 15 15 15	22 22 22 22	-70% -40% -15% -30%	TRUE TRUE TRUE TRUE	FALSE FALSE FALSE FALSE	db/sl db/sl db/sl db/sl	150% 150% 150% 150%	db/sl db/sl db/sl db/sl	200% 200% 200% 200%	3.47 2.59 2.80 3.33	3.83 4.41 4.46 4.16	0.97 1.09 1.11 1.04	0.73 0.87 0.88 0.80	9.01 8.97 9.26 9.34	7.08 6.99 7.43 7.53	119.48 120.14 119.86 119.75	224.69 282.24 276.35 253.27
GAS TF	RANSMISSION PLANT																		
G-365.1 G-366 G-367 G-368 G-369 G-371	Land Structures & Improvements Mains Compressor Station Equipment Measuring & Regulating Equipment Other Equipment	0 47 64 50 46 21	0 39 15 15 15 15	0 45 22 22 22 22	0% -40% -60% -15% -50% -10%	FALSE TRUE TRUE TRUE TRUE TRUE	FALSE FALSE FALSE FALSE FALSE	none sl db/sl db/sl db/sl db/sl	0% 0% 150% 150% 150%	none db/sl db/sl db/sl db/sl	0% 0% 200% 200% 200% 200%	0.00 2.98 2.50 2.30 3.26 5.24	7.30 4.68 4.40 4.67 4.04 4.08	2.10 1.38 1.09 1.15 1.01 1.10	1.34 0.83 0.87 0.94 0.78	10.74 9.86 8.86 9.06 9.10 11.16	n/a 7.79 6.81 7.11 7.20 9.69	147.12 130.22 120.09 120.42 119.75 118.09	1105.13 287.81 265.76 309.85 247.73 203.20
GAS DI	STRIBUTION PLANT																		
G-374.1 G-374.2 G-375 G-376 G-378 G-380 G-381 G-382 G-383 G-387	Land Land Rights Structures & Improvements Mains Measuring & Regulating Equipment Services Meters Meter & Regulator Installations House Regulators Other Equipment	0 40 40 68 47 67 25 30 33 21	0 40 39 20 20 20 20 20 20 20	0 40 45 35 35 35 35 35 35 35	0% 0% -10% -80% -95% -115% 5% -10% 5%	FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRU	FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE	none sl sl db/sl db/sl db/sl db/sl db/sl db/sl db/sl	0% 0% 150% 150% 150% 150% 150% 150%	db/sl db/sl db/sl db/sl db/sl db/sl db/sl db/sl db/sl	0% 0% 0% 200% 200% 200% 200% 200% 200%	0.00 2.50 2.75 2.65 4.15 3.21 3.80 3.67 2.88 4.52	7.30 5.17 4.99 4.38 3.50 3.94 4.62 4.41 4.77 4.57	2.10 1.49 1.47 1.19 1.00 1.11 1.34 1.24 1.32	1.34 0.93 0.89 0.84 0.62 0.73 0.86 0.82 0.91	10.74 10.09 10.10 9.05 9.27 8.99 10.62 10.14 9.88 11.29	n/a 8.11 8.12 6.92 7.32 6.89 9.04 8.44 8.12 9.80	147.12 130.02 130.11 122.96 122.34 122.09 120.53 122.12 122.09 119.44	1105.13 313.88 302.03 231.10 191.81 150.81 229.99 243.24 266.77 211.60
GAS GE	ENERAL PLANT																		
G-390 G-391.1 G-391.2 G-393 G-394.1 G-395 G-397 G-398 G-391.5 G-391.6 G-391.3	Structures & Improvements Office Furniture & Equipment Computer Equipment Stores Equipment Shop & Garage Equipment Large Portable Tools Laboratory Equipment Communications Equipment Miscellaneous Equipment Software Programs - 10yr ASL Software Programs - 20yr ASL Software Programs - 20yr ASL Software Programs - 3yr ASL	33 14 5 20 29 24 25 15 20 10 15 20 3	39 7 5 20 20 20 20 7 20 3 3 3 3	45 10 6 35 35 35 35 35 30 33 3 3	-15% 0% 0% 0% 0% 0% 0% 0% 0% 0%	TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE	FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE	sl db/sl db/sl db/sl db/sl db/sl db/sl db/sl sl sl sl	0% 200% 200% 150% 150% 150% 200% 150% 0% 0% 0%	db/sl	0% 200% 200% 200% 200% 200% 200% 200% 0% 0% 0%	3.48 7.14 20.00 5.00 3.45 4.17 4.00 6.67 5.00 10.00 6.67 5.00 33.33	4.74 3.81 3.78 4.45 4.59 4.50 4.52 3.82 4.45 3.51 3.61 3.74	1.43 0.97 1.09 1.33 1.30 1.31 1.30 0.96 1.33 0.76 0.74 0.74	0.82 0.73 0.57 0.79 0.86 0.82 0.83 0.74 0.79 0.68 0.74 0.79	10.47 12.65 25.44 11.56 10.20 10.80 10.65 12.19 11.56 14.95 11.75 10.26 38.65	8.61 11.45 24.59 10.09 8.52 9.23 9.06 10.96 10.09 13.91 10.57 8.96 37.98	129.47 108.66 103.47 119.69 121.60 120.67 120.88 108.93 119.69 103.58 105.06 106.26 100.87	269.48 166.78 125.64 205.90 245.35 223.46 227.84 171.15 205.90 146.07 167.96 189.85 115.42

Oupitul unit	d O&M Escalators				
Plant	2021 \$s	to	2024 \$s	Factor: Capital	0.9874
Meter	2021 \$s	to	2024 \$s	Factor: Meter	1.0453
Service	2021 \$s	to	2024 \$s	Factor: Service	1.0525
	2021 \$s	to	2024 \$s	Factor: O&M	1.0809

factor used to escalate most capital forecasts (e.g., dist capital) factor used to escalate M&S\$ factor used to escalate transmission and storage capital costs

factor used to escalate 2021 FERC Form 2 data to 2024 \$

 Labor
 Nonlabor

 Split Factors
 2021
 33.41%
 66.59%

\$millions

 2021

 Total Salaries & Wages
 1,065

 Total Gas O&M Exp.
 3,186

Source: December 31, 2021 FERC Form 2, page 355, line 77 Source: December 31, 2021 FERC Form 2, page 325, line 271

Cost Escalators, for use in SoCalGas 2024

	Non-L O&M JGTOTALMS	Labor O&M	Gas Plant JUG@PCF	Meters	Plastic Services JUGPDSVP@PCF
1997	0.546508	0.515474	0.329802	0.416693	0.488075
1998	0.556188	0.537647	0.333936	0.417759	0.496418
1999	0.568399	0.551372	0.341745	0.406569	0.506847
2000	0.588664	0.569498	0.354147	0.430014	0.514495
2001	0.605079	0.590252	0.358970	0.446000	0.526314
2002	0.616970	0.599680	0.366319	0.429482	0.544391
2003	0.636191	0.619954	0.378492	0.410832	0.556211
2004	0.660023	0.641042	0.435908	0.389624	0.574287
2005	0.689741	0.668229	0.511469	0.394953	0.603488
2006	0.716104	0.685875	0.532369	0.419464	0.629909
2007	0.741028	0.697514	0.522263	0.480209	0.651879
2008	0.778895	0.721793	0.588224	0.533921	0.690396
2009	0.776019	0.737888	0.581793	0.544578	0.722796
2010	0.796150	0.751854	0.606781	0.539889	0.740873
2011	0.825389	0.771478	0.664198	0.546284	0.765902
2012	0.843603	0.791098	0.716837	0.572287	0.791905
2013	0.856661	0.807784	0.712658	0.615981	0.806158
2014	0.870143	0.822510	0.720466	0.744399	0.826320
2015	0.872294	0.851420	0.710361	0.801415	0.844745
2016	0.877453	0.884126	0.708294	0.855766	0.867341
2017	0.894385	0.906570	0.746189	0.959673	0.888894
2018	0.919921	0.920128	0.790285	1.033740	0.904885
2019	0.934935	0.923903	0.827951	1.077434	0.930957
2020	0.933900	0.962888	0.869291	1.032674	0.958768
2021	1.000000	1.000000	1.000000	1.000000	1.000000
2022	1.038094	1.038914	1.075795	1.013781	1.022800
2023	1.038197	1.069333	1.022173	1.036951	1.035659
2024	1.045893	1.098394	0.987382	1.045280	1.052543
2025	1.060272	1.127620	0.978623	1.067205	1.079063
2026	1.079035	1.159055	0.995406	1.095455	1.100326
2027	1.099507	1.192006	1.017677	1.096034	1.125230
2028	1.121022	1.226165	1.040631	1.093279	1.150294
2029	1.143508	1.261991	1.065267	1.104631	1.174317
2030	1.166583	1.299289	1.088654	1.118575	1.196051

Values from EC study

Transmission	on and Storage								
EC study allocation of A&G and Gen Plant to transmission and storage function A&G									
	Transmission	<u>Storage</u>	<u>Total</u>						
	66.4	35.8	581.5						
	11.43%	6.16%	% A&G allocated to Tran/Storage						
Gen Plant									
	Transmission	<u>Storage</u>	<u>Total</u>						
	3.924	2.116	34.340 Gen Plant Return						
	24.051	12.968	210.479 Gen Plant Depreciation						
	1.218	0.656	10.655 Gen Plant Taxes						
	29.193	15.740	255.474						
	11.43%	6.16%	% Gen Plant allocated to Tran/Storage						

Real Economic Carry Charge (RECC) Factors							
FERC	Account	RECC					
Account	Name	Factors					
G-376	Mains	8.1%					
G-378	Measuring & Regulating Equipment	6.9%					
G-380	Services	7.3%					
G-381	Meters	6.9%					
G-382	Meter Installations	9.0%					
G-383	House Regulators	8.4%					

Total Marginal A&G Costs \$000's + Total Payroll Taxes \$000	\$231,530 \$48,408
= Marginal A&G and Payroll Taxes \$000	\$279,938
/ Net O&M Costs \$000	\$321,026
= Marginal A&G Loading Factor as a % of O&M	87.20%

General Plant Loading Factor

/ Net Recorded O&M Costs \$000 = General Plant Loading Factor as a % of O&M	\$321,026 86.83%

= Annualized General Plant Costs	\$278,751
Total General Plant \$000 * Weighted Average RECC for General Plant	\$1,894,523 14.71%
Total General Plant \$000	\$1,894,523

M&S Annual Costs

Function	
Customer Related \$000	\$1,807
Load Related \$000	\$2,479
Total	\$4,286

Base Year 2021 Test Year 2024

SoCalGas 2024 TCAP

Section 4
Cost Allocation Model

Workpapers to the Prepared Written Testimony of Marjorie Schmidt-Pines

SOUTHERN CALIFORNIA GAS COMPANY 2024 TCAP

Section 5
Long Run Marginal Customer Cost Model
Minimum observed costs - 20th percentile

Workpapers to the Prepared Written Testimony of Marjorie Schmidt-Pines

	Residential
Marginal Customer Unit Cost @ various LRMC Allocation Methods	
Customer Cust \$/Cust/Year Rental Method	\$272.30
Customer Cost \$/Cust/Year NCO Method	\$159.95
Customer Cost \$/Cust/Year NCO Method w/Replacement Cost	\$236.20
Customer Cust \$/Cust/Year Rental Method ARM1	\$164.78
Customer Cust \$/Cust/Year Rental Method ARM2	\$248.21
ARM1 Factor	13%
ARM2 Factor	80%

Table X1	
SoCalGas' Residential Marginal Customer Unit Cost @ various LRMC All	ocation Methods
Customer Cust \$/Cust/Month Rental Method	\$22.69
Customer Cost \$/Cust/Month NCO Method	\$13.33
Customer Cost \$/Cust/Year NCO Method w/Replacement Cost	\$19.68
Customer Cust \$/Cust/Month Rental Method ARM1	\$13.73
Customer Cust \$/Cust/Month Rental Method ARM2	\$20.68
Note: Average cost for the bottom 20%	

Table 3: SoCalGas' Residential Minimum Connection Cost Per Month

F	Rental metho	NCO Method	ARM 1	ARM2
	\$22.69	\$19.68	\$13.73	\$20.68

Note: Average cost for the bottom 20% NCO is with Replacement Adder

SCG 2024 TCAP LRMC Customer Cost/Rental Method RD Format

S10			Residential	CCI	G-AC	G-GEN	NGV	Total Core
1 2 3	Marginal Customer Unit Cost @ various LRMC Allocation Methods Customer Cust \$/Cust/Year Rental Method Customer Cost \$/Cust/Year NCO Method Customer Cost \$/Cust/Year NCO Method w/Replacement Cost		\$286.40 \$159.43 \$239.01	\$1,602.20 \$831.15 \$1,056.60	\$7,388.64 \$1,491.30 \$2,645.34	\$15,377.31 \$5,566.15 \$9,210.21	\$55,226.83 \$49,526.62 \$51,434.94	
1 2	Input from O&M Loader Model:							
3	Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses	87.20%	SCG LRMC O&N	√ Loaders				
4	General Plant Loading Factor as a % or O&M expenses	86.83%	SCG LRMC O&N	√ Loaders				
5	Annualized Distribution Customer Related Costs \$000/yr	\$1,807,161	SCG LRMC O&N	√ Loaders				
6								
7	2021-24 Factor: Capital General Plant	0.9874	SCG LRMC O&N	M Loaders				
8	2021-24 Factor: O&M	1.0809	SCG LRMC O&N	M Loaders				

SCG 2024 TCAP LRMC Customer Cost/Rental Method RD Format

						Total Retail			South West	
S1	0	NCCI	EG Tier 1	EG Tier 2	EOR	NonCore	Long Beach	SDG&E	Gas	Vernon
	Marginal Customer Unit Cost @ various LRMC Allocation Methods									
1	Customer Cust \$/Cust/Year Rental Method	\$67,850.91	\$32,228.61	\$207,136.81	\$91,610.09		\$1,174,227.80	\$2,615,750.14	\$789,930.12	\$641,584.94
2	Customer Cost \$/Cust/Year NCO Method	\$25,685.22	\$20,577.22	\$68,605.06	\$34,008.28		\$246,638.07	\$231,542.67	\$305,655.33	\$178,378.22
3	Customer Cost \$/Cust/Year NCO Method w/Replacement Cost	\$33,612.71	\$23,537.62	\$92,274.48	\$42,018.50		\$741,549.41	\$1,503,625.87	\$564,037.98	\$425,520.09

Input from O&M Loader Model:

- 3 Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses
- General Plant Loading Factor as a % or O&M expenses
- 5 Annualized Distribution Customer Related Costs \$000/yr
- 7 2021-24 Factor: Capital General Plant
- 8 2021-24 Factor: O&M

6

SCG 2024 TCAP LRMC Customer Cost/Rental Method RD Format

		Total Whole				SYSTEM	
S10		sale	Ecogas	UBS	Total Noncore	TOTAL	Sources
	Marginal Customer Unit Cost @ various LRMC Allocation Methods						
1	Customer Cust \$/Cust/Year Rental Method		\$169,574.89	\$0.00			Cust MC
2	Customer Cost \$/Cust/Year NCO Method		\$101,401.03	\$0.00			Cust MC
3	Customer Cost \$/Cust/Year NCO Method w/Replacement Cost		\$137,774.89	\$0.00	\$3,628,537.64		Cust MC

Input from O&M Loader Model:

- 3 Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses
- General Plant Loading Factor as a % or O&M expenses
- 5 Annualized Distribution Customer Related Costs \$000/yr
- 7 2021-24 Factor: Capital General Plant
- 8 2021-24 Factor: O&M

6

SCG 2024 TCAP LRMC Customer Cost/Rental Method

Marginal Unit Costs	Core												Core		Noncore Retai	1			
810	Residential					Non-Residentia						Non-Residentia							
	Single	Multi	Master Meter		Residential	Commercial/Ind						Air	Natural Gas	Gas	G-30 - Noncor	e C&I		Small EG	Large EG
	Family		(up to	(100,001 therms		Very Small -	Small -	Medium -	Large - 50,001	Very Large -									
	(Detached		100,000	per year and		up to 300	301 to 3,000	3,001 to 50,000	to 250,000	Over 250,000									
	homes)	Family	therms/year)	greater)	Total or Avg.	therms/year	therms/year	therms/year	therms/year	therms/year	Average	Conditioning	Vehicle	Engine	Distribution	Transmission	Total	< 3million	> 3million
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718	519	19	538	351	21
Marginal Investment: 2021 \$/Customer																			
Meter & House Reg	\$413.14	\$346.30	\$1,700.46	\$23,516.62	\$419.62	\$733.12	\$1,201.06	\$2,399.08	\$8,319.97	\$12,280.87	\$1,363.65	\$5,291.82	\$90,191.70	\$3,347.81	\$139,681.17		\$148,585.35	\$103,857.60	\$916,355.85
Service Lines	\$1,274.99	\$1,341.83	\$11,727.95	\$93,892.86	\$1,516.85	\$8,393.24	\$8,646.46	\$12,753.10	\$51,902.21	\$708,154.59	\$11,009.79		\$88,095.97	\$205,325.53	\$383,335.44	############	\$410,998.74	\$190,284.47	\$466,096.97
Exclusive Use Facilities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,463.15	\$98,052.27	\$28,026.70	\$0.00	\$320,661.60
Total	\$1,688.13	\$1,688.13	\$13,428.41	\$117,409.47	\$1,936.47	\$9,126.36	\$9,847.52	\$15,152.19	\$60,222.17	\$720,435.46	\$12,373.44	\$84,377.27	\$178,287.67	\$208,673.34	\$548,479.76	************	\$587,610.79	\$294,142.08	\$1,703,114.4
Weighted RECC factors used to annualize SRM capital costs																			
Meter & House Reg	8.65%	8.65%	8.56%	8.48%	8.66%	8.61%	8.61%	8.56%	8.54%	8.56%	8.75%	8.53%	8.46%	8.52%	8.45%	8.46%	8.46%	8.45%	8.45%
Service Lines	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%
Exclusive Use															9.04%	9.04%	9.04%	9.04%	9.04%
Annualized Marginal Investment: \$/Cust.																			
Meter & House Reg	\$35.72	\$29.96	\$145.56	\$1,994.48	\$36.33	\$63.12	\$103.37	\$205.37	\$710.89	\$1,051.05	\$119.33	\$451.63	\$7,628.54	\$285.36	\$11,806.22	\$25,390.96	\$12,565.41	\$8,779.22	\$77,460.78
Service Lines	\$87.79	\$92.40	\$807.57	\$6,465.33	\$104.45	\$577.95	\$595.38	\$878.16	\$3,573.91	\$48,762.51	\$758.12	\$5,445.71	\$6,066.16	\$14,138.42	\$26,395.93	\$80,333.40	\$28,300.79	\$13,102.72	\$32,094.77
Exclusive Use Facilities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,300.95	\$8,860.38	\$2,532.60	\$0.00	\$28,976.20
Total Annualized Marginal Investment: 2024 \$/Cust.	\$123.52	\$122.36	\$953.13	\$8,459.81	\$140.78	\$641.07	\$698.76	\$1,083.53	\$4,284.80	\$49,813.56	\$877.45	\$5,897.34	\$13,694.70	\$14,423.78	\$40,503.10	\$114,584.74	\$43,398.79	\$21,881.94	\$138,531.7
O&M: \$/Customer																			
Customer Services O&M Cost 2021\$'s \$000/year	\$86,027.90	\$40,203.55	\$2,716.25	\$1.16	\$128,948.87	\$4,326.81	\$4,724.93	\$11,943.44	\$854.96	\$224.45	\$22,074.61	\$0.17	\$83.47	\$96.26	\$0.00	\$0.00	\$289.63	\$74.89	\$4.48
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718	519	19	538	351	21
Customer Services O&M \$/Customer 2021\$	\$22.68	\$22.68	\$22.68	\$22.68	\$22.68	\$48.67	\$73.21	\$254.07	\$411.43	\$717.11	\$108.83	\$19.10	\$340.68	\$134.07	\$0.00	\$0.00	\$538.34	\$213.35	\$213.35
escalator 2021\$'s to 2024\$'s	1 0809	1 0809	1 0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1 0809	1.0809	1.0809	1.0809	1 0809	1.0809	1.0809	1 0809	1 0809	1.0809
Customer Services O&M \$/Customer 2024\$	\$24.52	\$24.52	\$24.52	\$24.52	\$24.52	\$52.61	\$79.13	\$274.62	\$444.70	\$775.09	\$117.63	\$20.65	\$368.22	\$144.91	\$581.86	\$581.86	\$581.86	\$230.60	\$230.60
Ot A O.BM 004001- 00001-	\$53.584.51	\$25.041.73	\$1.691.88	\$0.72	\$80.318.84	04 444 07	\$687.44	\$5.977.49	\$163.40	\$117.62	\$8 057 21	64.00	\$284.92	\$48.52	\$0.00	\$0.00	\$897.83	\$604.04	600.44
Customer Accounts O&M 2013\$'s \$000/yr			119 747	\$0.72 51	5.684.763	\$1,111.27 88 897			2 078			\$4.32	\$284.92 245	\$48.52 718	519	\$0.00 19	538		\$36.14 21
2021 Number of Customers Customer Services O&M \$/Customer 2021\$	3,792,575 \$14,13	1,772,390 \$14.13	\$14.13	\$14.13	\$14.13	\$12.50	64,539 \$10.65	47,008 \$127.16	\$78.63	313 \$375.77	202,835 \$39.72	\$479.68	\$1.162.94	\$67.57	\$0.00	\$0.00	\$1.668.83	351 \$1,720,92	\$1,720.92
escalator 2021\$'s to 2024\$'s	1 0809	1 0809	1 0809	1.0809	1.0809	1 0809	1 0809	1 0809	1.0809	1 0809	1 0809	1.0809	1 0809	1 0809	1 0809	1.0809	1 000.83	1 0809	1.0809
Customer Accounts O&M \$/Customer 2024\$	\$15.27	\$15.27	\$15.27	\$15.27	\$15.27	\$13.51	\$11.51	\$137.44	\$84.99	\$406.16	\$42.93	\$518.46	\$1,256.97	\$73.04	\$1,803.76	\$1.0809	\$1.803.76	\$1.0809	\$1,860.06
			*				******	*	•••••						.,	.,		* -,	
Meter & House Reg O&M Total Cost	\$5,485.23	\$2,148.72	\$712.85	\$4.20	\$8,351.00	\$3.06	\$3.64	\$5.30	\$0.81	\$0.18	\$13.00	\$0.00	\$0.00	\$0.00			\$62.00	\$513.00	\$61.00
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718	519	19	538	351	21
Customer Services O&M \$/Customer 2021\$	\$1.45	\$1.21	\$5.95	\$82.33	\$1.47	\$0.03	\$0.06	\$0.11	\$0.39	\$0.58	\$0.06	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$115.24	\$1,461.54	\$2,904.76
escalator 2021\$'s to 2024\$'s	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809
Meter & House Reg O&M \$/Customer 2024\$	\$1.56	\$1.31	\$6.43	\$88.98	\$1.59	\$0.04	\$0.06	\$0.12	\$0.42	\$0.62	\$0.07	\$0.00	\$0.00	\$0.00	\$124.56	\$124.56	\$124.56	\$1,579.71	\$3,139.62
Total Service																			
Line Footage	231,707,635	58,800,895	11,613,724	14,016	302,136,270	12,721,655	6,951,318	6,611,352	562,372	116,057	26,962,754	250	60,700	625,863	104,645	16,542	121,188	46,579	16,273
Percent of	231,707,033	30,000,093	11,013,724	14,010	302,130,270	12,721,000	0,931,310	0,011,332	302,372	110,037	20,902,734	230	60,700	020,000	104,043	10,342	121,100	40,379	10,273
Total Footage	70.23%	17.82%	3.52%	0.00%	91.57%	3.86%	2 11%	2 00%	0.17%	0.04%	8 17%	0.00%	0.02%	0.19%	0.03%	0.01%	0.04%	0.01%	0.00%
													0.02% \$8						
Allocated SL O&M Costs \$000 escalator 2021\$'s to 2024\$'s	\$31,820 1.0809	\$8,075	\$1,595	\$2 1.0809	\$41,492 1.0809	\$1,747 1.0809	\$955 1.0809	\$908 1.0809	\$77 1.0809	\$16 1.0809	\$3,703 1.0809	\$0 1.0809	1.0809	\$86 1.0809	\$14 1.0809	\$2 1.0809	\$17 1.0809	\$6 1.0809	\$2 1.0809
Allocated SL O&M Costs 2024\$'s	\$34,393	\$8,728	\$1,724	\$2	\$44.847	\$1,888	\$1,032	\$981	\$83	\$17	\$4,002	\$0	1.0809	\$93	\$16	1.0809	\$18	1.0809	1.0809
2021 Number of Customers	3.792.575	1.772.390	119,747	\$2 51	5.684.763	88.897	64.539	47.008	2.078	313	202.835	\$U	1 \$9 245	718	519	19	538	351	21
Service Lines O&M \$/Customer 2024\$	\$9.07	\$4.92	\$14.40	\$40.79	\$7.89	\$21.24	\$15.99	\$20.88	2,078 \$40.17	\$55.04	\$19.73	\$4.12	\$36.78	\$129.39	\$29.93	\$129.23	\$33.44	\$19.70	\$115.02
			1 014.40 1	440.75	\$1.00	VZ 1.24	1 4.0.00 1	Q2 0.00		QUO.0 4	410.70	V2	1 400.70 1	V120.00	\$25.55	V.20.20	\$55.44		0110.02
Customer Service & Information Cost (CSI) Costs Accounts (FERC A																			
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718	519	19	538	351	21
Customer Services & Information O&M \$/Customer 2021\$	\$3.49 1.0809	\$3.49 1.0809	\$3.49 1.0809	\$3.49 1.0809	\$3.49	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0! 1.0809	#DIV/0! 1.0809	\$77.38	\$0.00	\$12,459.35	\$0.00 1.0809	\$0.00 I 1.0809	\$0.00 1.0809	\$5,887.41 1,0809	\$72.96 1.0809	\$18,175.54
escalator 2021\$'s to 2024\$'s					1.0809	1.0809	1.0809	1.0809			1.0809	1.0809	1.0809						1.0809
Customer Accounts O&M \$/Customer 2024\$	\$3.78	\$3.78	\$3.78	\$3.78	\$3.78	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$83.64	\$0.00	\$13,466.72	\$0.00	\$0.00	\$0.00	\$6,363.42	\$78.86	\$19,645.09
Total Direct O&M \$/customer/vr	\$54.20	\$49.80	\$64.40	\$173.34	\$53.04	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$264.00	\$543.23	\$15,128,69	\$347.34	\$2.540.11	\$2,639,42	\$8.907.04	\$3.768.92	\$24.990.39
	V V-1.20	¥-10.00	*******	7110.04	V 00.04					,,,,,,,,	4204.00	¥0-10.23	u, 120.00	40-77.0-7	V2,0-10.11	72,000.4Z	-0,001.04	30,700.02	\$24,000.00
O&M Loaders: \$/Customer																			
Administrative & General as % of O&M	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%
Administrative & General \$/customer/yr 2024\$'s	\$47.26	\$43.43	\$56.15	\$151.16	\$46.25	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$230.21	\$473.70	\$13,192.38	\$302.88	\$2,215.01	\$2,301.60	\$7,767.04	\$3,286.54	\$21,791.90
General Plant as % of O&M General Plant \$/customer/yr 2024\$'s	86.83% \$47.06	86.83% \$43.24	86.83% \$55.92	86.83% \$150.52	86.83% \$46.06	86.83% #DIV/0!	86.83% #DIV/0!	86.83% #DIV/0!	86.83% #DIV/0!	86.83% #DIV/01	86.83% \$229.24	86.83% \$471.69	86.83% \$13,136.46	86.83% \$301.60	86.83% \$2,205.62	86.83% \$2,291.84	86.83% \$7,734.12	86.83% \$3,272.61	86.83% \$21,699.53
General Plant \$/customer/yr 2024\$ \$	φ47.00	\$43.Z4	\$33.92	\$130.32	\$40.00	#510/0:	#DIV/0:	#010/0:	#510/0:	#DIV/0:	\$229.24	\$471.09	\$13,130.40	\$301.00	\$2,205.02	\$2,291.04	\$1,134.12	\$3,272.01	\$21,099.55
Materials & Supplies Loader:						1						1							
Per Customer Direct+A&G+GP O&M \$/customer/yr	\$148.52	\$136.47	\$176.47	\$475.02	\$145.35	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$723.45	\$1,488.62	\$41,457.53	\$951.81	\$6,960.73	\$7,232.86	\$24,408.20	\$10,328.08	\$68,481.81
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718	519	19	538	351	21
Total Direct+A&G+GP O&M \$000/yr	\$563,268	\$241,877	\$21,131	\$24	\$826,301	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$146,742	\$13	\$10,157	\$683	\$3,613	\$137	\$13,132	\$3,625	\$1,438
Percent of Total	56.09%	24.09%	2.10%	0.00%	82.29%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	14.61%	0.00%	1.01%	0.07%	0.36%	0.01%	1.31%	0.36%	0.14%
Allocated M&S \$1,807,161.19	\$1,013,688	\$435,295	\$38,029	\$44	\$1,487,055	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$264,085	\$24	\$18,279	\$1,230	\$6,501	\$247	\$23,632	\$6,524	\$2,588
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718	519	19	538	351	21
M&S Loader \$/customer/yr 2024\$s	\$0.27	\$0.25	\$0.32	\$0.85	\$0.26	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$1.30	\$2.68	\$74.61	\$1.71	\$12.53	\$13.02	\$43.93	\$18.59	\$123.24
Total O&M Loaders \$/customer/yr	\$94.59	\$86.91	\$112.39	\$302.53	\$92.57	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$460.75	\$948.07	\$26,403.45	\$606.19	\$4,433.15	\$4,606.46	\$15,545.08	\$6,577.74	\$43,614.67
				\$8,935.68	\$286.40	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			\$55,226.83			\$121,830.62			
LRMC Rental Customer Cost \$/customer/year	\$272.30	\$259.07	\$1,129.91																

ginal Unit Costs									
		Noncore Wholesal	e				Total O&M Cost		
	EOR	Wholesale				International	for All		
	G-40	LB	SDG&E	SWG	Vernon	Ecogas	Customers		
2021 Number of Customers	30	1	1	1	1	1	5,889,515	cust 2	
Marginal Investment: 2021 \$/Customer Meter & House Rea	\$403.478.53	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5	
Service Lines	\$274,177.59	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5	
Exclusive Use Facilities	\$51,163.67	\$10,265,059.48	\$26,384,543.35	\$5,359,168.35	\$5,126,021.11	\$754,437.82		cust 6	
Total	\$728,819.80	\$10,265,059.48	\$26,384,543.35	\$5,359,168.35	\$5,126,021.11	\$754,437.82			
Weighted RECC factors used to annualize SRM capital costs									
Meter & House Reg	8.45%	0	0	0	0	0		cust 10	
Service Lines Exclusive Use	6.89% 9.04%	6.89% 9.04%	6.89% 9.04%	6.89% 9.04%	6.89% 9.04%	6.89% 9.04%		cust 10	
Annualized Marginal Investment: \$/Cust.		3.0470	3.0470	3.0470	3.0470	3.0476		Cust 10	
Meter & House Reg	\$34,098.98	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Service Lines Exclusive Use Facilities	\$18,879.48 \$4,623.34	\$0.00 \$927.589.73	\$0.00 \$2,384,207.47	\$0.00 \$484,274.79	\$0.00 \$463,206.72	\$0.00 \$68.173.86			
Total Annualized Marginal Investment: 2024 \$/Cust.	\$57,601.80	\$927,589.73	\$2,384,207.47	\$484,274.79	\$463,206.72	\$68,173.86		i	
O&M: \$/Customer Customer Services O&M Cost 2021\$'s \$000/year	\$1.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$151,573.87	cust 8	
2021 Number of Customers	30	1	1	1	1	1	5,889,515	cust 2	
Customer Services O&M \$/Customer 2021\$	\$50.03	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.74	l	
escalator 2021\$'s to 2024\$'s Customer Services O&M \$/Customer 2024\$	1.0809 \$54.08	1.0809 \$0.00	1.0809 \$0.00	1.0809 \$0.00	1.0809 \$0.00	1.0809 \$0.00	1.0809 \$27.82	Loader Model	
Customer Accounts O&M 2013\$'s \$000/yr	\$50.90	\$6.53	\$5.09	\$10.86	\$3.64	\$2.92	\$90,331.76	cust 8	
2021 Number of Customers Customer Services O&M \$/Customer 2021\$	30 \$1,696.63	1 \$6.530.71	1 \$5,087.00	1 \$10.861.85	1 \$3,643.28	1 \$2,921.42	5,889,515 \$15.34	cust 2	
escalator 2021\$'s to 2024\$'s	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	Loader Model	
Customer Accounts O&M \$/Customer 2024\$	\$1,833.81	\$7,058.74	\$5,498.30	\$11,740.07	\$3,937.85	\$3,157.63	\$16.58	1	
Meter & House Reg O&M Total Cost	\$42.00	\$8.00	\$8.00	\$17.00	\$1.00	\$1.00	\$9,077.00	cust 8	
2021 Number of Customers	30	1	1	1	1	1	5,889,515	cust 2	
Customer Services O&M \$/Customer 2021\$	\$1,400.00	\$8,000.00	\$8,000.00	\$17,000.00	\$1,000.00	\$1,000.00	\$1.54	Loader Model	
escalator 2021\$'s to 2024\$'s Meter & House Reg O&M \$/Customer 2024\$	1.0809 \$1,513.19	1.0809 \$8.646.82	1.0809 \$8.646.82	1.0809 \$18.374.50	1.0809 \$1.080.85	1.0809 \$1.080.85	1.0809 \$1.67	Loader Model	
						. ,			
Total Service									
Line Footage Percent of	11,667	0	0	0	0	0	329,934,966	cust 8	
Total Footage	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%		
Allocated SL O&M Costs \$000	\$2	\$0	\$0	\$0	\$0	\$0	\$45,310	cust 8	
escalator 2021\$'s to 2024\$'s	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	Loader Model	
Allocated SL O&M Costs 2024\$'s 2021 Number of Customers	\$2 30	\$0	\$0 1	\$0 1	\$0	\$0 1	\$48,973	Loust 2	\$0
Service Lines O&M \$/Customer 2024\$	\$57.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	5,889,515 \$8.32	cust 2	
		,	*****					1	
Customer Service & Information Cost (CSI) Costs Accounts (FERC 2021 Number of Customers	A 30	1	1	1	1	1	5,889,515		
Customer Services & Information O&M \$/Customer 2021\$	\$8,261.26	\$68,590.22	\$64,946.55	\$75,148.83	\$55,473.00	\$30,252.33	\$7.26	\$0.00	\$0.
escalator 2021\$'s to 2024\$'s	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	Loader Model	
Customer Accounts O&M \$/Customer 2024\$	\$8,929.20	\$74,135.95	\$70,197.67	\$81,224.84	\$59,958.16	\$32,698.32	\$7.84	1	
Total Direct O&M \$/customer/yr	\$12,388.01	\$89,841.51	\$84,342.79	\$111,339.41	\$64,976.87	\$36,936.80	\$62.22		
O&M Loaders: \$/Customer									
Administrative & General as % of O&M	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	cust 4. a&q	
Administrative & General \$/customer/yr 2024\$'s	\$10,802.48	\$78,342.78	\$73,547.84	\$97,089.18	\$56,660.54	\$32,209.30	\$54.26		
General Plant as % of O&M	86.83%	86 83%	86 83%	86 83%	86 83%	86 83%	86.83%	cust 4, gen plant	
General Plant \$/customer/vr 2024\$'s	\$10.756.69	\$78.010.71	\$73.236.09	\$96.677.65	\$56.420.37	\$32.072.77	\$54.03	cust 4, gen plant	
	, ,	,	,	,,	,	,		1	
Materials & Supplies Loader: Per Customer Direct+A&G+GP O&M \$/customer/yr	622 047 40	\$246 40E CC	6024 406 70	\$20E 106 05	\$179 DE7 70	6101 219 67		1	
Per Customer Direct+A&G+GP O&M \$/customer/yr 2021 Number of Customers	\$33,947.19 30	\$246,195.00 1	\$231,126.73 1	\$305,106.25 1	\$178,057.78 1	\$101,218.87 1	5.889.515	cust 2	
Total Direct+A&G+GP O&M \$000/yr	\$1,018	\$246	\$231	\$305	\$178	\$101	\$1,004,171.47	I	
Percent of Total	0.10%	0.02%	0.02%	0.03%	0.02%	0.01%	100.00%	l	
Allocated M&S \$1,807,161.19 2021 Number of Customers	\$1,833 30	\$443 1	\$416 1	\$549 1	\$320 1	\$182 1	\$1,807,161.19 5.889.515	Loader Model cust 2	
M&S Loader \$/customer/yr 2024\$s	\$61.09	\$443.07	\$415.95	\$549.09	\$320.44	\$182.16	\$0.31	00012	
Total O&M Loaders \$/customer/yr	\$21,620.27	\$156,796.56	\$147,199.88	\$194,315.92	\$113,401.36	\$64,464.22	\$108.59	1	
LRMC Rental Customer Cost \$/customer/year									

SCG 2024 TCAP LRMC Customer Cost/Rental Method

	Core												Core		Noncore Retai	1			
)	Residential					Non-Residentia						Non-Residenti							
	Single	Multi	Master Meter		Residential	Commercial/Inc						Air	Natural Gas	Gas	G-30 - Noncor	e C&I		Small EG	Large E
	Family		(up to	(100,001 therms		Very Small -	Small -	Medium -	Large - 50,001	Very Large -									
	(Detached		100,000	per year and		up to 300	301 to 3,000	3,001 to 50,000	to 250,000	Over 250,000									
	homes)	Family	therms/year)	greater)	Total or Avg.	therms/year	therms/year	therms/year	therms/year	therms/year	Average	Conditioning	Vehicle	Engine	Distribution	Transmission	Total	< 3million	> 3millio
Total Rental Capital (\$000) before RECC					\$11,008,365	\$811,306	\$635,549	\$712,274	\$125,142	\$225,496		\$759	\$43,680	\$149,827	\$284,661	\$29,734	\$316,135	\$103,244	\$35,765
NCO Method:																			
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718	519	19	538	351	21
New Hookups Rate	0.54%	0.70%	0.19%	0.00%	0.59%	0.77%	0.72%	0.59%	0.35%	0.30%	0.70%	0.00%	3.67%	1.81%	0.19%	0.00%	0.18%	19.20%	0.009
No of New Customer Hookups /year	20,562	12,479	233	0	33,262	685	462	277	7	1	1,430	0	9	13	1	0	1	10	0
Marginal Investment: \$/Customer																			
Meter & House Reg	\$413.14	\$346.30	\$1,700.46	\$23,516.62	\$419.62	\$733.12	\$1,201.06	\$2,399.08	\$8,319.97	\$12,280.87	\$1,363.65	\$5,291.82	\$90,191.70	\$3,347.81	\$139,681.17	\$300,234.61	\$148,585.35	\$103,857.60	\$916,355
Service Lines	\$1,274.99 \$0.00	\$1,341.83 \$0.00	\$11,727.95 \$0.00	\$93,892.86 \$0.00	\$1,516.85 \$0.00	\$8,393.24 \$0.00	\$8,646.46 \$0.00	\$12,753.10 \$0.00	\$51,902.21 \$0.00	\$708,154.59 \$0.00	\$11,009.79 \$0.00	\$79,085.45 \$0.00	\$88,095.97 \$0.00	\$205,325.53 \$0.00	\$383,335.44 \$25.463.15	########## \$98.052.27	\$410,998.74 \$28.026.70	\$190,284.47 \$0.00	\$466,096 \$320,661
Exclusive Use Facilities																			
Total Marginal Investment \$/customer	\$1,688.13	\$1,688.13	\$13,428.41	\$117,409.47	\$1,936.47	\$9,126.36	\$9,847.52	\$15,152.19	\$60,222.17	\$720,435.46	\$12,373.44	\$64,377.27	\$178,287.67	\$208,673.34	\$548,479.76	***********	\$0.00	\$294,142.08	\$1,703,11
Weighted PVRR for Meter & House Reg	121.48%	121.51%	121.64%	121.93%	121.45%	121.53%	121.52%	121.63%	121.63%	121.58%	121.18%	121.68%	122.04%	121.73%	122.07%	122.05%	122.05%	122.06%	122.06
PVCC for Service Lines	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09
PVRR:																			
Meter & House Reg \$/customer	\$501.89	\$420.81	\$2.068.39	\$28.673.77	\$509.64	\$890.98	\$1,459,47	\$2,917.99	\$10,119,45	\$14.931.47	\$1,652.46	\$6 439 04	\$110.070.62	\$4.075.34	\$170,506.51	\$366,425,30	\$181.345.34	\$126,772.65	\$1.118.5
Service Lines \$/customer	\$1.556.64	\$1.638.24	\$14.318.73	\$114.634.45	\$1.851.93	\$10.247.36	\$10 556 52	\$15,570.35	\$63,367,77	\$864 590 90	\$13,441,93	\$96 555 98		\$250 683 38	\$468 016 93				\$569.06
PVRR of Hookup Cost \$/customer	\$2,058.54	\$2,059.05	\$16,387.12	\$143,308.21	\$2,361.57	\$11,138.35	\$12,015.99	\$18,488.34	\$73,487.22	\$879,522.37	\$15,094.39		\$217,627.61	\$254,758.72	\$638,523.44			\$359,092.30	\$1,687,60
Total PVRR of Hookup Cost for Class \$'s	\$42,327,198	\$25.694.619	\$3.819.595	\$0	\$78.551.023	\$7.634.822	\$5.556.219	\$5.128.373	\$541.033	\$831.693	\$21.581.186	\$0	\$1,958,649	\$3.311.863	\$620.587	\$0	\$663,407	\$3.590.923	\$1,007,00
PVRR of Hookup Cost \$/customer	\$11.16	\$14.50	\$31.90	\$0.00	\$13.82	\$85.88	\$86.09	\$109.10	\$260.36	\$2,657.17	\$106.40	\$0.00	\$7,994.48	\$4,612.62	\$1,195.74	\$0.00	\$1,233.10	\$10,230.55	\$0.00
	******	******			*****	7	,,,,,,,		,	*=,==::::	¥11001110	70.00	41,122	* 1,0 1=10=	¥1,1141111	*****	*.,=====	7.1,200.00	*****
O&M Cost w/Loaders \$/Cust.																			
Total Direct O&M	\$54.20	\$49.80	\$64.40	\$173.34	\$53.04	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$264.00	\$543.23	\$15,128.69	\$347.34	\$2,540.11	\$2,639,42	\$8.907.04	\$3,768.92	\$24,990
Total O&M Loaders \$/customer/yr	\$94.59	\$86.91	\$112.39	\$302.53	\$92.57	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$460.75	\$948.07	\$26,403.45	\$606.19	\$4,433.15	\$4.606.46	\$15,545.08	\$6,577.74	\$43,614
Total Oxivi Edaders \$/customer/yi	\$94.59	\$60.91	\$112.39	\$302.55	\$92.57	#510/0:	#DIV/0:	#DIV/0:	#DIV/0:	#DIV/0:	\$400.75	\$940.07	\$20,403.43	\$000.19	\$4,433.13	\$4,000.40	\$10,040.00	\$0,577.74	\$43,014.
LRMC NCO Customer Cost \$/customer/year	\$159.95	\$151.21	\$208.68	\$475.87	\$159.43	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$831.15	\$1,491.30	\$49,526.62	\$5,566.15	\$8,169.00	\$7,245.88	\$25,685.22	\$20,577.22	\$68,605
NCO w/ Replacement Cost Adder																			
Marginal Investment: Meter & House Reg \$/Customer	\$413.14	\$346.30	\$1,700.46	\$23,516.62	\$419.62	\$733.12	\$1,201.06	\$2,399.08	\$8,319.97	\$12,280.87	\$1,363.65	\$5,291.82	\$90,191.70	\$3,347.81	\$139,681.17		\$148,585.35	\$103,857.60	\$916,355
Service Lines Replacement Cost	\$3,668.45	\$3,668.45	\$10,801.80	\$83,525.70	\$3,819.43	\$7,771.50	\$7,831.55	\$11,100.74	\$60,204.80	\$514,112.53	\$9,880.69	\$57,195.30	\$88,369.78	\$196,578.35	\$316,997.27	\$880,789.46	\$336,908.15	\$150,084.47	\$341,323
Exclusive Use Facilities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,463.15	\$98,052.27	\$28.026.70	\$0.00	\$320,661
Total	\$1,688.13	\$1,688.13	\$13,428.41	\$117,409.47	\$1,936.47	\$9,126.36	\$9,847.52	\$15,152.19	\$60,222.17	\$720,435.46	\$12,373.44	\$84,377.27	\$178,287.67	\$208,673.34	\$548,479.76		\$0.00	\$294,142.08	\$1,703,11
Weighted PVRR for Meter & House Reg	121.48%	121.51%	121.64%	121.93%	121.45%	121.53%	121.52%	121.63%	121.63%	121.58%	121.18%	121.68%	122.04%	121.73%	122.07%	122.05%	122.05%	122.06%	122.06
PVCC for Service Lines	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	1229
PVCC for Exclusive Use Facilities (Meters)															121%	121%	121%	121%	1219
Weighted Replacement Factor for Meter & House Reg	1.87%	1.64%	1.76%	0.72%	1.96%	1.92%	2.06%	1.80%	1.95%	2.09%	2.75%	1.74%	0.27%	1.52%	0.25%	0.16%	0.24%	0.18%	0.18
Replacement Factor for Service Lines	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Replacement Factor for Exclusive Use Facilities															4.00%	4.00%	4.00%	4.00%	4.009
Meter & House Rea Benjacement	\$9.41	\$6.91	\$36.31	\$207.49	\$9.98	\$17.07	\$29.99	\$52.39	\$197.11	\$312.18	\$45.40	\$111.80	\$298.00	\$61.92	\$421.77	\$583.46	\$436.92	\$225.49	\$1,989.
Meter & House Reg, Replacement																			
Service Lines, Replacement	\$66.85	\$66.85	\$196.84	\$1,522.05	\$69.60	\$141.62	\$142.71	\$202.28	\$1,097.08	\$9,368.41	\$180.05	\$1,042.24	\$1,610.32	\$3,582.15	\$5,776.48	\$16,050.18	\$6,139.31	\$2,734.91	\$6,219.
Exclusive Use Facilities, Replace															\$1,227.66	\$4,727.41	\$1,351.26	\$0.00	\$15,460
Replacement Adder \$/Customer	\$76.26	\$73.76	\$233.14	\$1,729.54	\$79.57	\$158.69	\$172.70	\$254.68	\$1,294.19	\$9,680.60	\$225.45	\$1,154.04	\$1,908.32	\$3,644.06	\$7,425.91	\$21,361.05	\$7,927.48	\$2,960.40	\$23,669
NCO w/o Repl Cost \$/Cust/vr	\$159.95	\$151.21	\$208.68	\$475.87	\$159.43	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$831.15	\$1.491.30	\$49.526.62	\$5.566.15	\$8.169.00	\$7.245.88	\$25.685.22	\$20.577.22	\$68,605
	\$236.20	\$224.97	\$208.68	\$2,205,41	\$139.43	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		\$2,645.34		\$9,210,21	\$15.594.91	\$28,606,92		\$20,577.22	
NCO w/ Repl Cost: \$/Cust/yr.	j \$236.20	\$424.9 <i>1</i>	\$441.8Z	\$4,4U5.4T	\$233.UT	#DIV/U!	#DIV/U!	#1/17/0!	#DIV/U!	#617/0!	⊅1,∪ 00.0U	1 34,045.34	₽01,434.94	\$ 3 ,210.21	J \$10,594.91	\$20,0U6.9Z	\$33,612./T	\$43,537.6Z	\$92,274.4

Marginal Unit Costs								-
\$10		Noncore Wholesa	e				Total O&M Cost	
510	EOR	Wholesale				International	for All	
						_		
	G-40	LB	SDG&E	SWG	Vernon	Ecogas	Customers	
Total Rental Capital (\$000) before RECC	\$21,865	\$10,265	\$26,385	\$5,359	\$5,126	\$754		\$14,551,691
NCO Method: 2021 Number of Customers	30	1	1	1	1	1	5,889,515	cust 2
New Hookups Rate	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3,009,313	Cust 2
No of New Customer Hookups /year	0	0.0070	0	0	0	0	34,725	
Marginal Investment: \$/Customer								
Meter & House Reg	\$403,478.53	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5
Service Lines	\$274,177.59	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5
Exclusive Use Facilities	\$51,163.67		\$26,384,543.35		\$5,126,021.11	\$754,437.82		cust 6, cust 7
Total Marginal Investment \$/customer	\$728,819.80	\$10,265,059.48	\$26,384,543.35	\$5,359,168.35	\$5,126,021.11	\$754,437.82		
Weighted PVRR for Meter & House Reg	122.07%							cust 10
PVCC for Service Lines	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%		2013 RECC
PVRR:								
Meter & House Reg \$/customer	\$492,538.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
Service Lines \$/customer	\$334,745.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
PVRR of Hookup Cost \$/customer Total PVRR of Hookup Cost for Class \$'s	\$827,283.67 \$0	\$0.00 \$0	\$0.00 \$0	\$0.00 \$0	\$0.00 \$0	\$0.00 \$0		
PVRR of Hookup Cost \$/customer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		1
			•		•			1
O&M Cost w/Loaders \$/Cust.								
Total Direct O&M	\$12,388.01	\$89.841.51	\$84.342.79	\$111.339.41	\$64.976.87	\$36,936.80		
Total O&M Loaders \$/customer/yr	\$21,620.27	\$156,796.56	\$147,199.88	\$194,315.92	\$113,401.36	\$64,464.22		
LRMC NCO Customer Cost \$/customer/year	\$34,008.28	\$246,638.07	\$231,542.67	\$305,655.33	\$178,378.22	\$101,401.03		
Etano noo oustanar oost graatamen jaar	\$04,000.20	\$240,000.07	\$201,042.07	\$000,000.00	\$170,070.EE	\$101,401.00	1	1
NCO w/ Replacement Cost Adder								
Marginal Investment: Meter & House Reg \$/Customer	\$403,478.53	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5
Service Lines Replacement Cost	\$266,167.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5
Exclusive Use Facilities	\$51,163.67	\$10,265,059.48	\$26,384,543.35	\$5,359,168.35	\$5,126,021.11	\$754,437.82		cust 6, cust 7
Total	\$728,819.80	\$10,265,059.48	\$26,384,543.35	\$5,359,168.35	\$5,126,021.11	\$754,437.82		
Weighted PVRR for Meter & House Reg	122.07%							cust 10
PVCC for Service Lines	122%						П	2013 RECC
PVCC for Exclusive Use Facilities (Meters)	121%	121%	121%	121%	121%	121%		201311200
Weighted Replacement Factor for Meter & House Reg	0.14%							cust 10
Replacement Factor for Service Lines	1.5%							
Replacement Factor for Exclusive Use Facilities	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%		cust 10
Meter & House Reg, Replacement	\$693.22							1
Service Lines, Replacement	\$4.850.23							1
Exclusive Use Facilities, Replace	\$2,466.76	\$494,911.34	\$1,272,083.20	\$258,382.64	\$247,141.87	\$36,373.86		1
Replacement Adder \$/Customer	\$8,010.22	\$494,911.34	\$1,272,083.20	\$258,382.64	\$247,141.87	\$36,373.86		1
								1
NCO w/o Repl Cost \$/Cust/yr NCO w/ Repl Cost: \$/Cust/yr.	\$34,008.28 \$42,018.50	\$246,638.07 \$741,549.41	\$231,542.67 \$1,503,625.87	\$305,655.33 \$564,037.98	\$178,378.22 \$425,520.09	\$101,401.03 \$137,774.89	Н	1
noo w/ nepi cost. a/cusuyi.	\$44,018.5U	<i>₹1</i> 41,343.41	\$1,000,020.87	4004,U31.98	φ420,020.09	φ131,114.89	<u> </u>	4

S10

							Core							
			Residential							Non-Reside	ential			
	Single	Multi	Master	r Meter	Residential			G-10)			Gas Air	Natrual Gas	Gas
	Family	Family	Small	Large	Total	Very Small	Small	Medium	Large	Very Large	Total	Conditioning	Vehicle	Engine
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718

S10

						Noncor	е						
						Non-Resid	ential						Total
		G-30		Small	Large	EOR		Whol	esale		Internat	tional	Over All
	Distribution	Transmission	Total	EG	EĞ	G-40	LB	SDG&E	SWG	Vernon	Mexacali	Rosarito	Customers
2021 Number of Customers	519	19	538	351	21	30	1	1	1	1	1	0	5,889,515

S10

1) Residential Segmentation

1a) Segmentation of Residential Total Customer Counts into Bands

	Residential										
	Single	Multi	Master	Meter							
	Family	Family	Small	Large	Total						
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763						
Percent of Total	67%	31%	2%	0%	100%						

values from 'Number of Customers', cust 2 tab

1b) Segmentation of Residential Meter, Regulator & MSA Investment Costs into Bands

			Residential		
	Single	Multi	Master	Meter	
	Family	Family	Small	Large	Total
Per Cust. Meter, Reg. & MSA Investment	\$413.14	\$346.30	\$1,700.46	\$23,516.62	
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763
Total Meter, Reg. & MSA Investment	\$1,566,850,377	\$613,780,639	\$203,625,566	\$1,199,347	\$2,385,455,930
Percent of Total Meter, Reg. & MSA Investment	66%	26%	9%	0%	100%

note: used to segment Meters, Regulators & MSAs O&M Costs values from 'Investment Meters, REGs', cust 5 tab

2) G10 Segmentation 2a) Segmentation of G-10 Total Customer Counts into Bands

			G-1	10		
	Very Small	Small	Medium	Large	Very Large	Total
2021 Number of Customers	88,897	64,539	47,008	2,078	313	202,835
Percent of Total	44%	32%	23%	1%	0%	100%

values from 'Number of Customers', cust 2 tab

2b) Segmentation of G-10 Meter, Regulator & MSA Investment Costs into Bands

			G-′	10		
	Very Small	Small	Medium	Large	Very Large	Total
Per Cust. Meter, Reg & MSA Investment	\$733.12	\$1,201.06	\$2,399.08	\$8,319.97	\$12,280.87	
2021 Number of Customers	88,897	64,539	47,008	2,078	313	202,835
Total Meter, Reg & MSA Investment	\$65,171,860	\$77,515,229	\$112,776,112	\$17,288,887	\$3,843,911	\$276,595,999
Percent of Total Meter, Reg & MSA Investment	24%	28%	41%	6%	1%	100%

note: used to segment Meters, Regulators & MSAs O&M Costs values from 'Investment Meters, REGs', cust 5 tab

3) G 30 Segmentation 3a) Segmentation of G-30 total customer counts by Service Level

		G-30	
	Distribution	Transmission	Total
2021 Number of Customers	519	19	538
Percent of Total	96%	4%	100%

values from 'cust 2' tab

3b) Allocation of G-30 Total Big GEMS Costs by Service Level

			G-30	
		Distribution	Transmission	Total
Meter/Reg Investment Cost Per Customer	2013 \$s	\$139,681.17	\$300,234.61	
2021 Number of Customers		519	19	538
Total Cost	2013 \$s	\$72,494,529	\$5,704,458	\$78,198,987
Percent of Total Cost		93%	7%	100%

note: used to segment Meters, Regulators & MSAs O&M Costs values from 'Investment Meters, REGs', cust 5 tab

SCG 2024 TCAP LRMC Customer Cost Average Per Customer Investment in Meters & Regulators by Customer Class

S10

310															
									Core						
				Residentia							Non-Residential				
		Single	Multi	Maste	r Meter	Residential			G	-10			Gas Air	Natrual Gas	Gas
Investment Per Cus	stomer:	Family	,	Small	Large	Average	Very Small	Small	Medium	Large	Very Large	Average	Conditioning	Vehicle	Engine
Meter, Reg.	2021 \$s	\$395.24	\$331.30	\$1,626.80	\$22,497.92	\$401.45	\$701.36	\$1,149.03	\$2,295.16	\$7,959.56	\$11,748.88	\$1,304.58	\$5,062.59	\$86,284.77	\$3,202.79
Meter, Reg.	2024 \$s	\$413.14	\$346.30	\$1,700.46	\$23,516.62	\$419.62	\$733.12	\$1,201.06	\$2,399.08	\$8,319.97	\$12,280.87	\$1,363.65	\$5,291.82	\$90,191.70	\$3,347.81
Total		\$413.14	\$346.30	\$1,700.46	\$23,516.62	\$419.62	\$733.12	\$1,201.06	\$2,399.08	\$8,319.97	\$12,280.87	\$1,363.65	\$5,291.82	\$90,191.70	\$3,347.81

For Res and Non-Residential G10 customers we multiply 5 yr average meter size and pressure type combination for new customers per class times unit cost for each associated combination. For other classes we multiply average meter size and pressure type combination for all customers per class times unit cost for each associated combination.

Average Per Customer Investment in Service Lines by Customer Class

									Core						
				Residential					Core		Non-Residential				
		Single	Multi		r Meter	Residential			G-	-10			Gas Air	Natrual Gas	Gas
Investment Per Customer: Family Family Small Large Average Very Small Small Medium Large Very Large								Average	Conditioning	Vehicle	Engine				
Service Lines	2021 \$s	\$1,219.76	\$1,283.70	\$11,219.91	\$89,825.59	\$1,451.14	\$8,029.66	\$8,271.91	\$12,200.66	\$49,653.90	\$677,478.66	\$10,532.87	\$75,659.61	\$84,279.82	\$196,431.21
Service Lines	2024 \$s	1,274.99	1,341.83	11,727.95	93,892.86	1,516.85	8,393.24	8,646.46	12,753.10	51,902.21	708,154.59	11,009.79	79,085.45	88,095.97	205,325.53
Total		1,274.99	1.341.83	11,727.95	93,892.86	1,516.85	8,393.24	8,646.46	12,753.10	51,902.21	708,154.59	11,009.79	79,085.45	88,095.97	205,325.53
i Otai		1,274.99	1,341.03	11,727.90	93,092.00	1,510.05	0,393.24	0,040.40	12,755.10	31,902.21	700,104.09	11,009.79	79,065.45	00,093.97	200,320.00

formerly tabs: 'Investment Meter, Reg' and 'Investment Service Lines'
For residential and non-residential G10 customers we multiply Ken's 5 yr average footage, pipe type, pipe size configuration per class times Distribution Managers' cost per foot each associated configuration.
For other classes we multiply average footage, pipe type and pipe size combination for all customers per class times unit cost for each associated combination.

Service Lines Replacement Costs

Service Lines Repli	acement costs														
									Core						
				Residential							Non-Residential				
	Master	Meter	Residential			G-	-10			Gas Air	Natrual Gas	Gas			
Investment Per Cus	stomer:	Family	Family	Small	Large	Average	Very Small	Small	Medium	Large	Very Large	Average	Conditioning	Vehicle	Engine
Service Lines Replace	ceme 2021 \$s	3,509.54	3,509.54	10,333.89	79,907.52	3,653.98	7,434.85	7,492.30	10,619.88	57,596.84	491,842.14	9,452.68	54,717.70	84,541.76	188,062.95
Service Lines	2024 \$s	3,668.45	3,668.45	10,801.80	83,525.70	3,819.43	7,771.50	7,831.55	11,100.74	60,204.80	514,112.53	9,880.69	57,195.30	88,369.78	196,578.35
Total		3,668.45	3,668.45	10,801.80	83,525.70	3,819.43	7,771.50	7,831.55	11,100.74	60,204.80	514,112.53	9,880.69	57,195.30	88,369.78	196,578.35

SCG 2024 TCAP LRMC Customer Cost Average Per Customer Investment in

S10

510														
							Noncore							
							Non-Residenti	ial						Total
					<3 Million									1 1
			G-30		SM. COGEN	>3 Million EG	EOR		Wh	olesale		Interna	tional	Over All
Investment Per C	ustomer:	Distribution	Transmission	Average	G-50	G-50	G-40	LB	SDG&E	SWG	Vernon	DGN	Rosarito	Customers
Meter, Reg.	2021 \$s	\$133,630.45	\$287,229.01	\$142,148.91	\$99,358.68	\$876,661.03	\$386,000.59	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Meter, Reg.	2024 \$s	\$139,681.17	\$300,234.61	\$148,585.35	\$103,857.60	\$916,355.85	\$403,478.53	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Total		\$139,681.17	\$300,234.61	\$148,585.35	\$103,857.60	\$916,355.85	\$403,478.53	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

For Res and Non-Residential G10 custo For other classes we multiply average n

Average Per Customer Investment in Service Lines by Customer Class

							Noncore							
							Non-Resident	al						Total
			G-30		SM. COGEN	EG	EOR		Wh	olesale		Interna	ational	Over All
Investment Per Cu	istomer:	Distribution	Transmission	Average	G-50	G-50	G-40	LB	SDG&E	SWG	Vernon	DGN	Rosarito	Customers
Service Lines	2021 \$s	\$366,730.07	\$1,116,106.66	\$393,195.04	\$182,041.71	\$445,906.52	\$262,300.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Service Lines	2024 \$s	383,335.44	1,166,643.48	410,998.74	190,284.47	466,096.97	274,177.59	0.00	0.00	0.00	0.00	0.00	0.00	
Total		383,335.44	1,166,643.48	410,998.74	190,284.47	466,096.97	274,177.59	0.00	0.00	0.00	0.00	0.00	0.00	1 1

formerly tabs: 'Investment Meter, Reg' & For residential and non-residential G10 For other classes we multiply average for

Service Lines Replacement Costs

Service Lines iver	nacement costs													
							Noncore							
							Non-Residenti	al						Total
			G-30		SM. COGEN	EG	EOR		Wh	olesale		Intern	ational	Over All
Investment Per Cu	ustomer:	Distribution	Transmission	Average	G-50	G-50	G-40	LB	SDG&E	SWG	Vernon	DGN	Rosarito	Customers
Service Lines Repla	aceme 2021 \$s	303,265.54	842,635.30	322,313.92	143,583.09	326,538.45	254,637.19	0.00	0.00	0.00	0.00	0.00	0.00	
Service Lines	2024 \$s	316,997.27	880,789.46	336,908.15	150,084.47	341,323.97	266,167.05	0.00	0.00	0.00	0.00	0.00	0.00	
Total		316,997.27	880,789.46	336,908.15	150,084.47	341,323.97	266,167.05	0.00	0.00	0.00	0.00	0.00	0.00	í I

				avg labor and				
		Meter	Above	nonlabor				
Code	Element	Size	Std	\$/meter	avg \$/meter	avg \$/regulator	Total	
S10	SGL	1	0	\$247	\$119	\$29	\$395	
M10	MULT	1	0	\$205	\$119	\$7	\$331	
30	AG	3	0	\$259	\$202	\$29	\$491	
	CMB	3		\$468	\$203	\$165	\$835	
31	LBS	3	1	\$271	\$203	\$320	\$794	
S40	SZ	4	0	\$155	\$615	\$263	\$1,032	
S50	SZ	5	0	\$155	\$615	\$263	\$1,032	
	CMB	4		\$292	\$712	\$286	\$1,290	
	CMB	5		\$292	\$712	\$286	\$1,290	
41	@LBS	4	1	\$1,652	\$573	\$494	\$2,720	
51	@LBS	5	1	\$1,652	\$573	\$494	\$2,720	
S60	STD	6	0	\$1,461	\$536	\$263	\$2,260	
S70	STD	7	0	\$1,461	\$536	\$263	\$2,260	
61	LBS	6	1	\$2,039	\$536	\$320	\$2,895	
71	LBS	7	1	\$2,039	\$536	\$320	\$2,895	
S80	STD	8	0	\$1,461	\$655	\$311	\$2,427	
S90	STD	9	0	\$1,461	\$655	\$311	\$2,427	
81	LBS	8	1	\$2,039	\$655	\$710	\$3,403	
91	LBS	9	1	\$2,039	\$655	\$710	\$3,403	
99	TURBINE METERS	10		\$739,804	\$20,289	\$3,986	\$764,079	
100	ROTARY METERS	10		\$5,451	\$4,433	\$3,300	\$13,184	
110	ULTRASONIC METERS	12		\$2,506,778	\$88,986	\$0	\$2,595,764	

		Meter	Above	Number of customers	avg labor							Average Meter & Regulator CAPEX/
Code	Rate	Size (1)	Std (2)	(3)	\$/meter		avg \$/regulator	tot lab	tot met	4-4	tot cost	Customer
S10	SF SF	Size (1)	0	42.231	\$/meter \$246.69	avg \$/meter \$119.40	\$29.15	\$10,417,965	\$5,042,381	tot reg \$1,231,034	\$16,691,380	\$395.24
30	SF	3	0	66.495	\$259.47	\$202.06	\$29.15	\$17,253,458	\$13,435,980	\$1,938,329	\$32,627,767	\$490.68
31	SF	3	1	48	\$270.94	\$202.62	\$320.15	\$13,005	\$9,726	\$15,367	\$38,098	\$793.71
31 S40	SF SF	3	0		\$270.94 \$154.88	\$202.62 \$614.58	\$262.99	\$13,005	\$9,726 \$4,263,956			\$1,032.45
	SF SF	4	Ü	6,938						\$1,824,625	\$7,163,138	
41		4	1	61	\$1,651.88	\$573.21	\$494.47	\$100,765	\$34,966	\$30,163	\$165,893	\$2,719.56
S50	SF	5	0	600	\$154.88	\$614.58	\$262.99	\$92,928	\$368,748	\$157,794	\$619,470	\$1,032.45
S60	SF	6	0	556	\$1,461.01	\$536.15	\$262.99	\$812,322	\$298,099	\$146,222	\$1,256,643	\$2,260.15
61	SF	6	1	13	\$2,038.84	\$536.15	\$320.15	\$26,505	\$6,970	\$4,162	\$37,637	\$2,895.14
S70	SF	7	0	2	\$1,461.01	\$536.15	\$262.99	\$2,922	\$1,072	\$526	\$4,520	\$2,260.15
S80	SF	8	0	167	\$1,461.01	\$654.94	\$310.83	\$243,989	\$109,375	\$51,909	\$405,272	\$2,426.78
81	SF	8	1	16	\$2,038.84	\$654.94	\$709.64	\$32,621	\$10,479	\$11,354	\$54,455	\$3,403.42
S90	SF	9	0	3	\$1,461.01	\$654.94	\$310.83	\$4,383	\$1,965	\$932	\$7,280	\$2,426.78
91	SF	9	1	9	\$2,038.84	\$654.94	\$709.64	\$18,350	\$5,894	\$6,387	\$30,631	\$3,403.42
100	SF	10	1	2	\$5,451.00	\$4,433.19	\$3,300.00	\$10,902	\$8,866	\$6,600	\$26,368	\$13,184.19
	tot SF			117,141				\$30,104,671	\$23,598,478	\$5,425,404	\$59,128,553	\$395.24
M10	MF	1	0	43.992	\$204.52	\$119.49	\$7.29	\$8,997,244	\$5,256,604	\$320,702	\$14,574,550	\$331.30
30	MF	3	0	13,530	\$259.47	\$202.06	\$29.15	\$3,510,629	\$2,733,872	\$394,400	\$6,638,900	\$490.68
31	MF	3	1	44	\$270.94	\$202.62	\$320.15	\$11,921	\$8,915	\$14,087	\$34.923	\$793.71
S40	MF	3	0	465	\$154.88	\$614.58	\$262.99	\$72,019	\$285,780	\$122,290	\$480,089	\$1,032.45
340 360	MF	6	0	17	\$1.461.01	\$536.15	\$262.99	\$24,837	\$9,115	\$4,471	\$38,423	\$1,032.45
	MF	•	0	1/				\$24,837 \$2,039				
61 81	MF	6 8	1	7	\$2,038.84	\$536.15	\$320.15	\$2,039 \$14,272	\$536	\$320	\$2,895 \$23.824	\$2,895.14
	tot MF	8		58,056	\$2,038.84	\$654.94	\$709.64	\$14,272 \$12,632,961	\$4,585 \$8,299,406	\$4,967 \$861,237	\$23,824	\$3,403.42 \$331.30
	tot ivii			50,050				ψ12,002,001	ψ0,233,400	ψ001,201	ΨΣ1,730,004	4001.00
M10	MM Band 1	1	0	553	\$204.52	\$119.49	\$7.29	\$113,100	\$66.078	\$4.031	\$183,209	\$331.30
30	MM Band 1	3	0	257	\$259.47	\$202.06	\$29.15	\$66,684	\$51,929	\$7,492	\$126,105	\$490.68
31	MM Band 1	3	1	11	\$270.94	\$202.62	\$320.15	\$2,980	\$2,229	\$3,522	\$8,731	\$793.71
S40	MM Band 1	4	Ó	261	\$154.88	\$614.58	\$262.99	\$40,424	\$160,405	\$68,640	\$269,469	\$1,032.45
41	MM Band 1	4	1	53	\$1.651.88	\$573.21	\$494.47	\$87,550	\$30,380	\$26,207	\$144,137	\$2,719.56
S50	MM Band 1	5	'n	56	\$154.88	\$614.58	\$262.99	\$8.673	\$34,416	\$14,727	\$57.817	\$1.032.45
S60	MM Band 1	6	ñ	121	\$1,461.01	\$536.15	\$262.99	\$176,782	\$64,874	\$31,822	\$273,478	\$2,260.15
300 31	MM Band 1	6	1	61	\$2,038.84	\$536.15	\$320.15	\$124,369	\$32,705	\$19,529	\$176,604	\$2,895.14
S70	MM Band 1	7	'n	1	\$1,461.01	\$536.15	\$262.99	\$1,461	\$536	\$263	\$2,260	\$2,260.15
S80	MM Band 1	΄ ΄	n	81	\$1,461.01	\$654.94	\$310.83	\$118,342	\$53,050	\$25,177	\$196.569	\$2,426.78
300 31	MM Band 1	8	1	142	\$2,038.84	\$654.94	\$709.64	\$289,515	\$93,001	\$100,769	\$483,286	\$3,403.42
S90	MM Band 1	9	'n	11	\$1,461.01	\$654.94	\$310.83	\$16,071	\$7,204	\$3,419	\$26,695	\$2,426.78
390 91	MM Band 1	9	0	83	\$2,038.84	\$654.94	\$709.64	\$169,224	\$7,204 \$54,360	\$58,900	\$282,484	\$3,403.42
100		10		45	\$5,451.00	\$4,433.19	\$3,300.00	\$245,295	\$199,494		\$593,289	
	MM Band 1 tot MM 1	10	1	1,736	\$5,451.00	\$4,433.19	\$3,300.00	\$245,295	\$850,663	\$148,500 \$512,999	\$2,824,132	\$13,184.19 \$1,626.80
61	MM Band 2	6	1	3	\$2,038.84	\$536.15	\$320.15	\$6,117	\$1,608	\$960	\$8,685	\$2,895.14
71	MM Band 2	7	1	1	\$2,038.84	\$536.15	\$320.15	\$2,039	\$536	\$320	\$2,895	\$2,895.14
81	MM Band 2	8	1	6	\$2,038.84	\$654.94	\$709.64	\$12,233	\$3,930	\$4,258	\$20,421	\$3,403.42
91	MM Band 2	9	1	18	\$2,038.84	\$654.94	\$709.64	\$36,699	\$11,789	\$12,774	\$61,262	\$3,403.42
99	MM Band 2	10	1	1	\$739,804.00	\$20,289.00	\$3,986.00	\$739,804	\$20,289	\$3,986	\$764,079	\$764,079.00
100	MM Band 2	10	1	22	\$5,451.00	\$4,433.19	\$3,300.00	\$119,922	\$97,530	\$72,600	\$290,052	\$13,184.19
	tot MM 2			51		. ,	,	\$916,814	\$135,682	\$94,898	\$1,147,394	\$22,497.92

		Meter	Above	Number of customers	avg labor							Average Meter & Regulator CAPEX/
Code	Rate	Size (1)	Std (2)	(3)	\$/meter	avg \$/meter	avg \$/regulator	tot lab	tot met	tot reg	tot cost	Customer
S10	G10 Band 1	1	0	1,355	\$246.69	\$119.40	\$29.15	\$334,265	\$161,787	\$39,498	\$535,550	\$395.24
30	G10 Band 1	3	0	456	\$259.47	\$202.06	\$29.15	\$118,318	\$92,139	\$13,292	\$223,750	\$490.68
31	G10 Band 1	3	1	17	\$270.94	\$202.62	\$320.15	\$4,606	\$3,445	\$5,443	\$13,493	\$793.71
S40	G10 Band 1	4	0	285	\$154.88	\$614.58	\$262.99	\$44,141	\$175,155	\$74,952	\$294,248	\$1,032.45
41	G10 Band 1	4	1	31	\$1,651.88	\$573.21	\$494.47	\$51,208	\$17,770	\$15,329	\$84,306	\$2,719.56
S50	G10 Band 1	5	0	93	\$154.88	\$614.58	\$262.99	\$14,404	\$57,156	\$24,458	\$96,018	\$1,032.45
51	G10 Band 1	5	1	9	\$1,651.88	\$573.21	\$494.47	\$14,867	\$5,159	\$4,450	\$24,476	\$2,719.56
S60	G10 Band 1	6	0	47	\$1,461.01	\$536.15	\$262.99	\$68,667	\$25,199	\$12,361	\$106,227	\$2,260.15
S70	G10 Band 1	7	0	1	\$1,461.01	\$536.15	\$262.99	\$1,461	\$536	\$263	\$2,260	\$2,260.15
S80	G10 Band 1	8	0	25	\$1,461.01	\$654.94	\$310.83	\$36,525	\$16,374	\$7,771	\$60,670	\$2,426.78
81	G10 Band 1	8	0	31	\$2,038.84	\$654.94	\$709.64	\$63,204	\$20,303	\$21,999	\$105,506	\$3,403.42
S90	G10 Band 1	•	•	3	\$1,461.01	\$654.94	\$310.83	\$4,383	\$1,965	\$932	\$7,280	\$2,426.78
91	G10 Band 1	9	1	8	\$2,038.84	\$654.94	\$709.64	\$16,311	\$5,240	\$5,677	\$27,227	\$3,403.42
100	G10 Band 1 tot Band 1	10	11	6 2.367	\$5,451.00	\$4,433.19	\$3,300.00	\$32,706 \$805,067	\$26,599 \$608,826	\$19,800 \$246,225	\$79,105 \$1,660,117	\$13,184.19 \$701.36
	lui banu i			2,307				\$000,007	Φ000,020	φ240,220	\$1,000,117	\$701.36
S10	G10 Band 2	1	0	420	\$246.69	\$119.40	\$29.15	\$103,610	\$50,148	\$12,243	\$166,001	\$395.24
30	G10 Band 2	3	0	428	\$259.47	\$202.06	\$29.15	\$111,053	\$86,482	\$12,476	\$210,011	\$490.68
31	G10 Band 2	3	1	29	\$270.94	\$202.62	\$320.15	\$7,857	\$5,876	\$9,284	\$23,018	\$793.71
S40	G10 Band 2	4	0	589	\$154.88	\$614.58	\$262.99	\$91,224	\$361,988	\$154,901	\$608,113	\$1,032.45
41	G10 Band 2	4	1	56	\$1,651.88	\$573.21	\$494.47	\$92,505	\$32,100	\$27,690	\$152,295	\$2,719.56
S50	G10 Band 2	5	0	215	\$154.88	\$614.58	\$262.99	\$33,299	\$132,135	\$56,543	\$221,977	\$1,032.45
51	G10 Band 2	5	1	3	\$1,651.88	\$573.21	\$494.47	\$4,956	\$1,720	\$1,483	\$8,159	\$2,719.56
S60	G10 Band 2	6	0	157	\$1,461.01	\$536.15	\$262.99	\$229,379	\$84,176	\$41,289	\$354,844	\$2,260.15
61	G10 Band 2	6	1	43	\$2,038.84	\$536.15	\$320.15	\$87,670	\$23,054	\$13,766	\$124,491	\$2,895.14
S70	G10 Band 2	7	0	1	\$1,461.01	\$536.15	\$262.99	\$1,461	\$536	\$263	\$2,260	\$2,260.15
71	G10 Band 2	7	1	1	\$2,038.84	\$536.15	\$320.15	\$2,039	\$536	\$320	\$2,895	\$2,895.14
S80	G10 Band 2	8	0	65	\$1,461.01	\$654.94	\$310.83	\$94,966	\$42,571	\$20,204	\$157,741	\$2,426.78
81	G10 Band 2	8	1	55	\$2,038.84	\$654.94	\$709.64	\$112,136	\$36,022	\$39,030	\$187,188	\$3,403.42
S90	G10 Band 2	9	0	7	\$1,461.01	\$654.94	\$310.83	\$10,227	\$4,585	\$2,176	\$16,987	\$2,426.78
91	G10 Band 2	9	1	20	\$2,038.84	\$654.94	\$709.64	\$40,777	\$13,099	\$14,193	\$68,068	\$3,403.42
100	G10 Band 2	10	11	88	\$5,451.00	\$4,433.19	\$3,300.00	\$43,608	\$35,466	\$26,400	\$105,474	\$13,184.19
	tot Band 2			2,097				\$1,066,767	\$910,491	\$432,263	\$2,409,521	\$1,149.03
S10	G10 Band 3	1	0	12	\$246.69	\$119.40	\$29.15	\$2,960	\$1,433	\$350	\$4,743	\$395.24
30	G10 Band 3	3	0	103	\$259.47	\$202.06	\$29.15	\$26.725	\$20,812	\$3.002	\$50.540	\$490.68
31	G10 Band 3	3	1	18	\$270.94	\$202.62	\$320.15	\$4,877	\$3,647	\$5,763	\$14,287	\$793.71
S40	G10 Band 3	4	Ô	472	\$154.88	\$614.58	\$262.99	\$73,103	\$290,082	\$124,131	\$487,316	\$1,032.45
41	G10 Band 3	4	1	78	\$1,651.88	\$573.21	\$494.47	\$128,847	\$44,710	\$38,569	\$212,126	\$2,719.56
S50	G10 Band 3	5	0	295	\$154.88	\$614.58	\$262.99	\$45,690	\$181,301	\$77,582	\$304,573	\$1,032.45
51	G10 Band 3	5	1	4	\$1,651.88	\$573.21	\$494.47	\$6,608	\$2,293	\$1,978	\$10,878	\$2,719.56
S60	G10 Band 3	6	0	419	\$1,461,01	\$536.15	\$262.99	\$612.163	\$224.647	\$110,193	\$947,003	\$2,260,15
61	G10 Band 3	6	1	83	\$2,038.84	\$536.15	\$320.15	\$169,224	\$44,500	\$26,572	\$240,297	\$2,895.14
71	G10 Band 3	7	1	1	\$2,038.84	\$536.15	\$320.15	\$2,039	\$536	\$320	\$2,895	\$2,895.14
S80	G10 Band 3	8	0	200	\$1,461.01	\$654.94	\$310.83	\$292,202	\$130,988	\$62,166	\$485,356	\$2,426.78
81	G10 Band 3	8	1	215	\$2,038.84	\$654.94	\$709.64	\$438,351	\$140,812	\$152,573	\$731,735	\$3,403.42
S90	G10 Band 3	9	0	34	\$1,461.01	\$654.94	\$310.83	\$49,674	\$22,268	\$10,568	\$82,511	\$2,426.78
91	G10 Band 3	9	1	112	\$2,038.84	\$654.94	\$709.64	\$228,350	\$73,353	\$79,480	\$381,183	\$3,403.42
100	G10 Band 3	10	1	68	\$5,451.00	\$4,433.19	\$3,300.00	\$370,668	\$301,457	\$224,400	\$896,525	\$13,184.19
	tot Band 3			2,114				\$2,451,481	\$1,482,840	\$917,647	\$4,851,967	\$2,295.16
24	C10 Pand 4	•	1	1	¢270.04	¢202 62	¢220.4E	¢074	¢202	6220	6704	£702.74
31	G10 Band 4	3 6	1	1	\$270.94	\$202.62	\$320.15	\$271	\$203	\$320	\$794	\$793.71
61 S80	G10 Band 4 G10 Band 4	8	0	3 1	\$2,038.84 \$1,461.01	\$536.15 \$654.94	\$320.15 \$310.83	\$6,117 \$1,461	\$1,608 \$655	\$960 \$311	\$8,685	\$2,895.14 \$2,426.78
81	G10 Band 4 G10 Band 4	8 8	1	23	\$1,461.01 \$2,038.84	\$654.94 \$654.94	\$310.83 \$709.64	\$1,461 \$46,893	\$655 \$15,064	\$311 \$16,322	\$2,427 \$78,279	\$2,426.78 \$3,403.42
S90	G10 Band 4 G10 Band 4	9	0	23 1	\$2,038.84 \$1,461.01	\$654.94 \$654.94	\$310.83	\$46,893 \$1,461	\$15,064 \$655	\$10,322	\$78,279 \$2,427	\$3,403.42 \$2,426.78
91	G10 Band 4 G10 Band 4	9	1	1 27	\$1,461.01 \$2,038.84	\$654.94 \$654.94	\$310.83 \$709.64	\$1,461 \$55,049	\$655 \$17,683	\$311 \$19,160		\$2,426.78 \$3,403.42
100	G10 Band 4 G10 Band 4	10	0	3	\$2,038.84 \$5,451.00	\$4,433.19	\$3,300.00	\$16,353	\$17,683	\$9,900	\$91,892 \$39,553	\$3,403.42 \$13,184.19
100	G10 Band 4 G10 Band 4	10	1	3 47	\$5,451.00 \$5.451.00	\$4,433.19 \$4.433.19	\$3,300.00	\$16,353 \$256.197	\$13,300	\$9,900 \$155.100	\$39,553 \$619.657	\$13,184.19 \$13,184.19
100	tot Band 4	10		106	φυ,4υ1.00	ф 4,433. 19	φο,ουυ.υυ	\$383,801	\$208,360	\$202,384	\$843,713	\$7,959.56
	tot Dana 4			100				ψοσο,σο τ	Ψ201,020	Ψ202,004	ψ0+0,7 10	ψ1,000.00
81	G10 Band 5	8	1	1	\$2,038.84	\$654.94	\$709.64	\$2,039	\$655	\$710	\$3,403	\$3,403.42

	Meter	Above	Number of customers	avg labor							Average Meter & Regulator CAPEX/
Rate	Size (1)	Std (2)	(3)	\$/meter	avg \$/meter	avg \$/regulator	tot lab	tot met	tot reg	tot cost	Customer
G10 Band 5	9	1	1	\$2,038.84	\$654.94	\$709.64	\$2,039	\$655	\$710	\$3,403	\$3,403.42
G10 Band 5	10	1	14 16	\$5,451.00	\$4,433.19	\$3,300.00	\$76,314 \$78,353	\$62,065 \$62,720	\$46,200 \$46,910	\$184,579	\$13,184.19 \$11,748.88
tot Band 5			10				\$78,333	\$02,720	\$40,910	\$187,982	\$11,748.88
GAC	6	1	1	\$2,038.84	\$536.15	\$320.15	\$2,039	\$536	\$320	\$2,895	\$2,895.14
GAC	8	Ö	1	\$1,461.01	\$654.94	\$310.83	\$1,461	\$655	\$311	\$2,427	\$2,426,78
GAC	8	1	2	\$2,038.84	\$654.94	\$709.64	\$4,078	\$1,310	\$1,419	\$6,807	\$3,403.42
GAC	10	1	1	\$5,451.00	\$4,433.19	\$3,300.00	\$5,451	\$4,433	\$3,300	\$13,184	\$13,184.19
tot GAC			5				\$13,029	\$6,934	\$5,350	\$25,313	\$5,062.59
NOV	1	_		****	0440.40	200.45	00.744	04.040	0004	21.010	****
NGV NGV	3	0	11 2	\$246.69 \$259.47	\$119.40 \$202.06	\$29.15 \$29.15	\$2,714 \$519	\$1,313 \$404	\$321 \$58	\$4,348 \$981	\$395.24 \$490.68
NGV	3	1	8	\$270.94	\$202.60	\$320.15	\$2,168	\$1,621	\$2,561	\$6,350	\$793.71
NGV	4	1	7	\$1,651.88	\$573.21	\$494.47	\$11,563	\$4,012	\$3,461	\$19,037	\$2,719.56
NGV	5	1	6	\$1,651.88	\$573.21	\$494.47 \$494.47	\$9,911	\$3,439	\$2,967	\$16,317	\$2,719.56
NGV	6	1	20	\$2,038.84	\$536.15	\$320.15	\$40,777	\$10,723	\$6,403	\$57,903	\$2,719.56
NGV	7	1	3		\$536.15		\$6,117				
NGV	8	1	43	\$2,038.84 \$2,038.84	\$654.94	\$320.15 \$709.64	\$87,670	\$1,608 \$28,162	\$960 \$30,515	\$8,685 \$146,347	\$2,895.14 \$3,403.42
NGV	9	1	35	\$2,038.84	\$654.94	\$709.64	\$71,359	\$20,102	\$24,837	\$119,120	\$3,403.42
NGV	10	1	30	\$739,804.00	\$20,289.00	\$3,986.00	\$22,194,120	\$608,670	\$24,637 \$119,580	\$22,922,370	\$3,403.42 \$764,079.00
NGV	10	1	124	\$5,451.00	\$4,433.19	\$3,300.00	\$675.924	\$549,716	\$409.200	\$1.634.840	\$13,184.19
tot NGV	10	<u>'</u>	289	ψ3,431.00	ψ4,433.13	φ3,300.00	\$23,102,841	\$1,232,593	\$600.864	\$24,936,298	\$86,284.77
							, ,, ,,	. , . ,	, ,	, ,,	, ,
GEN	1	0	1	\$246.69	\$119.40	\$29.15	\$247	\$119	\$29	\$395	\$395.24
GEN	3	0	7	\$259.47	\$202.06	\$29.15	\$1,816	\$1,414	\$204	\$3,435	\$490.68
GEN	3	1	6	\$270.94	\$202.62	\$320.15	\$1,626	\$1,216	\$1,921	\$4,762	\$793.71
GEN	4	0	27	\$154.88	\$614.58	\$262.99	\$4,182	\$16,594	\$7,101	\$27,876	\$1,032.45
GEN	4	1	24	\$1,651.88	\$573.21	\$494.47	\$39,645	\$13,757	\$11,867	\$65,269	\$2,719.56
GEN	5	0	15	\$154.88	\$614.58	\$262.99	\$2,323	\$9,219	\$3,945	\$15,487	\$1,032.45
GEN	5	1	9	\$1,651.88	\$573.21	\$494.47	\$14,867	\$5,159	\$4,450	\$24,476	\$2,719.56
GEN	6	0	86	\$1,461.01	\$536.15	\$262.99	\$125,647	\$46,109	\$22,617	\$194,373	\$2,260.15
GEN	6	1	107	\$2,038.84	\$536.15	\$320.15	\$218,156	\$57,368	\$34,256	\$309,780	\$2,895.14
GEN	7	0	3	\$1,461.01	\$536.15	\$262.99	\$4,383	\$1,608	\$789	\$6,780	\$2,260.15
GEN	7	1	3	\$2,038.84	\$536.15	\$320.15	\$6,117	\$1,608	\$960	\$8,685	\$2,895.14
GEN	8	0	87	\$1,461.01	\$654.94	\$310.83	\$127,108	\$56,980	\$27,042	\$211,130	\$2,426.78
GEN	8	1	163	\$2,038.84	\$654.94	\$709.64	\$332,331	\$106,755	\$115,671	\$554,757	\$3,403.42
GEN	9	0	8	\$1,461.01	\$654.94	\$310.83	\$11,688	\$5,240	\$2,487	\$19,414	\$2,426.78
GEN GEN	10	0	63	\$2,038.84 \$5,451.00	\$654.94 \$4,433.19	\$709.64 \$3,300.00	\$128,447 \$5,451	\$41,261 \$4.433	\$44,707 \$3,300	\$214,415 \$13,184	\$3,403.42 \$13.184.19
GEN	10	1	1 28	\$5,451.00 \$5,451.00	\$4,433.19 \$4,433.19	\$3,300.00	\$5,451 \$152,628	\$4,433 \$124,129	\$3,300 \$92,400	\$13,184 \$369,157	\$13,184.19 \$13,184.19
tot GEN	10		638	\$5,451.00	\$4,433.19	\$3,300.00	\$1,176,661	\$492,970	\$373,747	\$2,043,378	\$3,202.79
IOT OLIV			000				ψ1,170,001	ψ+32,310	ψ010,141	Ψ2,040,070	40,202.73
G30 Tran	7	1	1	\$2,038.84	\$536.15	\$320.15	\$2,039	\$536	\$320	\$2,895	\$2,895.14
G30 Tran	8	1	1	\$2,038.84	\$654.94	\$709.64	\$2,039	\$655	\$710	\$3,403	\$3,403.42
G30 Tran	9	1	3	\$2,038.84	\$654.94	\$709.64	\$6,117	\$1,965	\$2,129	\$10,210	\$3,403.42
G30 Tran	10	1	7	\$739,804.00	\$20,289.00	\$3,986.00	\$5,178,628	\$142,023	\$27,902	\$5,348,553	\$764,079.00
G30 Tran	10	1	7	\$5,451.00	\$4,433.19	\$3,300.00	\$38,157	\$31,032	\$23,100	\$92,289	\$13,184.19
tot G30 Tran			19				\$5,226,979	\$176,211	\$54,161	\$5,457,351	\$287,229.01
G30 Dist	5	1	4	¢1 CE1 00	¢572.04	\$494.47	\$6,608	\$2,293	¢1.079	£10.070	\$2.740.EG
G30 Dist	6	0	2	\$1,651.88 \$1,461.01	\$573.21 \$536.15	\$494.47 \$262.99	\$0,008	\$2,293 \$1,072	\$1,978 \$526	\$10,878 \$4,520	\$2,719.56 \$2,260.15
G30 Dist	6	1	7	\$1,461.01	\$536.15 \$536.15	\$202.99 \$320.15	\$2,922 \$14,272	\$3,753	\$526 \$2,241	\$4,520 \$20,266	\$2,260.15 \$2,895.14
G30 Dist	8	1	37	\$2,038.84 \$2,038.84	\$654.94	\$709.64	\$14,272 \$75,437	\$3,753 \$24,233	\$2,241 \$26,257	\$20,266 \$125,927	\$2,895.14 \$3,403.42
G30 Dist	9	0	2	\$2,038.84 \$1,461.01	\$654.94 \$654.94	\$310.83	\$75,437 \$2,922	\$24,233 \$1,310	\$26,257 \$622	\$125,927 \$4,854	\$3,403.42 \$2,426.78
G30 Dist	9	1	69	\$1,461.01	\$654.94 \$654.94	\$709.64	\$2,922 \$140,680	\$1,310 \$45,191	\$622 \$48,965	\$4,854 \$234,836	\$2,426.78 \$3,403.42
G30 Dist	10	1	85	\$2,038.84 \$739,804.00	\$20,289.00	\$3,986.00	\$62,883,340	\$1,724,565	\$48,965 \$338,810	\$234,836 \$64,946,715	\$3,403.42 \$764,079.00
		1									
G30 Dist	10	1	314	\$5,451.00	\$4,433.19	\$3,300.00	\$1,711,614	\$1,392,023	\$1,036,200	\$4,139,837	\$13,184.19

		Meter	Above	Number of customers	avg labor							Average Meter & Regulator CAPEX/
Code	Rate	Size (1)	Std (2)	(3)	\$/meter	avg \$/meter	avg \$/regulator	tot lab	tot met	tot reg	tot cost	Customer
41	Sml G50	4	1	1	\$1,651.88	\$573.21	\$494.47	\$1,652	\$573	\$494	\$2,720	\$2,719.56
51	Sml G50	5	1	2	\$1,651.88	\$573.21	\$494.47	\$3,304	\$1,146	\$989	\$5,439	\$2,719.56
i1	Sml G50	6	1	146	\$2,038.84	\$536.15	\$320.15	\$297,671	\$78,278	\$46,742	\$422,690	\$2,895.14
1	Sml G50	8	1	58	\$2,038.84	\$654.94	\$709.64	\$118,253	\$37,987	\$41,159	\$197,398	\$3,403.42
1	Sml G50	9	1	43	\$2,038.84	\$654.94	\$709.64	\$87,670	\$28,162	\$30,515	\$146,347	\$3,403.42
9	Sml G50	10	1	41	\$739,804.00	\$20,289.00	\$3,986.00	\$30,331,964	\$831,849	\$163,426	\$31,327,239	\$764,079.00
00	Sml G50	10	1	37	\$5,451.00	\$4,433.19	\$3,300.00	\$201,687	\$164,028	\$122,100	\$487,815	\$13,184.19
	tot G50			328				\$31,042,200	\$1,142,024	\$405,425	\$32,589,649	\$99,358.68
1	G50 EG	8	1	3	\$2,038.84	\$654.94	\$709.64	\$6,117	\$1,965	\$2,129	\$10,210	\$3,403.42
9	G50 EG	10	1	30	\$739,804.00	\$20,289.00	\$3,986.00	\$22,194,120	\$608,670	\$119,580	\$22,922,370	\$764,079.00
00	G50 EG	10	1	5	\$5,451.00	\$4,433.19	\$3,300.00	\$27,255	\$22,166	\$16,500	\$65,921	\$13,184.19
10	G50 EG	12	1	6	\$2,506,778.00	\$88,986.00	\$0.00	\$15,040,668	\$533,916	\$0	\$15,574,584	\$2,595,764.00
	tot G50 EG			44				\$37,268,160	\$1,166,717	\$138,209	\$38,573,085	\$876,661.03
1	G40	5	1	1	\$1,651.88	\$573.21	\$494.47	\$1,652	\$573	\$494	\$2,720	\$2,719.56
1	G40	8	1	4	\$2,038.84	\$654.94	\$709.64	\$8,155	\$2,620	\$2,839	\$13,614	\$3,403.42
1	G40	9	1	3	\$2,038.84	\$654.94	\$709.64	\$6,117	\$1,965	\$2,129	\$10,210	\$3,403.42
9	G40	10	1	15	\$739.804.00	\$20,289.00	\$3.986.00	\$11,097,060	\$304,335	\$59,790	\$11,461,185	\$764,079.00
00	G40	10	1	7	\$5,451.00	\$4,433.19	\$3,300.00	\$38,157	\$31,032	\$23,100	\$92,289	\$13,184.19
	tot G40			30		. ,	,	\$11.151.141	\$340,525	\$88,352	\$11,580,018	\$386,000.59

	Pipe		New	
	Diameter		Business	Replacement
Code	Inches	Pipe Type	\$/ft	\$/ft
0.5P	0.5	Р	\$146.46	\$176.54
1P	1	Р	\$235.19	\$220.66
2P	2	P	\$230.98	\$196.21
3P	3	P	\$218.87	\$351.91
4P	4	Р	\$537.03	\$821.46
6P	6	P	\$1,507.03	\$1,040.13
3P	8	Р	\$2,177.99	\$1,602.57
0.5	0.5	S	\$445.65	\$251.60
0.75	0.75	S	\$445.65	\$251.60
18	1	S	\$673.27	\$410.04
1.25	1.25	S	\$481.15	\$631.07
2S	2	S	\$887.66	\$688.76
3S	3	S	\$728.43	\$725.33
48	4	S	\$903.83	\$740.56
6S	6	S	\$1,808.75	\$1,318.32
88	8	S	\$2,645.28	\$1,812.13
10S	10	S	\$3,435.87	\$2,664.50
128	12	S	\$4,390.84	\$3,004.50
16S	16	S	\$11,096.37	\$7,618.61
208	20	S	\$11,096.37	\$7,618.61

Calculation of Weighted Average Service Line and Service Line Replacement Cost \$/customer

Calculation of Weighted Av	erage dervice Line and		replaceme	iii Oosi wicu						керіасетепт		
		Pipe			Customers		New		Service Line	Service Line		Replacement
		Diameter	Pipe frac	Pipe Type	last 5 years	Avg Length	Business	Replacement	CAPEX	CAPEX	Service Line	Service Line
Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/customer	\$/customer	CAPEX \$'s	CAPEX \$'s
0.5P	SF	0	12	Р	109,698	25.2	\$146.46	\$176.54	\$3,692	\$4,450	\$405,031,743	\$488,208,757
0.75	SF	0	34	S	186	9.3	\$445.65	\$251.60	\$4,122	\$2,327	\$766,742	\$432,880
1P	SF	1	0	Р	43,508	32.4	\$235.19	\$220.66	\$7,620	\$7,149	\$331,542,120	\$311,049,555
1S	SF	1	0	S	261	2.5	\$673.27	\$410.04	\$1,676	\$1,021	\$437,552	\$266,482
2P	SF	2	0	Р	117	97.7	\$230.98	\$196.21	\$22,576	\$19,178	\$2,641,347	\$2,243,809
	Tot SF				153,770				\$4,815	\$3,510	\$740,419,504	\$802,201,484
0.5P	MF	0	12	Р	2,206	19.9	\$146.46	\$176.54	\$2,912	\$3,510	\$6,423,022	\$7,742,049
0.75	MF	0	34	s	80	1.0	\$445.65	\$251.60	\$423	\$239	\$33,869	\$19,122
1P	MF	1	0	P	8,736	24.2	\$235.19	\$220.66	\$5,701	\$5,349	\$49,804,642	\$46,726,225
18	MF	i	ő	s	402	8.3	\$673.27	\$410.04	\$5,608	\$3,416	\$2,254,557	\$1,373,092
1.25	MF	1	25	S	26	10.6	\$481.15	\$631.07	\$5,110	\$6,702	\$132,855	\$174,250
2P	MF	2	0	P	920	39.9	\$230.98	\$196.21	\$9,209	\$7,823	\$8,472,301	\$7,197,169
28	MF	2	ő	S	1,005	1.9	\$887.66	\$688.76	\$1,669	\$1,295	\$1,677,142	\$1,301,336
3P	MF	3	0	P	6	108.2	\$218.87	\$351.91	\$23,675	\$38,067	\$142,050	\$228,399
3S	MF	3	0	s	21	86.0	\$728.43	\$725.33	\$62,645	\$62,378	\$1,315,539	\$1,309,942
30	Tot MF				13,402	00.0	ψ120. 1 3	Ψ120.00	\$5,242	\$3,510	\$70,255,977	\$66,071,584
	100.1111				10,102				+0,2.2	40,0.0	ψ10,200,011	φοσ,στ.τ,σστ
0.5P	MM Band 1	0	12	Р	250	40.7	\$146.46	\$176.54	\$5,961	\$7,185	\$1,490,225	\$1,796,257
0.75	MM Band 1	0	34	S	48	1.1	\$445.65	\$251.60	\$490	\$277	\$23,530	\$13,285
1P	MM Band 1	1	0	S P	659	47.6	\$235.19	\$220.66	\$11,200	\$10,508	\$7,380,731	\$6,924,529
1S	MM Band 1	1	Ö	S	158	2.7	\$673.27	\$410.04	\$1,804	\$1,099	\$285,090	\$173,628
1.25	MM Band 1	1	25	S	6	2.2	\$481.15	\$631.07	\$1,044	\$1,369	\$6,265	\$8,216
2P	MM Band 1	2	0	P	308	76.4	\$230.98	\$196.21	\$17,640	\$14,985	\$5,433,014	\$4,615,313
2S	MM Band 1	2	Ö	S	150	20.9	\$887.66	\$688.76	\$18,543	\$14,388	\$2,781,478	\$2,158,217
2S 3P	MM Band 1	3	Ö	P	23	91.3	\$218.87	\$351.91	\$19,983	\$32,130	\$459,602	\$738,984
3S	MM Band 1	3	Ö	s S	15	25.9	\$728.43	\$725.33	\$18,844	\$18,764	\$282,666	\$281,464
	Tot MM 1				1,617		4	*	\$11,220	\$10,334	\$18,142,602	\$16,709,893
		_		_	_							
0.5P	MM Band 2	0	12 0	Р	8	27.8	\$146.46	\$176.54	\$4,064	\$4,899	\$32,514	\$39,191
18	MM Band 2	1		S	2	99.0	\$673.27	\$410.04	\$66,654	\$40,594	\$133,308	\$81,188
1.25	MM Band 2	1	25	S	8	42.5	\$481.15	\$631.07	\$20,449	\$26,820	\$163,591	\$214,562
2P	MM Band 2	2	0	Р	4	739.5	\$230.98	\$196.21	\$170,807	\$145,099	\$683,228	\$580,398
28	MM Band 2	2	0	S	12	93.7	\$887.66	\$688.76	\$83,147	\$64,516	\$997,764	\$774,189
3P	MM Band 2	3	0	P	1	96.0	\$218.87	\$351.91	\$21,011	\$33,784	\$21,011	\$33,784
3S	MM Band 2	3	0	S	11	190.5	\$728.43	\$725.33	\$138,729	\$138,139	\$1,526,018	\$1,519,526
48	MM Band 2	4	0	S	6	205.3	\$903.83	\$740.56	\$185,583	\$152,059	\$1,113,497	\$912,352
	Tot MM 2				52				\$89,826	\$79,908	\$4,670,931	\$4,155,191
0.5P	G10 Band 1	0	12	Р	58	49.0	\$146.46	\$176.54	\$7,177	\$8,650	\$416,238	\$501,716
0.75	G10 Band 1	Ö	34		214	2.3	\$445.65	\$251.60	\$1,038	\$586	\$222,210	\$125,454
1P	G10 Band 1	1	0	S P	572	79.3	\$235.19	\$220.66	\$18,644	\$17,491	\$10,664,229	\$10,005,075
1S	G10 Band 1	1	Ö	s S	945	0.8	\$673.27	\$410.04	\$566	\$344	\$534,443	\$325,492
1.25	G10 Band 1	1	25	s	34	0.9	\$481.15	\$631.07	\$452	\$593	\$15,378	\$20,169
2P	G10 Band 1	2	0	P	121	135.3	\$230.98	\$196.21	\$31,240	\$26,538	\$3,779,984	\$3,211,074
2S	G10 Band 1	2	Ö	s S	216	5.5	\$887.66	\$688.76	\$4,900	\$3,802	\$1,058,373	\$821,218
2S 3P	G10 Band 1	3	Ö	P	3	27.7	\$218.87	\$351.91	\$6,056	\$9,737	\$18,168	\$29,212
4P	G10 Band 1	4	ő	Р	7	190.3	\$537.03	\$821.46	\$102,191	\$156,316	\$715,337	\$1,094,215
	tot Band 1	•		•	2,170		Ţ0000	4020	\$8,030	\$7,435	\$17,424,360	\$16,133,624
	101 24114 1				_,				70,000	Ţ.,. 	Ţ , . <u>_</u> . , 550	+ 10,100,02 1

					# New					Replacement		
		Pipe			Customers		New		Service Line	Service Line		Replacement
		Diameter	Pipe frac	Pipe Type	last 5 years	Avg Length	Business	Replacement	CAPEX	CAPEX	Service Line	Service Line
Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/customer	\$/customer	CAPEX \$'s	CAPEX \$'s
0.5P	G10 Band 2	0	12	P	31	34.0	\$146.46	\$176.54	\$4,980	\$6,002	\$154,368	\$186,069
0.75	G10 Band 2	0	34	S	323	3.2	\$445.65	\$251.60	\$1,426	\$805	\$460,624	\$260,055
1P	G10 Band 2	1	0	Р	578	84.3	\$235.19	\$220.66	\$19,822	\$18,597	\$11,457,159	\$10,748,994
1S	G10 Band 2	1	0	S	961	0.8	\$673.27	\$410.04	\$532	\$324	\$511,141	\$311,300
1.25	G10 Band 2	1	25	S	21	0.9	\$481.15	\$631.07	\$433	\$568	\$9,094	\$11,927
2P	G10 Band 2	2	0	Р	166	130.2	\$230.98	\$196.21	\$30,068	\$25,543	\$4,991,369	\$4,240,138
2S	G10 Band 2	2	0	S	150	4.4	\$887.66	\$688.76	\$3,879	\$3,010	\$581,860	\$451,480
3P	G10 Band 2	3	0	P	8	198.1	\$218.87	\$351.91	\$43,364	\$69,725	\$346,915	\$557,798
0.	tot Band 2				2,238		Ψ2.0.0.	φου πο τ	\$8,272	\$7,492	\$18,512,531	\$16,767,761
					,				,	. , .	, .,. ,	, ,, , ,
0.5P	G10 Band 3	0	12	Р	19	64.5	\$146.46	\$176.54	\$9,451	\$11,392	\$179,570	\$216,446
0.75	G10 Band 3	0	34	s S	258	3.4	\$445.65	\$251.60	\$1,506	\$850	\$388,625	\$219,407
1P	G10 Band 3	1	0	P	618	80.3	\$235.19	\$220.66	\$18,881	\$17,714	\$11,668,645	\$10,947,408
 1S	G10 Band 3	1	Ö	S	1,172	1.4	\$673.27	\$410.04	\$909	\$554	\$1,065,250	\$648,769
1.25	G10 Band 3	1	25	Š	24	1.0	\$481.15	\$631.07	\$462	\$606	\$11,086	\$14,540
2P	G10 Band 3	2	0	P	451	149.3	\$230.98	\$196.21	\$34,476	\$29,287	\$15,548,457	\$13,208,321
2S	G10 Band 3	2	0	S	212	3.4	\$887.66	\$688.76	\$2,974	\$2,307	\$630,415	\$489,155
3P	G10 Band 3	3	0	P	14	139.9	\$218.87	\$351.91	\$30,626	\$49,243	\$428,768	\$689,406
		3	0	P	4		\$537.03					
4P 6P	G10 Band 3	6	0	P	4 12	188.5		\$821.46	\$101,230	\$154,846	\$404,919	\$619,384
0P	G10 Band 3 tot Band 3		U	Р	2,784	201.3	\$1,507.03	\$1,040.13	\$303,409 \$12,201	\$209,409 \$10,620	\$3,640,913 \$33,966,647	\$2,512,911 \$29,565,746
	tot band 3				2,704				\$12,201	\$10,620	φ33,900,04 <i>1</i>	\$29,303,740
1P	G10 Band 4	1	0	Р	13	70.3	\$235.19	\$220.66	\$16,536	\$15,514	\$214,974	\$201.686
1S	G10 Band 4	1	0	S	8	35.4	\$673.27	\$410.04	\$23,820	\$14,507	\$190,563	\$116,058
2P	G10 Band 4	2	0	P	59	166.4	\$230.98	\$196.21	\$38,437	\$32,652	\$2,267,769	\$1,926,456
2S	G10 Band 4	2	0	S	4	64.0	\$887.66	\$688.76	\$56,810	\$32,652 \$44,080	\$2,267,769	\$1,920,430
23 3P		3	0	P	8							
32	G10 Band 4		-			214.0	\$218.87	\$351.91	\$46,838	\$75,310	\$374,703	\$602,477
3S 4P	G10 Band 4	3	0	S P	7	18.6	\$728.43	\$725.33	\$13,527	\$13,469	\$94,688	\$94,285
4P	G10 Band 4	4	0	Р	12 111	332.3	\$537.03	\$821.46	\$178,471	\$272,997	\$2,141,646	\$3,275,966
	tot Band 4				111				\$49,654	\$57,597	\$5,511,583	\$6,393,250
2P	G10 Band 5	2	0	Р	4	81.0	\$230.98	\$196.21	\$18,709	\$15,893	\$74,836	\$63,573
2P 4P	G10 Band 5 G10 Band 5	3	0	P	4	105.0	\$230.98 \$537.03	\$821.46	\$16,709 \$56,388	\$15,693 \$86,254	\$74,636 \$56,388	\$86,254
		3	0									
4S	G10 Band 5	4 6		S	4	201.3	\$903.83	\$740.56	\$181,895	\$149,037	\$727,581	\$596,149
6S	G10 Band 5	-	0	S	3	1,203.7	\$1,808.75	\$1,318.32	\$2,177,137	\$1,586,827	\$6,531,412	\$4,760,482
8S	G10 Band 5	8	0	S	4	326.0	\$2,645.28	\$1,812.13	\$862,360	\$590,754	\$3,449,441	\$2,363,016
	tot Band 5				16				\$677,479	\$491,842	\$10,839,658	\$7,869,474
1P	GAC	1	0	Р	4	10.0	\$235.19	\$220.66	£2.252	¢2 207	\$2,352	\$2,207
10	GAC	1	0	S	1				\$2,352 \$14,812	\$2,207 \$0,034		
1S		1			1	22.0	\$673.27	\$410.04	\$14,812 \$200,845	\$9,021	\$14,812	\$9,021
6S	GAC tot GAC	6	0	S	3	116.0	\$1,808.75	\$1,318.32	\$209,815	\$152,926	\$209,815	\$152,926
	IOI GAC				<u>ა</u>				\$75,660	\$54,718	\$226,979	\$164,153

Code (f) Rate Pipe Tack Pipe Pip						# New					Replacement		
Code (1) Rate Inches (2) (3) (4) feet (5) Srift (6) Srift (6			Pipe			Customers		New		Service Line	Service Line		Replacement
Code (1) Rate Inches (2) (3) (4) feet (5) Srift (6) Srift (6				Pipe frac	Pipe Type	last 5 years	Ava Lenath	Business	Replacement	CAPEX	CAPEX	Service Line	Service Line
0.5P NGV 0 12 P 3 43.7 \$146.46 \$175.54 \$6,396 \$7,709 \$19,186 \$ 0.75 NGV 0 34 S 2 160.5 \$44.66 \$175.54 \$6,396 \$7,709 \$19,186 \$ 0.75 NGV 0 34 S 2 160.5 \$44.66 \$220.60 \$38.643 \$43.773 \$183.215 \$1 0.75 NGV 1 0 0 P 5 150.8 \$225.00 \$38.643 \$43.773 \$183.215 \$1 0.75 NGV 1 1 0 P 5 150.8 \$225.00 \$38.643 \$43.773 \$183.215 \$1 0.75 NGV 1 1 0 P 5 150.8 \$225.00 \$38.643 \$43.773 \$183.215 \$1 0.75 NGV 1 1 0 P 5 150.8 \$225.00 \$38.643 \$43.773 \$183.215 \$1 0.75 NGV 1 1 0 P 5 150.8 \$1.300 \$441.15 \$831.07 \$187.779 \$27.800 \$22.815 \$17.79 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.700 \$1.	Code (1)	Rate				-							CAPEX \$'s
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1.25		NGV	1	0	Р	5	155.8	\$235.19	\$220.66	\$36,643		\$183,215	\$171,891
2P NGV 2 0 P 44 141.6 \$220.98 \$196.21 \$32,709 \$27,786 \$1,439,176 \$1,28 \$10 \$2 \$1,439,176 \$1,39 \$10 \$1 \$2 \$1,439,176 \$1,39 \$10 \$1,439,176 \$1,39 \$10 \$1,439,176 \$1,39 \$10 \$1,439,176 \$1,39 \$1,39 \$1,439,176 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1,39 \$1	1S	NGV	1			5	123.8	\$673.27	\$410.04	\$83,351	\$50,763	\$416,755	\$253,816
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2S NOV 2 0 S 9 69.4 \$887.66 \$888.76 \$61,639 \$47,827 \$554,751 \$4.95 \$39.79 NOV 3 0 P 16 181.8 \$218.75 \$351,91 \$39,779 \$65,960 \$636,469 \$1.38.83 \$1.98.88 \$121,369 \$1.828,315 \$1.38 \$1.98 \$1.98.88 \$121,369 \$1.828,315 \$1.38 \$1.98 \$1.98.88 \$121,369 \$1.828,315 \$1.38 \$1.98 \$1.98.88 \$121,369 \$1.828,315 \$1.38 \$1.98 \$1.98.88 \$121,369 \$1.828,315 \$1.38 \$1.98 \$1.98.88 \$121,369 \$1.828,315 \$1.38 \$1.98 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98.25 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.98 \$1.9	2P	NGV	2	0	Р	44	141.6	\$230.98	\$196.21	\$32,709	\$27,786	\$1,439,176	\$1,222,571
3P NGV 3 0 P 16 181.8 \$218.87 \$351.91 \$39,779 \$83,960 \$636,469 \$1.33 3N NGV 3 0 S 15 167.3 \$728.43 \$725.33 \$121,888 \$121,369 \$1,828,315 \$1.34 4P NGV 4 0 P 16 251.1 \$537.03 \$221.46 \$134,826 \$206,237 \$2,157.220 \$3. 4S NGV 4 0 S 12 1936.8 \$900.83 \$740.56 \$123,598 \$101,271 \$1,483,181 \$1. 6P NGV 6 0 P 3 50.7 \$1,507.03 \$740.56 \$123,598 \$101,271 \$1,483,181 \$1. 6P NGV 6 0 P 3 50.7 \$1,507.03 \$740.56 \$123,598 \$101,271 \$1,483,181 \$1. 6P NGV 6 0 P 3 50.7 \$1,507.03 \$740.56 \$123,598 \$101,271 \$1,483,181 \$1. 6P NGV 6 0 P 3 50.7 \$1,507.03 \$740.67 \$13,00.75 \$1,507.03 \$740.81 \$227,00 \$22,003 \$2,207,148 \$1. 6P NGV 6 0 P 3 70.7 \$1,800.75 \$1,318.2 \$302,205 \$227,048 \$1. 6P NGV 7 0 P 8 378.5 \$146.46 \$176,64 \$1576,64 \$1576,635 \$279,000 \$2,207,148 \$1. 6P NGV 7 0 P 12 P 8 378.5 \$146.46 \$176,64 \$1576,64 \$1576,64 \$1576,635 \$1279,000 \$2,207,148 \$1. 6P NGV 7 0 P 182 \$100.75 \$1,007.50 \$1,007.00 \$1.075,000 \$2,207,148 \$1. 6P NGV 7 0 P 182 \$100.75 \$1,007.50 \$1.007.00 \$1.007.00 \$2,207,148 \$1. 6P NGV 7 0 P 182 \$100.75 \$1,007.50 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00 \$1.007.00		NGV	2	0	S		69.4				\$47,827		\$430,445
Second Color	3P		3								\$63,960		\$1,023,366
AS NGV 4 0 S 12 136.8 \$903.83 \$740.56 \$125,986 \$101,271 \$1,483,181 \$1.69 Fig.	38			-									\$1,820,537
S	4P					16		\$537.03		\$134.826	\$206.237		\$3,299,788
Feb	46												\$1,215,255
CEN	43 6D									\$123,330 \$76,364	\$101,271 \$52.702	\$1,400,101 \$220,002	\$158,110
DEFN 1													
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P	2P			-									\$47,402,213
P	2S					43					\$154,268		\$6,633,506
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2S G30 Dist 2 0 S 103 273.8 \$887.66 \$688.76 \$243,073 \$188,606 \$25,036,471 \$19 3P G30 Dist 3 0 P 46 383.0 \$218.87 \$351.91 \$83,836 \$134,798 \$3,856,466 \$6, 35 G30 Dist 3 0 S 63 325.5 \$728.43 \$725.33 \$237,132 \$236,123 \$14,939,329 \$14 4P G30 Dist 4 0 P 14 481.3 \$537.03 \$821.46 \$258,464 \$395,360 \$3,618,501 \$5, 45 G30 Dist 4 0 S 72 761.2 \$903.83 \$740.56 \$887,963 \$563,688 \$49,533,43 \$40 6P G30 Dist 6 0 P 3 1,282.0 \$1,507.03 \$1,040.13 \$1,932,004 \$1,333,445 \$5,796,013 \$40,65 G30 Dist 6 0 S 23 845.1 \$1,808.75 \$1,318.32 \$1,528,631 \$1,114,157 \$35,158,504 \$25 85 G30 Dist 8 0 S 5 1,265.8 \$2,645.28 \$1,812.13 \$3,348,390 \$2,293,792 \$16,741,951 \$11 \$10 S G30 Dist 10 0 S 1 73.0 \$3,435.87 \$2,664.50 \$250,818 \$194,508 \$250,818 \$34,533 \$151,528,631 \$161,361,230 \$132 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528,631 \$1,528	1.25	G30 Dist					107.1	\$481.15	\$631.07	\$51,515	\$67,566	\$772,725	\$1,013,491
3P G30 Dist 3 0 P 46 383.0 \$218.87 \$351.91 \$83,836 \$134,798 \$3,856,466 \$6, 35 G30 Dist 3 0 S 63 325.5 \$728.43 \$725.33 \$237,132 \$236,123 \$14,993.29 \$14 \$4P G30 Dist 4 0 P 14 481.3 \$537.03 \$821.46 \$258,464 \$395,360 \$3,618,501 \$4 \$4 0 S 72 761.2 \$903.83 \$740.56 \$687,963 \$563,688 \$49,533,343 \$40 \$6P G30 Dist 6 0 P 3 1,282.0 \$1,507.03 \$1,040.13 \$1,932,004 \$1,333,445 \$5,796,013 \$4, 6S G30 Dist 6 0 S 23 845.1 \$1,808.75 \$1,318.32 \$1,528,631 \$1,114,157 \$35,158,504 \$252.8 \$63 G30 Dist 8 0 S 5 1,265.8 \$2,645.28 \$1,812.13 \$3,348,390 \$2,293.792 \$16,741,951 \$11 \$10S G30 Dist 10 0 S 1 73.0 \$3,435.87 \$2,664.50 \$250,818 \$194,508 \$250,818 \$1 \$10 \$10 G30 Dist 10 0 S 1 73.0 \$3,435.87 \$2,664.50 \$303,266 \$161,361,230 \$132 \$1,528,631 \$1,318.32 \$1,528,631 \$1,318,32 \$1,528,631 \$1,318,32 \$1,528,631 \$1,318,32 \$1,528,631 \$1,318,32 \$1,528,631 \$1,334,45 \$5,796,013 \$4, 65 \$1,338,445 \$1,438,445 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45 \$1,448,45		G30 Dist	2	0	P		358.6	\$230.98	\$196.21			\$3,975,792	\$3,377,412
3P G30 Dist 3 0 P 46 383.0 \$218.87 \$351.91 \$83,836 \$134,798 \$3,856,466 \$6, 35 G30 Dist 3 0 S 63 325.5 \$728.43 \$725.33 \$237,132 \$236,123 \$14,939.329 \$144 4P G30 Dist 4 0 P 14 481.3 \$537.03 \$821.46 \$258,464 \$395,360 \$3,618,501 \$5, 45 G30 Dist 4 0 S 72 761.2 \$903.83 \$740.56 \$887,963 \$563,688 \$49,533,343 \$40 6P G30 Dist 6 0 P 3 1,282.0 \$1,507.03 \$1,040.13 \$1,932,004 \$1,333,445 \$5,796,013 \$4, 65 G30 Dist 6 0 S 23 845.1 \$1,808.75 \$1,318.32 \$1,528,631 \$1,114,157 \$35,158,504 \$252,88 \$630 Dist 8 0 S 5 1,265.8 \$2,645.28 \$1,812.13 \$3,348,390 \$2,293,792 \$16,741,951 \$11 10S G30 Dist 10 0 S 1 73.0 \$3,435.87 \$2,664.50 \$250,818 \$194,508 \$250,818 \$1 10 G30 Dist 40 \$1,040,13 \$1,932,004 \$1,333,445 \$5,796,013 \$4, 65 G30 Dist 8 0 S 5 1,265.8 \$2,645.28 \$1,812.13 \$3,348,390 \$2,293,792 \$16,741,951 \$11 10S G30 Dist 10 0 S 1 73.0 \$3,435.87 \$2,664.50 \$250,818 \$194,508 \$250,818 \$1 10 G30 Dist 40 \$1,040,13 \$1,932,004 \$1,333,445 \$5,796,013 \$4, 65 G30 Dist 10 0 S 1 73.0 \$3,435.87 \$2,664.50 \$3,348,390 \$2,293,792 \$16,741,951 \$11 10S \$10,500,500,500,500,500,500,500,500,500,5	28	G30 Dist	2	0	S	103	273.8	\$887.66	\$688.76	\$243,073	\$188,606	\$25,036,471	\$19,426,413
3S G30 Dist 3 0 S 63 325.5 \$728.43 \$725.33 \$237,132 \$236,123 \$14,939,329 \$14 4P G30 Dist 4 0 P 14 481.3 \$537.03 \$821.46 \$258,464 \$395,360 \$3,618,501 \$5,5 4S G30 Dist 4 0 S 72 761.2 \$903.83 \$740.56 \$687,963 \$563,688 \$49,533,343 \$40 6P G30 Dist 6 0 P 3 1,282.0 \$1,507.03 \$1,040.13 \$1,932,004 \$1,333,445 \$5,796,013 \$4, 6S G30 Dist 6 0 S 23 845.1 \$1,808.75 \$1,318.32 \$1,528,631 \$1,114,157 \$35,158,504 \$25 8S G30 Dist 8 0 S 5 1,265.8 \$2,645.28 \$1,812.13 \$3,348,390 \$2,293,792 \$16,741,951 \$11 10S G30 Dist 10 0 S 1 73.0 \$3,435.87 \$2,664.50 \$250,818 \$194,508 \$250,818 \$1 2P G30 Tran 2 0 P 3 1,363.0 \$230.98 \$196.21 \$314,821 \$267,438 \$944,462 \$8 2S G30 Tran 2 0 S 5 1,484.6 \$887.66 \$688.76 \$1,317,818 \$1,022,527 \$6,589,090 \$5, 4S G30 Tran 4 0 S 1 53.0 \$903.83 \$740.56 \$47,903 \$39,250 \$47,903 \$\$ 6S G30 Tran 8 0 S 1 42.0 \$2,645.28 \$1,812.13 \$111,102 \$76,109 \$111,102 \$4	3P	G30 Dist	3	0	Р	46	383.0	\$218.87	\$351.91				\$6,200,730
4P G30 Dist 4 0 P 14 481.3 \$537.03 \$821.46 \$258,464 \$395,360 \$3,618,501 \$5,618,501 \$5,618,501 \$5,618,501 \$5,618,501 \$5,618,501 \$5,618,501 \$5,618,501 \$6,609 \$6,609 \$6,009 \$1,000 \$1,000 \$1,000 \$1,932,004 \$1,333,445 \$5,796,013 \$4,000 \$4,000 \$6,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,	3S			0	S								\$14,875,770
4S G30 Dist 4 0 S 72 761.2 \$903.83 \$740.56 \$687,963 \$563,688 \$49,533,343 \$40 6P G30 Dist 6 0 P 3 1,282.0 \$1,507.03 \$1,040.13 \$1,932,004 \$1,333,445 \$5,796,013 \$4, 6S G30 Dist 6 0 S 23 845.1 \$1,808.75 \$1,318.32 \$1,528,631 \$1,114,157 \$35,158,504 \$25,85 \$1,265.8 \$2,645.28 \$1,812.13 \$3,348,390 \$2,293,792 \$16,741,951 \$11 10S G30 Dist 10 0 S 1 73.0 \$3,435.87 \$2,664.50 \$250,818 \$194,508 \$250,818 \$1 10 G30 Dist 10 0 S 1 73.0 \$3,435.87 \$2,664.50 \$250,818 \$194,508 \$250,818 \$1 10 G30 Dist 10 Dist 10 G30 Dist 10 Dist	4P												\$5,535,034
6P G30 Dist 6 0 P 3 1,282.0 \$1,507.03 \$1,040.13 \$1,932,004 \$1,333,445 \$5,796,013 \$4,65	 4S		•			72							\$40,585,512
8S G30 Dist 8 0 S 5 1,265.8 \$2,645.28 \$1,812.13 \$3,348,390 \$2,293,792 \$16,741,951 \$11 \$10S	6P												\$4,000,334
8S G30 Dist 8 0 S 5 1,265.8 \$2,645.28 \$1,812.13 \$3,348,390 \$2,293,792 \$16,741,951 \$11 \$10S	6S												\$25,625,611
10S G30 Dist 10 0 S 1 73.0 \$3,435.87 \$2,664.50 \$250,818 \$194,508 \$250,818 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	96					<u> </u>							\$11,468,961
tot G30 Dist 440 \$366,730 \$303,266 \$161,361,230 \$133 2P G30 Tran 2 0 P 3 1,363.0 \$230.98 \$196.21 \$314,821 \$267,438 \$944,462 \$883 2S G30 Tran 2 0 S 5 1,484.6 \$887.66 \$688.76 \$1,317,818 \$1,022,527 \$6,589,090 \$5,489,093 \$5,689,090 \$5,689,090 \$5,689,090 \$5,689,090 \$5,689,090 \$5,689,090 \$5,789,093 \$6,589,090 \$5,789,093 \$6,589,090 \$5,789,093 \$8,740,56 \$47,903 \$39,250 \$47,903 \$8,89,090 \$6,589,090 \$6,589,090 \$6,589,090 \$5,762,676 \$4,890 \$6,589,090 \$5,762,676 \$4,890 \$8,894,462 \$8,894,462 \$8,894,462 \$8,894,462 \$8,894,462 \$8,894,462 \$8,896,489,493 \$1,902,527 \$6,589,090 \$5,689,090 \$5,689,090 \$5,899,090 \$5,769,690 \$8,896,689,090 \$8,896,689,090 \$8,896,690 \$8,896,690 \$8,896,690 \$8,896,090 \$8,896,090 <td< td=""><td>65 100</td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td>\$2,293,792</td><td>\$10,741,951 \$250,040</td><td>\$11,468,961 \$194,508</td></td<>	65 100				0						\$2,293,792	\$10,741,951 \$250,040	\$11,468,961 \$194,508
2P G30 Tran 2 0 P 3 1,363.0 \$230.98 \$196.21 \$314,821 \$267,438 \$944,462 \$85	103		10	0	3		73.0	\$3,433.07	\$2,004.50				\$133,436,839
2S G30 Tran 2 0 S 5 1,484.6 \$887.66 \$688.76 \$1,317,818 \$1,022,527 \$6,589,090 \$5, 45 G30 Tran 4 0 S 1 53.0 \$903.83 \$740.56 \$47,903 \$39,250 \$47,903 \$ 6S G30 Tran 6 0 S 2 1,593.0 \$1,808.75 \$1,318.32 \$2,881,338 \$2,100,091 \$5,762,676 \$4, 85 G30 Tran 8 0 S 1 42.0 \$2,645.28 \$1,812.13 \$111,102 \$76,109 \$111,102 \$		tot G30 Dist				440				\$300,73U	\$303,266	\$101,301,230	\$133,430,039
2S G30 Tran 2 0 S 5 1,484.6 \$887.66 \$688.76 \$1,317,818 \$1,022,527 \$6,589,090 \$5, 45 G30 Tran 4 0 S 1 53.0 \$903.83 \$740.56 \$47,903 \$39,250 \$47,903 \$ 6S G30 Tran 6 0 S 2 1,593.0 \$1,808.75 \$1,318.32 \$2,881,338 \$2,100,091 \$5,762,676 \$4, 85 G30 Tran 8 0 S 1 42.0 \$2,645.28 \$1,812.13 \$111,102 \$76,109 \$111,102 \$	2P	G30 Tran	2	0	P	3	1 363 0	\$230.98	\$196.21	\$314 821	\$267 438	\$944 462	\$802,315
4S G30 Tran 4 0 S 1 53.0 \$903.83 \$740.56 \$47,903 \$39,250 \$47,903 \$ 6S G30 Tran 6 0 S 2 1,593.0 \$1,808.75 \$1,318.32 \$2,881,338 \$2,100,091 \$5,762,676 \$4,88 G30 Tran 8 0 S 1 42.0 \$2,645.28 \$1,812.13 \$111,102 \$76,109 \$111,102 \$													\$5,112,637
6S G30 Tran 6 0 S 2 1,593.0 \$1,808.75 \$1,318.32 \$2,881,338 \$2,100,091 \$5,762,676 \$4, 8S G30 Tran 8 0 S 1 42.0 \$2,645.28 \$1,812.13 \$111,102 \$76,109 \$111,102 \$	40												
8S G30 Tran 8 0 S 1 42.0 \$2,645.28 \$1,812.13 \$111,102 \$76,109 \$111,102 \$	45												\$39,250
	68												\$4,200,181
16S G3U iran 16 0 S 1 95.0 \$11,096.37 \$7.618.61 \$1,054.155 \$723.767 \$1.054.155 \$7													\$76,109
	16S		16	0	S		95.0	\$11,096.37	\$7,618.61				\$723,767
tot G30 Tran 13 \$1,116,107 \$842,635 \$14,509,387 \$10		tot G30 Tran				13				\$1,116,107	\$842,635	\$14,509,387	\$10,954,259

					# New					Replacement		
		Pipe			Customers		New		Service Line	Service Line		Replacement
		Diameter	Pipe frac	Pipe Type	last 5 years	Avg Length	Business	Replacement	CAPEX	CAPEX	Service Line	Service Line
Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/customer	\$/customer	CAPEX \$'s	CAPEX \$'s
0.75	Sml G50	0	34	S	5	7.4	\$445.65	\$251.60	\$3,298	\$1,862	\$16,489	\$9,309
1P	Sml G50	1	0	Р	21	113.4	\$235.19	\$220.66	\$26,678	\$25,029	\$560,232	\$525,604
1S	Sml G50	1	0	S	6	19.7	\$673.27	\$410.04	\$13,241	\$8,064	\$79,446	\$48,385
1.25	Sml G50	1	25	S	3	143.7	\$481.15	\$631.07	\$69,125	\$90,663	\$207,375	\$271,989
2P	Sml G50	2	0	Р	37	103.7	\$230.98	\$196.21	\$23,959	\$20,353	\$886,486	\$753,064
2S	Sml G50	2	0	S	15	121.8	\$887.66	\$688.76	\$108,117	\$83,890	\$1,621,752	\$1,258,357
3P	Sml G50	3	0	Р	2	159.5	\$218.87	\$351.91	\$34,910	\$56,130	\$69,819	\$112,261
3S	Sml G50	3	0	S	3	28.0	\$728.43	\$725.33	\$20,396	\$20,309	\$61,188	\$60,928
4P	Sml G50	4	0	Р	3	284.3	\$537.03	\$821.46	\$152,695	\$233,569	\$458,084	\$700,708
4S	Sml G50	4	0	S	7	679.9	\$903.83	\$740.56	\$614,474	\$503,474	\$4,301,319	\$3,524,318
6P	Sml G50	6	0	Р	2	131.5	\$1,507.03	\$1,040.13	\$198,174	\$136,777	\$396,348	\$273,554
6S	Sml G50	6	0	S	7	788.7	\$1,808.75	\$1,318.32	\$1,426,585	\$1,039,780	\$9,986,098	\$7,278,463
8S	Sml G50	8	0	S	4	82.0	\$2,645.28	\$1,812.13	\$216,913	\$148,595	\$867,651	\$594,378
10S	Sml G50	10	0	S	1	467.0	\$3,435.87	\$2,664.50	\$1,604,550	\$1,244,319	\$1,604,550	\$1,244,319
	tot Sml G50				116				\$182,042	\$143,583	\$21,116,838	\$16,655,639
1.25	G50 EG	1	25	s	1	163.0	\$481.15	\$631.07	\$78,427	\$102,864	\$78,427	\$102,864
2S	G50 EG	2	0	S	1	27.0	\$887.66	\$688.76	\$23,967	\$18,596	\$47,934	\$37,193
3S	G50 EG	3	0	S	4	520.0	\$728.43	\$725.33	\$378,782	\$377,171	\$378,782	\$37,193 \$377,171
4S	G50 EG G50 EG	3 1	0	S	2	22.5	\$903.83	\$740.56	\$20,336	\$16,663	\$40,672	\$33,325
45	G50 EG	-	0	S	3	232.0	\$1.808.75	\$1,318.32	\$419,630	\$305,851	\$1,258,890	\$917,554
6S 8S	G50 EG	8	0	S	2	586.0	\$2,645.28	\$1,812.13	\$1,550,133	\$1,061,909	\$3,100,267	\$2,123,817
00	tot G50 EG	0			11	300.0	Ψ2,043.20	ψ1,012.10	\$445,907	\$326,538	\$4,904,972	\$3,591,923
									,	,	, , , , , ,	
28	G40	2	0	S	6	86.0	\$887.66	\$688.76	\$76,339	\$59,233	\$458,032	\$355,398
3S	G40	3	0	S	4	129.3	\$728.43	\$725.33	\$94,149	\$93,749	\$376,597	\$374,995
4P	G40	4	0	Р	2	1,477.5	\$537.03	\$821.46	\$793,459	\$1,213,713	\$1,586,918	\$2,427,426
48	G40	4	0	S	7	437.3	\$903.83	\$740.56	\$395,231	\$323,835	\$2,766,616	\$2,266,847
6S	G40	6	0	S	3	5.7	\$1,808.75	\$1,318.32	\$10,250	\$7,471	\$30,749	\$22,412
8S	G40	8	0	S	2	26.5	\$2,645.28	\$1,812.13	\$70,100	\$48,021	\$140,200	\$96,043
16S	G40	16	0	S	1	108.0	\$11,096.37	\$7,618.61	\$1,198,408	\$822,809	\$1,198,408	\$822,809
	tot G40				25				\$262,301	\$254,637	\$6,557,518	\$6,365,930

Notes::

(1) "code" shows Pipe type and pipe diameter size

(2) "Pipe fraction" is a code for the pipe size—the codes 12, 34, and 25 represent .5, .75, and .25 inch diameter pipes, respectively (3) "Pipe type": P means plastic and S means steel.

(4)*# of new customers" represents new customers added to SoCalGas' system in the past 5 years. For residential, core commercial and industrial customers, new customer data were used (premises that initial gas service started between 2012-2016) while all the other rate classes cover the entire population that service line history could be matched by premise as very few large new customers are added to SoCalGas system each year.

(5) The average length was computed by dividing the total service line footage by rate class, line diameter, and pipe type by the number of customers used in the analysis

(6) New Business is newly installed pipe, and Replacement is when we replace existing pipe. The costs represent the unit cost that is the best representation of the cost per foot, by pipe size and pipe material, to install New Business service pipe and Replacement service pipe on the Gas Distribution system.

(7) Line Extension Credit, per SoCalGas' Rule 20, effective 04/2017

(1) Line Extension order, per occurous	, i taic	20, 0110
WATER HEATING	\$	643
SPACE HEATING	\$	698
COOKTOP & OVEN	\$	114
DRYER STUB	\$	160
Total	\$	1 61

	Pipe Diameter		New Business	Replacement	avg labor and nonlabor			
Code	Inches	Pipe Type	\$/ft	\$/ft	\$/meter	avg \$/meter	avg \$/regulator	Total
0.5PS10	0.5	Р	\$146.46	\$176.54	\$247	\$119	\$29	\$395
0.5P30	0.5	Р	\$146.46	\$176.54	\$259	\$202	\$29	\$491
0.5PS40	0.5	Р	\$146.46	\$176.54	\$155	\$615	\$263	\$1,032
1PS10	1	P	\$235.19	\$220.66	\$247	\$119	\$29	\$395
1P30	1	Р	\$235.19	\$220.66	\$259	\$202	\$29	\$491
1P31	1	P	\$235.19	\$220.66	\$271	\$203	\$320	\$794
1PS40	1	P	\$235.19	\$220.66	\$155	\$615	\$263	\$1,032
1PS41	1	P	\$235.19	\$220.66	\$1,652	\$573	\$494	\$2,720
1PS50	1	Р	\$235.19	\$220.66	\$155	\$615	\$263	\$1,032
1PS60	1	Р	\$235.19	\$220.66	\$1,461	\$536	\$263	\$2,260
1PS80	1	Р	\$235.19	\$220.66	\$1,461	\$655	\$311	\$2,427
2P30	2	Р	\$230.98	\$196.21	\$259	\$202	\$29	\$491
0.75\$10	0.75	S	\$445.65	\$251.60	\$247	\$119	\$29	\$395
0.7530	0.75	S	\$445.65	\$251.60	\$259	\$202	\$29	\$491
0.75\$40	0.75	S	\$445.65	\$251.60	\$155	\$615	\$263	\$1,032
1S30	1	S	\$673.27	\$410.04	\$259	\$202	\$29	\$491
1SS40	1	S	\$673.27	\$410.04	\$155	\$615	\$263	\$1,032

Calculation of Weighted Average Service Line and Service Line Replacement Cost \$/customer

														Avelage
						# New				Meter and	Replacement			Meter &
			Pipe			Customers		New		Service Line	Service Line		Replacement	Regulator
			Diameter	Pipe frac	Pipe Type	last 5 years	Avg Length	Business	Replacement	CAPEX	CAPEX	Service Line	Service Line	CAPEX/
	Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/customer	\$/customer	CAPEX \$'s	CAPEX \$'s	Customer
-	0.5PS10	SF	0	12	Р	23,872	25.2	\$146.46	\$176.54	\$1,615	\$4,450	\$38,553,280	\$106,241,859	\$395.24
	0.5P30	SF	0	34	Р	45,742	25.2	\$146.46	\$176.54	\$1,615	\$4,450	\$73,873,330	\$203,573,857	\$490.68
	0.5PS40	SF	1	0	Р	2,106	25.2	\$146.46	\$176.54	\$1,615	\$4,450	\$3,401,190	\$9,372,711	\$1,032.45
	1PS10	SF	1	0	Р	6,956	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$11,233,940	\$49,730,181	\$395.24
	1P30	SF	1	0	Р	15,390	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$24,854,850	\$110,026,953	\$490.68
	1P31	SF	1	0	Р	29	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$46,835	\$207,328	\$793.71
	1PS40	SF	1	0	Р	3,905	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$6,306,575	\$27,917,820	\$1,032.45
	1PS41	SF	1	0	Р	44	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$71,060	\$314,567	\$2,719.56
	1PS50	SF	1	0	Р	486	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$784,890	\$3,474,535	\$1,032.45
	1PS60	SF	1	0	Р	454	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$733,210	\$3,245,759	\$2,260.15
	1PS80	SF	1	0	Р	125	32.4	\$235.19	\$220.66	\$1,615	\$7,149	\$201,875	\$893,656	\$2,426.78
	2P30	SF	1	0	Р	27	97.7	\$230.98	\$196.21	\$1,615	\$19,178	\$43,605	\$517,802	\$490.68
	0.75S10	SF	0	34	S	52	9.3	\$445.65	\$251.60	\$1,615	\$2,327	\$83,980	\$121,020	\$395.24
	0.7530	SF	0	34	S	54	9.3	\$445.65	\$251.60	\$1,615	\$2,327	\$87,210	\$125,675	\$490.68
	0.75\$40	SF	0	34	S	52	9.3	\$445.65	\$251.60	\$1,615	\$2,327	\$83,980	\$121,020	\$1,032.45
	1S30	SF	1	0	S	60	2.5	\$673.27	\$410.04	\$1,615	\$1,021	\$96,900	\$61,260	\$490.68
	1SS40	SF	1	0	S	54	2.5	\$673.27	\$410.04	\$1,615	\$1,021	\$87,210	\$55,134	\$1,032.45
		Tot SF				99,408				\$1,615	\$5,191	\$160,543,920	\$516,001,139	\$395

CAPEX \$1,220

Service Cost for

Average

Notes::

(2) "Pipe fraction" is a code for the pipe size—the codes 12, 34, and 25 represent .5, .75, and .25 inch diameter pipes, respectively

⁽⁷⁾ Line Extension Credit, per SoCalGas' Rule 20, effective 01/2020

WATER HEATING	\$ 643
SPACE HEATING	\$ 698
COOKTOP & OVEN	\$ 114
DRYER STUB	\$ 160
Total	\$ 1,615

^{(1) &}quot;code" shows Pipe type and pipe diameter size

^{(3) &}quot;Pipe type": P means plastic and S means steel.

^{(4)&}quot;# of new customers" represents new customers added to SoCalGas' system in the past 5 years. For residential, core commercial and industrial customers, new customer data were used (premises that initial gas service started between 2012-2016) while all the other rate classes cover the entire population that service line history could be matched by premise as very few large new customers are added to SoCalGas system each year.

⁽⁵⁾ The average length was computed by dividing the total service line footage by rate class, line diameter, and pipe type by the number of customers used in the analysis

⁽⁶⁾ New Business is newly installed pipe, and Replacement is when we replace existing pipe. The costs represent the unit cost that is the best representation of the cost per foot, by pipe size and pipe material, to install New Business service pipe and Replacement service pipe on the Gas Distribution system.

	Pipe Diameter		New Business	Replacement	avg labor and nonlabor			
Code	Inches	Pipe Type	\$/ft	\$/ft	\$/meter	avg \$/meter	avg \$/regulator	Total
0.5PM10	0.5	Р	\$146.46	\$176.54	\$205	\$119	\$7	\$331
0.5P30	0.5	Р	\$146.46	\$176.54	\$259	\$202	\$29	\$491
0.5PS40	0.5	Р	\$146.46	\$176.54	\$155	\$615	\$263	\$1,032
1PM10	1	Р	\$235.19	\$220.66	\$205	\$119	\$7	\$331
1P30	1	Р	\$235.19	\$220.66	\$259	\$202	\$29	\$491
1P31	1	Р	\$235.19	\$220.66	\$271	\$203	\$320	\$794
1PS40	1	Р	\$235.19	\$220.66	\$155	\$615	\$263	\$1,032
1PS41	1	Р	\$235.19	\$220.66	\$1,652	\$573	\$494	\$2,720
2PM10	1	Р	\$235.19	\$220.66	\$205	\$119	\$7	\$331
2P30	1	Р	\$235.19	\$220.66	\$259	\$202	\$29	\$491
1SM10	1	S	\$673.27	\$410.04	\$305.21	\$515.37	\$263	\$1,084
1S30	1	S	\$673.27	\$410.04	\$259	\$202	\$29	\$491
1SS40	1	S	\$673.27	\$410.04	\$155	\$615	\$263	\$1,032
2SM10	2	S	\$887.66	\$688.76	\$205	\$119	\$7	\$331

Calculation of Weighted Average Service Line and Service Line Replacement Cost \$/customer

													Average
					# New				Meter and	Replacement			Meter &
		Pipe			Customers		New		Service Line	Service Line		Replacement	Regulator
		Diameter	Pipe frac	Pipe Type	last 5 years	Avg Length	Business	Replacement	CAPEX	CAPEX	Service Line	Service Line	CAPEX/
Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/customer	\$/customer	CAPEX \$'s	CAPEX \$'s	Customer
0.5PM10	MF	0	12	Р	670	19.9	\$146.46	\$176.54	\$1,615	\$3,510	\$1,082,050	\$2,351,393	\$331.30
0.5P30	MF	0	12	P	744	19.9	\$146.46	\$176.54	\$1,615	\$3,510	\$1,201,560	\$2,611,099	\$490.68
0.5PS40	MF	1	12	P	46	19.9	\$146.46	\$176.54	\$1,615	\$3,510	\$74,290	\$161,439	\$1,032.45
1PM10	MF	1	0	Р	3,330	24.2	\$235.19	\$220.66	\$1,615	\$5,349	\$5,377,950	\$17,811,164	\$331.30
1P30	MF	1	0	P	2,180	24.2	\$235.19	\$220.66	\$1,615	\$5,349	\$3,520,700	\$11,660,161	\$490.68
1PS40	MF	1	0	Р	152	24.2	\$235.19	\$220.66	\$1,615	\$5,349	\$245,480	\$813,002	\$1,032.45
2PM10	MF	1	0	P	452	39.9	\$235.19	\$220.66	\$1,615	\$8,798	\$729,980	\$3,976,492	\$331.30
2P30	MF	1	0	Р	112	39.9	\$235.19	\$220.66	\$1,615	\$8,798	\$180,880	\$985,325	\$490.68
1SM10	MF	1	0	S	56	8.3	\$673.27	\$410.04	\$1,615	\$3,416	\$90,440	\$191,277	\$1,083.57
1S30	MF	1	0	S	72	8.3	\$673.27	\$410.04	\$1,615	\$3,416	\$116,280	\$245,927	\$490.68
1SS40	MF	1	0	S	26	8.3	\$673.27	\$410.04	\$1,615	\$3,416	\$41,990	\$88,807	\$1,032.45
2SM10	MF	2	0	S	103	1.9	\$887.66	\$688.76	\$1,615	\$1,295	\$166,345	\$133,371	\$331.30
	Tot MF				7,943				\$1,615	\$5,165	\$12,827,945	\$41,029,457	\$331

Service Cost for CAPEX \$1,284

Average

Notes::

- (1) "code" shows Pipe type and pipe diameter size
- (2) "Pipe fraction" is a code for the pipe size—the codes 12, 34, and 25 represent .5, .75, and .25 inch diameter pipes, respectively

(3) "Pipe type": P means plastic and S means steel.

(4)"# of new customers" represents new customers added to SoCalGas' system in the past 5 years. For residential, core commercial and industrial customers, new customer data were used (premises that initial gas service started between 2012-2016) while all the other rate classes cover the entire population that service line history could be matched by premise as very few large new customers are added to SoCalGas system each year.

(5) The average length was computed by dividing the total service line footage by rate class, line diameter, and pipe type by the number of customers used in the analysis

- (6) New Business is newly installed pipe, and Replacement is when we replace existing pipe. The costs represent the unit cost that is the best representation of the cost per foot, by pipe size and pipe material, to install New Business service pipe and Replacement service pipe on the Gas Distribution system.
- (7) Line Extension Credit, per SoCalGas' Rule 20, effective 04/2017

WATER HEATING	\$ 643
SPACE HEATING	\$ 698
COOKTOP & OVEN	\$ 114
DRYER STUB	\$ 160
Total	\$ 1,615

SCG 2024 TCAP LRMC Customer Cost Big GEMS Investment by Customer Class for Retail Noncore (exclusive use on Cust MC)

			NonCore C&I									
		NonCore C&I	Transmission	Total NonCore								_
		Distribution G30	G30	C&I G30	EG G-50	EOR G-40	LB	SDG&E	SWG	Vernon	Mexicali	Source
# of Meters												
ROTARY 11M & LARGER: (*)				0	1	2	1	0	6	0	0	
TURBINE MSA'S (*)				3	29	2	0	1	7	0	1	
ORIFICE METERS (ultra sonic)				5	38	0	4	10	0	2	0	
Total # meters				8	68	4	5	11	13	2	1	_
												
** Number of 2021 GEMS Meters at Wholesale	s provided by, Mea	surement										
	Exclusive Use											
	Meter Cost											
Investment in Meters:	\$/meter											
ROTARY 11M & LARGER: (*)	\$13,184	\$0	\$0	\$0	\$13,184	\$26,367	\$13,184	\$0	\$79,102	\$0	\$0	
TURBINE MSA'S (*)	\$764,079	\$2,009,022	\$283,215	\$2,292,237	\$22,158,291	\$1,528,158	\$0	\$764,079	\$5,348,553	\$0	\$764,079	
ORIFICE METERS (ultra sonic)	\$2,595,764	\$11,375,234	\$1,603,586	\$12,978,820	\$98,639,032	\$0	\$10,383,056	\$25,957,640	\$0	\$5,191,528	\$0	
Total Investment \$'s	2021 \$s	\$13,384,256	\$1,886,801	\$15,271,057	\$120,810,507	\$1,554,525	\$10,396,240	\$26,721,719	\$5,427,655	\$5,191,528	\$764,079	
allocation of Total NonCore C&I to Distribution	& Transmission	88%	12%									
Total Investment \$'s	2021 \$s	\$13,215,373	\$1,862,993	\$15,078,366	\$119,286,115	\$1,534,910	\$10.265.059	\$26,384,543	\$5,359,168	\$5,126,021	\$754,438	
2016 Number of Customers		519	19	538	372	30	1	1	1	1	1	Tab 'cust 2"
Exclusive Use Cost Per Customer	2021\$s	\$25,463.15	\$98,052.27	\$28,026.70	\$320,661.60	\$51,163.67	\$10,265,059.48	\$26,384,543.35	\$5,359,168.35	\$5,126,021.11	\$754,437.82	

Note : This is part of Exclusive Use Facilities Costs

Exclusive Use Meter Cost \$/meter	2021 \$s	TURBINE METERS 4"-12"	ROTARY METERS 4" - 6"	ULIKASUNIC METERS 4" - 16"
Avg. Labor Cost		\$110,525	\$1,144	\$230,483
Avg. Contract Cost		\$431,457	\$0	\$600,495
Avg. Materials Cost		\$222,097	\$12,040	\$1,764,786
TOTAL		\$764,079	\$13,184	\$2,595,764

SCG 2024 TCAP LRMC Customer Cost Allocation of Customer-Related Distribution O&M

		Core Residential Non-Residential Single Multi Master Meter Residential G-10 Gas Air Natrual Gas Gas													
											Non-	Residentiai			
											.,	-			
		Family	Family	Small	Large	Total	Very Small	Small	Medium	Large	Very Large	Total	Conditioning	Vehicle	Engir
2021 Number of Customers		3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	9	245	718
Customer Services O&M Cost															
Total Cost	2021 M\$s	\$86,028	\$40,204	\$2,716	\$1	\$128,949	\$4,327	\$4,725	\$11,943	\$855	\$224	\$22,075	\$0	\$83	\$96
Cost Per Customer:	2021 \$s	22.68	22.68	22.68	22.68	22.68	48.67	73.21	254.07	411.43	717.11	108.83	19.10	340.68	134.0
	2024 \$s	24.52	24.52	24.52	24.52	24.52	52.61	79.13	274.62	444.70	775.09	117.63	20.65	368.22	144.
ustomer Accounts O&M Costs															
Customer Accounts O&M Costs 5 Total Cost: 2021 Ms \$53,585 \$25,042 \$1,692 \$1 \$80,319 \$1,111 \$687 \$5,977 \$163 \$118 \$8,057 \$4 \$285 \$49 6 Cost Per Customer: 2021 \$s 14.13 14.13 14.13 14.13 14.13 12.50 10.65 127.16 78.63 375.77 39.72 479.68 1.162.94 67.57															
cost Per Customer:	2021 \$s	14.13	14.13	14.13	14.13	14.13	12.50	10.65	127.16	78.63	375.77	39.72	479.68	1,162.94	67.
	2024 \$s	15.27	15.27	15.27	15.27	15.27	13.51	11.51	137.44	84.99	406.16	42.93	518.46	1,256.97	73.
egmentation by number of cust	omers	66.71%	31.18%	2.11%	0.001%										
otal Cost	2021 M\$s	\$5,485	\$2,149	\$713	\$4	\$8,351	\$3	\$4	\$5	\$1	\$0	\$13	\$0	\$0	\$0
otal Cost	2021 M\$s 2021 \$s	1.45	1.21	5.95	82.33	1.47	0.03	0.06	0.11	0.39	0.58	0.06			
Meters, Reg & MSAs O&M Cos Fotal Cost Cost Per Customer:	2021 M\$s												\$0 0.62	\$0 0.62	\$0 0.6
Total Cost	2021 M\$s 2021 \$s	1.45	1.21	5.95	82.33	1.47	0.03	0.06	0.11	0.39	0.58	0.06			
otal Cost	2021 M\$s 2021 \$s	1.45	1.21	5.95	82.33	1.47	0.03	0.06	0.11	0.39	0.58	0.06			
otal Cost	2021 M\$s 2021 \$s	1.45	1.21	5.95	82.33	1.47	0.03	0.06	0.11	0.39	0.58	0.06			
fotal Cost Cost Per Customer:	2021 M\$s 2021 \$s 2024 \$s 2024 \$s	1.45 1.56	1.21	5.95	82.33	1.47	0.03	0.06	0.11	0.39	0.58	0.06			
otal Cost Cost Per Customer: Gervice Lines O&M Costs otal Costs	2021 M\$s 2021 \$s 2024 \$s	1.45 1.56 \$45,310 \$48,973,451	1.21 1.31	5.95 6.43	82.33 88.98	1.47 1.59	0.03 0.04	0.06 0.06	0.11 0.12	0.39 0.42	0.58 0.62	0.06 0.07	0.62	0.62	0.6
otal Cost ost Per Customer: ervice Lines O&M Costs otal Costs otal Service Line Footage	2021 M\$s 2021 \$s 2024 \$s 2024 \$s	1.45 1.56 \$45,310 \$48,973,451 231,707,635	1.21 1.31	5.95 6.43	82.33 88.98	1.47 1.59	0.03 0.04	0.06 0.06	0.11 0.12	0.39 0.42	0.58 0.62	0.06 0.07	0.62	0.62	0.6
otal Cost ost Per Customer: ervice Lines O&M Costs otal Costs otal Service Line Footage ercent of Total Footage	2021 M\$s 2021 \$s 2024 \$s 2024 \$s 2021M \$s 2024 \$s	1.45 1.56 \$45,310 \$48,973,451 231,707,635 70,22%	1.21 1.31 58,800,895 17.82%	5.95 6.43 11,613,724 3.52%	82.33 88.98	1.47 1.59 302,136,270 91.56%	0.03 0.04 12,721,655 3.86%	0.06 0.06 6,951,318 2.11%	0.11 0.12 6,611,352 2.00%	0.39 0.42 562,372 0.17%	0.58 0.62	0.06 0.07 26,962,754 8.17%	0.62 0.62	0.62 60,700 0.02%	0.6 625 0.1
tal Cost sst Per Customer: prvice Lines O&M Costs tal Costs tal Service Line Footage	2021 M\$s 2021 \$s 2024 \$s 2024 \$s	1.45 1.56 \$45,310 \$48,973,451 231,707,635	1.21 1.31	5.95 6.43	82.33 88.98	1.47 1.59	0.03 0.04	0.06 0.06	0.11 0.12	0.39 0.42	0.58 0.62	0.06 0.07	0.62	0.62	625

9	Calculation of Customer Service & Information Cost (CSI)	Costs Accounts (FEF	RC Accounts 907 t	o 910):			2021 Costs in							
					GRC Exclusion		Transport							
139 C	Calculation of Customer Service & Information Costs (CSI	Costs):		2021 Costs M\$	Items	Other Adjustments	Rates			Exclusions		2021 \$		
140 9	907 Cus Svc-Supervision + Pavroll Taxes	NON-DSM CU	ST. INFO	\$274	\$0	\$0	\$274	FERC Form 2		Self Generation (a	acct 908)	\$10.876.259	•	
141 9	908 Cus Svc-Cust Assist Exp (PBR Ex DAP, DSM &Self-Gen)	(PBR Ex DAP, DSM &Self-Gen) NON-DSM CUST. INFO		\$267,147	(\$228,960)	\$0	\$38,187	FERC Form 2		Energy Efficiency		\$115,795,522		
142 9	909 Cus Syc-Info & Instruction Exp			\$1,835 \$0 \$0 \$1.835 FERC Form 2 Low Income Energy Efficiency				av Efficiency (acct 908)	\$102,073,863					
143 9	910 Cus Svc-Misc CSI Exp			\$2,436	\$0	\$0	\$2,436	FERC Form 2		AB802MA (acct 9	08)	\$213.621		
				\$271,692	(\$228,960)	\$0	\$42,732			MEOMA (acct 90)	9)	\$0		
144 147				\$271,092	(\$220,900)	φU	\$42,73Z							
								-		WDRMA (acct 90	8 and 907001)	\$596	-	
148 <u>C</u>	CS&I O&M, 2021 \$000's	1, 2021 \$000's					\$42,732					\$228,959,861		
149														
													Total Retail	
			Residential	CCI	G-AC	G-GEN	NGV	Total Core	NCCI	EG Tier 1	EG Tier 2	EOR	NonCore	Long Beach
	Calculation of CSI Cost Allocator:													
	Energy Markets Costs:													
	Mgmnt estimate - FTE			0.3	0.0	0.0	0.0	0	0.7	0.2	3.3	2.2	6.4	0.6
	Energy Markets		0.0%	2.8%	0.0%	0.0%	0.0%	2.8%	7.3%	2.4%	36.1%	23.5%	69.3%	6.5%
	Energy Markets \$884		\$0	\$25	\$0	\$0	\$0	\$25	\$65	\$21	\$319	\$207	\$613	\$57
6	Large C&I:							0.004		0				
/	# Large C&I Customers		0	2,391	0	0	0	2,391	538		0	0	538 18.4%	0
8	% Large C&I only arge C&I \$5.719		0.0%	81.6%	0.0%	0.0%	0.0%	81.6%	18.4% \$1.050	0.0%	0.0%	0.0%		0.0%
	Large C&I \$5,719 NGV \$2.553		\$0 \$0	\$4,668	\$0	\$0	\$0	\$4,668 \$2,553		\$0	\$0	\$0	\$1,050	\$0
	Residential \$10.72		\$10.728	\$0 \$0	\$0 \$0	\$0 \$0	\$2,553 \$0	\$2,553 \$10.728	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
	Small Business \$10,72)	\$10,720	ψU	φu	φu	φu	\$10,720	ŞU	ψU	\$ 0	ψU	ψU	φu
13	#G10. G-AC. G-GE Customers only		0	202.835	0	0	0	202.835	0	0	0	0	0	0
14	Small Business		0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Small Business \$1.617		\$0	\$1.617	\$0	\$0	\$0	\$1,617	\$0	\$0	\$0	\$0	\$0	\$0
	Econ Development		40	¥1,017	ΨU	φυ	Ψ0	ψ1,517	ΨU	\$ 0	ΨΨ	Ų.	40	φυ
17	#Large C&I Customers		0	2,391	0	0	0	2,391	538	0	0	0	538	0
18	% Large C&I only		0.0%	81.6%	0.0%	0.0%	0.0%	81.6%	18.4%	0.0%	0.0%	0.0%	18.4%	0.0%
	Econ Development \$8.353		\$0	\$6,819	\$0	\$0	\$0	\$6.819	\$1,534	\$0	\$0	\$0	\$1,534	\$0
	Other Residential \$5.889		\$5,889	\$0	\$0	\$0	\$0	\$5,889	\$0	\$0	\$0	\$0	\$0	\$0
	Total \$35,74		\$16,617	\$13,129	\$0	\$0	\$2,553	\$32,299	\$2,649	\$21	\$319	\$207	\$3,197	\$57
22 4	Allocator %		46.5%	36.7%	0.0%	0.0%	7.1%	90.4%	7.4%	0.1%	0.9%	0.6%	8.9%	0.2%

LRM	2024 TCAP C Customer Cost ation of Customer-Related Dist	ribution O&M												
									Noncore					
									n-Residential					Total
				G-30		Small EG	EG	EOR			lesale		Intl	Over All
			Distribution	Transmission	Total		G-50	G-40	LB	SDG&E	SWG	Vernon	ECOGAS	Customers
1 [2021 Number of Customers		519	19	538	351	21	30	1	11	1	1	11	5,889,515
	Customer Services O&M Costs													
	Total Cost	2021 M\$s			\$290	\$75	\$4	\$2	\$0	I \$0	\$0	\$0	\$0	\$151.574
	Cost Per Customer:	2021 \$s			538.34	213.35	213.35	50.03	0.00	0.00	0.00	0.00	0.00	*,
4		2024 \$s			581.86	230.60	230.60	54.08	0.00	0.00	0.00	0.00	0.00	
	Customer Accounts O&M Costs					Total EG	\$79	ı						
	Total Cost:	2021 M\$s			\$898	\$604	\$36	\$51	\$7	\$5	\$11	\$4	\$3	\$90,332
	Cost Per Customer:	2021 \$s			1,668.83	1,720.92	1,720.92	1,696.63	6,530.71	5,087.00	10,861.85	3,643.28	2,921.42	
7		2024 \$s			1,803.76	1,860.06	1,860.06	1,833.81	7,058.74	5,498.30	11,740.07	3,937.85	3,157.63	
	segmentation by number of custo Meters, Reg & MSAs O&M Cost	s				EG O&M cost 94%	6%		costs by # of cu					
	Total Cost	2021 M\$s			\$62	\$513	\$61	\$42	\$8	\$8	\$17	\$1	\$1	\$9,077
11 12	Cost Per Customer:	2021 \$s 2024 \$s	124.56	124.56	115.24 124.56	1,461.54 1,579.71	2,904.76 3,139.62	1,400.00 1,513.19	8,000.00 8.646.82	8,000.00 8.646.82	17,000.00 18.374.50	1,000.00 1.080.85	1,000.00 1.080.85	
13 14	Service Lines O&M Costs Total Costs Total Service Line Footage	2021M \$s 2024 \$s	104,645	16,542	121,188	46,579	16,273	11,667	0	I 0	1 0	0	1 0	329.981.545
	Percent of Total Footage		0.03%	0.01%	0.04%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
17	Allocated SL O&M Costs	2024 \$s	\$15,531	\$2,455	\$17,986	\$6,913	\$2,415	\$1,732	\$0	\$0	\$0	\$0	\$0	\$48,973,451
18	Cost Per Customer	2024 \$s	\$29.92	\$129.21	\$33.43	\$19.70	\$115.00	\$57.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.32
	Calculation of Customer Servic													
	Total Cost:	2021 M\$s			\$3,167	\$26	\$382	\$248	\$69	\$65	\$75	\$55	\$30	\$42,732
3	Cost Per Customer:	2021 \$s			5,887.41	72.96	18,175.54	8,261.26	68,590.22	64,946.55	75,148.83	55,473.00	30,252.33	7.26
4		2024 \$s			6,363.42	78.86	19,645.09	8,929.20	74,135.95	70,197.67	81,224.84	59,958.16	32,698.32	

Calculation of Customer Service & Information 139 Calculation of Customer Service & Information 140 907 Cus Svc-Supervision + Payroll Taxes 141 908 Cus Svc-Cust Assist Exp (PBR Ex DAP, DSM & 142 909 Cus Svc-Info & Instruction Exp 143 910 Cus Svc-Misc CSI Exp 144 147 148 CS&I O&M, 2021 \$000's SYSTEM Total SDG&E South West Gas Vernon Whole sale TOTAL DGN UBS **Total Noncore** Sources Calculation of CSI Cost Allocator: Energy Markets Costs: Mgmnt estimate - FTE Energy Markets 0.0 0.0% 9.2 100.0% 0.6 6.1% 0.7 7.1% 0.5 5.3% 2.3 25.0% 8.9 97.2% 0.3 Energy Markets Energy Markets Large C&I: # Large C&I Customers % Large C&I only Large C&I NGV Residential Small Business # GAI GLAC GGE Cust \$25 \$63 \$221 \$859 \$884 538 2,929 2021 Customer Count 18.4% \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10,728 \$0 # G10, G-AC, G-GE Customers only Small Business 202,835 20213 Customer Count from SCG Cust Cost model "cust 2" 0.0% 0.0% 0.0% 0.0% 0.0% 100.0% Small Business \$0 \$1,617 538 2013 Customer Count from SCG Cust Cost model "cust 2" 0 2.929 18.4% 100.0% \$0 \$0 \$5.889 \$46 0.1% \$3,444 9.6% \$35,743 \$54 0.2% \$221 0.6% 0.2% 0.1% 0.0% 100.0%

SCG 2024 TCAP LRMC Customer Cost Weighted Average RECC and Replacement Factors

S10

<u>Line</u> 1. 2.	CUSTOMER CLASS	<u>RATE</u>	Excluded AVERAGE LABOR COST	AVERAGE METER COST	AVERAGE REGULATOR COST	AVERAGE TOTAL COST	WEIGHTED REPLACEMENT Percent	WEIGHTED <u>RECC</u> Percent	WEIGHTED <u>PVRR</u>
3.	SINGLE FAMILY	GR	257.00	201.45	46.32	504.76	1.87%	8.65%	121.48%
4.	MULTIPLE FAMILY	GR	217.60	142.96	14.83	375.39	1.64%	8.65%	121.51%
5.	MASTER METERED BAND 1	GM,GS	841.28	490.01	295.51	1626.80	1.76%	8.56%	121.64%
6.	MASTER METERED BAND 2	GM,GS	17976.74	2660.44	1860.74	22497.92	0.72%	8.48%	121.93%
7.	RESIDENTIAL WEIGHTED AVERAGE		170.67	146.45	32.51	349.62	1.96%	8.66%	121.45%
8.	SMALL CORE BAND 1	G-10	340.12	257.21	104.02	701.36	1.92%	8.61%	121.53%
9.	SMALL CORE BAND 2 SMALL CORE BAND 3	G-10 G-10	508.71 1159.64	434.19 701.44	206.13 434.08	1149.03 2295.16	2.06%	8.61% 8.56%	121.52%
10. 11.	SMALL CORE BAND 3 SMALL CORE BAND 4	G-10 G-10	3620.77	2429.51	434.06 1909.29	7959.56	1.80% 1.95%	8.54%	121.63% 121.63%
12.	SMALL CORE BAND 5	G-10 G-10	4897.05	3919.98	2931.85	11748.88	2.09%	8.56%	121.58%
13.	G10 AVERAGE	0-10	430.93	901.17	194.53	1,526.63	2.75%	8.75%	121.18%
	0.07.12.01.02		100.00	001.11	101.00	1,020.00	2070	0.7070	12111070
14.	GAS COOLING	GAC	2605.71	1386.83	1070.05	5062.59	1.74%	8.53%	121.68%
15.	Natural Gas Vehicles	NGV	79940.63	4265.03	2079.11	86284.77	0.27%	8.46%	122.04%
16.	GAS ENGINES	GENG	1844.30	772.68	585.81	3202.79	1.52%	8.52%	121.73%
17.	NONCORE COMM/IND TRANSMISSION	G-30	275104.17	9274.28	2850.56	287229.01	0.16%	8.45%	122.07%
18.	NONCORE COMM/IND DISTRIBUTION	G-30	124688.07	6143.15	2799.23	133630.45	0.25%	8.46%	122.05%
19.	NONCORE COMM/IND TOTAL	G-30	130,000.16	6,253.73	2,801.04	139054.93	0.24%	8.46%	122.05%
20.	COGENERATION	G-50	94640.85	3481.78	1236.05	99358.68	0.18%	8.45%	122.06%
21.	EOR	G-40	371704.69	11350.84	2945.07	386000.59	0.14%	8.45%	122.07%
22.	SYSTEM AVERAGE		197.25	173.32	38.52	409.08	1.98%	8.66%	121.44%
22.	INVERSE OF BOOK LIFE		0.00%	4.00%	3.03%				
23.	RECC		8.44%	9.04%	8.12%				
23.	PVRR		122.12%	120.53%	122.09%				

SCG 2024 TCAP LRMC Customer Cost Weighted Average RECC and Replacement Factors

Weighted Average RECC and Replacement Factor for Exclusive Use Facilities

<u>Line</u> 1. 2.	CUSTOMER CLASS	<u>RATE</u>		GEMs Dollars	AVERAGE TOTAL COST Dollars	WEIGHTED REPLACEMENT Percent	WEIGHTED RECC
3. 4. 5. 6. 7. 8. 9. 10. 11.	NONCORE COMM/IND TRANSMISSION NONCORE COMM/IND DISTRIBUTION NONCORE COMM/IND TOTAL COGENERATION EOR LONG BEACH SAN DIEGO GAS & ELECTRIC SOUTHWEST GAS VERNON DGN	G-30 G-30 G-30 G-50 G-40		1,862,993 13,215,373 15,078,366 119,286,115 1,534,910 10,265,059 26,384,543 5,359,168 5,126,021 754,438	1,862,993 13,215,373 15,078,366 119,286,115 1,534,910 10,265,059 26,384,543 5,359,168 5,126,021 754,438	4.00% 4.00% 4.00% 4.00% 4.00% 4.00% 4.00% 4.00% 4.00% 4.00%	9.04% 9.04% 9.04% 9.04% 9.04% 9.04% 9.04% 9.04% 9.04% 9.04%
13.	SYSTEM TOTAL			198,866,988	198,866,988	4.00%	9.04%
14.	INVERSE OF BOOK LIFE			4.00%			
15.	RECC factors			9.04%			

Source:Meter cost detail

SOUTHERN CALIFORNIA GAS

2021 Economic Assumptions Update LEVELIZED ANNUAL CAPITAL COST AND RECC FACTORS

	utility socal		th ROF			по ора) ====>	21.00%			x Rate ===>		d Valorum			1.342%	
FERC			Fed	State		Normlzd	Normlzd	Г	Depreciat	ion Metho	od		LACC Comp	onents (in percent)			PVCC	Sum of
Account	Account Name	Book Life	Tax Life	Tax Life	Percent Salvage	Federal Taxes ?	State Taxes ?	Feder	al Tax	State	Тах	Book Depr	Return on Capital	Income Taxes	Property Taxes	Total LACC	RECC Factors	Factors	Rev Req
GAS UN	IDERGROUND STORAGE	9	10	11	12	13	14		15		16	19	20	21	22	23	25	26	27
G-352	Wells	49	15	22	-70%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.47	3.83	0.97	0.73	9.01	7.08	119.48	224.69
G-353 G-354	Lines Compressor Station Equipment	54 41	15 15	22 22	-40% -15%	TRUE	FALSE FALSE	db/sl db/sl	150% 150%	db/sl db/sl	200% 200%	2.59 2.80	4.41 4.46	1.09 1.11	0.87 0.88	8.97 9.26	6.99 7.43	120.14 119.86	282.24 276.35
G-356	Purification Equipment	39	15	22	-30%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.33	4.16	1.04	0.80	9.34	7.53	119.75	253.27
GAS TR	ANSMISSION PLANT																		
G-365.1	Land	0	0	0	0%	FALSE	FALSE	none	0%	none	0%	0.00	7.30	2.10	1.34	10.74	n/a	147.12	1105.13
	Land Rights	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	sl	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
G-366	Structures & Improvements	47	39	45	-40%	TRUE	FALSE	sl	0%	db/sl	0%	2.98	4.68	1.38	0.83	9.86	7.79	130.22	287.81
G-367	Mains	64	15	22	-60%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.50	4.40	1.09	0.87	8.86	6.81	120.09	265.76
G-368 G-369	Compressor Station Equipment Measuring & Regulating Equipment	50 46	15 15	22 22	-15% -50%	TRUE	FALSE FALSE	db/sl db/sl	150% 150%	db/sl db/sl	200% 200%	2.30 3.26	4.67 4.04	1.15 1.01	0.94 0.78	9.06 9.10	7.11 7.20	120.42 119.75	309.85 247.73
G-371	Other Equipment	21	15	22	-10%	TRUE	FALSE	db/sl	150%	db/si	200%	5.24	4.04	1.10	0.78	11.16	9.69	118.09	203.20
G 07 .	o anon Equipmonic				1070	1		u2/01	10070	42/0	20070	0.2.			0., .		0.00	1.0.00	200.20
GAS DIS	STRIBUTION PLANT																		
G-374.1		0	0	0	0%	FALSE	FALSE	none	0%	db/sl	0%	0.00	7.30	2.10	1.34	10.74	n/a	147.12	1105.13
	Land Rights	40	40	40	0%	FALSE	FALSE	sl	0%	db/sl	0%	2.50	5.17	1.49	0.93	10.09	8.11	130.02	313.88
G-375 G-376	Structures & Improvements	40 68	39 20	45 35	-10% -80%	TRUE	FALSE FALSE	sl db/sl	0% 150%	db/sl db/sl	0% 200%	2.75 2.65	4.99 4.38	1.47 1.19	0.89 0.84	10.10 9.05	8.12 6.92	130.11 122.96	302.03 231.10
G-378	Mains Measuring & Regulating Equipment	47	20	35	-80% -95%	TRUE	FALSE	db/sl	150%	db/si db/sl	200%	4.15	3.50	1.19	0.62	9.03	7.32	122.96	191.81
G-380	Services	67	20	35	-115%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.21	3.94	1.11	0.73	8.99	6.89	122.09	150.81
G-381	Meters	25	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.80	4.62	1.34	0.86	10.62	9.04	120.53	229.99
G-382	Meter & Regulator Installations	30	20	35	-10%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.67	4.41	1.24	0.82	10.14	8.44	122.12	243.24
G-383	House Regulators	33	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.88	4.77	1.32	0.91	9.88	8.12	122.09	266.77
G-387	Other Equipment	21	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.52	4.57	1.37	0.83	11.29	9.80	119.44	211.60
GAS GE	ENERAL PLANT																		
G-390	Structures & Improvements	33	39	45	-15%	TRUE	FALSE	sl	0%	db/sl	0%	3.48	4.74	1.43	0.82	10.47	8.61	129.47	269.48
	Office Furniture & Equipment	14	7	10	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	7.14	3.81	0.97	0.73	12.65	11.45	108.66	166.78
	Computer Equipment	5	5	6	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	20.00		1.09	0.57	25.44	24.59	103.47	125.64
G-393	Stores Equipment	20	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	5.00	4.45	1.33	0.79	11.56	10.09	119.69	205.90
	Shop & Garage Equipment Large Portable Tools	29 24	20 20	35 35	0% 0%	TRUE	FALSE FALSE	db/sl db/sl	150% 150%	db/sl db/sl	200% 200%	3.45 4.17	4.59 4.50	1.30 1.31	0.86 0.82	10.20 10.80	8.52 9.23	121.60 120.67	245.35 223.46
G-394.3 G-395	Laboratory Equipment	25	20	35	0%	TRUE	FALSE	db/si	150%	db/si	200%	4.00	4.52	1.30	0.82	10.65	9.06	120.88	227.84
G-397	Communications Equipment	15	7	10	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	6.67	3.82	0.96	0.74	12.19	10.96	108.93	171.15
G-398	Miscellaneous Equipment	20	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	5.00	4.45	1.33	0.79	11.56	10.09	119.69	205.90
	Software Programs - 10yr ASL	10	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	10.00		0.76	0.68	14.95	13.91	103.58	146.07
	Software Programs - 15yr ASL	15	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	6.67	3.61	0.74	0.74	11.75	10.57	105.06	167.96
G-391.6	Software Programs - 20yr ASL	20	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	5.00	3.74	0.74	0.79	10.26	8.96	106.26	189.85
	Software Programs - 3yr ASL Software Programs - 6yr ASL	3 6	3 3	3	0% 0%	TRUE	FALSE FALSE	sl sl	0% 0%	db/sl db/sl	0% 0%	33.33 16.67		1.08 0.84	0.47 0.60	38.65 21.63	37.98 20.74	100.87 102.14	115.42 128.56
G-391.4	Sultware Programs - by ASL	0	<u> </u>	<u> </u>	U 70	IRUE	FALSE	51	U 70	ub/SI	U 7/0	10.07	3.32	0.04	0.00	21.03	20.74	102.14	120.50

S **Calculation of Marginal Customer Costs** 2020 \$/Customer Marginal Unit O&M and Annualized Cost 2020 Loaders CAPEX **CAPEX** (\$/customer/ (\$/customer/ **Customer Class** RECC % \$/customer (\$/customer/year) year) year) Residential \$1,936.47 7.27% \$140.78 \$145.62 \$286.40 Core C/I¹⁴ \$724.76 \$12,373.44 7.09% \$877.45 \$1,602.20 Gas A/C¹⁵ \$1,491.30 \$84,377.27 6.99% \$5,897.34 \$7,388.64 Gas Engine¹⁶ \$953.53 \$208.673.34 6.91% \$14.423.78 \$15,377.31 NGV \$178,287.67 7.68% \$13,694.70 \$41,532.13 \$55,226.83 Noncore C/I¹⁷ \$24,452.12 \$587,610.79 7.39% \$43,398.79 \$67,850.91 Small EG¹⁸ \$10,346.67 \$294,142.08 7.44% \$21,881.94 \$32,228.61 Large EG¹⁹ \$68,605.06 \$1,703,114.42 \$138,531.75 \$207,136.81 8.13% EOR²⁰ \$34,008.28 \$728,819.80 7.90% \$57,601.80 \$91,610.09 Long Beach²¹ \$246,638.07 \$10,265,059.48 9.04% \$927,589.73 \$1,174,227.80 SDG&E²² \$231,542.67 \$26,384,543.35 9.04% \$2,384,207.47 \$2,615,750.14 Southwest Gas²³

9.04%

9.04%

9.04%

\$484.274.79

\$463,206.72

\$68,173.86

\$305,655.33

\$178,378.22

\$101,401.03

\$789.930.12

\$641,584.94

\$169,574.89

\$5,359,168.35

\$5,126,021.11

\$754,437.82

Vernon²⁴

Ecogas²⁵

¹⁴ Core C&I are the Core Commercial & Industrial customers

¹⁵ Gas A/C are the Gas Air Conditioning for Commercial & Industrial customers

¹⁶ Gas Engine are Core Gas Engine Water Pumping Service for Commercial and Industrial

¹⁷ Noncore C/I are Noncore Commercial & Industrial customers

¹⁸Small EG are Electric Generation customers with usage less than 3 million therms/year

¹⁹Large EG are Electric Generation customers with usage greater than 3 million therms/year

²⁰EOR are Enhanced Oil Refinery customers

²¹ Long Beach is the Wholesale - City of Long Beach customer

²² SDG&E is the Wholesale – San Diego Gas & Electric customer

²³SW Gas is the Wholesale – Southwest Gas Corporation's service territory in southern California

²⁴Vernon is the Wholesale – City of Vernon customer

²⁵Ecogas is the Wholesale – ECOGAS Mexico, S. de R.L. de C.V. customer

Southern California Gas Company WEIGHTED AVERAGE DEPRECIATED RATE BASE Service Line, Regulator, & Meter (SRM) Assets (Thousands of Dollars)

As of December 31, 2021

Line		G-380	G-381	G-382	G-383	Total
No.	Account Description					
	Fixed Capital					
1	•	\$ 3,426,260	\$ 974,827	\$ 627,592	\$ 185,622	\$ 5,214,300
2	Work-In-Progress (non-interest bearing)	\$ -	\$ -	\$ -	\$ -	\$ -
3	Total Fixed Capital	\$ 3,426,260	\$ 974,827	\$ 627,592	 185,622	\$ 5,214,300
	Working Capital					
4		-	-	-	-	_
5	Working Cash	-	-	-	-	-
6	Total Working Capital	\$ -	\$ -	\$ -	\$ -	\$ -
	Other Deductions					
7	Customer Advances For Construction	\$ (43,501)	\$ (12,368)	\$ (7,964)	\$ (2,355)	\$ (66,188)
8	Total Other	\$ (43,501)	(12,368)	(7,964)	\$ (2,355)	(66,188)
	Deductions For Reserves					
9	Accumulated Depreciation Reserve	\$ (2,236,882)	\$ (298,608)	\$ (219,859)	\$ (83,080)	\$ (2,838,429)
10	Accumulated Amortization Reserve	-	-	-	-	-
11	Accumulated Deferred Taxes	(259,801)	(94,603)	(54,704)	(16,793)	(425,902)
12	Total Deductions For Reserves	\$ (2,496,683)	\$ (393,211)	\$ (274,563)	\$ (99,873)	\$ (3,264,331)
13	Weighted Average Depreciated Rate Base	\$ 886,076	\$ 569,248	\$ 345,064	\$ 83,393	\$ 1,883,782

ARM1 Factor = Rate Base Value/Rental Capital	
Rate Base Value	1,883,782
Rental	14,551,691
%	13%
ARM2 Factor	
Rental less depreciation	11,713,262
Rental	14,551,691
%	80%

Summary of Book Depreciation Expense

	G-380	G-381	G-382	G-383	Total
Jan-21	8,023,828	3,474,390	2,012,461	433,051	13,943,731
Feb-21	8,063,088	3,470,530	2,017,184	433,590	13,984,392
Mar-21	8,103,316	3,470,775	2,022,345	435,828	14,032,264
Apr-21	8,157,029	3,486,302	2,026,448	437,000	14,106,779
May-21	8,210,939	3,493,237	2,032,052	438,043	14,174,271
Jun-21	8,268,416	3,504,220	2,037,099	439,553	14,249,287
Jul-21	8,326,738	3,519,088	2,043,148	440,342	14,329,316
Aug-21	8,380,349	3,524,939	2,048,489	441,573	14,395,350
Sep-21	8,419,269	3,530,789	2,053,678	442,853	14,446,589
Oct-21	8,483,253	3,531,278	2,060,157	443,496	14,518,184
Nov-21	8,520,365	3,532,483	2,066,491	445,170	14,564,509
Dec-21	8,566,141	3,541,705	2,073,576	446,722	14,628,144
Total	99,522,731	42,079,737	24,493,126	5,277,220	171,372,814

DETERMINATION OF WEIGHTED ADDITIONS PLANT ADDITIONS - 101 December 31, 2021

	G-380	G-381	G-382
	A-D	E-I	J-M
December 2020	3,304,885,944	964,161,618	616,214,320
January 2021	3,321,056,619	963,123,759	617,918,353
February 2021	3,337,625,930	963,307,762	619,925,504
March 2021	3,359,749,141	968,110,769	621,388,365
April 2021	3,381,953,875	970,276,941	623,355,096
May 2021	3,405,627,940	973,264,943	625,195,468
June 2021	3,429,649,846	977,482,246	627,279,229
July 2021	3,451,731,167	979,274,826	629,296,049
August 2021	3,467,761,620	980,925,571	631,169,799
September 2021	3,494,115,622	981,063,184	633,410,842
October 2021	3,509,401,674	981,552,856	635,601,779
November 2021	3,528,256,142	984,259,816	638,069,930
December 2021	3,551,498,851	986,390,272	640,766,147
			_
Total	44,543,314,371	12,673,194,563	8,159,590,880
Less 1/2 First & Last Month	3,428,192,397	975,275,945	628,490,233
Total 12 Mos Wtd Average	41,115,121,974	11,697,918,618	7,531,100,647
Monthly Weighted Average	3,426,260,164	974,826,551	627,591,721

REPORT 2 DETERMINATION OF WEIGHTED ADDITIONS DEPRECIATION AND AMORTIZATION RESERVES December 31, 2021

	G-380	G-381	G-382
	A-D	E-I	J-M
December 2020	(2,205,330,684)	(280,923,918)	(210,266,064)
January 2021	(2,210,799,027)	(283,743,326)	(211,921,809)
February 2021	(2,216,549,148)	(286,629,543)	(213,234,055)
March 2021	(2,221,594,701)	(289,471,735)	(214,912,834)
April 2021	(2,227,260,114)	(292,399,269)	(216,566,278)
May 2021	(2,233,543,623)	(295,434,253)	(218,097,236)
June 2021	(2,238,928,279)	(298,538,296)	(219,898,100)
July 2021	(2,244,243,325)	(301,676,906)	(221,254,389)
August 2021	(2,245,114,175)	(304,435,014)	(222,822,790)
September 2021	(2,250,215,369)	(307,360,914)	(224,607,012)

October 2021	(2,255,421,562)	(310,663,046)	(226,433,684)
November 2021	(2,262,168,747)	(313,888,172)	(228,305,005)
December 2021	(2,268,159,414)	(317,191,250)	(230,243,699)
Total	(29,079,328,167)	(3,882,355,644)	(2,858,562,955)
Less 1/2 First & Last Month	(2,236,745,049)	(299,057,584)	(220,254,882)
Total 12 Mos Wtd Average	(26,842,583,118)	(3,583,298,060)	(2,638,308,073)
Monthly Weighted Average	(2,236,881,927)	(298,608,172)	(219,859,006)

REPORT 3 DETERMINATION OF WEIGHTED ADDITIONS CUSTOMER ADVANCES FOR CONSTRUCTION December 31, 2021

	G-380	G-381	G-382
	A-D	E-I	J-M
December 2020	(38,374,973)	(11,195,447)	(7,155,227)
January 2021	(39,095,663)	(11,337,947)	(7,274,169)
February 2021	(39,824,942)	(11,494,301)	(7,397,023)
March 2021	(41,059,343)	(11,831,238)	(7,593,959)
April 2021	(41,831,248)	(12,001,316)	(7,710,254)
May 2021	(42,450,424)	(12,131,539)	(7,792,928)
June 2021	(43,362,356)	(12,358,677)	(7,930,928)
July 2021	(44,072,753)	(12,503,679)	(8,035,043)
August 2021	(45,092,041)	(12,755,184)	(8,207,235)
September 2021	(46,365,026)	(13,018,178)	(8,405,020)
October 2021	(47,136,804)	(13,183,804)	(8,537,135)
November 2021	(48,188,282)	(13,442,842)	(8,714,643)
December 2021	(48,682,882)	(13,521,142)	(8,783,430)
•			
Total	(565,536,738)	(160,775,293)	(103,536,994)
Less 1/2 First & Last Month	(43,528,928)	(12,358,295)	(7,969,329)
Total 12 Mos Wtd Average	(522,007,810)	(148,416,998)	(95,567,666)
Monthly Weighted Average	(43,500,651)	(12,368,083)	(7,963,972)

G-383	TOTAL
N-O	Р
182,522,693	5,067,784,575
182,749,657	5,084,848,387
183,693,038	5,104,552,232
184,186,908	5,133,435,183
184,626,654	5,160,212,567
185,262,942	5,189,351,293
185,595,476	5,220,006,797
186,114,376	5,246,416,418
186,654,160	5,266,511,150
186,925,150	5,295,514,798
187,630,443	5,314,186,752
188,284,652	5,338,870,540
188,953,322	5,367,608,592
2,413,199,469	67,789,299,283
185,738,007	5,217,696,583
2,227,461,462	62,571,602,700
185,621,788	5,214,300,225

G-383	TOTAL
N-O	P
(80,896,899)	(2,777,417,565)
(81,330,018)	(2,787,794,179)
(81,763,770)	(2,798,176,516)
(81,974,416)	(2,807,953,685)
(82,411,574)	(2,818,637,235)
(82,849,791)	(2,829,924,903)
(82,950,989)	(2,840,315,663)
(83,391,476)	(2,850,566,096)
(83,833,279)	(2,856,205,258)
(84,032,209)	(2,866,215,504)

(84,475,887)	(2,876,994,178)
(84,921,406)	(2,889,283,331)
 (85,150,604)	(2,900,744,967)
(1,079,982,317)	(36,900,229,083)
(83,023,751)	(2,839,081,266)
(996,958,566)	(34,061,147,817)
(83,079,880)	(2,838,428,985)

G-383	TOTAL
N-O	P
(2,119,378)	(58,845,026)
(2,151,339)	(59,859,118)
(2,191,847)	(60,908,113)
(2,250,940)	(62,735,480)
(2,283,639)	(63,826,457)
(2,309,263)	(64,684,154)
(2,346,554)	(65,998,514)
(2,376,365)	(66,987,840)
(2,427,104)	(68,481,563)
(2,480,396)	(70,268,620)
(2,520,173)	(71,377,916)
(2,571,558)	(72,917,325)
(2,590,116)	(73,577,570)
(20,619,671)	(960 467 606)
(30,618,671)	(860,467,696)
(2,354,747)	(66,211,298)
(28,263,924)	(794,256,398)
(2,355,327)	(66,188,033)