SDG&E 2024 TCAP

Section 1 Customer Costs Model for LRMC Studies

SDG&E Cost Allocation LRMC Customer Costs Costs Results

A	Residential B	NGV D	CCI C	Total Core E	Total NCCI F	EG Tier 1 G	EG Tier 2 H	Total EG I	Total NonCore J	System Total K
Customer Costs Rental Method	\$269.40	\$1,603.23	\$589.78	\$255.16	\$3,409.03	\$1,588.34	\$4,251.10	\$2,021.63	\$2,539.09	\$279.99
Customer Costs NCO Method	\$100.93	\$410.97	\$233.32	\$80.39	\$1,106.61	\$638.53	\$1,939.44	\$777.84	\$897.70	\$100.75
Customer Costs NCO RCA	\$305.39	\$1,036.98	\$496.60	\$286.72	\$1,039.34	\$601.12	\$1,897.88	\$761.21	\$867.54	\$70.59
Customer Costs 50/50 NCO/RECC	\$287.39	\$1,320.10	\$543.19	\$270.94	\$2,224.19	\$1,094.73	\$3,074.49	\$1,391.42	\$1,703.32	\$175.29

LRMC O&M Loader Model

	Input	Source (1)
O&M w/o A&G HPD	\$1,210.03	LF-O&M Tab
O&M w/o A&G MPD	\$20,501.34	LF-O&M Tab
Marginal Percent of O&M HPD	91.08%	Dist O&M MC
Marginal Percent of O&M MPD	90.38%	Dist O&M MC
Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses	27.94%	LF-A&G Tab
General Plant Loading Factor as a % or O&M expenses	24.95%	LF-GPL Tab
Annualized M&S Customer Related Costs \$000/yr	\$419,448.67	LF-M&S Tab
Annualized M&S HDP Distribution Load Related Costs \$000/yr	\$156,567.14	LF-M&S Tab
Annualized M&S MDP Distribution Load Related Costs \$000/yr	\$606,163.43	LF-M&S Tab
O&M WEF for Escalation	1.06	O&M WEF Tab
Marginal Cust-Rel O&M 870 - Operation Supervision & Engineering 871 - Distribution Load Dispatching 874 - Mains & Services Expenses 875 - Measuring & Regulating Station Expenses 878 - Meter & House Regulator Expenses 879 - Customer Installations Expenses 880 - Other Expenses 881 - Rents 885 - Maint Supervision & Engineering 887 - Maintenance of Mains 888 - Maintenance of Compressor Station Eq	\$3,782 \$19 \$5,421 \$0 \$5,510 \$8,727 \$8,447 \$0 \$0 \$0	Dist O&M MC
889 - Maintenance of Meas. & Reg Station Eq 892 - Maintenance of Services	\$0 \$2,998	Dist O&M MC Dist O&M MC
893 - Maint of Meters & House Regulators	\$2,258	Dist O&M MC
894 - Maintenance of Other Equipment	\$385	Dist O&M MC

Notes:
(1) from "SDGE OM Loaders" file:

			Res			1		Total
	G-R	G-M	G-S	G-T	Total Res	NGV	GN-3	Core
A	В	С	D	E	F	G	Н	ı
Annualized SRM Cost \$/customer/yr 2020\$s	\$202.44	\$202.41	\$202.35	\$202.44	\$202.44	\$1,249.81	\$398.30	\$209.17
O&M \$/customer/yr								
FERC 870 - 894: Distribution O&M (M\$)	\$33,635	\$822	\$23	\$45	\$34,525	\$10	\$3,040	\$24,165
FERC 901 - 910: Customer O&M (M\$)	\$819	\$16	\$0	\$0	\$836	\$0	\$26	\$862
Total Cust-Rel O&M (M\$)	\$34,454	\$838	\$23	\$46	\$35,361	\$10	\$3,066	\$25,027
2016 Number of Customers	847,801	16,309	219	176	864,505	45	26,214	890,764
Cust-Rel O&M per Customer (2016 \$'s)	\$41	\$51	\$105	\$259	\$41	\$216	\$117	\$28
escalator 2016\$'s to 2020\$'s	1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
O&M \$/customer/yr 2020\$s	\$43.21	\$54.62	\$111.25	\$275.36	\$43.49	\$229.53	\$124.35	\$29.87
O&M Loaders:								
Materials & Supplies Loader:								
allocator = total Customer Related O&M as % of total	89.5%	2.2%	0.1%	0.1%	91.8%	0.0%	8.0%	65.0%
Allocated Materials & Supplies Loader (\$'s) \$419,449	\$375,260	\$9,125	\$250	\$496	\$385,131	\$106	\$33,396	\$272,577
2016 Number of Customers	847,801	16,309	219	176	864,505	45	26,214	890,764
M&S Loader per Customer (2016 \$'s)	\$0.44	\$0.56	\$1.14	\$2.82	\$0.45	\$2.35	\$1.27	\$0.31
escalator 2016\$'s to 2020\$'s	1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
M&S Loader \$/customer/yr 2020\$s	\$0.47	\$0.59	\$1.21	\$3.00	\$0.47	\$2.50	\$1.35	\$0.33
Administrative & General as % of O&M	27.94%	27.94%	27.94%	27.94%	27.94%	27.94%	27.94%	27.94%
Administrative & General \$/customer/yr 2020\$'s	\$12.07	\$15.26	\$31.08	\$76.93	\$12.15	\$64.13	\$34.74	\$8.35
General Plant as % of O&M	24.95%	24.95%	24.95%	24.95%	24.95%	24.95%	24.95%	24.95%
General Plant \$/customer/yr 2020\$'s	\$10.78	\$13.62	\$27.75	\$68.69	\$10.85	\$57.26	\$31.02	\$7.45
TOTAL O&M LOADERS \$/customer/yr	\$23.32	\$29.48	\$60.05	\$148.63	\$23.47	\$123.89	\$67.12	\$16.12
LRMC Rental Customer Cost \$/customer/year	\$268.97	\$286.50	\$373.65	\$626.43	\$269.40	\$1,603.23	\$589.78	\$255.16
-	•				\$22.45			
NCO Method: LRMC Rental Customer Cost \$/customer/year					\$269.40	\$1,603.23	\$589.78	\$255.16
less annualized SRM rental					(\$202.44)	(\$1,249.81)	(\$398.30)	(\$209.17)
plus annualized SRM NCO					\$33.97	\$57.55	\$41.85	\$34.40
NCO Customer Cost \$/customer/year					\$100.93	\$410.97	\$233.32	\$80.39
The Gastellion Good production stry sair					\$8.41	\$410.01	+200.02	Ψ00.00
NCO with Recplacement Cost Adder Method:								
LRMC Rental Customer Cost \$/customer/year					\$269.40	\$1,603.23	\$589.78	\$255.16
less annualized SRM rental					(\$202.44)	(\$1,249.81)	(\$398.30)	(\$209.17)
plus annualized SRM					\$238.43	\$683.56	\$305.12	\$240.73
NCO w/ Replacement Customer Cost \$/cstmr/yr					\$305.39	\$1,036.98	\$496.60	\$286.72
					\$25.45			

GTNC MPD	HPD	Total	EG < 3 MM	> 3 MM	Total	Total Noncore	System Total
J	K	L	M	N	0	P	Q
\$2,098.99	\$3,693.07	\$2,369.69	\$987.22	\$2,353.22	\$1,260.42	\$1,671.55	\$209.40
\$22	\$8	\$30	\$18	\$10	\$28	\$57	\$37,633
\$5	\$2	\$7	\$8	\$1	\$9	\$16	\$878
\$27 48	\$10 10	\$37 58	\$26 71	\$12 10	\$38 81	\$74 139	\$38,512
\$565	\$1,016	\$635	\$367	\$1,159	\$465	\$530	890,903 \$43
ֆ505 1.063	1.063	৯৬১১ 1.063	1.063	1.063	ֆ465 1.063	1.063	აყა 1.063
\$600.48	\$1,079.74	\$675.01	\$390.40	\$1,232.60	\$494.38	\$563.43	\$45.96
		·					·
0.1%	0.0%	0.1%	0.1%	0.0%	0.1%	0.2%	100.0%
\$295	\$111	\$401	\$284	\$126	\$410	\$802	\$273,380
48	10	58	71	10	81	139	890,903
\$6.15	\$11.06	\$6.92	\$4.00	\$12.63	\$5.06	\$5.77	\$0.31
1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
\$6.54	\$11.76	\$7.35	\$4.25	\$13.42	\$5.38	\$6.14	\$0.33
27.94%	27.94%	27.94%	27.94%	27.94%	27.94%	27.94%	27.94%
\$167.77	\$301.67	\$188.59	\$109.07	\$344.37	\$138.12	\$157.42	\$12.84
24.95%	24.95%	24.95%	24.95%	24.95%	24.95%	24.95%	24.95%
\$149.80	\$269.36	\$168.39	\$97.39	\$307.49	\$123.33	\$140.56	\$11.46
\$324.11	\$582.78	\$364.33	\$210.72	\$665.29	\$266.84	\$304.11	\$24.63
\$3,023.58	\$5,355.59	\$3,409.03	\$1,588.34	\$4,251.10	\$2,021.63	\$2,539.09	\$279.99
\$3,023.58	\$5,355.59	\$3,409.03	\$1,588.34	\$4,251.10	\$2,021.63	\$2,539.09	\$279.99
(\$2,098.99)	(\$3,693.07)	(\$2,369.69)	(\$987.22)	(\$2,353.22)	(\$1,260.42)	(\$1,671.55)	(\$209.40)
\$67.99	\$63.70	\$67.26	\$37.41	\$41.56	\$16.62	\$30.16	\$30.1
\$992.58	\$1,726.22	\$1,106.61	\$638.53	\$1,939.44	\$777.84	\$897.70	\$100.75
¢2 022 50	¢E 3EE EO	¢2.400.02	¢4 500 24	¢4.054.40	#0.004.60	#2.530.00	¢070.00
\$3,023.58	\$5,355.59	\$3,409.03	\$1,588.34	\$4,251.10	\$2,021.63	\$2,539.09 (\$1,671.55)	\$279.99
(\$2,098.99) \$0.00	(\$3,693.07) \$0.00	(\$2,369.69) \$0.00	(\$987.22) \$0.00	(\$2,353.22) \$0.00	(\$1,260.42) \$0.00	(\$1,671.55) \$0.00	(\$209.40) \$0.0
φυ.υυ	\$1,662.52	\$1,039.34	\$601.12	\$1,897.88	\$761.21	\$867.54	\$70.59

Tab = Cust LRMC

TABLE LRMCC-1 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

METER SET ASSEMBLY (MSA) EXPENSE 2024 TCAP

	Max Meter Flow Range	Meter Type	Meter, Regulator & Fitting Costs	Installation Costs	Total MSA Costs	
	A	В	С	E	F	
	Cfh		(Dollars)	(Dollars)	(Dollars)	
1	Medium Pressure					1 1
2	0-275	250	\$201.92	\$79.05	\$280.97	2
3	276 - 425	425	\$552.79	\$147.95	\$700.73	3
4	426-630	630	\$942.70	\$147.95	\$1,090.64	4
5	631 - 800	8C	\$1,184.83	\$295.89	\$1,480.72	5
6	801 - 1,100	11C	\$1,272.08	\$295.89	\$1,567.97	6
7	1,101 - 1,500	15C	\$1,959.59	\$965.32	\$2,924.91	7
8	1,501 - 2,000	2M	\$3,004.61	\$1,521.50	\$4,526.11	8
9	2,001 - 3,000	3M	\$2,876.82	\$1,521.50	\$4,398.32	9
10	3,001 - 5,000	5M	\$3,818.62	\$1,521.50	\$5,340.12	10
11	5,001 - 7,000	7M	\$4,135.22	\$1,521.50	\$5,656.72	11
12						12
13	High Pressure					13
14	0 - 940	400	\$1,560.80	\$965.32	\$2,526.12	14
15	941 - 1,050	8C	\$3,326.33	\$1,521.50	\$4,847.83	15
16	1,051 - 1,500	630	\$1,950.71	\$965.32	\$2,916.03	16
17	1,501 - 2,700	2M	\$3,498.37	\$1,521.50	\$5,019.87	17
18	2,701 - 4,000	3M	\$3,370.57	\$1,521.50	\$4,892.07	18
19	4,001 - 6,600	5M	\$4,823.01	\$1,736.02	\$6,559.03	19
20	6,601 - 9,200	7M	\$5,428.28	\$1,736.02	\$7,164.29	20
21	9,201 - 14,500	11M	\$5,971.25	\$2,040.68	\$8,011.93	21
22	14,501 - 21,400	16M	\$6,100.56	\$2,040.68	\$8,141.24	22
23	21,401 - 24,000	11M-HP	\$11,792.33	\$4,360.50	\$16,152.84	23
24	24,001 - 46,000	16M-HP	\$12,722.16	\$4,406.99	\$17,129.15	24
25	46,001 - 79,000	23M-HP	\$21,019.90	\$8,145.67	\$29,165.57	25
26	79,001 - 377,000	8" Turbine	\$41,020.86	\$12,055.79	\$53,076.65	26
27	377,001 - 600,000	Turbine			\$0.00	27
28	600,001 - 4,250,000	Turbine			\$0.00	28
29	> 4,250,000	Turbine			\$0.00	29

- Notes:

 1. Col. (F) = Col. (C) + Col. (D) + Col. (E).

 2. MSA costs expressed in Year 2020 \$'s.

 3. Data Source: SDG&E Gas Distribution Engineering Department.

TABLE LRMCC-2 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

WEIGHTED MSA RECC FACTOR **2024 TCAP**

	Max Meter Flow Range	Meter, Regulator, & Fitting Costs	Meter & Regulator RECC Factor	Installation Costs	Installation Costs RECC Factor	Weighted Average RECC Factor	
	A	B B	C	D	E	F	
	Cfh	(Dollars)	(Percent)	(Dollars)	(Percent)	(Percent)	
1	Medium Pressure	(=)	(*)	(=)	(,	()	1
2	0-275	\$201.92	8.02%	\$79.05	8.36%	8.12%	2
3	276 - 425	\$552.79	8.02%	\$147.95	8.36%	8.09%	3
4	426-630	\$942.70	8.02%	\$147.95	8.36%	8.07%	4
5	631 - 800	\$1,184.83	8.02%	\$295.89	8.36%	8.09%	5
6	801 - 1,100	\$1,272.08	8.02%	\$295.89	8.36%	8.08%	6
7	1,101 - 1,500	\$1,959.59	8.02%	\$965.32	8.36%	8.13%	7
8	1,501 - 2,000	\$3,004.61	8.02%	\$1,521.50	8.36%	8.13%	8
9	2,001 - 3,000	\$2,876.82	8.02%	\$1,521.50	8.36%	8.14%	9
10	3,001 - 5,000	\$3,818.62	8.02%	\$1,521.50	8.36%	8.12%	10
11	5,001 - 7,000	\$4,135.22	8.02%	\$1,521.50	8.36%	8.11%	11
12							12
13	High Pressure						13
14	0 - 940	\$1,560.80	8.02%	\$965.32	8.36%	8.15%	14
15	941 - 1,050	\$3,326.33	8.02%	\$1,521.50	8.36%	8.13%	15
16	1,051 - 1,500	\$1,950.71	8.02%	\$965.32	8.36%	8.13%	16
17	1,501 - 2,700	\$3,498.37	8.02%	\$1,521.50	8.36%	8.12%	17
18	2,701 - 4,000	\$3,370.57	8.02%	\$1,521.50	8.36%	8.13%	18
19	4,001 - 6,600	\$4,823.01	8.02%	\$1,736.02	8.36%	8.11%	19
20	6,601 - 9,200	\$5,428.28	8.02%	\$1,736.02	8.36%	8.10%	20
21	9,201 - 14,500	\$5,971.25	8.02%	\$2,040.68	8.36%	8.11%	21
22	14,501 - 21,400	\$6,100.56	8.02%	\$2,040.68	8.36%	8.10%	22
23	21,401 - 24,000	\$11,792.33	8.02%	\$4,360.50	8.36%	8.11%	23
24	24,001 - 46,000	\$12,722.16	8.02%	\$4,406.99	8.36%	8.11%	24
25	46,001 - 79,000	\$21,019.90	8.02%	\$8,145.67	8.36%	8.11%	25
26	79,001 - 377,000	\$41,020.86	8.02%	\$12,055.79	8.36%	8.10%	26
27	377,001 - 600,000					8.10%	27
28	600,001 - 4,250,000					8.10%	28
29	> 4,250,000					8.10%	29

- Notes:
 1. Col. (F) = [Col (B) x Col. (C)] + [Col. (D) x Col. (E)] ÷ [Col. (B) + Col. (D)]
 2. Rows (27) (29): Weighted Average RECC Factor meter & installation weights from Row (26).
 3. Data Source: RECC Factors from Finance Group

TABLE LRMCC-3 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

ANNUALIZED SERVICE, REGULATOR & METER (SRM) MARGINAL INVESTMENT 2024 TCAP

	_		Meter & R					nstallation		Total SRM	
	Max Meter	Meter	M&R	RECC	Annualized	Service	Service	RECC	Annualized	Annualized	
	Flow Range	Туре	Cost	Factor	Marg. Invstmt.	Туре	Cost	Factor	Marg. Invstmt.	Marg. Invstmt.	
	A	В	С	D	E	F	G	Н		J	
	Cfh		(Dollars)	(Percent)	(Dollars)		(Dollars)	(Percent)	(Dollars)	(Dollars)	
1	Medium Pressure										l 1
2	0-275	250	\$281	8.12%	\$23	Poly-1"	\$3,357	7.37%	\$247	\$270	1 ½
3	276 - 425	425	\$701	8.09%	\$57	Poly-1"	\$3,357	7.37%	\$247	\$304	3
4	426-630	630	\$1,091	8.07%	\$88	Poly-1"	\$3,357	7.37%	\$247	\$335	4
5	631 - 800	8C	\$1,481	8.09%	\$120	Poly-1"	\$3,357	7.37%	\$247	\$367	5
6	801 - 1,100	11C	\$1,568	8.08%	\$127	Poly-1"	\$3,357	7.37%	\$247	\$374	6
7	1,101 - 1,500	15C	\$2,925	8.13%	\$238	Poly-1"	\$3,357	7.37%	\$247	\$485	7
8	1,501 - 2,000	2M	\$4,526	8.13%	\$368	Poly-1"	\$3,357	7.37%	\$247	\$616	8
9	2,001 - 3,000	3M	\$4,398	8.14%	\$358	Poly-1"	\$3,357	7.37%	\$247	\$605	9
10	3,001 - 5,000	5M	\$5,340	8.12%	\$433	Poly-2"	\$7,059	7.37%	\$520	\$954	10
11	5,001 - 7,000	7M	\$5,657	8.11%	\$459	Poly-2"	\$7,059	7.37%	\$520	\$979	11
12											12
13	High Pressure										13
14	0 - 940	400	\$2,526	8.15%	\$206	Poly-1"	\$3,357	7.37%	\$247	\$453	14
15	941 - 1,050	8C	\$4,848	8.13%	\$394	Poly-1"	\$3,357	7.37%	\$247	\$641	15
16	1,051 - 1,500	630	\$2,916	8.13%	\$237	Poly-1"	\$3,357	7.37%	\$247	\$485	16
17	1,501 - 2,700	2M	\$5,020	8.12%	\$408	Poly-1"	\$3,357	7.37%	\$247	\$655	17
18	2,701 - 4,000	3M	\$4,892	8.13%	\$397	Poly-2"	\$7,059	7.37%	\$520	\$918	18
19	4,001 - 6,600	5M	\$6,559	8.11%	\$532	Poly-2"	\$7,059	7.37%	\$520	\$1,052	19
20 21	6,601 - 9,200	7M 11M	\$7,164	8.10%	\$580	Poly-2"	\$7,059	7.37%	\$520 \$944	\$1,101	20 21
	9,201 - 14,500		\$8,012	8.11%	\$649	Poly-3"	\$12,815	7.37%		\$1,594	
22 23	14,501 - 21,400	16M	\$8,141	8.10% 8.11%	\$660	Poly-3"	\$12,815	7.37% 7.37%	\$944	\$1,604	22
23	21,401 - 24,000 24.001 - 46.000	11M-HP 16M-HP	\$16,153 \$17,129	8.11%	\$1,310 \$1,389	Poly-4" Poly-4"	\$15,533 \$15,533	7.37%	\$1,145 \$1,145	\$2,455 \$2,533	23 24
24 25	46,001 - 46,000 46,001 - 79,000	23M-HP	\$17,129 \$29,166	8.11%	\$1,389	Steel-4"	\$15,533 \$27,696	7.37%	\$1,145 \$2,041	\$2,533 \$4,408	25
26	79.001 - 377.000	8" Turbine	\$53,077	8.10%	\$4,298	Steel-4 Steel-6"	\$27,090 \$42,055	7.37%	\$3,099	\$4,406 \$7,397	26
27	377,001 - 600,000	Turbine	\$53,077 \$0	8.10%	\$4,296	Steel-8"	\$42,055 \$0	7.37%	\$3,099	\$7,397 \$0	27
28	600.001 - 4.250.000	Turbine	\$0 \$0	8.10%	\$0 \$0	Steel-16"	\$0	7.37%	\$0	\$0 \$0	28
29	> 4,250,000	Turbine	\$0	8.10%	\$0	Steel-10 Steel-24"		7.37%		\$0 \$0	29
23	7 4,230,000	Turbine	Ψ	0.1076	φυ	01001-24		1.31/0		υψ0	23

- Notes:

 1. Col. (E) = Col. (C) x Col. (D). Col. (I) = Col. (G) x Col. (H).

 2. Col. (J) = Col. (E) + Col. (I).

 3. Service Line installation cost (column F & G) provided by SDG&E Gas Distribution Engineering Department

Data Sources: MSA Cost, MSA RECC

 Line Extension Credit, Rule 15, 11/20/2020

 Water Heating
 \$1,138

 Oven/Range
 \$201

 Space Heating
 \$987

 Dryer Stub
 \$289

 Total
 \$2,615

TABLE LRMCC-4 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

MSA ASSIGNMENT FACTORS BY CUSTOMER CLASS 2024 TCAP

	Max Meter Flow Range	Meter	G-R	G-M	Res G-S	G-T	Total	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	EG > 3 MM	Total	Total Noncore	System Total	
	I A	В	O IX	O IVI			C	D	E	F	G	H	I	.l	K	I	N	O	_
	Cfh									•					- 1		.,		\vdash
																			1
1	Medium Pressure		98%	2%	0%	0%													1
2	0-275	250	803,776	12,932	85	5	816,798	11	12,290	829,099	-	-	-	1	-	1	1	829,100	2
3	276 - 425	425	20,676	1,047	29	2	21,754	-	2,071	23,825	-	-	-	-	-	-	-	23,825	3
4	426-630	630	11,102	608	6	7	11,723	-	2,099	13,822	-	-	-	-	-	-	-	13,822	4
5	631 - 800	8C	7,706	545	18	4	8,273	1	2,137	10,411	-	-	-	-	-	-	-	10,411	5
6	801 - 1,100	11C	3,127	467	29	4	3,627	2	1,887	5,516	-	-	-	-	-	-	-	5,516	6
7	1,101 - 1,500	15C	990	206	5	4	1,205	-	1,253	2,458	-	-	-	-	-	-	-	2,458	7
8	1,501 - 2,000	2M	298	88	6	2	394	-	1,255	1,649	-	-	-	34	-	34	34	1,683	8
9	2,001 - 3,000	3M	95	252	17	30	394	2	1,650	2,046	-	-	-	8	-	8	8	2,054	9
10	3,001 - 5,000	5M	17	83	7	52	159	3	756	918	1	-	1	10	-	10	11	929	10
11	5,001 - 7,000	7M	8	27	5	22	62	5	324	391	7	-	7	7	-	7	14	405	11
12																			12
13	High Pressure																		13
14	0 - 940	400	0	0	0	0	-	-	1	1	-	-	-	1	-	1	1	2	14
15	941 - 1,050	8C	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	15
16	1,051 - 1,500	630	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	16
17	1,501 - 2,700	2M	0	0	0	0	-	-	-	-	-	-	-	-					17
18	2,701 - 4,000	3M	0	0	0	0	-	-	-	-	- ,	-		-	1	1	1	1	18
19	4,001 - 6,600	5M	0	0	0	0	-				1	-	1	-			1	1	19
20	6,601 - 9,200	7M	0	0	0	0	-	1	1	2	1 1		1		4	4	5	7	20
21	9,201 - 14,500	11M	2	27	8	31	68		269	337	7	2	9	3	-	3	12	349	21
22	14,501 - 21,400	16M	4	24	3	13	44	11	147	202	15	-	15	1	- ,	1	16	218	22
23	21,401 - 24,000	11M-HP	0	3	1	0	4	3	11	18	4 7	- ,	4	- 0	1	1	5	23	23
24	24,001 - 46,000	16M-HP	0	0	0	0	-	5	52	57	/	4	11	3	1	4	15	72	24
25	46,001 - 79,000	23M-HP	0	0	0	0	-	1	9	10	3	2	5	3	3	ь	11	21	25
26	79,001 - 377,000	8" Turbine	0	0	0	0	-	-	2	2	2	2	4	-	-	-	4	ь	26
27	377,001 - 600,000	Turbine	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	27
28	600,001 - 4,250,000	Turbine	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	28
29	> 4,250,000	Turbine	U	U	U	0		-	-	-	-		-	-	-		-		29
30 31	Total Customers		847,801	16,309	219	176	864,505	45	26,214	890,764	48	10	58	71	10	81	139	890,903	30 31

TABLE MISC-1 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

DEMAND DETERMINANT SUMMARY 2024 TCAP

	1	Res -R G-M G-S G-T Total								GTNC			EG		Power		ı
Billing Determinants	G-R	G-M	G-S	G-T	Total	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Plants	Noncore	System
A	В	C	D	E	F	G	Н	I	J	K	L	M	N	0	P	Q	R
TCAP Customers	857,179	16,489	221	1 178	874,067	28	30,937	905,032	44	9	53	72	18	90	-	143	905,175
2021Customers	847,801	16,309	219	9 176	864,505	45	26,214	890,764	48	10	58	71	10	81	ı	139	890,903

						Non Core				Total Non	
	Demand Forecast per 2017 TCAP in Mtherms	Res	NGV	Core C&I	Total Core	C&I	EG Tier 1	EG Tier 2	Total EG	Core	Total System
1	DIRECT Demand										
2	Transmission										
3	Average Year Throughput (MTh)	0	0	0	0	17,569	5,074	456,289	461,363	478,932	478,932
4	Cold Year Throughput (1-in-35) (MTh)	0	0	0	0	17,569	5,074	456,289	461,363	478,932	478,932
5	Cold Year Peak Month (December) (MTh)	0	0	0	0	1,477	191	35,479	35,670	37,147	37,147
6	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	0	0	0	0	48	6	1,684	1,690	1,738	1,738
7	Number of Customers	0	0	0	0	9	3	12	15	24	24
8	High Pressure										
9	Average Year Throughput (MTh)	67	8,874	3,116	12,057	7,497	3,531	36,209	39,740	47,237	59,294
10	Cold Year Throughput (1-in-35) (MTh)	74	8,874	3,251	12,199	7,497	3,531	36,209	39,740	47,237	59,436
11	Cold Year Peak Month (December) (MTh)	11	721	373	1,105	630	287	3,027	3,314	3,944	5,049
12	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	1	23	18	42	20	9	98	107	127	169
13	Number of Customers	2	4	5	11	9	5	4	9	18	29
14	Medium Pressure										
15	Average Year Throughput (MTh)	313,167	15,255	191,661	520,083	21,879	21,131	7,997	29,127	51,006	571,089
16	Cold Year Throughput (1-in-35) (MTh)	343,334	15,255	199,985	558,574	21,879	21,131	7,997	29,127	51,006	609,580
17	Cold Year Peak Month (December) (MTh)	50,177	1,239	22,957	74,374	1,839	1,767	669	2,435	4,275	78,649
18	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	2,943	40	1,098	4,081	59	57	22	79	138	4,219
19	Number of Customers	874,065	24	30,932	905,021	35	64	2	66	101	905,122
20	CUMULATIVE Demand										
21	Transmission										
22	Average Year Throughput (MTh)	313,234	24.129	194,777	532,140	46.945	29.736	500.494	530.230	577.175	1.109.315
23	Cold Year Throughput (1-in-35) (MTh)	343,408	24,129	203,236	570,773	46,945	29,736	500,494	530,230	577,175	1,147,948
24	Cold Year Peak Month (December) (MTh)	50,188	1,960	23,331	75,479	3,947	2,244	39,175	41,419	45,366	120,845
25	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	2,944	63	1,115	4,123	127	72	1,803	1,876	2,003	6,126
26	Number of Customers	874,067	28	30,937	905,032	53	72	18	90	143	905,175
27	High Pressure	•		•	•						•
28	Average Year Throughput (MTh)	313,234	24,129	194,777	532,140	29,376	24,662	44,206	68,867	98,243	630,384
29	Cold Year Throughput (1-in-35) (MTh)	343,408	24,129	203,236	570,773	29,376	24,662	44,206	68,867	98,243	669,016
30	Cold Year Peak Month (December) (MTh)	50,188	1,960	23,331	75,479	2,470	2,053	3,696	5,749	8,219	83,698
31	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	2,944	63	1,115	4,123	80	66	119	185	265	4,388
32	Number of Customers	874,067	28	30,937	905,032	44	69	6	75	119	905,151
33	Medium Pressure	•		-	*						•
34	Average Year Throughput (MTh)	313,167	15,255	191,661	520,083	21,879	21,131	7,997	29,127	51,006	571,089
35	Cold Year Throughput (1-in-35) (MTh)	343,334	15,255	199,985	558,574	21,879	21,131	7,997	29,127	51,006	609,580
36	Cold Year Peak Month (December) (MTh)	50,177	1,239	22,957	74,374	1,839	1,767	669	2,435	4,275	78,649
37	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	2,943	40	1,098	4,081	59	57	22	79	138	4,219
38	Number of Customers	874,065	24	30,932	905,021	35	64	2	66	101	905,122

TABLE LRMCC-5 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

MSA ASSIGNMENT FACTORS BY CUSTOMER CLASS 2020 TCAP

	Max Meter	Meter	G-R	C.M.	Res G-S	C.T.	Tatal	NGV	GN-3	Total Core	MDD	GTNC HPD	Tatal	- 2 MM	EG	Tatal	Total	System	
	Flow Range	Type B	G-R	G-M	G-S	G-T	Total C	D		Core	MPD G	Н	Total	< 3 MM	> 3 MM	Total	Noncore	Total O I	_
	A Cfh	ь						U	E	Г	G	п	- 1	J	N.		N	-	
	Cili																		i
1	Medium Pressure																		1
2	0-275	250	94.81%	79.29%	38.81%	2.84%	94.48%	24.44%	46.88%	93.08%	0.00%	0.00%	0.00%	1.41%	0.00%	1.23%	0.72%	93.06%	2
3	276 - 425	425	2.44%	6.42%	13.24%	1.14%	2.52%	0.00%	7.90%	2.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.67%	3
4	426-630	630	1.31%	3.73%	2.74%	3.98%	1.36%	0.00%	8.01%	1.55%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.55%	4
5	631 - 800	8C	0.91%	3.34%	8.22%	2.27%	0.96%	2.22%	8.15%	1.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.17%	5
6	801 - 1,100	11C	0.37%	2.86%	13.24%	2.27%	0.42%	4.44%	7.20%	0.62%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.62%	6
7	1,101 - 1,500	15C	0.12%	1.26%	2.28%	2.27%	0.14%	0.00%	4.78%	0.28%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.28%	7
8	1,501 - 2,000	2M	0.04%	0.54%	2.74%	1.14%	0.05%	0.00%	4.79%	0.19%	0.00%	0.00%	0.00%	47.89%	0.00%	41.98%	24.46%	0.19%	8
9	2,001 - 3,000	3M	0.01%	1.55%	7.76%	17.05%	0.05%	4.44%	6.29%	0.23%	0.00%	0.00%	0.00%	11.27%	0.00%	9.88%	5.76%	0.23%	9
10	3,001 - 5,000	5M	0.00%	0.51%	3.20%	29.55%	0.02%	6.67%	2.88%	0.10%	2.08%	0.00%	1.72%	14.08%	0.00%	12.35%	7.91%	0.10%	10
11	5,001 - 7,000	7M	0.00%	0.17%	2.28%	12.50%	0.01%	11.11%	1.24%	0.04%	14.58%	0.00%	12.07%	9.86%	0.00%	8.64%	10.07%	0.05%	11
12																			12
13	High Pressure									/									13
14	0 - 940	400	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.41%	0.00%	1.23%	0.72%	0.00%	14
15	941 - 1,050	8C	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%	0.00%	0.00%	15
16	1,051 - 1,500	630	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%	0.00%	0.00%	16
17	1,501 - 2,700 2,701 - 4,000	2M	0.00%	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%	0.00%	0.00% 0.00%	0.00% 10.00%	0.00% 1.23%	0.00% 0.72%	0.00% 0.00%	17 18						
18 19	2,701 - 4,000 4,001 - 6,600	3M 5M	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.08%	0.00%	1.72%	0.00%	0.00%	0.00%	0.72%	0.00%	19
20	6.601 - 9.200	7M	0.00%	0.00%	0.00%	0.00%	0.00%	2.22%	0.00%	0.00%	2.08%	0.00%	1.72%	0.00%	40.00%	4.94%	3.60%	0.00%	20
21	9,201 - 14,500	11M	0.00%	0.00%	3.65%	17.61%	0.00%	0.00%	1.03%	0.00%	14.58%	20.00%	15.52%	4.23%	0.00%	3.70%	8.63%	0.00%	21
22	14,501 - 21,400	16M	0.00%	0.17%	1.37%	7.39%	0.01%	24.44%	0.56%	0.02%	31.25%	0.00%	25.86%	1.41%	0.00%	1.23%	11.51%	0.04%	22
23	21.401 - 24.000	11M-HP	0.00%	0.02%	0.46%	0.00%	0.00%	6.67%	0.04%	0.02%	8.33%	0.00%	6.90%	0.00%	10.00%	1.23%	3.60%	0.02%	23
24	24.001 - 46.000	16M-HP	0.00%	0.00%	0.00%	0.00%	0.00%	11.11%	0.20%	0.01%	14.58%	40.00%	18.97%	4.23%	10.00%	4.94%	10.79%	0.01%	24
25	46,001 - 79,000	23M-HP	0.00%	0.00%	0.00%	0.00%	0.00%	2.22%	0.03%	0.00%	6.25%	20.00%	8.62%	4.23%	30.00%	7.41%	7.91%	0.00%	25
26	79.001 - 377.000	8" Turbine	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	4.17%	20.00%	6.90%	0.00%	0.00%	0.00%	2.88%	0.00%	26
27	377,001 - 600,000	Turbine	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%	0.00%	0.00%	27
28	600,001 - 4,250,000	Turbine	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%	0.00%	0.00%	28
29	> 4,250,000	Turbine	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%	0.00%	0.00%	29
30	Tatal Customers		100.0004	100.000/	100.000/	100.000/	400.000/	100.000/	400.000/	100.000/	100.000/	400.000/	100.000/	400.000/	100.000/	100.000/	100.000/	100.000/	30
31	Total Customers		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	31

Notes:

^{1.} Factors derived from meter capacity analysis results in Table "LRMCC-4" (tab MSAllocv1)
Data Sources: Tabs: MSA Cost, MSAlloc v1

TABLE LRMCC-6 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

FORECAST CUSTOMERS BY METER TYPE BY CUSTOMER CLASS 2020 TCAP

	Max Meter	Meter			Res					Total		GTNC	-		EG		Power	Total	System	
	Flow Range	Туре	G-R	G-M	G-S	G-T	Total	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Plant	Noncore	Total	
	A	В					С	D	E	F	G	Н	ı	J	K	L	М	N	0	Ь—
	Cfh																			i
	M. J D																			١.
1	Medium Pressure 0-275	250	040.007	12.075	00		005 000	7	44.504	040 044						1			040.045	1
2	0-275 276 - 425	250 425	812,667	13,075	86	5	825,833	/	14,504	840,344	-	-	-	1	-	'	-	'	840,345	1 2
3	426-630	630	20,905 11,225	1,059 615	29	2	21,995 11,853	-	2,444 2,477	24,439 14,330	-	-	-	-	-	-	-	[24,439 14,330	3
-	631 - 800	8C	7,791	551	18	1	8,365	- 1	2,522	10,887	-	-	-	-	-	-	_		10,887	
5	801 - 1.100	11C	3,162	472	29	4	3,667	1	2,322	5,895	-	-	-	-	-	-	_	:	5,895	2
7	1,101 - 1,500	15C	1,001	208	29	4	1,218	,	1,479	2,697	-	-	-	_	-	-	-	[2,697	, ,
,	1,501 - 2,000	2M	301	89	5	2	398	-	1,479	1,879	-	-	-	34	-	34	-	34	1,914	6
å	2,001 - 3,000	3M	96	255	17	30	398	- 1	1,947	2,347	_	-		β .	-	8		β 34	2,355	ů
10	3,001 - 5,000	5M	17	84	7	53	161	2	892	1,055	1	-	- 1	10	=	10	_	11	1,066	10
11	5,001 - 7,000	7M	8	27	5	22	63	3	382	448	6		6	7		7		14	462	11
12	3,001 - 7,000	/ IVI	U	21	3	22	05	3	302	440	0		U	,		′		'~	402	12
13	High Pressure																			13
14	0 - 940	400	-	-	-	-	_	-	1	1	-	-	-	1	-	1	_	1	2	14
15	941 - 1.050	8C	_	_	_	_	-	-		_ `	_	-	_	_ `	_	_ '	_	_ `		15
16	1,051 - 1,500	630	-	-	-	-	-	-	_	-	_	-	-	-	-	-	-	- 1	_	16
17	1,501 - 2,700	2M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	17
18	2,701 - 4,000	зм	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	2	2	18
19	4,001 - 6,600	5M	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	1	1	19
20	6,601 - 9,200	7M	-	-	-	-	-	1	1	2	1	-	1	-	7	7	-	8	10	20
21	9,201 - 14,500	11M	2	27	8	31	69	-	317	386	6	2	8	3	-	3	-	11	397	21
22	14,501 - 21,400	16M	4	24	3	13	44	7	173	225	14	-	14	1	-	1	-	15	239	22
23	21,401 - 24,000	11M-HP	-	3	1	-	4	2	13	19	4	-	4	-	2	2	-	5	24	23
24	24,001 - 46,000	16M-HP	-	-	-	-	-	3	61	64	6	4	10	3	2	5	-	15	79	24
25	46,001 - 79,000	23M-HP	-	-	-	-	-	1	11	11	3	2	5	3	5	8	-	13	24	25
26	79,001 - 377,000	8" Turbine	-	-	-	-	-	-	2	2	2	2	4	-	-	-	-	4	6	26
27	377,001 - 600,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
28	600,001 - 4,250,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
29	> 4,250,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29
30 31	Total Customers		857,179	16,489	221	178	874,067	28	30,937	905,032	44	9	53	72	18	90	-	143	905,175	30 31

Notes:

Row (31) = forecast annual average number of customers during proposed 2020 - 2022 TCAP period

2. Rows (2) - (29) = Row (31) x MSA assignment factors for each market segment for each flow range.

verify 857,179 16,489 221 178 874,067 28 30,937 905,032 44 9 53 72 18 90 - 143 905,175 Data Sources: tabs: MSA Cost, MSAlloc v2

Data Sources, tabs, MSA Cost, MSAffoc V2

TABLE LRMCC-7 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

ANNUALIZED SRM MARGINAL INVESTMENT BY CUSTOMER CLASS 2020 TCAP

	Max Meter	Meter			Res					Total		GTNC			EG		Power	Total	System	
	Flow Range	Туре	G-R	G-M	G-S	G-T	Total	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Plant	Noncore	Total	
	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	
	Cfh										1	(Doll	ars)							1
																				1
1	Medium Pressure																			1
2	0-275	250	\$164,536,836	\$2,647,243	\$17,400	\$1,024	\$167,202,502	\$1,825	\$3,918,606	\$171,122,933	\$0	\$0	\$0	\$274	\$0	\$274	\$0	\$274	\$171,123,207	2
3	276 - 425	425	\$4,225,978	\$213,997	\$5,927	\$409	\$4,446,311	\$0	\$743,179	\$5,189,491	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,189,491	3
4	426-630	630	\$2,265,392	\$124,064	\$1,224	\$1,428	\$2,392,109	\$0	\$830,690	\$3,222,799	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,222,799	4
5	631 - 800	8C	\$1,574,644	\$111,365	\$3,678	\$817	\$1,690,504	\$225	\$925,892	\$2,616,622	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$2,616,622	5
-	801 - 1,100	11C	\$638,815	\$95,404	\$5,924	\$817	\$740,960	\$460	\$833,158	\$1,574,578	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$1,574,578	l °
,	1,101 - 1,500 1,501 - 2,000	15C 2M	\$202,874 \$61,075	\$42,214 \$18,036	\$1,025 \$1,230	\$820 \$410	\$246,932 \$80,750	\$0 \$0	\$717,510 \$911,643	\$964,442 \$992,394	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$21,222	\$0 \$0	\$0 \$21,222	\$0 \$0	\$0 \$21,222	\$964,442 \$1,013,616	
9	2,001 - 3,000	2M 3M	\$61,075 \$19,474	\$18,036 \$51,658	\$1,230 \$3,485	\$410 \$6,150	\$80,750 \$80,768	\$0 \$744	\$911,643	\$992,394	\$0 \$0	\$0 \$0	\$0 \$0	\$21,222 \$4,910	\$0 \$0	\$4,910	\$0 \$0	\$21,222 \$4,910	\$1,013,616	ů
10	3,001 - 5,000	5M	\$3,480	\$16,992	\$3,465 \$1,433	\$10,645	\$32,551	\$1,757	\$850,884	\$885,192	\$874	\$0 \$0	\$874	\$4,910	\$0 \$0	\$9,671	\$0 \$0	\$4,910	\$895,737	10
11	5,001 - 7,000	7M	\$1,637	\$5,526	\$1,433	\$4,502	\$12,688	\$3,007	\$374,373	\$390,068	\$6,282	\$0	\$6,282	\$6,950	\$0	\$6,950	\$0	\$13,232	\$403,301	11
12	5,001 - 7,000	/ IVI	φ1,037	φ5,520	\$1,023	φ4,502	\$12,000	\$3,007	φ3/4,3/3	\$390,000	φ0,202	φU	\$0,202	\$0,930	φυ	φ0,930	φ0	φ13,232	\$403,301	12
13	High Pressure																			13
14	0 - 940	400	\$0	\$0	\$0	\$0	\$0	\$0	\$535	\$535	\$0	\$0	\$0	\$460	\$0	\$460	\$0	\$460	\$995	14
15	941 - 1,050	8C	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	15
16	1,051 - 1,500	630	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	16
17	1,501 - 2,700	2M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	17
18	2,701 - 4,000	3M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,652	\$1,652	\$0	\$1,652	\$1,652	18
19	4,001 - 6,600	5M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$964	\$0	\$964	\$0	\$0	\$0	\$0	\$964	\$964	19
20	6,601 - 9,200	7M	\$0	\$0	\$0	\$0	\$0	\$676	\$1,299	\$1,975	\$1,009	\$0	\$1,009	\$0	\$7,925	\$7,925	\$0	\$8,934	\$10,909	20
21	9,201 - 14,500	11M	\$409	\$5,524	\$1,637	\$6,342	\$13,912	\$0	\$505,998	\$519,910	\$10,227	\$2,869	\$13,096	\$4,849	\$0	\$4,849	\$0	\$17,945	\$537,855	21
22	14,501 - 21,400	16M	\$818	\$4,910	\$614	\$2,659	\$9,001	\$10,839	\$278,311	\$298,150	\$22,058	\$0	\$22,058	\$1,627	\$0	\$1,627	\$0	\$23,685	\$321,836	22
23	21,401 - 24,000	11M-HP	\$0	\$614	\$205	\$0	\$819	\$4,524	\$31,870	\$37,212	\$9,002	\$0	\$9,002	\$0	\$4,419	\$4,419	\$0	\$13,421	\$50,633	23
24	24,001 - 46,000	16M-HP	\$0	\$0	\$0	\$0	\$0	\$7,780	\$155,474	\$163,254	\$16,256	\$9,120	\$25,377	\$7,707	\$4,560	\$12,268	\$0	\$37,644	\$200,898	24
25	46,001 - 79,000	23M-HP	\$0	\$0	\$0	\$0	\$0	\$2,707	\$46,817	\$49,524	\$12,121	\$7,934	\$20,055	\$13,409	\$23,802	\$37,211	\$0	\$57,266	\$106,790	25
26	79,001 - 377,000		\$0	\$0	\$0	\$0	\$0	\$0	\$17,459	\$17,459	\$13,561	\$13,314	\$26,875	\$0	\$0	\$0	\$0	\$26,875	\$44,334	26
27	377,001 - 600,000	Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	27
28	600,001 - 4,250,000	Turbine																		28
29	> 4,250,000	Turbine												*						29
30	Total		\$173,531,434	\$3,337,546	\$44,805	\$36,024	\$176,949,808		\$12,322,315	\$189,306,666	\$92,356		\$125,593	\$71,080	\$42,358	\$113,438	\$0	\$239,031	\$189,545,697	30
31	Forecast Customers		857,179	16,489	221	178	874,067	28	30,937	905,032	44	9	53	72	18	90	-	143	905,175	31
32 33	Average SRM Cost		\$202	\$202	\$202	\$202	\$202	\$1,250	\$398	\$209	\$2,099	\$3,693	\$2,370	\$987	\$2,353	\$1,260	\$0	\$1,672	\$209	32 33

Notes:

1. Rows (2) - (29) = SRM Annualized Marginal Investment x Number of MSA's per Customer Segment for each particular flow range.

2. Row (33) = Row (30) ÷ Row (31).

Data Sources: tabs: MSA Fcst, MSA Rental, Factors

TABLE LRMCC-8 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

ALLOCATION OF CUSTOMER-RELATED DISTRIBUTION O&M EXPENSES BY CUSTOMER CLASS 2024 TCAP $$\rm 10^{12}\,M_{\odot}$$

		Marginal			Res					Total		GTNC			EG		Total	System
	Distribution O&M Account	O&M	G-R	G-M	G-S	G-T	Total	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Noncore	Total
	A	В					С	D	E	F	G	Н	I	J	K	L	N	0
1																		
2	Allocator - Total of other Distribution O&M Operating	56%	87%	2%	0%	0%	89%	0%	8%	55%	0%	0%	0%	0%	0%	0%	0%	98%
3	Allocation (M\$)	\$3,782	\$3,297	\$80	\$2	\$4	\$3,384	\$1	\$304	\$2,098	\$2	\$1	\$3	\$2	\$1	\$3	\$5	\$3,694
4	871 - Distribution Load Dispatching = Non-Marginal Designation																	
5 6 7	Allocator - Customers Wtd by Services costs Allocation (M\$)	100% \$5,421	94% \$5,110	2% \$100	0% \$2	0% \$2	96% \$5,214	0% \$0	4% \$203	100% \$5,418	0% \$1	0% \$0	0% \$1	0% \$1	0% \$0	0% \$1	0% \$3	100% \$5,421
8	875 - Meas & Reg Station Exp = 100% Demand-Related																	
9 10 11	Allocator - Customers Wtd by Meters & Regs costs Allocation (M\$)	100% \$5.510	82% \$4,517	3% \$161	0% \$7	0% \$15	85% \$4,699	0% \$3	14% \$782	100% \$5,485	0% \$9	0% \$4	0% \$13	0% \$8	0% \$5	0% \$12	0% \$25	100% \$5,510
12 13	Allocator - Customer Service Expense	0%	86%	2%	0%	0%	88%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	95%
14	Allocation (M\$)	\$8,727	\$7,507	\$157	\$3	\$5	\$7,673	\$1	\$593	\$0	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$8,268
15 16 17 18	Allocator - Total of other Distribution O&M Operating Allocation (M\$) 881 - Rents = Non-Marginal Designation	56% \$8,447	87% \$7,362	2% \$180	0% \$5	0% \$10	89% \$7,557	0% \$2	8% \$678	55% \$4,685	0% \$5	0% \$2	0% \$6	0% \$4	0% \$2	0% \$6	0% \$12	98% \$8,249
19 20 21	Allocator - Total Other Distribution O&M Maintenance Allocation (M\$)	100%	90%	2% \$0	0% \$0	0% \$0	92% \$0	0% \$0	7% \$0	100%	0% \$0	0% \$0	0% \$0	0% \$0	0% \$0	0% \$0	0% \$0	100%
22 23 24	Allocation (M\$) Allocation (M\$)	100% \$1,237	94% \$1,166	2% \$23	0% \$0	0% \$1	96% \$1,189	0% \$0	4% \$46	100% \$1,236	0% \$0	0% \$0	0% \$0	0% \$0	0% \$0	0% \$0	0% \$1	100% \$1,237
25	888 - Maint. Of Compressor Station Eq = 100% Demand-Related																	
26 27	889 - Maint. of Meas. & Reg Station Eq = 100% Demand-Related																	
28	Allocator - Customers Wtd by Services costs	100%	94%	2%	0%	0%	96%	0%	4%	100%	0%	0%	0%	0%	0%	0%	0%	100%
29	Allocation (M\$)	\$2,998	\$2,826	\$55	\$1	\$1	\$2,884	\$0	\$112	\$2,996	\$1	\$0	\$1	\$0	\$0	\$1	\$2	\$2,998
30 31 32	Allocator - Customers Wtd by Meters & Regs costs Allocation (M\$)	100% \$2,258	82% \$1,851	3% \$66	0% \$3	0% \$6	85% \$1,926	0% \$1	14% \$320	100% \$2,248	0% \$4	0% \$1	0% \$5	0% \$3	0% \$2	0% \$5	0% \$10	100% \$2,258
33	894 - Maint. of Other Eq = Non-Marginal Designation																	
	Total 870 - 894 O&M Allocation (M\$) Allocation %	\$38,379 100%	\$33,635 88%	\$822 2%	\$23 0%	\$45 0%	\$34,525 90%	\$10 0%	\$3,040 8%	\$24,165 63%	\$22 0%	\$8 0%	\$30 0%	\$18 0%	\$10 0%	\$28 0%	\$57 0%	\$37,633 98%

Notes

- Col. (B) from Customer-Related expense section of Workpapers Table "LF-3". (tab Loader Input)
- 2. Allocation Factors for FERC Accounts 870 894 from Workpapers Table "LRMCC-9" (tab 870-894 Fctrs)

Data Sources: tab: Loader Input, 870-894 Fctrs

TABLE LRMCC-9 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

Allocation Factors for Distribution O&M Expenses 2020 TCAP

	Allocation Method	G-R	G-M	Res G-S	G-T	Total	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	EG > 3 MM	Total	Total Noncore	System Total	
	A	В	С	D	E	F	G	Н	ı	J	K	L	M	N	0	Р	Q	
1 2 3 4	874, 887, 892 - Services Allocator - Customers Wtd by Services costs (M\$) Alloc %	\$2,877,322 94%	\$56,284 2%	\$906 0%	\$1,295 0%	\$2,935,806 96%	\$252 0%	\$114,464 4%	\$3,050,523 100%	\$633 0%	\$205 0%	\$838 0%	\$455 0%	\$269 0%	\$724 0%	\$1,562 0%	\$3,052,084 100%	1 2 3 4
5 6 7 8	878, 893 - Meters & House Regulators O&M Expense Allocator - Customers Wtd by Meters & Regs costs (M\$) Alloc %	\$276,621 82%	\$9,843 3%	\$414 0%	\$942 0%	\$287,820 85%	\$197 0%	\$47,900 14%	\$335,917 100%	\$564 0%	\$224 0%	\$788 0%	\$462 0%	\$278 0%	\$740 0%	\$1,528 0%	\$337,445 100%	5 6 7 8
9 10 11	879 - Customer Installations (MS) Allocator - Customer Service Alloc %	\$9,991 86.0%	\$209 1.8%	\$4 0.0%	\$7 0.1%	\$10,211 87.9%	\$2 0.0%	\$789 6.8%	\$11,003	\$0 0.0%	\$0 0.0%	\$0	\$0 0.0%	\$0 0.0%	\$0 0.0%	\$0 0.0%	\$11,615 95%	9 10 11

Data Sources: tab: M&HR Alloc

TABLE LRMCC-10 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

ALLOCATION OF CUSTOMER O&M EXPENSES BY CUSTOMER CLASS 2020 TCAP $\,$

		Total	l			Total	I	GTNC		I	EG		1	Total	System	
	O&M Operational Activity	M&O	Res	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	IPP	Noncore	Total	
	A	В	C	D	E	F	G	Н		J	K	L	M	N	0	
	FIELD SERVICES Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1
	CUSTOMER CONTACT Total	\$9,845	\$9,269	\$0	\$576	\$9,845	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,845	2
3	METER READING Total	\$120,838	\$117,160	\$6	\$3,652	\$120,818	\$7	\$2	\$9	\$10	\$1	\$11	\$0	\$20	\$120,838	3
4	BILLING SERVICES Total	\$397,794	\$370,009	\$18	\$11,535	\$381,562	\$5,339	\$1,741	\$7,079	\$8,063	\$1,089	\$9,152	\$0	\$16,232	\$397,794	4
5	CREDIT & COLLECTIONS Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	5
6	BUSINESS ANALYSIS Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	6
7	CUSTOMER RESEARCH & COMMUNICATION Total	\$157,128	\$152,347	\$8	\$4,749	\$157,104	\$8	\$2	\$10	\$13	\$2	\$14	\$0	\$24	\$157,128	7
8	CUSTOMER SERVICE TECHNOLOGY & SUPPORT Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	8
9	C&I CUSTOMER SERVICE Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	9
10	CONSUMER PROGRAMS & SERVICES Total	\$192,630	\$186,767	\$9	\$5,822	\$192,599	\$10	\$3	\$14	\$15	\$2	\$18	\$0	\$31	\$192,630	10
11	FEDERAL ACCOUNTS MANAGEMENT Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	11
12	CUSTOMER SERVICES SUPPORT STAFF Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	12
13	COMMUNITY OUTREACH & INFO SERVICES Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	13
14	OTHER Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	14
15	SVP COST CENTERS Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	15
16																16
17	Total	\$878,235	\$835,552	\$41	\$26,335	\$861,928	\$5,364	\$1,748	\$7,112	\$8,101	\$1,094	\$9,196	\$0	\$16,307	\$878,235	17
18	Allocation %	100%	95%	0%	3%	98%	1%	0%	1%	1%	0%	1%	0%	2%	100%	18

Note:
1. O&M Operational Activities cost assigned using allocation methods identified for each SDG&E department in the Customer Operations division.

Source: From file: SDGE 2020TCAP LRMC OM Loaders.x/s Tab: LRMCC-O&M Summary

TABLE LRMCC-backup.1 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

O&M ALLOCATION FACTOR: Number of Customers Weighted by Service Line Cost 2020 TCAP

	Max Meter Flow Range	Meter Type	Services Plant Investment	G-R	G-M	Res G-S	G-T	Total	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	EG > 3 MM	Total	Total Noncore	System Total	
_	A A	Туре	riivestilielit	Q-IX	G-IVI	G-3	G	I Otal	INGV	014-3	L/	I	M	N	O	- 3 IVIIVI	Q	D	S I	_
	Cfh	ь								(Thousand	Dollare)		IVI	IN		- г	Q	IX.		_
	OIII		İ					1		(Triousanu	Donars,			1			1	1		
1	Medium Pressure																			1
2	0-275	250	\$3	\$2,727,764	\$43,887	\$288	\$17	\$2,771,956	\$23	\$48,684	\$2,820,663	\$0	\$0	\$0	\$3	\$0	\$3	\$3	\$2,820,667	2
3	276 - 425	425	\$3	\$70,168	\$3,553	\$98	\$7	\$73.826	\$0	\$8.204	\$82,030	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$82,030	3
4	426-630	630	\$3	\$37,677	\$2,063	\$20	\$24	\$39,784	\$0	\$8,315	\$48,099	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$48,099	4
5	631 - 800	8C	\$3	\$26,152	\$1,850	\$61	\$14	\$28,076	\$2	\$8,465	\$36,543	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$36,543	5
6	801 - 1,100	11C	\$3	\$10,612	\$1,585	\$98	\$14	\$12,309	\$4	\$7,475	\$19,788	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,788	6
7	1,101 - 1,500	15C	\$3	\$3,360	\$699	\$17	\$14	\$4,089	\$0	\$4,964	\$9,053	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,053	7
8	1,501 - 2,000	2M	\$3	\$1,011	\$299	\$20	\$7	\$1,337	\$0	\$4,971	\$6,309	\$0	\$0	\$0	\$116	\$0	\$116	\$116	\$6,424	8
9	2,001 - 3,000	3M	\$3	\$322	\$855	\$58	\$102	\$1,337	\$4	\$6,536	\$7,877	\$0	\$0	\$0	\$27	\$0	\$27	\$27	\$7,905	9
10	3,001 - 5,000	5M	\$7	\$121	\$592	\$50	\$371	\$1,135	\$13	\$6,298	\$7,446	\$6	\$0	\$6	\$72	\$0	\$72	\$78	\$7,524	10
11	5,001 - 7,000	7M	\$7	\$57	\$193	\$36	\$157	\$443	\$22	\$2,699	\$3,164	\$45	\$0	\$45	\$50	\$0	\$50	\$95	\$3,259	11
12																				12
	High Pressure	100										***								13
14	0 - 940	400	\$3	\$0	\$0	\$0	\$0	\$0	\$0	\$4	\$4	\$0	\$0 \$0	\$0	\$3	\$0	\$3	\$3	\$7	14
15	941 - 1,050 1.051 - 1.500	8C 630	\$3	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	15
16 17	1,051 - 1,500	2M	\$3 \$3	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	16
18	2.701 - 4.000	3M	\$3 \$7	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$U	\$U	\$0 60	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$13	\$13	\$13	\$13	18
19	4.001 - 6.600	5M	\$7 \$7	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0	\$6	\$0 \$0	\$6 \$6	\$0 \$0	\$13	\$0	\$6	\$6	19
20	6.601 - 9.200	7M	\$7	\$0	\$0 \$0	\$0	\$0 \$0	\$0	\$4	\$8	\$13	\$6	\$0	\$6	\$0	\$51	\$51	\$57	\$70	20
21	9.201 - 14.500	11M	\$13	\$26	\$350	\$104	\$402	\$881	\$0	\$4,068	\$4,949	\$82	\$23	\$105	\$39	\$0	\$39	\$144	\$5,094	21
22	14.501 - 21.400	16M	\$13	\$52	\$311	\$39	\$168	\$570	\$87	\$2,223	\$2,880	\$176	\$0	\$176	\$13	\$0	\$13	\$189	\$3,069	22
23	21.401 - 24.000	11M-HP	\$16	\$0	\$47	\$16	\$0	\$63	\$29	\$202	\$293	\$57	\$0	\$57	\$0	\$28	\$28	\$85	\$378	23
24	24.001 - 46.000	16M-HP	\$16	\$0	\$0	\$0	\$0	\$0	\$48	\$953	\$1,001	\$100	\$56	\$156	\$47	\$28	\$75	\$231	\$1,232	24
25	46,001 - 79,000	23M-HP	\$28	\$0	\$0	\$0	\$0	\$0	\$17	\$294	\$311	\$76	\$50	\$126	\$84	\$150	\$234	\$360	\$671	25
26	79,001 - 377,000	8" Turbine	\$42	\$0	\$0	\$0	\$0	\$0	\$0	\$99	\$99	\$77	\$76	\$153	\$0	\$0	\$0	\$153	\$252	26
27	377,001 - 600,000	Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	27
28	600,001 - 4,250,000	Turbine																		28
29	> 4,250,000	Turbine																		29
30 31	Total		N/A	\$2,877,322	\$56,284	\$906	\$1,295	\$2,935,806	\$252	\$114,464	\$3,050,523	\$633	\$205	\$838	\$455	\$269	\$724	\$1,562	\$3,052,084	30 31

Data Sources: tabs: MSA Cost, MSA Fcst MSA Rental

Note:
1. Rows (2) - (31) = Gross Service Line Capital Investment Cost (Table LRMCC-3) x Number of Services per Customer Segment for each particular flow range (Table LRMCC-6).

TABLE LRMCC-backup.2 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

O&M ALLOCATION FACTOR: Number of Customers Weighted by MSA Cost 2020 TCAP

	Max Meter Flow Range	Meter Type	MSA Capital Investment	G-R	G-M	Res G-S	G-T	Total	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	EG > 3 MM	Total	Total Noncore	System Total	
		Туре	IIIVestilielit	0-1/	G-IVI	G-3	G	U	INGV	GIV=3	V Core	IVIFD	M	N	0	P	O	Noncore	10tai	_
\rightarrow	A Cfh		C	U		Г		п		(Thousand I	Dollars)	L	IVI	IN			ų ,	R	<u> </u>	-
	Cili		1					1		(Triousariu i	Dollais)	I		1			1	1		1
1 /	Medium Pressure																			1 1
2 1	0-275	250	\$0	\$228,336	\$3,674	\$24	\$1	\$232,035	\$2	\$4.075	\$236,112	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$236,112	2
3	276 - 425	425	\$1	\$14.649	\$742	\$21	\$1	\$15,412	\$0	\$1.713	\$17.125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,125	3
4	426-630	630	\$1	\$12,242	\$670	\$7	\$8	\$12,927	\$0	\$2,702	\$15.629	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,629	4
5	631 - 800	8C	\$1	\$11,537	\$816	\$27	\$6	\$12,386	\$1	\$3.734	\$16,121	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,121	5
6	801 - 1.100	11C	\$2	\$4.957	\$740	\$46	\$6	\$5,750	\$2	\$3,492	\$9,244	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,244	6
7	1,101 - 1,500	15C	\$3	\$2,928	\$609	\$15	\$12	\$3,564	\$0	\$4,325	\$7,889	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,889	7
8	1,501 - 2,000	2M	\$5	\$1,364	\$403	\$27	\$9	\$1,803	\$0	\$6,704	\$8,507	\$0	\$0	\$0	\$156	\$0	\$156	\$156	\$8,663	8
9	2,001 - 3,000	3M	\$4	\$422	\$1,121	\$76	\$133	\$1,752	\$5	\$8,565	\$10,322	\$0	\$0	\$0	\$36	\$0	\$36	\$36	\$10,358	9
10	3,001 - 5,000	5M	\$5	\$92	\$448	\$38	\$281	\$858	\$10	\$4,764	\$5,633	\$5	\$0	\$5	\$54	\$0	\$54	\$59	\$5,692	10
11	5,001 - 7,000	7M	\$6	\$46	\$154	\$29	\$126	\$355	\$17	\$2,163	\$2,535	\$36	\$0	\$36	\$40	\$0	\$40	\$76	\$2,611	11
12																				12
	ligh Pressure																			13
14	0 - 940	400	\$3	\$0	\$0	\$0	\$0	\$0	\$0	\$3	\$3	\$0	\$0	\$0	\$3	\$0	\$3	\$3	\$6	14
15	941 - 1,050	8C	\$5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	15
16	1,051 - 1,500	630	\$3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	16
17	1,501 - 2,700	2M	\$5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	17
18	2,701 - 4,000	3M	\$5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9	\$9	\$9	\$9	18
19	4,001 - 6,600 6,601 - 9,200	5M	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6	\$0	\$6	\$0	\$0	\$0	\$6	\$6	19
20 21	9,201 - 9,200	7M 11M	\$7 \$8	\$0 \$16	\$0 \$219	\$0 \$65	\$0 \$251	\$0 \$551	\$4 \$0	\$8 \$2,544	\$13 \$3,094	\$7 \$51	\$0 \$14	\$7 \$66	\$0 \$24	\$52 \$0	\$52 \$24	\$58 \$90	\$71 \$3.185	20 21
21	14.501 - 21.400	16M	\$8	\$33	\$198	\$25	\$107	\$362	\$55	\$2,544	\$1,830	\$112	\$0	\$112	\$24 \$8	\$0 \$0	\$8	\$120	\$1,950	22
23	21.401 - 24.000	11M-HP	\$16	\$33 \$0	\$190 \$49	\$25 \$16	\$107	\$65	\$30	\$210	\$1,630	\$112 \$59	\$0	\$59	\$0 \$0	\$29	\$29	\$88	\$393	23
24	24.001 - 46.000	16M-HP	\$17	90	\$0	\$0	\$0	\$0	\$53	\$1,051	\$1,104	\$110	\$62	\$172	\$52	\$31	\$83	\$255	\$1,358	24
25	46.001 - 79.000	23M-HP	\$29	\$0	\$0	\$0	\$0	\$0	\$18	\$310	\$328	\$80	\$52	\$133	\$89	\$157	\$246	\$379	\$707	25
26	79.001 - 377.000	8" Turbine	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$125	\$125	\$97	\$96	\$193	\$0	\$0	\$0	\$193	\$318	26
27	377.001 - 600.000	Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	27
28	600.001 - 4.250.000	Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	28
29	> 4.250,000	Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	29
30	.,=,		7	**		**	**			**			**				7.7	**	**	30
31	Total		N/A	\$276,621	\$9,843	\$414	\$942	\$287,820	\$197	\$47,900	\$335,917	\$564	\$224	\$788	\$462	\$278	\$740	\$1,528	\$337,445	31

Data Sources: tabs: MSA Cost, MSA Fcst

Note:
1. Rows (2) - (31) = Gross MSA Capital Investment Cost (Table LRMCC-1) x Number of MSA's per Customer Segment for each particular flow range (Table LRMCC-6).

TABLE LRMCC-nco.1 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

WEIGHTED MSA PVRR FACTOR 2024 TCAP

Max Meter Flow Range A Cfh Medium Pressure	Regulator, & Fitting Costs B (Dollars)	Regulator PVRR Factor	Installation Costs	Costs PVRR Factor	Average PVRR Factor	
A Cfh Medium Pressure	В	С		PVRR Factor	PVRR Factor	
Cfh Medium Pressure			D			
Medium Pressure	(Dollars)	(B)		E	F	
		(Percent)	(Dollars)	(Percent)	(Percent)	
0.275						1
0-213	\$201.92	132.96%	\$79.05	124.49%	130.58%	2
276 - 425	\$552.79	132.96%	\$147.95	124.49%	131.17%	3
426-630	\$942.70	132.96%	\$147.95	124.49%	131.81%	4
631 - 800	\$1,184.83	132.96%	\$295.89	124.49%	131.27%	5
801 - 1,100	\$1,272.08	132.96%	\$295.89	124.49%	131.36%	6
1,101 - 1,500	\$1,959.59	132.96%	\$965.32	124.49%	130.17%	7
1,501 - 2,000	\$3,004.61	132.96%	\$1,521.50	124.49%	130.11%	8
2,001 - 3,000	\$2,876.82	132.96%	\$1,521.50	124.49%	130.03%	9
3,001 - 5,000	\$3,818.62	132.96%	\$1,521.50	124.49%	130.55%	10
5,001 - 7,000	\$4,135.22	132.96%	\$1,521.50	124.49%	130.68%	11
						12
High Pressure						13
0 - 940	\$1,560.80	132.96%	\$965.32	124.49%	129.72%	14
941 - 1,050	\$3,326.33	132.96%	\$1,521.50	124.49%	130.30%	15
1,051 - 1,500	\$1,950.71	132.96%	\$965.32	124.49%	130.16%	16
1,501 - 2,700	\$3,498.37	132.96%	\$1,521.50	124.49%	130.39%	17
2,701 - 4,000	\$3,370.57	132.96%	\$1,521.50	124.49%	130.33%	18
4,001 - 6,600	\$4,823.01	132.96%	\$1,736.02	124.49%	130.72%	19
6,601 - 9,200	\$5,428.28	132.96%	\$1,736.02	124.49%	130.91%	20
9,201 - 14,500	\$5,971.25	132.96%	\$2,040.68	124.49%	130.80%	21
14,501 - 21,400	\$6,100.56	132.96%	\$2,040.68	124.49%	130.84%	22
21,401 - 24,000	\$11,792.33	132.96%	\$4,360.50	124.49%	130.67%	23
24,001 - 46,000	\$12,722.16	132.96%	\$4,406.99	124.49%	130.78%	24
46,001 - 79,000	\$21,019.90	132.96%	\$8,145.67	124.49%	130.60%	25
79,001 - 377,000	\$41,020.86	132.96%	\$12,055.79	124.49%	131.04%	26
377,001 - 600,000					131.04%	27
600,001 - 4,250,000					131.04%	28
> 4,250,000					131.04%	29
	276 - 425 426-630 631 - 800 801 - 1,100 1,101 - 1,500 1,501 - 2,000 2,001 - 3,000 3,001 - 5,000 5,001 - 7,000 High Pressure 0 - 940 941 - 1,050 1,051 - 1,500 2,701 - 4,000 4,001 - 6,600 6,601 - 9,200 9,201 - 14,500 14,501 - 21,400 21,401 - 24,000 24,001 - 46,000 46,001 - 79,000 79,001 - 377,000 377,001 - 60,000 600,001 - 4,250,000	276 - 425 \$552.79 426-630 \$942.70 631 - 800 \$1,184.83 801 - 1,100 \$1,272.08 1,101 - 1,500 \$1,184.83 1,101 - 1,500 \$3,304.61 2,001 - 3,000 \$3,804.61 2,001 - 3,000 \$3,818.62 5,001 - 7,000 \$3,4185.22 High Pressure 0 - 940 \$1,560.80 941 - 1,050 \$3,326.33 1,051 - 1,500 \$1,950.71 1,501 - 2,700 \$3,498.37 2,701 - 4,000 \$3,370.57 4,001 - 6,600 \$4,823.01 6,601 - 9,200 \$5,428.28 9,201 - 14,500 \$5,971.25 14,501 - 21,400 \$6,100.56 21,401 - 24,000 \$11,792.33 24,001 - 46,000 \$21,722.16 46,001 - 79,000 \$21,019.90 79,001 - 377,000 \$41,020.86	276 - 425 \$552.79 132.96% 426-630 \$942.70 132.96% 631 - 800 \$1,484.83 132.96% 801 - 1,100 \$1,272.08 132.96% 1,101 - 1,500 \$1,959.59 132.96% 1,501 - 2,000 \$3,004.61 132.96% 3,001 - 5,000 \$3,818.62 132.96% 5,001 - 7,000 \$4,135.22 132.96% 1,051 - 1,500 \$3,3818.62 132.96% 1,051 - 7,000 \$3,326.33 132.96% 1,051 - 1,500 \$3,326.33 132.96% 1,051 - 1,500 \$3,326.33 132.96% 1,051 - 1,500 \$3,326.33 132.96% 1,051 - 1,500 \$3,326.33 132.96% 1,051 - 1,500 \$3,326.33 132.96% 1,051 - 1,500 \$3,326.33 132.96% 1,051 - 1,500 \$3,326.33 132.96% 1,051 - 1,500 \$3,498.37 132.96% 1,051 - 1,500 \$3,498.37 132.96% 1,051 - 1,500 \$3,498.37 132.96% 1,051 - 1,500 \$3,498.37 132.96% 1,051 - 1,500 \$3,498.37 132.96% 1,051 - 1,500 \$3,498.37 132.96% 1,051 - 2,700 \$3,498.37 132.96% 1,051 - 2,700 \$3,498.37 132.96% 1,051 - 2,1400 \$5,971.25 132.96% 1,051 - 2,1400 \$5,971.25 132.96% 1,1501 - 2,1400 \$5,971.25 132.96% 1,1501 - 2,1400 \$6,00.56 132.96% 21,401 - 24,000 \$11,792.33 132.96% 24,001 - 46,000 \$12,722.16 132.96% 79,001 - 377,000 \$41,020.86 132.96% 377,001 - 600,000 \$41,020.86	276 - 425 \$552.79 132.96% \$147.95 426-630 \$942.70 132.96% \$147.95 631 - 800 \$1,184.83 132.96% \$295.89 801 - 1,100 \$1,272.08 132.96% \$295.89 1,101 - 1,500 \$1,959.59 132.96% \$1,521.50 2,001 - 3,000 \$3,004.61 132.96% \$1,521.50 3,001 - 5,000 \$3,818.62 132.96% \$1,521.50 5,001 - 7,000 \$4,135.22 132.96% \$1,521.50 \$1,521.50 \$1,521.50 \$3,001 - 5,000 \$3,818.62 132.96% \$1,521.50 \$1,52	276 - 425 \$552.70 132.96% \$147.95 124.49% 426-630 \$942.70 132.96% \$147.95 124.49% 631 - 800 \$1,184.83 132.96% \$295.89 124.49% 801 - 1,100 \$1.272.08 132.96% \$295.89 124.49% 1,101 - 1,500 \$1,959.59 132.96% \$965.32 124.49% 1,501 - 2,000 \$3.004.61 132.96% \$1,521.50 124.49% 2,001 - 3,000 \$2.876.82 132.96% \$1,521.50 124.49% 3,001 - 5,000 \$3.818.62 132.96% \$1,521.50 124.49% 5,001 - 7,000 \$4,135.22 132.96% \$1,521.50 124.49% 1,051 - 7,000 \$4,135.22 132.96% \$1,521.50 124.49% 1,051 - 7,000 \$4,135.22 132.96% \$1,521.50 124.49% 1,051 - 7,000 \$4,352 132.96% \$1,521.50 124.49% 1,051 - 1,500 \$1,950.71 132.96% \$965.32 124.49% 1,051 - 1,500 \$1,950.71 132.96% \$965.32 124.49% 1,051 - 1,500 \$3,326.33 132.96% \$1,521.50 124.49% 1,051 - 1,500 \$3,395.37 132.96% \$965.32 124.49% 1,051 - 2,700 \$3,498.37 132.96% \$1,521.50 124.49% 1,001 - 6,600 \$4,823.01 132.96% \$1,521.50 124.49% 1,001 - 6,600 \$4,823.01 132.96% \$1,521.50 124.49% 1,001 - 6,600 \$4,823.01 132.96% \$1,736.02 124.49% 1,4501 - 2,100 \$5,971.25 132.96% \$1,736.02 124.49% 1,4501 - 2,100 \$5,971.25 132.96% \$2,040.68 124.49% 1,4501 - 2,1400 \$6,100.56 132.96% \$2,040.68 124.49% 1,4501 - 2,1400 \$6,100.56 132.96% \$2,040.68 124.49% 1,4501 - 2,1400 \$6,100.56 132.96% \$2,040.68 124.49% 1,4501 - 2,1400 \$6,100.56 132.96% \$2,040.68 124.49% 1,4501 - 2,1400 \$6,100.56 132.96% \$4,406.99 124.49% 1,401 - 24,000 \$11,792.33 132.96% \$4,406.99 124.49% 1,401 - 24,000 \$11,792.33 132.96% \$4,406.99 124.49% 1,401 - 24,000 \$11,792.33 132.96% \$4,406.99 124.49% 1,401 - 24,000 \$11,792.33 132.96% \$4,406.99 124.49% 1,401 - 24,000 \$11,792.33 132.96% \$4,406.99 124.49% 1,409.10 - 24,000 \$11,792.33 132.96% \$4,406.99 124.49% 1,409.10 - 24,000 \$11,792.00 \$2,109.90 132.96% \$4,406.99 124.49% 1,409.10 - 24,000 \$11,792.33 132.96% \$4,406.99 124.49% 1,409.10 - 24,000 \$11,792.33 132.96% \$4,406.99 124.49% 1,409.10 - 24,000 \$11,792.33 132.96% \$4,406.99 124.49% 1,409.10 - 24,000 \$11,792.33 132.96% \$4,406.99 124.49% 1,409.10 - 24,000 \$11,792.30 \$12.96% \$4,406.99 124.49% 1,409.10 - 24,000 \$11,792.00 \$21,019.00 132.96% \$4,406.99 124.49% 1,	276 - 425 \$552.79 132.96% \$147.95 124.49% 131.17% 426-630 \$942.70 132.96% \$147.95 124.49% 131.81% 631 - 800 \$1.184.83 132.96% \$295.89 124.49% 131.81% 801 - 1,100 \$1.272.08 132.96% \$295.89 124.49% 131.36% 1,101 - 1,500 \$1,959.59 132.96% \$965.32 124.49% 130.17% 1,501 - 2,000 \$3.004.61 132.96% \$1,521.50 124.49% 130.17% 2,001 - 3,000 \$2.876.82 132.96% \$1,521.50 124.49% 130.03% 3,001 - 5,000 \$3.818.62 132.96% \$1,521.50 124.49% 130.68% 1,011 - 7,000 \$4,135.22 132.96% \$1,521.50 124.49% 130.68% 1,011 - 7,000 \$4,135.22 132.96% \$1,521.50 124.49% 130.68% 1,011 - 7,000 \$4,135.22 132.96% \$1,521.50 124.49% 130.68% 1,011 - 7,000 \$4,135.22 132.96% \$1,521.50 124.49% 130.68% 1,011 - 7,000 \$4,135.22 132.96% \$1,521.50 124.49% 130.30% 1,011 - 1,500 \$1,950.71 132.96% \$965.32 124.49% 130.30% 1,011 - 1,500 \$3,326.33 132.96% \$1,521.50 124.49% 130.30% 1,011 - 1,500 \$3,326.33 132.96% \$965.32 124.49% 130.30% 1,011 - 2,700 \$3,498.37 132.96% \$965.32 124.49% 130.39% 2,701 - 4,000 \$3,370.57 132.96% \$1,521.50 124.49% 130.39% 4,001 - 6,600 \$4.823.01 132.96% \$1,521.50 124.49% 130.39% 4,001 - 6,600 \$4.823.01 132.96% \$1,736.02 124.49% 130.39% 9,201 - 14,500 \$5,971.25 132.96% \$1,736.02 124.49% 130.91% 9,201 - 14,500 \$5,971.25 132.96% \$2,040.68 124.49% 130.89% 14,501 - 21,400 \$6,100.56 132.96% \$2,040.68 124.49% 130.89% 21,401 - 24,000 \$11,792.33 132.96% \$4,360.50 124.49% 130.89% 44,001 - 24,000 \$11,792.33 132.96% \$4,406.99 124.49% 130.89% 44,001 - 24,000 \$11,792.33 132.96% \$4,406.99 124.49% 130.69% 79,001 - 377,000 \$21,019.90 132.96% \$4,406.99 124.49% 130.69% 79,001 - 377,000 \$41,020.86 132.96% \$4,406.99 124.49% 130.69% 79,001 - 377,000 \$41,020.86 132.96% \$4,406.99 124.49% 130.69% 79,001 - 377,000 \$41,020.86 132.96% \$4,406.99 124.49% 130.69% 79,001 - 377,000 \$41,020.86 132.96% \$4,406.99 124.49% 130.69% 79,001 - 377,000 \$41,020.86 132.96% \$4,406.99 124.49% 130.69% 79,001 - 377,000 \$41,020.86 132.96% \$4,406.99 124.49% 130.69% 79,001 - 377,000 \$41,020.86 132.96% \$4,406.99 124.49% 130.69% 79,001 - 377,000 \$41,020.86 132.96% \$4,406.99 124.49% 130.69% 79,

Notes:

1. Col. (F) = [Col (B) x Col. (C)] + [Col. (D) x Col. (E)] + [Col. (B) + Col. (D)]

2. Rows (27) - (29): Weighted Average PVRR Factor meter & installation weights from Row (26).

TABLE LRMCC-nco.2 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

NCO ANNUAL SERVICE, REGULATOR & METER (SRM) NEW HOOKUP INVESTMENT 2020 TCAP $\,$

			Meter &	Regulator		Pipe 8	Installation				1	Forecast
	Max Meter	Meter	M&R	PVRR	NCO Hookup	Service	Service	Residential	PVRR	NCO Hookup	NCO Residential	New
	Flow Range	Type	Cost	Factor	Investment	Type	Cost	Cost Line X	Factor	Investment	Cost Line X	Hookups
	A	В	С	D	Е	F	G		Н	I		J
	Cfh		(Dollars)	(Percent)	(Dollars)		(Dollars)		(Percent)	(Dollars)		
1	Medium Pressure											
2	0-275	250	\$281	130.58%	\$367	Poly-0.5"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	7,811
3	276 - 425	425	\$701	131.17%	\$919	Poly-0.5"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	211
4	426-630	630	\$1,091	131.81%	\$1,438	Poly-1"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	115
5	631 - 800	8C	\$1,481	131.27%	\$1,944	Poly-1"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	82
6	801 - 1,100	11C	\$1,568	131.36%	\$2,060	Poly-1"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	38
7	1,101 - 1,500	15C	\$2,925	130.17%	\$3,807	Poly-1"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	14
8	1,501 - 2,000	2M	\$4,526	130.11%	\$5,889	Poly-1"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	6
9	2,001 - 3,000	3M	\$4,398	130.03%	\$5,719	Poly-1"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	6
10	3,001 - 5,000	5M	\$5,340	130.55%	\$6,971	Poly-2"	\$7,059	\$2,615	125.07%	\$8,829	\$3,271	3
11	5,001 - 7,000	7M	\$5,657	130.68%	\$7,392	Poly-2"	\$7,059	\$2,615	125.07%	\$8,829	\$3,271	1
12												
13	High Pressure											
14	0 - 940	400	\$2,526	129.72%	\$3,277	Poly-1"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	0
15	941 - 1,050	8C	\$4,848	130.30%	\$6,317	Poly-1"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	-
16	1,051 - 1,500	630	\$2,916	130.16%	\$3,795	Poly-1"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	-
17	1,501 - 2,700	2M	\$5,020	130.39%	\$6,546	Poly-1"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	-
18	2,701 - 4,000	3M	\$4,892	130.33%	\$6,376	Poly-2"	\$7,059	\$2,615	125.07%	\$8,829	\$3,271	-
19	4,001 - 6,600	5M	\$6,559	130.72%	\$8,574	Poly-2"	\$7,059	\$2,615	125.07%	\$8,829	\$3,271	-
20	6,601 - 9,200	7M	\$7,164	130.91%	\$9,379	Poly-2"	\$7,059	\$2,615	125.07%	\$8,829	\$3,271	0
21	9,201 - 14,500	11M	\$8,012	130.80%	\$10,480	Poly-3"	\$12,815	\$2,615	125.07%	\$16,028	\$3,271	1
22	14,501 - 21,400	16M	\$8,141	130.84%	\$10,652	Poly-3"	\$12,815	\$2,615	125.07%	\$16,028	\$3,271	1
23	21,401 - 24,000	11M-HP	\$16,153	130.67%	\$21,108	Poly-4"	\$15,533	\$2,615	125.07%	\$19,428	\$3,271	0
24	24,001 - 46,000	16M-HP	\$17,129	130.78%	\$22,402	Poly-4"	\$15,533	\$2,615	125.07%	\$19,428	\$3,271	0
25	46,001 - 79,000	23M-HP	\$29,166	130.60%	\$38,089	Steel-4"	\$27,696	\$2,615	125.07%	\$34,640	\$3,271	0
26	79,001 - 377,000	8" Turbine	\$53,077	131.04%	\$69,550	Steel-6"	\$42,055	\$2,615	125.07%	\$52,599	\$3,271	0
27	377,001 - 600,000	Turbine	\$0	131.04%	\$0	Steel-8"	\$0	\$0	125.07%	\$0	\$0	-
28	600,001 - 4,250,000	Turbine	\$0	131.04%	\$0	Steel-16"	\$0	\$0	125.07%			-
29	> 4,250,000	Turbine	\$0	131.04%	\$0	Steel-24"	\$0	\$0	125.07%			-

^{1.} Col. (E) = Col. (C) x Col. (D). 2. Col. (I) = Col. (G) x Col. (H). 3. Col. (K) = [Col. (E) + Col. (I)] x Col. (J).

TABLE LRMCC-nco.3 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

WEIGHTED MSA BOOK LIFE 2024 TCAP

	Max Meter Flow Range	Meter, Regulator, & Fitting Costs	Meter & Regulator Book Life	Installation Costs	Installation Costs Book Life	Weighted Average PVRR Factor	
	A	В	С	D	E	F	_
	Cfh	(Dollars)	(Years)	(Dollars)	(Years)	(Percent)	
1	Medium Pressure	` '	, ,	,	, ,	` ,	1
2	0-275	\$201.92	41.0	\$79.05	35.0	39.3	2
3	276 - 425	\$552.79	41.0	\$147.95	35.0	39.7	3
4	426-630	\$942.70	41.0	\$147.95	35.0	40.2	4
5	631 - 800	\$1,184.83	41.0	\$295.89	35.0	39.8	5
6	801 - 1,100	\$1,272.08	41.0	\$295.89	35.0	39.9	6
7	1,101 - 1,500	\$1,959.59	41.0	\$965.32	35.0	39.0	7
8	1,501 - 2,000	\$3,004.61	41.0	\$1,521.50	35.0	39.0	8
9	2,001 - 3,000	\$2,876.82	41.0	\$1,521.50	35.0	38.9	9
10	3,001 - 5,000	\$3,818.62	41.0	\$1,521.50	35.0	39.3	10
11	5,001 - 7,000	\$4,135.22	41.0	\$1,521.50	35.0	39.4	11
12							12
13	High Pressure						13
14	0 - 940	\$1,560.80	41.0	\$965.32	35.0	38.7	14
15	941 - 1,050	\$3,326.33	41.0	\$1,521.50	35.0	39.1	15
16	1,051 - 1,500	\$1,950.71	41.0	\$965.32	35.0	39.0	16
17	1,501 - 2,700	\$3,498.37	41.0	\$1,521.50	35.0	39.2	17
18	2,701 - 4,000	\$3,370.57	41.0	\$1,521.50	35.0	39.1	18
19	4,001 - 6,600	\$4,823.01	41.0	\$1,736.02	35.0	39.4	19
20	6,601 - 9,200	\$5,428.28	41.0	\$1,736.02	35.0	39.5	20
21	9,201 - 14,500	\$5,971.25	41.0	\$2,040.68	35.0	39.5	21
22	14,501 - 21,400	\$6,100.56	41.0	\$2,040.68	35.0	39.5	22
23	21,401 - 24,000	\$11,792.33	41.0	\$4,360.50	35.0	39.4	23
24	24,001 - 46,000	\$12,722.16	41.0	\$4,406.99	35.0	39.5	24
25	46,001 - 79,000	\$21,019.90	41.0	\$8,145.67	35.0	39.3	25
26	79,001 - 377,000	\$41,020.86	41.0	\$12,055.79	35.0	39.6	26
27	377,001 - 600,000					39.6	27
28	600,001 - 4,250,000					39.6	28
29	> 4,250,000					39.6	29

Notes: 1. Col. (F) = [Col (B) x Col. (C)] + [Col. (D) x Col. (E)] \div [Col. (B) + Col. (D)] 2. Rows (27) - (29): Weighted Average Book Life meter & installation weights from Row (26). Data Sources: MSA Cost tab and Finance Group for Book Life

TABLE LRMCC-nco.4 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

NCO ANNUAL SERVICE, REGULATOR & METER (SRM) REPLACEMENT COST 2024 TCAP

			Mete	r & Regulator Re	placement			Repla	acement Pipe &	Installation	1	Number of	Total SRM	
	Max Meter	Meter	M&R	PVRR	Replacement	Replacement	Service	Service	PVRR	Replacement	Replacement	Existing	Annual Cost	
	Flow Range	Type	Cost	Factor	Investment	Rate	Type	Cost	Factor	Investment	Rate	Customers	Replacement	
	Α	В	С	D	E	F	G	Н		J	K	L	М	
	Cfh		(Dollars)	(Percent)	(Dollars)	(Percent)		(Dollars)	(Percent)	(Dollars)	(Percent)		(Dollars)	
1	Medium Pressure													1
2	0-275	250	\$202	124.49%	\$251	2.5%	Poly-0.5"	\$10,304	125.07%	\$12,888	1.5%	829,100	\$169,692,606	2
3	276 - 425	400	\$553	124.49%	\$688	2.5%	Poly-0.5"	\$10,304	125.07%	\$12,888	1.5%	23,825	\$5,136,589	3
4	426-630	630	\$943	124.49%	\$1,174	2.5%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	13,822	\$3,784,440	4
5	631 - 800	8C	\$1,185	124.49%	\$1,475	2.5%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	10,411	\$2,932,307	5
6	801 - 1,100	11C	\$1,272	124.49%	\$1,584	2.5%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	5,516	\$1,568,294	6
7	1,101 - 1,500	15C	\$1,960	124.49%	\$2,440	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	2,458	\$754,891	7
8	1,501 - 2,000	2M	\$3,005	124.49%	\$3,741		Poly-1"	\$12,711	125.07%	\$15,899	1.5%	1,683	\$573,143	8
9	2,001 - 3,000	3M	\$2,877	124.49%	\$3,581	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	2,054	\$691,388	9
10	3,001 - 5,000	5M	\$3,819	124.49%	\$4,754	2.5%	Poly-2"	\$32,214	125.07%	\$40,291	1.5%	929	\$688,260	10
11	5,001 - 7,000	7M	\$4,135	124.49%	\$5,148	2.5%	Poly-2"	\$32,214	125.07%	\$40,291	1.5%	405	\$303,982	11
12														12
13	High Pressure													13
14	0 - 940	400	\$1,561	124.49%	\$1,943	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	2	\$588	14
15	941 - 1,050	8C	\$3,326	124.49%	\$4,141	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	-	\$0	15
16	1,051 - 1,500	630	\$1,951	124.49%	\$2,429	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	-	\$0	16
17	1,501 - 2,700	2M	\$3,498	124.49%	\$4,355	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	-	\$0	17
18	2,701 - 4,000	3M	\$3,371	124.49%	\$4,196	2.6%	Poly-2"	\$32,214	125.07%	\$40,291	1.5%	1	\$725	18
19	4,001 - 6,600	5M	\$4,823	124.49%	\$6,004	2.5%	Poly-2"	\$32,214	125.07%	\$40,291	1.5%	1	\$770	19
20	6,601 - 9,200	7M	\$5,428	124.49%	\$6,758	2.5%	Poly-2"	\$32,214	125.07%	\$40,291	1.5%	7	\$5,515	20
21	9,201 - 14,500	11M	\$5,971	124.49%	\$7,434	2.5%	Poly-3"	\$41,203	125.07%	\$51,534	1.5%	349	\$341,335	21
22	14,501 - 21,400	16M	\$6,101	124.49%	\$7,595	2.5%	Poly-3"	\$41,203	125.07%	\$51,534	1.5%	218	\$214,061	22
23	21,401 - 24,000	11M-HP	\$11,792	124.49%	\$14,681	2.5%	Poly-4"	\$32,950	125.07%	\$41,211	1.5%	23	\$23,015	23
24	24,001 - 46,000	16M-HP	\$12,722	124.49%	\$15,838	2.5%	Poly-4"	\$32,950	125.07%	\$41,211	1.5%	72	\$74,072	24
25	46,001 - 79,000	23M-HP	\$21,020	124.49%	\$26,169	2.5%	Steel-4"	\$52,031	125.07%	\$65,076	1.5%	21	\$34,768	25
26	79,001 - 377,000	8" Turbine	\$41,021	124.49%	\$51,069	2.5%	Steel-6"	\$64,522	125.07%	\$80,700	1.5%	6	\$15,051	26
27	377,001 - 600,000	Turbine	\$0	0.00%	\$0	2.5%	Steel-8"	\$0	125.07%	\$0	1.5%	-	\$0	27
28	600,001 - 4,250,000	Turbine	\$0	0.00%	\$0	2.5%	Steel-16"		125.07%		1.5%	-	\$0	28
29	> 4,250,000	Turbine	\$0 _	0.00%	\$0	2.5%	Steel-24"		125.07%	\$0	1.5%	-	\$0	29

Notes:

- 1. Col. (E) = Col. (C) x Col. (D).
 2. Col. (J) = Col. (H) x Col. (I).
 3. For Rows (2) (3): Col. (M) = [Col. (E) x Col. (L) x Col. (F) x [1 Note 6]] + [Col. (J) x Col. (L) x Col. (K)]
 4. For Rows (4) (28): Col. (M) = [Col. (E) x Col. (L) x Col. (F) x [1 Note 7]] + [Col. (J) x Col. (L) x Col. (K)]
 5. Col. (L) Number of Existing Customers = 2016 Recorded Customers (Total at Inception of TCAP Period) x Proportion of Total @ Meter Flow.

Percent of small MSA's (Flow = 0 - 375 Cfh) replaced with refurbished meter - provided by SDG&E Gas Engineering Dept. 1.66% Percent of other MSA's (Flow > 375 Cfh) replaced with refurbished meter - provided by SDG&E Gas Engineering Dept.

Data Sources: tabs: MSA Cost, MSA PVRR, MSA NCOp1, MSA Life, Factors. Data Sources: SDG&E Gas Engineering & Finance Group

TABLE LRMCC-nco.5 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

FORECAST NEW HOOKUPS FOR 2023-2027 2024 TCAP

	Customer Class	Year-E 2023	nd 2024	2024 Hookups —	Year-E 2024	2025	2025 _ Hookups _	Year-E 2025	2026	2026 Hookups –	Year-E 2026	2027	2027 Hookups	Average Annual New Hookups	
	A	В	С	D	Е	F	G	Е	F	G	Е	F	G	Н	
1 2	Residential NGV	888,738 37	896,990 37	8,252	896,990 37	905,216 37	8,226	905,216 37	913,509 38	8,293 1	913,509 38	921,721 38	8,212	8,246 0	1 2
3	Core C&I - GN3	30,378	30,424	46	30,424	30,467	43	30,467	30,510	43	30,510	30,549	39	43	3
4	Noncore C&I - GTNC	50	50	-	50	50	-	50	50	-	50	50	-	-	4
5	EG - Cogen	96	96	-	96	96	-	96	96	-	96	96	-	-	5
6	Power Plants	-	-	-	-	-	-	-	-	-	-	-		-	6
7 8	Total Customers	919,299	927,597	8,298	927,597	935,866	8,269	935,866	944,203	8,337	944,203	952,454	8,251	8,289	7 8

Notes:

- otes:

 1. Col. (D) = Col. (C) Col (B).

 2. Col. (G) = Col. (F) Col (E).

 3. Col. (J) = Col. (I) Col (H).

 4. Col. (K) = Average Col. (D) & Col (G) & Col (J).

TABLE LRMCC-nco.6 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

FORECAST NEW HOOKUPS BY METER TYPE BY CUSTOMER CLASS 2020 TCAP

	Max Meter	Meter	_		011.0	Total		GTNC			EG		Total	System	
	Flow Range	Туре	Res	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Noncore	Total	
	A	В	С	D	E	F	G	Н	ı	J	K	L	N	0	
	Cfh														ı
1	Medium Pressure														1
2	0-275	250	7,791	0	20	7,811	_	_	-	_	_	-	-	7,811	2
3	276 - 425	425	207	-	3	211	_	_	_	-	_	-	_	211	3
4	426-630	630	112	_	3	115	_	-	-	-	-	-	_	115	4
5	631 - 800	8C	79	0	3	82	-	-	-	-	-	-	-	82	5
6	801 - 1,100	11C	35	0	3	38	_	-	-	-	-	-	-	38	6
7	1,101 - 1,500	15C	11	-	2	14	-	-	-	-	-	-	-	14	7
8	1,501 - 2,000	2M	4	-	2	6	-	-	-	-	-	-	-	6	8
9	2,001 - 3,000	3M	4	0	3	6	-	-	-	-	-	-	-	6	9
10	3,001 - 5,000	5M	2	0	1	3	-	-	-	-	-	-	-	3	10
11	5,001 - 7,000	7M	1	0	1	1	-	-	-	-	-	-	-	1	11
12															12
13	High Pressure														13
14	0 - 940	400	=	=	0	0	-	=.	=	-	-	-	-	0	14
15	941 - 1,050	8C	-	-	-	-	-	-	-	-	-	-	-	-	15
16	1,051 - 1,500	630	-	-	-	-	-	-	-	-	-	-	-	-	16
17	1,501 - 2,700	2M	-	-	-	-	-	-	-	-	-	-	-	-	17
18	2,701 - 4,000	3M	-	-	-	-	-	-	-	-	-	-	-	-	18
19	4,001 - 6,600	5M	-	-	-	-	-	-	-	-	-	-	-	-	19
20	6,601 - 9,200	7M	-	0	0	0	-	-	-	-	-	-	-	0	20
21	9,201 - 14,500	11M	1	-	0	1	-	-	-	-	-	-	-	1	21
22	14,501 - 21,400	16M	0	0	0	1	-	-	-	-	-	-	-	1	22
23	21,401 - 24,000	11M-HP	0	0	0	0	-	-	-	-	-	-	-	0	23
24	24,001 - 46,000	16M-HP	-	0	0	0	-	-	-	-	-	-	-	0	24
25	46,001 - 79,000	23M-HP	-	0	0	0	-	-	-	-	-	-	-	0	25
26	79,001 - 377,000	8" Turbine	-	-	0	0	-	-	-	-	-	-	-	0	26
27	377,001 - 600,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	27
28	600,001 - 4,250,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	28
29	> 4,250,000	Turbine	-	-		-	-	-	-	-		-		-	29
30 31	Total Customers		8,246	0	43	8,289	-	-	-	-	-	=	-	8,289	30 31

Note:

1. New Hookups Forecast on Basis on Average Annual Net Customer Gain for 2017 - 2019 TCAP Period.

verify 8,246 0 43 8,289 - - - - - - 8,289

Data Sources: Tabs: MSA Cost, MSAlloc v2

TABLE LRMCC-nco.7 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

NCO ANNUALIZED SRM NEW HOOKUP & NO REPLACEMENT INVESTMENT BY CUSTOMER CLASS 2020 TCAP $\,$

	Max Meter	Meter	Per Customer	Res Per Customer G-R SRM Line X	D	Other Dee	NOV	ONO	Total	MPD	GTNC HPD	Total	< 3 MM	EG	T-4-1	Total
	Flow Range	Туре	SRM Invstmt	G-R SRIVI LINE X	Res	Other Res	NGV	GN-3	Core		HPD	rotai	< 3 IVIIVI	> 3 MM	Total	Noncore
	A	В	C		D	_	E	F	G	Н		J	K	L	М	0
	Cfh		(Dollars)													
1	Medium Pressure															
2	0-275	250	\$42	\$34	\$27,476,427	\$558,649	\$287	\$615,431	\$28,650,794	\$0	\$0	\$0	\$43	\$0	\$0	\$0
3	276 - 425	425	\$44	\$36	\$755,745	\$48,125	\$0	\$107,920	\$911,790	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	426-630	630	\$45	\$38	\$425,005	\$28,456	\$0	\$112,270	\$565,731	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	631 - 800	8C	\$46	\$39	\$307,482	\$26,648	\$29	\$117,236	\$451,394	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	801 - 1,100	11C	\$40	\$34	\$107,722	\$20,222	\$49	\$89,081	\$217,073	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	1,101 - 1,500	15C	\$40	\$36	\$35,558	\$8,734	\$0	\$59,416	\$103,708	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	1,501 - 2,000	2M	\$31	\$28	\$8,370	\$2,969	\$0	\$45,312	\$56,651	\$0	\$0	\$0	\$1,055	\$0	\$0	\$0
8	2,001 - 3,000	3M	\$27	\$25	\$2,369	\$8,224	\$33	\$52,975	\$63,601	\$0	\$0	\$0	\$221	\$0	\$0	\$0
9	3,001 - 5,000	5M	\$41	\$27	\$457	\$5,887	\$76	\$36,586	\$43,006	\$38	\$0	\$38	\$416	\$0	\$0	\$38
10	5,001 - 7,000	7M	\$40	\$27	\$214	\$2,202	\$124	\$15,418	\$17,958	\$259	\$0	\$259	\$286	\$0	\$0	\$259
11																
12	High Pressure														-	
13	0 - 940	400	\$6	\$5	\$0	\$0	\$0	\$7	\$7	\$0	\$0	\$0	\$6	\$0	\$0	\$0
14	941 - 1,050	8C	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	1,051 - 1,500	630	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	1,501 - 2,700	2M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
17	2,701 - 4,000	3M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	4,001 - 6,600	5M	\$0	\$0	\$0	\$0	\$0	\$0	\$0 ************************************	\$0	\$0 \$0	\$0 \$12	\$0	\$0	\$0	\$0
19	6,601 - 9,200	7M 11M	\$13	\$9	\$0 \$76	\$0	\$8	\$16	\$24	\$12	\$0	\$12 \$596	\$0	\$95	\$190	\$107
20	9,201 - 14,500 14.501 - 21.400	11M 16M	\$73 \$80	\$38 \$42		\$4,839	\$0	\$23,020	\$27,934	\$465	\$131		\$221	\$0 \$0	\$0	\$596
21 22	21.401 - 21,400	11M-HP	\$80 \$121	\$42 \$73	\$169 \$0	\$3,246 \$490	\$542 \$223	\$13,925 \$1,573	\$17,883 \$2,287	\$1,104 \$444	\$0 \$0	\$1,104 \$444	\$81 \$0	\$0 \$218	\$0 \$436	\$1,104 \$663
23	24,001 - 46,000	16M-HP	\$121 \$59	\$73 \$36	\$0 \$0	\$490 \$0	\$223 \$182	\$3,644	\$3,827	\$381	\$0 \$214	\$595	\$181	\$210 \$107	\$214	\$702
23 24	46,001 - 79,000	23M-HP	\$61	\$35 \$35	\$0 \$0	\$0 \$0	\$37	\$3,644 \$645	\$5,627 \$682	\$167	\$214 \$109	\$276	\$185	\$328	\$656	\$604
24 25	79.001 - 377.000	8" Turbine	\$66	\$40	\$0 \$0	\$0 \$0	\$37 \$0	\$157	\$157	\$107	\$109 \$120	\$276 \$242	\$100	\$326 \$0	\$0	\$242
26 26	377.001 - 600.000	Turbine	\$00 \$0	\$40 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$157	\$157	\$122	\$120	\$242 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$242
26 27	600.001 - 4.250.000	Turbine	φυ	φυ	φU	φU	Φ0	φU	φU	φ0	φU	φU	\$ 0	φυ	φυ	Φ0
28	> 4,250,000	Turbine														
20 29	7 4,250,000 Total	ruibille			\$29,119,594	\$718,691	\$1,591	\$1,294,630	\$31,134,506	\$2,992	\$573	\$3,565	\$2,694	\$748	\$1,496	\$4,313
30	Forecast Customers				857,179	16,889	28	30,937	905,032	\$2,992 44	φ5/3 9	53	72	18	90	143
31	1 Greeder Gastorners				337,179	10,003	20	30,337	303,032	- 44		- 55	12	10	90	140
	Average SRM Cost				\$34	\$43	\$58	\$42	\$34	\$68	\$64	\$67	\$37	\$42	\$17	\$30

Notes:

1. Row (29) = Total of NCO Annualized SRM New Hookup & Replacement Investment x Number of MSA's per Customer Segment.
2. Row (32) = Row (29) + Row (30).

Data Sources: tabs: MSA Cost, MSA Fcst, MSA NCOp1

TABLE LRMCC-nco.7 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

NCO ANNUALIZED SRM NEW HOOKUP & REPLACEMENT INVESTMENT BY CUSTOMER CLASS 2020 TCAP

A B C Ch (Ch (Ch (Ch (Ch (Ch (Ch (Ch (Ch (Ch				Per Customer	Res	Res I	Other Res	Res	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	EG < 3 MM	> 3 MM	Total	Total Noncore	System Total
Cft (Colling) Medium Pressure September Septemb	_	riow Range	Type	SKW INVSUM S	PRIVI ITIVSUTIL		Other Res	Res	NGV	GIV-3		MPD	HPD .	TOTAL	< 3 IVIIVI	< 3 IVIIVI				TOTAL
Medium Pressure	\rightarrow	Offh.	_ В	(Dollara)		U	-	U			G	п		J	Λ	L	IVI	IN	- 0	Р
2 0.275 50 \$244 \$236 \$191,579,539 \$32,472,285 \$194,797,234 \$1,651 \$3,544,310 \$198,343,195 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	- 1	GIII		(Dollais)													ı			
2 0.275 250 \$244 \$236 \$191,579,593 \$3.217,205 \$194,797,234 \$1,651 \$3,544,310 \$198,343,195 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	1 1	fedium Pressure																		l 1
3 276 - 425	ż		250	\$244	\$236	\$191,579,939	\$3,217,295	\$194,797,234	\$1.651	\$3.544.310	\$198.343.195	\$0	\$0	\$0	\$248	\$248	\$0	\$248	\$0	\$198,343,195 2
426-630 630 8309 8302 83.389,419 \$194,273 \$3.858,692 \$0 \$766,79 \$4.350,171 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	3	276 - 425	425	\$254				\$5,426,747				\$0				\$0	\$0		\$0	\$6,048,379 3
5 801 - 1,100 11C 5306 S300 S944,778 S154,704 S1,103,483 S376 S81,509 S1,785,367 S0	1	426-630	630					\$3,583,692		\$766,479	\$4,350,171	\$0				\$0		\$0		\$4,350,171
6 1.101 - 1.500 15C 8320 8315 8315,716 898.577 838.523 50 \$478.306 8885.599 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	4	631 - 800	8C	\$316	\$309	\$2,405,948	\$181,052	\$2,586,999	\$194	\$796,508	\$3,383,701	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,383,701 4
7 1,501 - 2,000 2M \$330 \$327 \$98,595 \$32,095 \$130,630 \$0 \$488,839 \$819,480 \$0 \$0 \$50 \$0 \$50 \$0 \$2,602 \$2,602 \$0 \$2,602 \$0 \$2,602 \$0 \$2,602 \$0 \$0 \$50,009 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5	801 - 1,100	11C	\$306	\$300	\$948,778	\$154,704	\$1,103,483	\$376	\$681,509	\$1,785,367	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,785,367 5
8 2.001 - 3.000 3 M	6	1,101 - 1,500	15C			\$315,716						\$0	\$0		\$0	\$0	\$0		\$0	\$858,599 6
9 3.001 - 5.000 5M \$887 \$572 \$11,556 \$98,595 \$11,156 \$98,595 \$110,151 \$1,265 \$812,709 \$724,125 \$830 \$0 \$8,984 \$4,844 \$4,960 \$4,864 \$0 \$5,864 \$5,864 \$5,864 \$5,864 \$1,865 \$11,865 \$12,865 \$12,865 \$12,865 \$12,865 \$12,865 \$13,941 \$1,865 \$1,865 \$12,865	7																			\$619,469 7
10 5.001 - 7.000 7M \$699 \$685 \$5.540 \$38,152 \$43,693 \$2,146 \$267,202 \$313,041 \$4,484 \$0 \$4,960 \$4,960 \$4,960 \$0 \$4,960 \$54,484 \$317,52 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$1	8																			\$752,606 8
11 2 High Pressure 13	9																			\$724,754 9
13	10	5,001 - 7,000	7M	\$699	\$685	\$5,540	\$38,152	\$43,693	\$2,146	\$267,202	\$313,041	\$4,484	\$0	\$4,484	\$4,960	\$4,960	\$0	\$4,960	\$4,484	\$317,525 #
13	11																			#
14 941-11050 8C S0	12 /																			#
15	13																			
16	14											\$0				\$0				
17 2.701 - 4.000 3M \$403 \$403 \$403 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	15											\$0				\$0				\$0 #
18	10											\$0				\$U				
19 6.601 - 9.200 TM \$570 \$566 \$0 \$0 \$0 \$0 \$350 \$5672 \$1.022 \$522 \$0 \$522 \$0 \$522 \$0 \$0 \$4.02 \$4.102 \$4.102 \$4.202 \$2.01 \$1.01 \$1.00	46											\$0 \$770				\$U				\$725 # \$770 #
20 9.201 - 14.500 11M \$891 \$896 \$1.813 \$802,143 \$83.956 \$0 \$29.545 \$359.601 \$5.976 \$1.676 \$7.652 \$2.283 \$2.833 \$0 \$2.283 \$7.652 \$357.522 \$14.501 - 21.400 11MHP \$891 \$1.950 \$7.652 \$1.019 \$1.01	10															\$0 \$0				
21 14.501 - 21.400 16M \$974 \$936 \$3.784 \$39.394 \$43.178 \$5.581 \$188.988 \$218.748 \$13.394 \$50 \$13.394 \$988 \$988 \$0 \$988 \$13.394 \$22.144 \$10.2400 11MHP \$1.667 \$1.019 \$0 \$4.315 \$4.315 \$4.315 \$1.966 \$13.881 \$2.1478 \$13.394 \$50	20																			
22 2 14.01 - 24.00011M-HP \$1.067 \$1.019 \$0 \$4.315 \$1.966 \$13.851 \$20.131 \$3.912 \$0 \$3.912 \$0 \$0 \$1.920 \$1.920 \$1.920 \$2.59.852.251 \$0 \$0 \$0 \$1.920 \$1	21																			
23 24,001 - 46,000 16M-HP \$993 \$971 \$0 \$0 \$0 \$3,051 \$60,969 \$64,020 \$63,375 \$3,577 \$9,951 \$3,022 \$3,022 \$3,1788 \$4,811 \$11,740 \$24,450,01 - 79,000 23M-HP \$1,948 \$1,4770 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	22																			
24 46.001 -79.000 23M-HP \$1.496 \$1.470 \$0 \$0 \$0 \$919 \$15.887 \$16.806 \$4.113 \$2.692 \$6.806 \$4.550 \$4.550 \$8.077 \$12.628 \$14.883 \$13.886 \$25 79.001 -737.000 Turbine \$2.578 \$2.551 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	23																			\$75.759 #
25 79.001 - 377.000 Turbine \$2.578 \$2.551 \$0 \$0 \$0 \$0 \$0 \$50.80 \$0 \$0 \$0 \$0.80 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	24																			\$31,689 #
26 377,001 - 600,000 Turbine \$0	25	79.001 - 377.000 T	Turbine	\$2.578		\$0		\$0	\$0		\$6.084	\$4,726	\$4.640			\$0			\$9,366	\$15.450 #
28 3 4,250,000 Turbine \$\ \text{250,000 Turbine}\$\ \text{\$\ \text{\$\ \circ\$}\} \text{\$\ \circ\$}\} \text{\$\ \tex	26	377,001 - 600,000 T	Turbine	\$0		\$0			\$0		\$0					\$0				\$0 #
29 Total \$208,406,916 \$18,893 \$9,439,580 \$217,865,389 \$44,901 \$12,585 \$57,486 \$37,826 \$16,613 \$54,439 \$74,099 \$217,939,481 \$30 Forecast Customers 874,067 28 30,937 905,032 44 9 53 72 18 90 143 905,173 1	27	600,001 - 4,250,000 T	Turbine																	#
30 Forecast Customers 874,067 28 30,937 905,032 44 9 53 72 18 90 - 143 905,175	28	> 4,250,000 T	Turbine																	#
31																		\$54,439		\$217,939,487 #
31	30 F	orecast Customers						874,067	28	30,937	905,032	44	9	53	72	18	90	-	143	905,175 #
	31 32 A	verage SRM Cost						\$238	\$684	\$305	\$241	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 #

Notes:

1. Row (29) = Total of NCO Annualized SRM New Hookup & Replacement Investment x Number of MSA's per Customer Segment.

2. Row (32) = Row (29) + Row (30).

Data Sources: tabs: MSA Cost, MSA Fcst, MSA NCOp1, MSA NCOp2

SDG&E Customer Costs Testimony Tables

Cost Type

Meters and Regulators Meter/Regulator Installation

Weighted-Average Distribution

Service Line Pipe

Materials and Supplies

TABLE CUSTOMER-RELATED LRI	•
Customer Class	Rental-Method Customer Cost
	(2024 \$/customer)
Residential	\$202
Core Commercial/Industrial	\$398
Natural Gas Vehicle	\$1,250
Noncore Commercial/Industrial	\$2,370
Small Electric Generation	\$987
Large Electric Generation	\$2,353

TABLE 7
REAL ECONOMIC CARRYING CHARGE FACTORS

RECC %

8.02% 8.36%

7.37%

7.37%

13.12%

CUSTOME	TABLE 3 CUSTOMER-RELATED LONG RUN MARGINAL COSTS (2024 \$/customer)										
(2024 \$/customer) Expense-Related O&M											
Annualized				General Plant	Total \$/Customer						
Residential Core Commercial/Industrial	\$202	\$43	\$0	\$12	\$11	\$269					
	\$398	\$124	\$1	\$35	\$31	\$590					
Natural Gas Vehicle Noncore Commercial/Industrial	\$1,250	\$230	\$2	\$64	\$57	\$1,603					
	\$2,370	\$675	\$7	\$189	\$168	\$3,409					
Small Electric Generation Large Electric Generation	\$987	\$390	\$4	\$109	\$97	\$1,588					
	\$2,353	\$1,233	\$13	\$344	\$307	\$4,251					

SDG&E Customer Costs Testimony Tables

	TABLE 2									
CUSTOMER-RELATI	ED DIRECT	MARGINA	L O&M EXPE	NSES						
	(202	4 \$)								
	FERC	FERC								
	870-894	901-910	Customers	Direct O&M						
Customer Class	\$000	\$000	per Class	\$/Customer						
Residential	\$36,705	\$888	864,505	\$43						
Core Commercial/Industrial	\$3,232	\$28	26,214	\$124						
Natural Gas Vehicle	\$10	\$0.0	45	\$230						
Noncore Commercial/Industrial	\$32	\$8	58	\$675						
Small Electric Generation	\$19	\$9	71	\$390						
Large Electric Generation	\$11	\$1	10	\$1,233						

TABLE 4									
DISTRIBUTION-RELATED DIRECT MARGINAL O&M EXPENSES									
(20	024 \$)								
	FERC								
		Peak-day							
	870-894	Load	Direct O&M						
Distribution Function	\$000	(mcfd)	\$/mcfd						
Medium-Pressure	\$19,699	440,066	\$44.76						
High-Pressure	\$1,172	462,002	\$2.54						

TABLE 10 M&S LOADING FACTORS (2024 \$)								
Customer Class	Allocated M&S	Customers per Class	M&S Loader \$/Customer					
Residential Core Commercial/Industrial Natural Gas Vehicle Noncore Commercial/Industrial Small Electric Generation Large Electric Generation	\$409,445 \$35,504 \$112 \$426 \$302 \$134	864,505 26,214 45 58 71 10	\$0.47 \$1.35 \$2.50 \$7.35 \$4.25 \$13.42					
Distribution Function Medium-Pressure High-Pressure	Allocated M&S \$644,432 \$166,452	Peak-day Load (mcfd) 440,066 462,002	M&S Loader \$/mcfd \$1.46 \$0.36					

SDG&E 2024 TCAP

Section 2 Distribution Cost Model for LRMC Studies

SDGE gas 2024 SDG&E Cost Allocation LRMC Distribution Cost Results

MARGINAL COST COMPONENTS \$000's		Source
Medium Pressure Distribution Costs \$/mmcfd	\$246.73	Dist MC
High Pressure Distribution Costs \$/mmcfd	\$47.79	Dist MC

TABLE LRMDC-1 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT LRMC O&M Loaders SDGE gas 2024

	Input	Source (1)
O&M w/o A&G HPD	\$1,210	LF-O&M Tab
O&M w/o A&G MPD	\$20,501	LF-O&M Tab
Marginal Percent of O&M HPD	91.08%	Dist O&M MC
Marginal Percent of O&M MPD	90.38%	Dist O&M MC
Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses	27.94%	LF-A&G Tab
General Plant Loading Factor as a % or O&M expenses	24.95%	LF-GPL Tab
Annualized M&S Customer Related Costs \$/yr	\$419,449	LF-M&S Tab
Annualized M&S HDP Distribution Load Related Costs \$/yr	\$156,567	LF-M&S Tab
Annualized M&S MDP Distribution Load Related Costs \$/yr	\$606,163	LF-M&S Tab
O&M WEF for Escalation	1.06	O&M WEF Tab

Notes: (1) from "SDGE OM Loaders" file

TABLE LRMDC-4 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

DISTRIBUTION REGRESSION INVESTMENTS SDGE gas 2024

			HPD Inv as			Handy-	MPD	HPD		
		Demand-Rel	% total Dist			Whitman	Adjusted to	Adjusted to	MPD	HPD
	Year	Portion	Inv	MPD Portion	HPD Portion	Index	2020\$'s	2020\$'s	Cumulative	Cumulative
	Α	В	С	D=B*C	E=B-D	F	G	Н	1	J
1	2012	\$7,269	20.53%	\$5,777	\$1,492	0.7844	\$7,557	\$1,952	\$7,557	\$1,952
2	2013	\$5,571	20.53%	\$4,427	\$1,144	0.7861	\$5,780	\$1,493	\$13,337	\$3,445
3	2014	\$8,028	20.53%	\$6,380	\$1,648	0.7936	\$8,249	\$2,131	\$21,586	\$5,576
4	2015	\$11,438	20.53%	\$9,090	\$2,348	0.7964	\$11,711	\$3,025	\$33,298	\$8,601
5	2016	\$7,823	20.53%	\$6,217	\$1,606	0.8030	\$7,945	\$2,052	\$41,243	\$10,653
6	2017	\$6,100	20.53%	\$4,848	\$1,252	0.8253	\$6,028	\$1,557	\$47,271	\$12,210
7	2018	\$15,280	20.53%	\$12,143	\$3,137	0.8490	\$14,677	\$3,791	\$61,948	\$16,001
8	2019	\$4,541	20.53%	\$3,609	\$932	0.8841	\$4,189	\$1,082	\$66,137	\$17,083
9	2020	\$3,844	20.53%	\$3,055	\$789	0.9180	\$3,415	\$882	\$69,551	\$17,965
10	2021	\$6,752	20.53%	\$5,366	\$1,386	1.0000	\$5,506	\$1,422	\$75,057	\$19,387
11	2022	\$8,132	20.53%	\$6,463	\$1,669	1.0620	\$6,244	\$1,613	\$81,302	\$21,000
12	2023	\$9,333	20.53%	\$7,417	\$1,916	1.0395	\$7,321	\$1,891	\$88,623	\$22,891
13	2024	\$9,050	20.53%	\$7,192	\$1,858	1.0209	\$7,229	\$1,867	\$95,852	\$24,758
14	2025	\$9,050	20.53%	\$7,192	\$1,858	1.0261	\$7,192	\$1,858	\$103,045	\$26,616
15	2026	\$9,050	20.53%	\$7,192	\$1,858	1.0429	\$7,077	\$1,828	\$110,121	\$28,443
16	2027	\$9,050	20.53%	\$7,192	\$1,858	1.0647	\$6,932	\$1,790	\$117,053	\$30,234
Notos:										

- 1. Cols. (B) (E) expressed in nominal \$'s. Col. B recorded through 2016, 2017 2022 forecast 2. Cols. (J) (K) expressed in Year 2020 \$'s.
- 3. Cols. (B) and (C) 2020 costs
- 4. Col. (B), Rows (1) (16) from SDG&E Gas Distribution Engineering
 5. Col F = Historical HPD Plant Investment Allocation Factor = HPD Mains Mileage Weighted by Net Plant Investment.

TABLE LRMDC-3 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

DISTRIBUTION PLANT WEIGHTED AVERAGE ECONOMIC INDEX SDGE gas 2024

				FERC Account				
		Structures and				Regulating Station		
		Improvements	376 - Mains CI	376 - Mains S	376 - Main P	Equip	Weighted	
	Year	•	JUGPDMCI@PCF	JUGPDMS@PCF	JUGPDMP@PCF	JUGPDSTM&R@PCF	Average	
	I A	В	С	D	E	F F	G	T
1	2012	0.7346	0.6650	0.7106	0.8258	0.7267	0.7844	1
2	2013	0.7459	0.7102	0.7024	0.8332	0.7169	0.7861	2
3	2014	0.7625	0.7681	0.7054	0.8425	0.7387	0.7936	3
4	2015	0.7675	0.7587	0.6886	0.8562	0.7332	0.7964	4
5	2016	0.7841	0.7801	0.6816	0.8698	0.7414	0.8030	5
6	2017	0.8159	0.8323	0.7217	0.8823	0.7732	0.8253	6
7	2018	0.8551	0.8719	0.7685	0.8932	0.8104	0.8490	7
8	2019	0.8738	0.9138	0.8088	0.9256	0.8439	0.8841	8
9	2020	0.8960	0.9540	0.8542	0.9537	0.8714	0.9180	9
10	2021	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	10
11	2022	0.9997	0.9889	1.0872	1.0487	1.0582	1.0620	11
12	2023	0.9839	1.0202	1.0217	1.0510	0.9876	1.0395	12
13	2024	0.9862	1.0162	0.9776	1.0462	0.9629	1.0209	13
14	2025	0.9907	1.0033	0.9635	1.0618	0.9636	1.0261	14
15	2026	1.0046	1.0237	0.9789	1.0793	0.9798	1.0429	15
16	2027	1.0219	1.0559	1.0009	1.1010	1.0006	1.0647	16
17	1							17
18	2021 Plant (M\$)	\$43	\$0	\$299,608	\$563,208	\$21,186	\$884,045	18
19	2021 Plant (%)	0.00%	0%	34%	64%	2%	100%	19

Notes:

Economic Factors for distribution plant from Handy-Whitman Gas Utility Construction Cost Indexes
 Plant Investment totals from SDG&E gas FERC Form 2 for year ending December 31, 2016 pp. 208 - 209.
 Plant Investment from FERC Form 2 for Year Ended December 31, 2016, Page 209.

TABLE LRMDC-5 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

HP DISTRIBUTION ANNUAL CUSTOMER GAIN SDGE gas 2024

	Year A	Core Customers on HPD B	Noncore Customers on HPD C	System Total Customers on HPD D=B+C	% of CORE customers on MPD E	Core Customers on MPD F=B*E	% of NONCORE customers on MPD	NONCore Customers on MPD H=C*G	System Total Customers on MPD I=F+H
1	2012	856,693	106	856,799	99.999%	856,682	88.406%	94	856,776
2	2013	861,873	91	861,964	99.999%	861,862	88.406%	80	861,943
3	2014	865,790	98	865,888	99.999%	865,779	88.406%	86	865,866
4	2015	872,762	93	872,855	99.999%	872,751	88.406%	82	872,833
5	2016	877,978	106	878,084	99.999%	877,967	88.406%	94	878,061
6	2017	883,064	121	883,185	99.999%	883,053	88.406%	107	883,160
7	2018	888,887	119	889,006	99.999%	888,876	88.406%	105	888,981
8	2019	894,646	119	894,765	99.999%	894,635	88.406%	105	894,740
9	2020	900,933	119	901,052	99.999%	900,922	88.406%	105	901,027
10	2021	906,011	119	906,130	99.999%	906,000	88.406%	105	906,105
11	2022	911,748	119	911,867	99.999%	911,737	88.406%	105	911,842
12	2023	919,153	138	919,291	99.999%	919,141	88.406%	122	919,263
13	2024	927,451	138	927,589	99.999%	927,439	88.406%	122	927,561
14	2025	935,719	138	935,857	99.999%	935,707	88.406%	122	935,829
15	2026	944,055	138	944,193	99.999%	944,043	88.406%	122	944,165
16	2027	952,306	138	952,444	99.999%	952,294	88.406%	122	952,416
17	2028	960,405	138	960,543	99.999%	960,393	88.406%	122	960,515

Notes:

 Data from SDGE R2 reports. Assume that core is 100% HPD and noncore is GTNC+EG exclude PP's, TLS (on transmission) through 2017 Average No. Customers - 12 months to Date, for Core = Total CORE + Res Aggreg Trans + Com Aggreg Trans Noncore = Cogen Trans + NonCogen Trans (exclude TLS and Power Plant EG since these are served by transmission).

MP Cust. Factor:	Core	NonCore	Sources
# Customers on MPD	939,871	122	TCAP Forecast 7-7-2022
Cumulative # on HPD	939,883	138	TCAP Forecast 7-7-2022
% of HPD customers on MPD	99.999%	88.406%	

^{1.} Updated TCAP Forecast

TABLE LRMDC-6 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

HPD PEAK-DAY REGRESSION DETERMINANTS SDGE gas 2024

1-35 PEAK-DAY (1-35 YEAR PEAK-DAY OCCURRENCE) MMcfd

	Year A	Res B	NGV C	GN-3 D	Core mmcfd on HPD E	GTNC MPD F	GTNC HPD G	EG < 3 MMth H	EG > 3 MMth I	Power Plant Load J	Noncore mmcfd on HPD K	System Total mmcfd on HPD L	System Total Customers on HPD M	Annual Change in Customers on HPD N=M-M	HPD Incremental Demand mmcfd O=L/M* N	HPD Cumulative demand mmcfd P=0+0
1	2011															
2	2012	302	3	95	401	6	8	4	20	2	41	442	856,799	856,799	442	442
3	2013	301	4	93	397	6	7	5	19	2	38	435	861,964	5,165	3	444
4	2014	318	4	99	421	5	6	4	20	1	36	456	865,888	3,924	2	446
5	2015	309	4	99	412	6	10	5	16	0	38	450	872,855	6,967	4	450
6	2016	306	5	100	411	6	7	7	19	0	39	449	878,084	5,229	3	453
7	2017	322	5	103	430	6	8	6	18	1	39	469	883,185	5,101	3	455
8	2018	321	5	104	431	6	8	5	11	0	31	462	889,006	5,821	3	458
9	2019	312	6	100	417	8	9	7	11	0	35	452	894,765	5,759	3	461
10	2020	307	6	93	406	8	10	8	9	0	35	440	901,052	6,287	3	464
11	2021	302	6	96	404	9	10	7	11	1	38	442	906,130	5,078	2	467
12	2022	300	6	98	405	9	1	8	11		28	433	911,867	5,737	3	469
13	2023	299	6	99	404	9	1	8	11		28	432	919,291	7,424	3	473
14	2024	297	6	99	403	9	1	8	11		28	431	927,589	8,298	4	477
15	2025	296	6	99	401	9	1	8	10		28	429	935,857	8,268	4	481
16	2026	294	6	99	399	9	1	8	10		28	427	944,193	8,336	4	484
17	2027	293	6	98	398	9	1	8	10		28	425	952,444	8,251	4	488
Notes												•				

Updated Historical from Demand Forecasting through 2021

TABLE LRMDC-8 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

MPD PEAK-DAY REGRESSION DETERMINANTS SDGE gas 2024

1-35 PEAK-DAY (1-35 YEAR PEAK-DAY OCCURRENCE) MMCFD

	Year A	Res B	NGV C	GN-3 D	Core mmcfd on MPD E	GTNC MPD F	GTNC HPD G	EG < 3 MMth H	EG > 3 MMth I	Noncore mmcfd on MPD J	System Total mmcfd on MPD K	System Total Customers on MPD L	Annual Change in Customers on MPD M=L-L	MPD Incremental Demand mmcfd N=K/L* M	MPD Cumulative demand mmcfd P=N+N
1 2	2011	287	2	89	377	7	0	2	2	11	388				
3	2012	302	2	93	398	6	0	2	2	11	409	856,776	856,776	409	409
4	2013	301	2	91	394	6	0	3	2	11	404	861,943	5,167	2	411
5	2014	318	2	97	417	5	0	3	2	10	427	865,866	3,923	2	413
6	2015	309	2	97	408	6	0	4	2	13	421	872,833	6,968	3	416
7	2016	306	3	98	407	6	0	5	2	12	419	878,061	5,227	2	419
8	2017	322	3	101	426	6	0	5	2	14	440	883,160	5,099	3	421
9	2018	321	3	102	426	6	0	4	3	14	440	888,981	5,821	3	424
10	2019	312	3	98	413	8	0	6	2	16	428	894,740	5,759	3	427
11	2020	307	3	91	402	8	0	5	2	16	417	901,027	6,287	3	430
12	2021	302	4	95	400	9	0	5	1	16	415	906,105	5,078	2	432
13	2022	300	4	98	402	9	0	6	1	16	418	911,842	5,737	3	435
14	2023	299	4	99	401	9	0	6	1	16	417	919,263	7,421	3	438
15	2024	297	4	99	400	9	0	6	1	15	415	927,561	8,298	4	442
16	2025	296	4	99	398	9	0	6	1	15	413	935,829	8,268	4	446
17	2026	294	4	98	396	9	0	6	1	15	412	944,165	8,336	4	449
18	2027	293	4	98	395	9	0	6	1	15	410	952,416	8,251	4	453

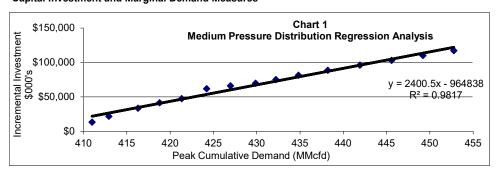
Note:

^{1.} Updated Historical from Demand Forecasting through 2027

TABLE LRMDC-9
SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT
Distribution Data for Regression Analysis
Capital Investment and Marginal Demand Measures

	Cumulative	Cumulative	Cumulative		
	Distribution	HPD	MPD		Cumulative
	Investment	Investment	Investment	Cumulative HPD	MPD Demand
	\$000's	\$000's	\$000's	Demand mmcfd	mmcfd
2013	\$16,782	\$3,445	\$13,337	444	411
2014	\$27,162	\$5,576	\$21,586	446	413
2015	\$41,899	\$8,601	\$33,298	450	416
2016	\$51,896	\$10,653	\$41,243	453	419
2017	\$59,480	\$12,210	\$47,271	455	421
2018	\$77,948	\$16,001	\$61,948	458	424
2019	\$83,219	\$17,083	\$66,137	461	427
2020	\$87,516	\$17,965	\$69,551	464	430
2021	\$94,444	\$19,387	\$75,057	467	432
2022	\$102,302	\$21,000	\$81,302	469	435
2023	\$111,514	\$22,891	\$88,623	473	438
2024	\$120,610	\$24,758	\$95,852	477	442
2025	\$129,660	\$26,616	\$103,045	481	446
2026	\$138,565	\$28,443	\$110,121	484	449
2027	\$147,287	\$30,234	\$117,053	488	453
Marginal Inve	estment	\$591.23	\$2,400.53		

TABLE LRMDC-9 (Cont)
SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT
Distribution Data for Regression Analysis
Capital Investment and Marginal Demand Measures



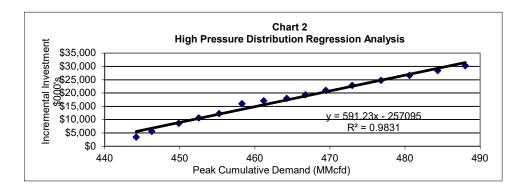


TABLE LRMDC-10 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT **FULLY LOADED DISTRIBUTION LRMCs** SDGE gas 2024

	HPD Marginal Cost \$/mcfd	MPD Marginal Cost \$/mcfd	
Marginal Cost of High Pressure Distribution		•	
Marginal Investment Cost \$/mcfd	\$591.23	\$2,400.53	Regression
RECC Factor	7.37%	7.37%	Finance
Annualized Investment Cost \$/mcfd	\$43.55	\$176.82	- -
O&M Expenses:			
O&M w/o A&G HPD \$000's	\$1,210	\$20,501	Loader Input
Marginal Percent of O&M HPD	91%	90%	Loader Input
HPD O&M Expense \$000's	\$1,102	\$18,529	·
2016 1-35 Peak-Day Demand mmcfd	462	440	HPD PD Det/ MPD PD Det
HPD O&M \$/mcfd	\$2.39	\$42.11	
O&M WEF for Escalation	1.06	1.06	Loader Input
O&M Cost \$/mcfd (2013 \$'s)	\$2.54	\$44.76	- -
O&M Loaders:			
A&G Loader:			
A&G Loader as % of direct O&M	27.94%	27.94%	Loader Input
% of A&G to be Functionalized	0%	0%	
A&G Loader \$/mcfd (as % of direct O&M)	\$0.71	\$12.51	-
General Plant Loader as % of direct O&M	24.95%	24.95%	Loader Input
General Plant Loader \$/mcfd	\$0.63	\$11.17	· -
M&S Loaders:			
Annualized M&S HDP Distribution Load Related Costs \$	\$156,567	\$606,163	Loader Input
2016 1-35 Peak-Day Demand mcfd	462,002	440,066	HPD PD Det/ MPD PD Det
O&M WEF for Escalation	1.06	1.06	Loader Input
M&S Cost \$/mcfd	\$0.36	\$1.46	· -
Marginal Unit Cost of Distribution	\$47.79	\$246.73	-

Notes:
Weighted average distribution RECC Factor from SDG&E Market Analysis & Planning Department.

Rows (9) - (12) & (24) - (27) from Workpapers

Tables "LF-1" and "LF-4", "LF-5", and "LF-6".

Escalation of O&M using weighted average escalation factor

TABLE LRMDC-11 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT SDGE gas 2024

ITION LRMC day)
\$2,400.53 <u>7.37%</u> \$176.82
\$44.76 \$12.51 \$11.17 <u>\$1.46</u> \$246.73

TABLE 6 HIGH-PRESSURE DISTRIBUTION LRMC (2024 \$/MCF HPD peak day)					
Marginal Investment Cost \$591.23 x RECC Factor 7.37% = Annualized Investment Cost \$43.55					
Expense-Related + O&M Cost + A&G Cost + General / Common Plant Cost + M&S Cost = Total Marginal Cost	\$2.54 \$0.71 \$0.63 <u>\$0.36</u> \$47.79				

SDG&E 2024 TCAP

Section 3 O&M Loaders Model for LRMC Studies

SDGE 2024 TCAP LRMC O&M Loader Model

	Output	Source Tab
O&M w/o A&G HPD	\$1,210	LF-O&M Tab
O&M w/o A&G MPD	\$20,501	LF-O&M Tab
Marginal Percent of O&M HPD	91.08%	Dist O&M MC
Marginal Percent of O&M MPD	90.38%	Dist O&M MC
Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses	27.94%	LF-A&G Tab
General Plant Loading Factor as a % or O&M expenses	24.95%	LF-GPL Tab
Annualized M&S Customer Related Costs \$/yr	\$419,449	LF-M&S Tab
Annualized M&S HDP Distribution Load Related Costs \$/yr	\$156,567	LF-M&S Tab
Annualized M&S MDP Distribution Load Related Costs \$/yr	\$606,163	LF-M&S Tab
O&M WEF for Escalation	1.06	O&M WEF Tab
Marginal Cust-Rel O&M		
870 - Operation Supervision & Engineering	\$3,782	Dist O&M MC
871 - Distribution Load Dispatching	\$19	Dist O&M MC
874 - Mains & Services Expenses	\$5,421	Dist O&M MC
875 - Measuring & Regulating Station Expenses	\$0	Dist O&M MC
878 - Meter & House Regulator Expenses	\$5,510	Dist O&M MC
879 - Customer Installations Expenses	\$8,727	Dist O&M MC
880 - Other Expenses	\$8,447	Dist O&M MC
881 - Rents	\$0	Dist O&M MC
885 - Maint Supervision & Engineering	\$0	Dist O&M MC
887 - Maintenance of Mains	\$1,237	Dist O&M MC
888 - Maintenance Of Compressor Station Eq	\$0	Dist O&M MC
889 - Maintenance of Meas. & Reg Station Eq	\$0	Dist O&M MC
892 - Maintenance of Services	\$2,998	Dist O&M MC
893 - Maint of Meters & House Regulators	\$2,258	Dist O&M MC
894 - Maintenance of Other Equipment	\$385	Dist O&M MC

TABLE LF-1 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

FUNCTIONALIZATION OF YEAR 2021 O&M EXPENSES SDGE 2024 TCAP

		\$ thousands											
	Frankland Franklan		MPD	HPD	Customer Costs	Total	Total	MPD	HPD	Customer Costs			
	Functional Factor	Base Margin	MPD	HPD	Costs	I otal	I otal	MPD	HPD	Costs	_		
Gas Distribution:													
870- Operation Supervision & Engineering	Other Distr Operating Exp	\$8,611	\$2,108	\$93	\$6,411	\$8,611	100.0%	24.5%	1.1%	74.4%			
871- Distr Load Dispatching	Other Distr Operating Exp	\$26	\$6	\$0	\$19	\$26	100.0%	24.5%	1.1%	74.4%			
874- Mains & Services Exp	Demand Customer Factor DCF	\$11,881	\$6,176	\$271	\$5,433	\$11,881	100.0%	52.0%	2.3%	45.7%			
875- Meas & Reg Station Exp	Demand Only Factor DOF	\$794	\$761	\$33	\$0	\$794	100.0%	95.8%	4.2%	0.0%			
877- Meas & Reg Station Exp-City Gas Ck Station	Demand Only Factor DOF	(\$13)	(\$12)	(\$1)	\$0	(\$13)	100.0%	95.8%	4.2%	0.0%			
878- Meter & House Regulator Exp 879- Customer Installations Exp	100% Customer Cost 100% Customer Cost	\$5,510 \$10,118	\$0 \$0	\$0 \$0	\$5,510 \$10.118	\$5,510 \$10,118	100.0% 100.0%	0.0%	0.0%	100.0% 100.0%			
879- Customer Installations Exp 880- Other Expenses		\$10,118 \$13.836	\$0 \$3.387	\$0 \$149	\$10,118 \$10.301	\$10,118 \$13.836	100.0%	0.0% 24.5%	0.0%	100.0% 74.4%			
880- Other Expenses 881- Rents	Other Distr Operating Exp Demand Only Factor DOF	\$13,836 \$34	\$3,387	\$149 \$1	\$10,301 \$0	\$13,836 \$34	100.0%	24.5% 95.8%	1.1% 4.2%	0.0%			
885- Maint Supervision & Engineering	Other Distr Maintenance Exp	\$0	\$0	\$0	\$0	\$0	100.0%	51.9%	4.2%	43.8%			
887- Maint Supervision & Engineering	Maint of Mains Factor Revised	\$8,863	\$6,925	\$609	\$1,330	\$8,863	100.0%	78.1%	6.9%	15.0%			
888- Maint. Of Compressor Station Equipment	Demand Only Factor DOF	\$0	\$0	\$0	\$0	\$0	100.0%	95.8%	4.2%	0.0%			
889- Maint.of Meas. & Reg Station Eq	Regulator Location Factor	\$910	\$876	\$34	\$0	\$910	100.0%	96.3%	3.7%	0.0%			
892- Maint.of Services	100% Customer Cost	\$2,998	\$0	\$0	\$2,998	\$2,998	100.0%	0.0%	0.0%	100.0%			
893- Maint.of Meters & Regulators	100% Customer Cost	\$2,258	\$0	\$0	\$2,258	\$2,258	100.0%	0.0%	0.0%	100.0%			
894- Maint.of Other Eq	DIR/Other Distr Maintenance Exp	\$647	\$242	\$20	\$385	\$647	100.0%	37.4%	3.1%	59.5%			
		\$66,473	\$20,501	\$1,210	\$44,761	\$66,473							
Calculation of Allocators: DCF Demand-Cust Factor		Total	Med. Prss	Hi Press	Customer								
Miles in 2016		15.285	7.945	349	6.990	Source: Gas D	Distribution Engl	neering					
		100.0%	52.0%	2.3%	45.7%	_ COUITOD. GRIS L	nonnument Eligi	iiig					
					,0	-							
Demand Only Factor		Total	Med. Prss	Hi Press	Customer	_							
Miles in 2016 (excludes service lines)		8,295	7,945	349	0	<== Customer	set to Zero sin	ce this exclude	es service line.				
		100.0%	95.8%	4.2%	0.0%	-							
		\$ thousands	MPD	HPD	Customer								
Other Distr Operating Exp factor 874- Mains & Services Exp		Total \$11,881	\$6,176	\$271	\$5,433	-							
875- Meas & Reg Station Exp		\$11,001	\$761	\$33	\$0,433								
877- Meas & Reg Station Exp-City Gas Ck Station		(\$13)	(\$12)	(\$1)	\$0								
878- Meter & House Regulator Exp		\$5,510	\$0	\$0	\$5,510								
879- Customer Installations Exp		\$10,118	\$0	\$0	\$10,118								
Total		\$28,289	\$6,924	\$304	\$21,061	-							
		100.0%	24.5%	1.1%	74.4%	-							
		Total	MPD	HPD	Customer								
Other Distr Maintenance Exp 887- Maint.of Mains		\$8,863	\$6.925	\$609	\$1,330	-							
888- Maint. Of Compressor Station Equipment		\$0,003	\$0,925	\$009	\$1,330								
889- Maint. of Meas. & Reg Station Eq		\$910	\$876	\$34	\$0								
892- Maint of Services		\$2.998	\$0	\$0	\$2,998								
893- Maint.of Meters & Regulators		\$2.258	\$0	\$0	\$2,258								
Total		\$15,029	\$7,801	\$642	\$6,585	-							
		100.0%	51.9%	4.3%	43.8%	-							
Malada d Malada Farata Deserva		T-4-1	MDD	HDD	Cust								
Maint.of Mains Factor DOF/DIR DIR portion		Total 15.0%	MPD	HPD	Customer 15.0%	Portion of sub	acct 887 3						
Remainder to be allocated by DOF factor		85.0%			.5.070		ervice line & allo	cated to Dist	Cust				
DOF factor		100.0%	91.9%	8.1%	0.0%		oution Engineer						
		85.0%	78.1%	6.9%	0.0%								
		100.0%	78.1%	6.9%	15.0%	_					Total	Med. Prss	Hi Press
		\$thousands				-					15,634	7,945	699
DIR/Other Distr Maintenance Exp Factor		Total	MPD	HPD	Customer	_					100.0%	50.8%	4.5%
Total acct 894 Main Other Equip		\$647											
Public access NGV station O&M		\$180				NGV Compres	sion Rate Adde	r - NGV Grou	p (only O&M)		Total	Med. Prss	Hi Press
% of total		27.9%			27.9%						8,644	7,945	699
DIR portion		27.9%			21.9%						100.0%	91.9%	8.1%
Remainder to be allocated by DOF factor		72.1% 100.0%	51.9%	4.3%	43.8%								
Other Distr Maintenance Exp Factor		72.1%	51.9% 37.4%	4.3% 3.1%	43.8% 31.6%								
		100.0%	37.4%	3.1%	59.5%	-							
		,-				=							
Reg Station Interface	# of Stations	% of total											
Transmission to HP Distribution	18	3.7%											
Transmission to HP Distribution HP Distribution to MP Distribution	18 327	3.7% 67.7%											
Transmission to HP Distribution	18	3.7%											

TABLE LF-2, Page 1 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

FUNCTIONALIZATION OF YEAR 2021 O&M EXPENSES 2024 TCAP

FERC Form 2

		FERC Form 2 12/31/2021	Dietributio	n Demand					
		12/3//2021	Medium	High	-		Distribution		
	FERC Account	Total	Pressure	Pressure	Transmission	Storage	Customer	Supply	
	A	В	С	D	E	F	G	н	
		\$thousands							
1	Purchased Gas Expenses:						•		1
2	807.4- Purchased Gas Calculations Expenses	\$0.0						\$0	2
3	807.5- Other Purchased Gas Expenses	\$0.4						\$0	3
4	+ Purchased Gas Expense Total	\$0						\$0	4
5	· ·							1	5
6	Other Storage:								6
7	840- Oper Supervision & Engineering	\$0				\$0			7
8	841- Oper Labor & Expenses	\$326				\$326			8
9	843-Maintenance	\$0				\$0			9
10	+ Other Storage Total	\$326				\$326.2			10
11									11
12	Gas Transmission								12
13	850- Oper Supervision & Eng	\$5,674			\$5,674				13
14	851- Sys Control & Load Dispatching	\$919			\$919				14
15	852- Communication Sys Exp	\$0			\$0				15
16	853- Compr Station Labor & Exp	\$3,893			\$3,893				16
17	855- Other Fuel & Power for Compr Stations	\$180			\$180				17
18	856- Mains Expenses	\$1,203			\$1,203				18
19	857- Meas & Reg Station Exp	\$561			\$561				19
20	858- Trans & Compression of Gas by Others	\$0			\$0				20
21	859- Other Expenses	\$1,288			\$1,288				21
22	860- Rents	\$4			\$4				22
23	861- Maint Supervision & Eng	\$394			\$394				23
24	862-Maint Structures and Improvements	\$0			\$0				
24	863- Maint of Mains	\$8,930			\$8,930				24
25	864- Maint of Compr Station Eq	\$767			\$767				25
26	865- Maint of Meas & Reg Station Eq	\$133			\$133				26
26	866 - Maint of Communication Eq	\$0			\$0				
27	867- Maint of Other Eq	\$325			\$325				27
28	+ Net Gas Transmission	\$24,272			\$24,272				28

TABLE LF-2, Page 2 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

FUNCTIONALIZATION OF YEAR 2021 O&M EXPENSES 2024 TCAP

			Distribution	Demand					
			Medium	High			Distribution		
	Description	Total	Pressure	Pressure	Transmission	Storage	Customer	Supply	
	A	С	D	E	F	G	Н	- 1	
		\$thousands							
1	Gas Distribution:								1
2	870- Operation Supervision & Engineering	\$8,611	\$2,108	\$93			\$6,411		2
3	871- Distr Load Dispatching	\$26	\$6	\$0			\$19		3
4	874- Mains & Services Exp	\$11,881	\$6,176	\$271			\$5,433		4
5	875- Meas & Reg Station Exp	\$794	\$761	\$33			\$0		5
	877- Meas & Reg Station Exp-City Gas Check Station	-\$13	-\$12	-\$1			\$0		
6	878- Meter & House Regulator Exp	\$5,510	\$0	\$0			\$5,510		6
7	879- Customer Installations Exp	\$10,118	\$0	\$0			\$10,118		7
8	880- Other Expenses	\$13,836	\$3,387	\$149			\$10,301		8
9	881- Rents	\$34	\$33	\$1			\$0		9
10	885- Maint Supervision & Engineering	\$0	\$0	\$0			\$0		10
11	887- Maint of Mains	\$8.863	\$6.925	\$609			\$1,330		11
12	888 - Maint, Of Compressor Station Equipment	\$0	\$0	\$0			\$0		12
13	889- Maint.of Meas. & Reg Station Eg	\$910	\$876	\$34			\$0		13
14	892- Maint.of Services	\$2.998	\$0	\$0			\$2.998		14
15	893- Maint of Meters & Regulators	\$2,258	\$0	\$0			\$2,258		15
16	894- Maint.of Other Eq	\$647	\$242	\$20			\$385		16
17	+ Distribution Total	\$66.473	\$20,501	\$1,210			\$44,761		17
18	+ Distribution rotal	φ00,473	\$20,501	\$1,210			φ 44 ,/01		18
19	Customer Accounts								19
20	901- Supervision	\$0.2					\$0		20
21	902- Meter Reading Expenses	\$1.106					\$1,106		21
21	903- Cust Records & Collection Exp	\$34.231					\$34.231		22
22	903- Cust Records & Collection Exp 904- Uncollectible Accounts								22
23	904- Uncollectible Accounts 905- Misc Cust Accounts Exp	\$2,895 \$1					\$2,895 \$1		23
25	Total Customer Accounts	\$38,234					\$38,234		25
26	less 903 & 904 - Adjustments	\$13,068					\$13,068		26
27	+ Net Customer Accounts	\$25,166					\$25,166		27
28									28
29	Customer Service & Informational Expense								29
30	907- Supervision	\$0					\$0		30
31	908- Cust Assistance Exp	\$34,748					\$34,748		31
32	909-Informational & Instructional Exp	\$349					\$349		32
33	910- Misc Cust Service & Informational Exp	\$59					\$59		33
34	Total Cust Svc & Info	\$35,157					\$35,157		34
35	less CARE/DSM/DAP/Energy Efficiency Exp	\$21,007					\$21,007		35
36	+ Net Cust Svc & Info	\$14,150					\$14,150		36
37									37
38	= Subtotal O&M w/o A&G	\$130,388	\$20,501	\$1,210	\$24,272	\$326	\$84,077	\$0	38
39	Percent of Total	100.0%	15.7%	0.9%	18.6%	0.3%	64.5%	0.0%	39
_	***					,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_

- Notes:

 1. O&M expenses from SDG&E Gas FERC Form 2 for year ending December 31, 2021, pp. 319 325.

 2. O&M expenses assigned to service categories using functional basis

 3. CARE Program expenses of approximately \$516,276 are excluded from FERC Acot # 903 because such costs recovered through G-PPPS Surcharge.

 4. "less CARE/DSM/DAP/Energy Efficiency Exp" = these are refundable program costs excluded from FERC Accounts 907 910.

Backed out cost for 2021:	FERC # 908	FERC # 903	Totals
CARE	\$0	\$516,276	\$516,276
Low Income Energy Efficiency	\$8,049,184		\$8,049,184
Energy Efficiency	\$4,496,000		\$4,496,000
Self Generation Program	\$2,397,797		\$2,397,797
Avoided Cost Calculator Update Memorandum Account	\$9,279		\$9,279
California Solar Initiative Thermal Program Memorandum Account	\$1,258,343		\$1,258,343
Customer Information System Balancing Account Account		\$4,150,073	\$4,150,073
Biomethane Cost Incentive Program Balancing Account	\$2,710,475		\$2,710,475
California Consumer Privacy Act Memorandum Account		\$95,635	\$95,635
Emergency Customer Protection Memorandum Account	-\$5,663		(\$5,663)
Green House Gas Balancing Account	\$2,538,750		\$2,538,750
Greenhouse Gas Administrative Costs Memorandum Account		\$6,428	\$6,428
Port Energy Management Plan Balancing Account	\$38,340		\$38,340
Residential Disconnect Protections Memo Account		\$252,154	\$252,154
Statewide Energy Efficiency Programs	-\$485,766		(\$485,766)
Transition, Stabilization and OCM Balancing Account		\$5,151,736	\$5,151,736
Total Adjustment for FERC	\$21,006,739	\$10,172,301	\$31,179,040

TABLE LF-3 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

MARGINAL COST ASSESSMENT - DISTRIBUTION O&M EXPENSES 2024 TCAP

			Dem	and-Related Distrib	oution				C	ustomer-Related		
		Total	Medium	Marginal	Marginal	High	Marginal	Marginal	Distribution	Marginal	Marginal	
	Distribution O&M Account	O&M	Pressure	Portion	MPD O&M	Pressure	Portion	HPD O&M	Customer	Portion	Cust-Rel O&M	
	A	В	С	D	E	F	G	Н		J	K	$\overline{}$
1	Gas Distribution:											1
2	870 - Operation Supervision & Engineering	\$8,611	\$2,108	59%	\$1,244	\$93	59%	\$55	\$6,411	59%	\$3,782	2
3	871 - Distribution Load Dispatching	\$26	\$6	100%	\$6	\$0	100%	\$0	\$19	100%	\$19	3
4	874 - Mains & Services Expenses	\$11,881	\$6,176	100%	\$6,162	\$271	100%	\$271	\$5,433	100%	\$5,421	4
5	875 - Measuring & Regulating Station Expenses	\$794	\$761	100%	\$761	\$33	100%	\$33	\$0	100%	\$0	5
6	878 - Meter & House Regulator Expenses	\$5,510	\$0	100%	\$0	\$0	100%	\$0	\$5,510	100%	\$5,510	6
7	879 - Customer Installations Expenses	\$10,118	\$0	86%	\$0	\$0	86%	\$0	\$10,118	86%	\$8,727	7
8	880 - Other Expenses	\$13,836	\$3,387	82%	\$2,777	\$149	82%	\$122	\$10,301	82%	\$8,447	8
9	881 - Rents	\$34	\$33	100%	\$33	\$1	100%	· \$1	\$0	100%	\$0	9
10	885 - Maint Supervision & Engineering	\$0	\$0	100%	\$0	\$0	100%	\$0	\$0	100%	\$0	10
11	887 - Maintenance of Mains	\$8,863	\$6,925	93%	\$6,440	\$609	93%	\$566	\$1,330	93%	\$1.237	11
12	888 - Maintenance Of Compressor Station Eq	\$0	\$0	0%	\$0	\$0	0%	\$0	\$0	0%	\$0	12
13	889 - Maintenance of Meas. & Reg Station Eg	\$910	\$876	100%	\$876	\$34	100%	\$34	\$0	100%	\$0	13
14	892 - Maintenance of Services	\$2,998	\$0	100%	\$0	\$0	100%	\$0	\$2,998	100%	\$2.998	14
15	893 - Maint of Meters & House Regulators	\$2,258	\$0	100%	\$0	\$0	100%	\$0	\$2,258	100%	\$2,258	15
16	894 - Maintenance of Other Equipment	\$647	\$242	100%	\$242	\$20	100%	\$20	\$385	100%	\$385	16
17	Distribution Total	\$66,485	\$20,513	90.4%	\$18,540	\$1,211	91.1%	\$1,103	\$44,761	87%	\$38,782	17

Notes:

- tes:

 1. O&M expenses assigned to customer- and demand-related functional service categories at Workpapers to Testimony, Table "LF-2", Page 2 of 2 (tab LF-O&M)

 2. Col. (E) = Col. (C) x Col. (D).

 3. Col. (H) = Col. (F) x Col. (G).

 4. Col. (K) = Col. (J) x Col. (J).

 5. Marginal Cost assessment performed in conjunction w/ SDG&E Gas Distribution Operations Department subject matter experts.

TABLE LF-4 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

MATERIALS & SUPPLIES LOADING FACTOR 2024 TCAP

		2021			Annualized	
		Year End Plant	Portion of	M&S	M&S @	
	Description	Balances	Total Plant	Allocation	13.12%	
	A	В	С	D	E	
		(Dollars)	(Percent)	(Dollars)	(Dollars)	
1 2	Materials & Supplies			\$11,499,626		1 2
3	Storage Transmission	\$2,168,803 \$630,704,840	0.1% 20.7%	\$8,186 \$2,380,673	\$1,074 \$312,444	3 4
5	Distribution					5
6	Demand - HPD	\$316,049,448	10.4%	\$1,192,968	\$156,567	6
7	Demand - MPD	\$1,223,613,223	40.2%	\$4,618,679	\$606,163	7
8	Customer	\$846,707,203	27.8%	\$3,196,001	\$419,449	8
9	General Plant	\$27,319,254	0.9%	\$103,120	\$13,534	9
10 11	Total	— \$3,046,562,771	100.0%	\$11,499,626	\$1,509,231	10 11

Notes:

Row (6) Plant Balance = [Total Dist Plant - Cust-Rel Dist Plant] x Historical HPD Plant Factor.
Row (7) Plant Balance = [Total Dist Plant - Cust-Rel Dist Plant] x [1 - Historical HPD Plant Factor].

Historical HPD Plant Investment Allocation Factor = H For Rows (6) - (7):

. Total Plant Investment substituted in place of NBV because LRMC not dependant on age of investment.

Row (8) Plant Balance = Dist Plant Accounts 380 (Services) + 381 (Meters) + 382 (Meter Installations) + 387 (NGV Stations + Other Equipme

Calculation Distribution Plant:		Sources
Total Plant Distribution	\$2,513,342,113	Per FERC Form 2, page 209, line 109
Less 388 (ARO's)	(\$125,978,516)	
Less 387	(\$11,397,018)	
Plus NGV in 387	\$10,403,295	
Total Plant Distribution	\$2,386,369,874	
	<u>Plant</u>	
G-387.11	\$993,723	Per FERC Form 2
G-387.12	\$9,745,099	Per FERC Form 2
G-387.13	\$658,196	Per FERC Form 2
Total FERC 387	\$11,397,018	

Calculation Customer Plant:		Sources
380 - Services	\$522,356,357	Per FERC Form 2
381 - Meters	\$188,284,845	Per FERC Form 2
382 - Meter Installation	\$125,662,706	Per FERC Form 2
387 - NGV/ Other equipment	\$10,403,295	Per FERC Form 2
Total Customer Plant	\$846,707,203	

TABLE LF-5 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

ADMINISTRATIVE & GENERAL LOADING FACTOR 2024 TCAP

	FERC Account	Account Description	FERC 2021 Recorded	Marginal Portion	Marginal A&G		Comments	
	Α	В	С	D	Е			
			(1,000\$)	(Percent)	(1,000\$)		_	
1	920	Administrative & General Salaries	\$21,069	0.00%	\$0	1		
2	921	Office Supplies & Expenses	\$12,073	2.09%	\$252	2		
3	922	Administrative Expenses Transferred	-\$6,815	0.00%	\$0	3		
4	923	Outside Services Employed	\$37,655	0.00%	\$0	4		
5	924	Property Insurance	\$1,449	0.00%	\$0	5		
6	925	Injuries & Damages	\$8,516	100.00%	\$8,516	6		
7	926	Employee Pensions & Benefits	\$19,656	99.37%	\$19,532	7		
8	927	Franchise Requirements	\$14,820	0.00%	\$0	8		
9	928	Regulatory Commission Expense	\$7,341	25.89%	\$1,901	9		
	930.1	General Advertising Expense	\$20	0.00%	\$0			
10	930.2	Miscellaneous General Expense	\$1,471	21.89%	\$322	10		
11	931	Rents	\$3,643	0.00%	\$0	11		
12	932	Maintenance of General Plant	\$6,367	11.17%	\$711	12		
13		Total A&G Expenses	\$127,265		\$31,234	13		
14						14		
15		Payroll Taxes	\$5,194		\$5,194	15		
16		Payroll Taxes	\$132,460		\$36,429	16	Rates	
	Remove P&B	and Payroll tax on non-marginal A&G			-5764.4		PT	0.0646
		and Payroll tax on exclusions			-443.4		P&B	0.2090
17	Net marginal	A&G			30,221	17		
18		Recorded A&G Expenses	\$130,388		\$130,388	18	LF-O&M tab	
19		·				19		
20	Total O&M		\$262,847			20		
21	(Net of Compre	essor Fuel & Gas Purchases)	•			21		
22	,	•				22		
	A&G/O&M Lo	ading Factor			27.94%	23		

Notes:

- 1. A&G expenses from SDG&E Gas FERC Form 2 for year ending December 31, 20121 pp. 325.
- 2. Row (23) = Marginal A&G Expenses @ Row 16 ÷ Total O&M Less A&G @ Row 18 are excluded from base margin. Amount from FERC Form 1 page 351 Line 2 Reimbursement Fees.
- 3. Payroll Taxes from FERC Form 2 for the year ended 12-31-2021 front of the report in summary version right before the cover page for FERC Form 1. The amount for 2021 is \$5,194.46 "Taxes Other than Income & Property Taxes".

 Selected Financial Data = Class A, B, C and D Gas Utilities, page 2
- 4. Marginal Portion per LRMC study

TABLE LF-6 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

GENERAL PLANT LOADING FACTOR 2024 TCAP

		2016		
	Description	Recorded	Comments	Recorded
	A	В		В
		(Dollars)		(Dollars)
1	Total General, Common Plant (12/31/2016)	\$598,939,671	1 FERC 2021	\$164,602,743
2	L		2	
3	Weighted Average General, Common Plant RECC	10.95%	3 2020 RECC	10.29%
4			4	
5	Annualized Plant	\$65,570,773	5	\$16,930,026
6		4 , - : - , :	6	***************************************
			_	
7	O&M Expenses (2013 recorded)	\$262,847,153	7 LF- A&G tab.	\$160,615,835
8			8	
9	General Plant Loading Factor	24.95%	9	10.54%

Notes:

1. Common and General Gas Plant from SDG&E Gas FERC Form 1 pp. 356.1 and FERC Form 2 pp. 209, for year ending December 31, 2016, respectively.

Calculation Total General, Common Plant :		Sources
Total General Plant	\$27,319,254	FERC Form 2 pp. 209
Common Utility Plant - Gas	\$571,620,417	SDG&E Gas FERC Form 1 pp. 356.1
Total	\$598,939,671	_

TABLE LF-7 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

O&M WEIGHTED ESCALATION FACTOR 2024 TCAP

	Description	Dollars	Percent	
	A	В	С	
1 2	2021 Total Gas O&M Expenses 2021 Total Salaries & Wages	\$262,847,153 \$86,307,392	100% 33%	
3 4	2016 Non-Labor O&M Expenses	\$176,539,761	67%	
5 6 7	2021 O&M Labor Multiplier 2024 O&M Labor Multiplier	1.000 1.098	110%	5 6 7
	2021 O&M Non-Labor Multiplier 2024 O&M Non-Labor Multiplier	1.000 1.046	105%	8 9 10
11	Weighted O&M Escalation to 2023	1.0631	1.0631	11

Notes:

- 1. Row (3) = Row (1) Row (2).
- 2. Row (11) = [Row (9) x Row (3) percent] + [Row (6) x Row (2) percent].
- 3. Row (1) from Table "LF-5".
- 4. Rows (5) (9) from O&M Cost Indexes

TABLE LRMCC-10a SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

ALOCATION FACTORS FOR CUSTOMER O&M EXPENSES 2020 TCAP

Description	Res	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	Cogen > 3 MM	Total	Total Noncore	System Total
A	В	С	D	Е	F	G	Н	I	J	K	M	N
4 T + 1 F 110 1												
1 Total Field Orders	91.717	0	F 220	96.054	9	0	0	1	2	2	10	97.077
All-r %	81,716 94%	8 0%	5,230 6%	86,954 100%	0%	0	9 0%	0%	0%	3 0%	12 0%	86,966 100%
3 Alloc %	94%	0%	6%	100%	0%	0%	0%	0%	0%	0%	0%	100%
5 Customer Services Field Orders												
6 Allocator - 2021 Count	81,716	8	5,230	86,954	9	0	9	1	2	3	12	86,966
7 Alloc %	94%	0%	6%	100%	0%	0%	0%	0%	0%	0%		100%
8												
9 Customer Contact Center CSR Call Information												
10 Allocator - Call Volume Weighted by Handle Time - Year 2016	data 3,895,864	-	242,017	4,137,881	-	-	-	-	-	-	-	4,137,881
11 Alloc %	94%	0%	6%	100%	0%	0%	0%	0%	0%	0%	0%	100%
13												
14 Active Meters - All Customers												
15 Allocator - 2021 Count	868,559	43	27,077	895,679	49	16	65	74	10	84	149	895,828
16 Alloc %	97%	0%	3%	100%	0%	0%	0%	0%	0%	0%	0%	100%
17												
18 Active Meters - Noncore Commercial, EG												
9 Allocator - 2021 Count				-	49	16	65	74	10	84	149	149
Alloc %	0%	0%	0%	0%	33%	11%	44%	50%	7%	56%	100%	100%
1												
Effort Study - Federal Accounts	10		400	200	0		0					220
Allocator - 2016 Count Alloc %	10 5%	- 0%	199 90%	209	9	- 0%	9 4%	- 0%	2 1%	2 1%	11 5%	220
4 Alloc % 5	3%	0%	90%	95%	4%	0%	4 %	0%	1%	1 %	5%	100%
6 Active Billing Accounts - All Customers												
7 Allocator - 2021 Count	868,559	43	27,077	895,679	47	9	56	72	9	81	137	895,816
8 Alloc %	97%	0%	3%	100%	0%	0%	0%	0%	0%	0%		100%
9	37 /0	0 /0	370	10070	0 70	0 /0	0 70	0 70	0 /0	0 70	070	10070
0 Active Billing Accounts - Mass Markets Customers												
1 Allocator - 2021 Count	868,559	43	27,077	895,679	-	_	-	_	-	-	_	895,679
2 Alloc %	97%	0%	3%	100%	0%	0%	0%	0%	0%	0%	0%	100%
3			·									
4 Active Billing Accounts - Major Markets Customers												
5 Allocator - 2021 Count				-	47	9	56	72	9	81	137	137
6 Alloc %	0%	0%	0%	0%	34%	7%	41%	53%	7%	59%	100%	100%
7												
8 C&I Markets												
Noncore Allocator - Active Accounts				0	47	9	56	72	9	81	137	137
0 Alloc %	0.00%	0.00%	99.50%	99.50%	0.17%	0.03%	0.21%	0.26%	0.03%	0.30%	0.50%	100.00%
11												
Demand Response Program - Commercial Customers												
Noncore Allocator - Active Accounts					47	9	56					
44 Alloc %	0.00%	0.00%	90.00%	90%	8%	2%	10%	0%	0%	0%	10%	100%

TABLE LRMCC-10a SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

ALOCATION FACTORS FOR CUSTOMER O&M EXPENSES 2020 TCAP

	Description	Res	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	Cogen > 3 MM	Total	Total Noncore	System Total	
	A	В	С	D	E	F	G	Н	I	J	K	M	N	
45 46 47	Meter Reading Function Net Allocation Allocator - M\$'s	\$117,160	\$6	\$3,652	\$120,818	\$7	\$2	\$9	\$10	\$1	\$11	\$20	\$120,838	45 46 47
48	Alloc %	97%	0%	3%	100%	0%	0%	0%	0%	0%	0%	0%	100%	48
49														49
50	FERC 901 - 903 Net Allocation													50
51	Allocator - M\$'s	868,559	43	27,077	895,679	49	16	65	74	10	84	149	895,828	51
52	Alloc %	97%	0%	3%	100%	0%	0%	0%	0%	0%	0%	0%	100%	52

TABLE LRMCC-10b SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT SUMMARY OF LRMC ALLOCATION OF CUSTOMER O&M EXPENSES 2020 TCAP

	O&M Operational Activity	Total O&M	Res	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	Cogen > 3 MM	Total	IPP	Total Noncore	System Total	
	A	В	С	D	Е	F	G	Н	I	J	K	L	M	N	0	\blacksquare
1 2 3 4 5 6 7	CUSTOMER CONTACT Total METER READING Total BILLING SERVICES Total CUSTOMER RESEARCH & COMMUNICATION Total CONSUMER PROGRAMS & SERVICES Total OTHER Total	\$9,845 \$120,838 \$397,794 \$157,128 \$192,630 \$0	\$9,269 \$117,160 \$370,009 \$152,347 \$186,767 \$0	\$0 \$6 \$18 \$8 \$9 \$0	\$576 \$3,652 \$11,535 \$4,749 \$5,822 \$0	\$9,845 \$120,818 \$381,562 \$157,104 \$192,599 \$0	\$0 \$7 \$5,339 \$8 \$10 \$0	\$0 \$2 \$1,741 \$2 \$3 \$0	\$0 \$9 \$7,079 \$10 \$14 \$0	\$0 \$10 \$8,063 \$13 \$15 \$0	\$0 \$1 \$1,089 \$2 \$2 \$0	\$0 \$11 \$9,152 \$14 \$18 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$20 \$16,232 \$24 \$31 \$0	\$9,845 \$120,838 \$397,794 \$157,128 \$192,630 \$0	2 3 4 7 10 14 16
8	Total Allocation %	\$878,235 100%	\$835,552 95%	\$41 0%	\$26,335 3%	\$861,928 98%	\$5,364 1%	\$1,748 0%	\$7,112 1%	\$8,101 1%	\$1,094 0%	\$9,196 1%	\$0 0%	\$16,307 2%	\$878,235 100%	17 18

Note:

 O&M Operational Activities cost assigned using allocation methods identified for each SDG&E department in the Customer Operations division. Data from below

ALLOCATION OF CUSTOMER CONTACT CENTER O&M EXPENSES BY CUSTOMER CLASS

	Cost Center(s)	Total O&M	Res	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	Cogen > 3 MM	Total	IPP	Total Noncore	System Total	
	A	В	С	D	Е	F	G	Н	ı	J	K	L	M	N	0	
1 2 3	CUSTOMER CONTACT CENTER Allocator - CSR Call Volume Weighted by Handle Time Allocation (\$)	\$9,845	94% \$9,269	0% \$0	6% \$576	100% \$9,845	0% \$0	0% \$0	0% \$0	0% \$0	0% \$0	0% \$0	0% \$0	0% \$0	100% \$9,845	3
10	Total Customer Contact Center O&M Allocation (\$)	\$9,845	\$9,269	\$0	\$576	\$9,845	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,845	10
11	Allocation %	100%	94%	0%	6%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	11

Source SDGE Details Acct 901-910 Costs.xls

ALLOCATION OF METER READING O&M EXPENSES BY CUSTOMER CLASS

	Cost Center(s)	Total O&M	Res	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	Cogen > 3 MM	Total	IPP	Total Noncore	System Total	
	A	В	С	D	Е	F	G	Н		J	K	L	M	N	0	
1 2	METER READING Allocator - Active Meters: All Customers	*400.000	97%	0%	3%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
3	Allocation (\$)	\$120,838	\$117,160	\$6	\$3,652	\$120,818	\$7	\$2	\$9	\$10	\$1	\$11	\$0	\$20	\$120,838	
4	Total Meter Reading O&M Allocation (\$)	\$120,838	\$117,160	\$6	\$3,652	\$120,818	\$7	\$2	\$9	\$10	\$1	\$11	\$0	\$20	\$120,838	
5	Allocation %	100%	97%	0%	3%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	_5

Source SDGE Details Acct 901-910 Costs.xls

ALLOCATION OF BILLING SERVICES CUSTOMER O&M EXPENSES BY CUSTOMER CLASS

	Cost Center(s)	Total O&M	Res	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	Cogen > 3 MM	Total	IPP	Total Noncore	System Total	
	A	В	С	D	E	F	G	Н		J	K	L	M	N	0	
1	MAJOR MARKET BILLING Total															1
2	Allocator - Active Meters N/C C&I		0%	0%	0%	0%	33%	11%	44%	50%	7%	56%	0%	100%	100%	2
3	Allocation (\$)	\$16,173	\$0	\$0	\$0	\$0	\$5,319	\$1,737	\$7,056	\$8,032	\$1,085	\$9,118	\$0	\$16,173	\$16,173	3
4	MASS MRKET BILLING Total															4
5	Allocator - Active Accounts: All Customers		97%	0%	3%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	5
6	Allocation (\$)	381,620	\$370,009	\$18	\$11,535	\$381,562	\$20	\$4	\$24	\$31	\$4	\$35	\$0	\$58	\$381,620	6
7	Total Billing Services O&M Allocation (\$)	\$397,794	\$370,009	\$18	\$11,535	\$381,562	\$5,339	\$1,741	\$7,079	\$8,063	\$1,089	\$9,152	\$0	\$16,232	\$397,794	7
8	Allocation %	100%	93%	0%	3%	96%	1%	0%	2%	2%	0%	2%	0%	4%	100%	8

Source SDGE Details Acct 901-910 Costs.xls

ALLOCATION OF CUSTOMER RESEARCH & COMMUNICATION O&M EXPENSES BY CUSTOMER CLASS

	Cost Center(s)	Total O&M	Res	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	Cogen > 3 MM	Total	IPP	Total Noncore	System Total	
	A	В	С	D	E	F	G	Н		J	K	L	M	N	0	\equiv
1 2	COMMUNICATIONS Total Allocator - Active Accounts: All Customers		97%	0%	3%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	1 2
3	Allocation (\$)	\$157,128	\$152,347	\$8	\$4,749	\$157,104	\$8	\$2	\$10	\$13	\$2	\$14	\$0	\$24	\$157,128	
	Total Business Analysis O&M Allocation (\$)	\$157,128	\$152,347	\$8	\$4,749	\$157,104	\$8	\$2	\$10	\$13	\$2	\$14	\$0	\$24	\$157,128	
5	Allocation %	100%	97%	0%	3%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	5

Source SDGE Details Acct 901-910 Costs.xls

ALLOCATION OF NON-REFUNDABLE FERC ACCOUNT 907 O&M EXPENSES BY CUSTOMER CLASS

	Cost Center(s)	Total O&M	Res	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	Cogen > 3 MM	Total	IPP	Total Noncore	System Total	
	A	В	С	D	E	F	G	Н		J	K	L	M	N	0	
1	FERC 907		97%	00/	20/	4000/	00/	00/	00/	00/	00/	984	00/	00/	1000/	1
3	Allocator - FERC 901 - 905 Net Allocation Allocation (\$)	\$0	97% \$0	0% \$0	3% \$0	100% \$0	0% \$0	0% \$0	0% \$0	0% \$0	0% \$0	0% \$0	0% \$0	0% \$0	100% \$0	
4	FEDERAL ACCOUNTS Total															4
5	Allocator - 15% Res / Active Meters: Federal Accounts		5%	0%	90%	95%	4%	0%	4%	0%	1%	1%	0%	5%	100%	5
6	Allocation (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	6
7	Total FERC 907 Allocation (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	7
8	Allocation %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	8

Source SDGE Details Acct 901-910 Costs.xls

ALLOCATION OF NON-REFUNDABLE FERC ACCOUNT 908 O&M EXPENSES BY CUSTOMER CLASS

	Cost Center(s)	Total O&M	Res	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	Cogen > 3 MM	Total	IPP	Total Noncore	System Total	
	A	В	C	D	E	F	G	Н	ı	J	K	L	M	N	0	
10	DIR CUSTOMER PROGRAM															10
11			97%	0%	3%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	11
12	Allocation (\$)	\$187,195	\$181,497	\$9	\$5,658	\$187,164	\$10	\$3	\$14	\$15	\$2	\$18	\$0	\$31	\$187,195	12
13	CUSTOMER SERVICE MAS															13
14	Active Billing Accounts - Mass Markets Customers		97%	0%	3%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	14
15	Allocation (\$)	\$5,435	\$5,270	\$0	\$164	\$5,435	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,435	15
49	Total FERC 908 Allocation (\$)	\$192,630	\$186,767	\$9	\$5,822	\$192,599	\$10	\$3	\$14	\$15	\$2	\$18	\$0	\$31	\$192,630	49
50	Allocation %	100%	97%	0%	3%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	50

Source SDGE Details Acct 901-910 Costs.xls

ALLOCATION OF NON-REFUNDABLE FERC ACCOUNT 909-910 O&M EXPENSES BY CUSTOMER CLASS

	Cost Center(s)	Total O&M	Res	NGV	GN-3	Total Core	GTN: MPD	C HPD	Total		gen 3 MM > 3 N	IM Total	IPP	Total Noncore	System Total	
	A	В	C	D	Е	F	G	Н		J	K	L	M	N	0	
7 8	CUSTOMER COMMUNICATIONS & RESEARCH - Subto Allocator - Active Accounts: All Customers Allocation (\$)		97% \$0 \$0	0% \$0	3% \$0	100% \$0	0% \$0	0% \$0	0% \$0	0%	5 0% \$0	0% \$0	0%	0% \$0	100%	7 8 9
	Total FERC 909-910 Allocation (\$) Allocation %	\$0	\$0 0%	\$0	\$0 1%	\$0	0% \$0	\$0 0%	\$0 0%	0% \$0	\$0	\$0	0% \$0	\$ 0	\$ 0	13 0% 14

Source SDGE Details Acct 901-910 Costs.xls

TABLE LRMCC-10c SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT 2024 TCAP

TABLE 8 A&G LOADING FACTOR										
Account Description	Marginal Costs 2024 \$ 000s									
A&G Expenses + Payroll Taxes = Total A&G with Payroll Taxes	\$31,234 \$5,194 \$36,429									
/ Total O&M Expenses excluding A&G = A&G Loading Factor	<u>\$130,388</u> 27.94%									

TABLE 9 GENERAL PLANT LOADING FACTOR									
Account Description	2020 Recorded Costs 2024 \$ 000s								
Total General Plant + Average General Plant RECC = Annualized General Plant	\$598,940 <u>10.95%</u> \$65,571								
/ Total O&M Expenses = General Plant Loading Factor	<u>\$262,847</u> 24,95%								

TCAP 2024 Base Year 2021

SDG&E 2024 TCAP

Section 4
Cost Allocation

	TABLE 11									
UNSCALED LONG RUN MARGINAL COST										
CUSTOMER COST										
Customer Class	Customer LRMC \$/customer	Customer Count	Customer Cost \$000							
Residential Core C/I	\$269 \$590	909,359 30,488	\$244,982 \$17,981							
NGV	\$1,603	36	\$58							
Total Core			\$263,020							
Noncore C/I Small EG	\$3,409 \$1,588	58 83	\$198 \$132							
Large EG	\$4,251	15	\$64							
Total Noncore			\$393							
Total SDG&E			\$263,414							

		TABLE	12								
	UNSCALED LONG RUN MARGINAL COST										
DISTRIBUTION COSTS											
HPD H											
	MPD LRMC	MPD Peak-	MPD Costs	LRMC	HPD Peak-	Costs					
Customer Class	\$/mcfd	Day (Mcfd)	\$000	\$/mcfd	Day (Mcfd)	\$000					
Residential	\$247	292,353	\$72,131	\$48	292,372	\$13,972					
Core C/I	\$247	95,840	\$23,646	\$48	97,659	\$4,667					
NGV	\$247	3,491	\$861	\$48	6,175	\$295					
Total Core			\$96,639			\$18,934					
Noncore C/I	\$247	8,451	\$2,085	\$48	9,163	\$438					
Small EG	\$247	5,759	\$1,421	\$48	8,101	\$387					
Large EG	\$247	1,119	\$276	\$48	10,369	\$496					
Total Noncore			\$3,782			\$1,321					
Total SDG&E			\$100,421			\$20,254					

TABLE 13
LONG RUN MARGINAL COST SCALED CUSTOMER AND DISTRIBUTION COSTS
\$ 000

Customer Class	Customer Cost	+	MPD	+	HPD	=	Unscaled LRMC	х	Scalar	=	Scaled LRMC
Residential	\$244,982		\$72,131		\$13,972		\$331,085		99%		\$327,566
Core C/I	\$17,981		\$23,646		\$4,667		\$46,294		99%		\$45,802
NGV	\$58		\$861		\$295		\$1,214		99%		\$1,202
Total Core	\$263,020		\$96,639		\$18,934		\$378,593		99%		\$374,570
Noncore C/I	\$198		\$2,085		\$438		\$2,721		99%		\$2,692
Small EG	\$132		\$1,421		\$387		\$1,940		99%		\$1,919
Large EG	\$64		\$276		\$496		\$835		99%		\$827
Total Noncore	\$393		\$3,782		\$1,321		\$5,496		99%		\$5,438
Total SDG&E	\$263,414	;	\$100,421		\$20,254		\$384,089		99%		\$380,008

	ALLOCA		ABLE 14 N OF BASE MA	RG	IN					
\$ 000										
Customer Class	Scaled LRMC	+	Backbone Transmission	+	NGV Public Access	=	Unadjusted Allocated Base Margin			
Residential	\$327,566		\$0		\$0		\$327,566			
Core C/I	\$45,802		\$0		\$0		\$45,802			
NGV	\$1,202		\$0		\$774		\$1,976			
Total Core	\$374,570		\$0		\$774		\$375,344			
Noncore C/I	\$2,692		\$0		\$0		\$2,692			
Small EG	\$1,919		\$0		\$0		\$1,919			
Large EG	\$827		\$0		\$0		\$827			
Total Noncore	\$5,438		\$0		\$0		\$5,438			
Backbone Transmission	\$0		\$69,374		\$0		\$69,374			

\$69,374

\$774

\$450,156

\$380,008

Total SDG&E

TABLE 13 COST ALLOCATION COMPARISON \$ 000

Customer Class	Adjusted Allocation of Base Margin	% Total	Current Allocation of Base Margin	% Total
	\$007.500	70.00/	4000.045	75.40/
Residential	\$327,566	72.8%	\$339,615	75.4%
Core C/I	\$45,802	10.2%	\$55,304	12.3%
NGV	\$1,976	0.4%	\$2,273	0.5%
Total Core	\$375,344	83.4%	\$397,192	88.2%
Noncore C/I - D	\$2,692	0.6%	\$2,400	0.5%
EG - D	\$1,919	0.4%	\$3,679	0.8%
TLS	\$827	0.2%	\$61	0.0%
Total Noncore	\$5,438	1.2%	\$6,140	1.4%
Backbone Transmission	\$69,374	15.4%	\$46,823	10.4%
Total SDG&E	\$450,156		\$450,156	

SDGE Gas Transmission and Distribution

SAN DIEGO GAS & ELECTRIC

2021 Economic Assumptions Update LEVELIZED ANNUAL CAPITAL COST AND RECC FACTORS utility sdge gas Auth ROR ===> 7.55% Fed Tax Rate ===> 21.00% State Tax Rate ===> 8.84% \d Valorum Rate ===> 1.610%

FeRC Account Name Fed State Book Tax Tax Tax Percent Federal State Tax T		utility sdge gas	Au	th RO	R ===>	7.55%		Fed ⁻	Fax Rate	====>	21.00%)	State Tax	Rate ===>	8.84%	\d Valorum	Rate ===>	1.610%		
Account Name Book Tax Tax Percent Federal Tax State Tax Dept Capital Taxes	EERC			Fed	State		Normlzd	Normlzd	Г	Depreciat	ion Metho	od		LACC Co	mponents	(in percent)			D\/CC	Sum of
GAS TRANSMISSION PLANT 9 10 11 12 13 14 15 16 19 20 21 22 23 25 26 27		Account Name							Feder	al Tax	State	Tax						RECC factors		
G-365.1 Land Rights			Life	Life	Life	Salvage	Taxes ?	Taxes?	1 0001	ui iux		Tux	Depr	Capital	Taxes	Taxes	LACC			
G-366 Structures & Improvements 34 99 45 0% TRUE FALSE IS 0% SI 0%	GAS TR	ANSMISSION PLANT	9	10	11	12	13	14		15		16	19	20	21	22	23	25	26	27
G-366 Structure's & Improvements 34 39 45 0% TRUE FALSE sl 0% sl 0% db/sl 200% db/sl 200% db/sl 200% 3.14 4.71 1.22 1.04 10.12 8.31 121.72 209.98 G-368 Compressor Station Equipment 35 15 22 -10% TRUE FALSE db/sl 150% db/sl 200% 3.14 4.71 1.22 1.04 10.12 8.31 121.72 209.98 G-369 Measuring & Regulating Equipment 31 15 22 -10% TRUE FALSE db/sl 150% db/sl 200% 3.39 4.71 1.24 1.04 10.12 8.31 121.72 209.98 G-371 Compressor Station Equipment 27 15 22 0% TRUE FALSE db/sl 150% db/sl 200% 3.39 4.71 1.24 1.04 10.37 8.63 121.19 256.99 G-374 Land G-374 Land G-374 Land Rights 31 40 40 0% FALSE FALSE sl 0% sl 0% 3.23 5.09 1.65 1.06 11.02 9.16 130.65 274.18 G-376 Mains G-9 20 35 -55% TRUE FALSE db/sl 150% db/sl 200% db/sl 200% 3.23 5.09 1.65 1.06 11.02 9.16 130.65 274.18 G-376 Mains G-376 Structures & Improvements 44 39 45 0% TRUE FALSE db/sl 150% db/sl 200% 2.27 5.46 1.55 1.16 11.04 8.35 132.66 342.48 G-376 Mains G-376	G-365.1	Land	0	0	0	0%	FALSE	FALSE	none		none	0%	0.00	7.70	2.25	1.61	11.55	n/a	150.09	1188.48
G-368 Compressor Station Equipment 35 15 22 -25% TRUE FALSE db/sl 150% db/sl 200% 3.14 4.71 1.22 1.04 1.01.2 8.31 1.21.72 (269.98 G-369 Measuring & Regulating Equipment 27 15 22 1.0% TRUE FALSE db/sl 150% db/sl 200% 3.14 4.71 1.22 1.04 1.0.12 8.31 1.21.72 (269.98 G-369) Measuring & Regulating Equipment 27 15 22 0% TRUE FALSE db/sl 150% db/sl 200% 3.30 4.71 1.24 1.04 1.0.37 8.63 1.21.19 256.99 (3.71 0/mer Equipment) 4.7 1.22 1.04 1.0.12 8.31 1.21.72 (269.98 Measuring & Regulating Equipment) 4.7 1.02 1.05 0.05 1.20 0/mer Equipment 4.7 1.02 1.05 0/mer Equipment 4.7 1.02 1.05 0/mer Equipment 4.7 1.05 0/mer Equipment 4											sl									
G-368 Compressor Station Equipment 35 15 22 -10% TRUE FALSE db/sl 150% db/sl 200% 3.14 4.71 1.22 1.04 10.12 8.31 121.72 269.98 G-369 Measuring & Regulating Equipment 27 15 22 0% TRUE FALSE db/sl 150% db/sl 200% 3.70 4.71 1.27 1.03 10.71 9.06 120.39 242.10 GAS DISTRIBUTION PLANT G-374.1 Land 0 0 0 0 0% FALSE FALSE none 0% none 0% sl 0% s		•																		
G-399 Measuring & Regulating Equipment 27 15 22 -5% TRUE FALSE db/s1 150% db/s1 200% db/s1 200% 3.39 4.71 1.24 1.04 10.37 9.06 120.39 242.10 GAS DISTRIBUTION PLANT G-374.1 Land 0 0 0 0 0 0 FALSE FALSE none 0% sl 0%			1					-					I I				-	_		
GAS DISTRIBUTION PLANT G-374.1 Land G-374.2 Land Rights G-375 Structures & Improvements Harmonic Advisor & Harmonic & Ha								-									-			
GAS DISTRIBUTION PLANT G-374.1 Land G-374.2 Land Rights 31 40 40 0% FALSE FALSE sl 0% sl 0% 3.23 5.09 1.65 1.06 11.02 9.16 130.65 274.18 G-375 Structures & Improvements 44 39 45 0% TRUE FALSE sl 0% sl 0% 2.27 5.46 1.55 1.16 10.44 8.35 132.66 342.48 G-376 Mains G-378 Measuring & Regulating Equipment 47 20 35 -25% TRUE FALSE db/sl 150% db/sl 200% 2.25 4.92 1.29 1.11 9.56 7.37 125.73 298.97 G-380 Services G-381 Meters & Regulators 41 20 35 0% TRUE FALSE db/sl 150% db/sl 200% 2.66 4.79 1.27 1.07 9.78 7.77 125.29 298.55 G-382 Meter & Regulator installations 35 20 35 -30% TRUE FALSE db/sl 150% db/sl 200% 2.62 4.45 1.34 1.14 9.96 8.02 125.3 38.61 G-382 Meter & Regulator installations 35 20 35 0% TRUE FALSE db/sl 150% db/sl 200% 2.60 4.59 1.34 1.14 9.96 8.02 125.3 38.61 G-383 GAS DISTRIBUTION PLANT GAS GENERAL PLANT G-394.2 Trailers 21 5 6 0% TRUE FALSE db/sl 150% db/sl 200% db/sl 200% db/sl 200% 1.55 0.96 10.59 9.20 109.81 201.06 G-394.2 Shop Equipment 24 20 35 0% TRUE FALSE db/sl 150% db/sl 200% db/sl 200% db/sl 200% 1.34 0.99 11.19 9.58 122.37 229.93 G-395 Laboratory Equipment 19 20 35 0% TRUE FALSE db/sl 150% db/sl 200% db/sl 200% db/sl 200% 1.34 0.99 11.19 9.58 122.37 229.93 G-395 Laboratory Equipment 19 20 35 0% TRUE FALSE db/sl 150% db/sl 200% db/sl 200% db/sl 200% 1.34 0.99 11.19 9.58 122.37 229.93 G-395 Laboratory Equipment 19 20 35 0% TRUE FALSE db/sl 150% db/sl 200% db/sl 200% db/sl 200% 1.37 0.94 11.19 9.58 122.37 229.93 G-396 Laboratory Equipment 19 20 35 0% TRUE FALSE db/sl 150% db/sl 200% db/sl 200% db/sl 200% 1.37 0.94 11.19 9.58 122.37 229.93 G-396 Laboratory Equipment 19 20 35 0% TRUE FALSE db/sl 150% db/sl 200% db/sl 200% db/sl 200% 1.37 0.94 11.19 9.58 122.37 229.93 G-396 Laboratory Equipment 15 7 10 0% TRUE FALSE db/sl 150% db/sl 200% db/sl 200% 6.67 3.98 0.98 0.89 12.52 11.66 10.12 174.96								-												
G-374.1 Land	G-3/1	Other Equipment	2/	15	22	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.70	4./1	1.27	1.03	10./1	9.06	120.39	242.10
G-374.2 Land Rights	GAS DIS	GAS DISTRIBUTION PLANT																		
G-375 Structures & Improvements	G-374.1	Land	0	0	0	0%	FALSE	FALSE	none		none		0.00	7.55	2.14	1.61	11.30	n/a	149.65	1163.01
G-376 Mains G-376 Mains G-377 Masuring & Regulating Equipment G-378 Measuring & Regulating Equipment G-378 Measuring & Regulating Equipment G-378 Measuring & Regulating Equipment G-380 Services G-380 Services G-381 Meters & Regulators G-381 Meters & Regulators G-382 Meter & Regulators G-382 Meter & Regulator Installations G-385 Industrial Measuring & Regulating Equip G-386 Now TRUE G-387 Other Equipment G-387 Other Equipment G-388 GENERAL PLANT G-392.2 Trailers G-394.1 Portable Tools G-394.2 Shop Equipment G-395 Laboratory Equipment D-305 Moiss D-55% TRUE G-4SE db/sl 150% db/sl 150% db/sl 200% D-55% TRUE G-4SE db/sl 150% db/sl 200% D-65% db/sl 150% db/sl 200% D-65% db/sl 200% D-75% D-75% TRUE D-75%		Land Rights	31						sl		sl									
G-378 Measuring & Regulating Equipment		•						-					11				-			
G-380 Services			69										11							
G-381 Meters & Regulators																				
G-382 Meter & Regulator Installations G-385 Industrial Measuring & Regulating Equip G-387 Other Equipment													11							
G-385 Industrial Measuring & Regulating Equip G-385 Other Equipment 28 20 35 0% TRUE FALSE db/sl 150% db/sl 200% 6.25 4.58 1.39 0.91 13.12 11.73 119.52 191.77 1.33 1.03 10.70 9.00 123.27 248.44 1.00 24.20			1										I I							
G-387 Other Equipment 16 20 35 0% TRUE FALSE db/sl 150% db/sl 200% 6.25 4.58 1.39 0.91 13.12 11.73 119.52 191.77 GAS GENERAL PLANT G-392.2 Trailers 24 20 35 0% TRUE FALSE db/sl 150% db/sl 200% db/																				
GAS GENERAL PLANT G-392.2 Trailers G-394.1 Portable Tools G-394.2 Shop Equipment Description of the process of																				
G-392.2 Trailers G-392.2 Trailers G-392.2 Trailers G-394.1 Portable Tools G-394.2 Shop Equipment G-395 Laboratory Equipment D-395 Laboratory Equipment D-395 Communications Equipment D-395 Communications Equipment D-396 C-397 Communications Equipment D-397 Communications Equipment D-398 C-398 C-	G-38/	Other Equipment	16	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	6.25	4.58	1.39	0.91	13.12	11.73	119.52	191.//
G-394.1 Portable Tools 24 20 35 0% TRUE FALSE db/sl 150% db/sl 200% db/sl 200% db/sl 200% 4.17 4.69 1.34 0.99 11.19 9.58 122.37 229.93 G-394.2 Shop Equipment 24 20 35 0% TRUE FALSE db/sl 150% db/sl 200% db/sl 200% 4.17 4.69 1.34 0.99 11.19 9.58 122.37 229.93 G-395 Laboratory Equipment 19 20 35 0% TRUE FALSE db/sl 150% db/sl 200% db/sl 200% 5.26 4.61 1.37 0.94 12.18 10.71 120.89 206.60 G-397 Communications Equipment 15 7 10 0% TRUE FALSE db/sl 200% db/sl 200% db/sl 200% 6.67 3.98 0.98 0.89 12.52 11.26 110.12 174.96	GAS GE	GAS GENERAL PLANT																		
G-394.2 Shop Equipment 24 20 35 0% TRUE FALSE db/sl 150% db/sl 200% 4.17 4.69 1.34 0.99 11.19 9.58 122.37 229.93 G-395 Laboratory Equipment 19 20 35 0% TRUE FALSE db/sl 150% db/sl 200% 5.26 4.61 1.37 0.94 12.18 10.71 120.89 206.60 G-397 Communications Equipment 15 7 10 0% TRUE FALSE db/sl 200% db/sl 200% db/sl 200% 6.67 3.98 0.98 0.89 12.52 11.26 110.12 174.96	G-392.2	Trailers	21	5	6	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	4.76	4.01	0.85	0.96	10.59	9.20	109.81	201.06
G-395 Laboratory Equipment 19 20 35 0% TRUE FALSE db/sl 150% db/sl 200% 5.26 4.61 1.37 0.94 12.18 10.71 120.89 206.60 G-397 Communications Equipment 15 7 10 0% TRUE FALSE db/sl 200% db/sl 200% db/sl 200% 6.67 3.98 0.98 0.89 12.52 11.26 110.12 174.96	G-394.1	Portable Tools	24	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.17	4.69	1.34	0.99	11.19	9.58	122.37	229.93
G-397 Communications Equipment 15 7 10 0% TRUE FALSE db/sl 200% db/sl 200% 6.67 3.98 0.98 0.89 12.52 11.26 110.12 174.96	G-394.2	Shop Equipment	24		35	0%	TRUE	FALSE	db/sl		db/sl	200%	4.17	4.69	1.34	0.99	11.19	9.58	122.37	
		Laboratory Equipment	19	20	35				db/sl		db/sl					0.94			120.89	
G-398 Miscellaneous Equipment 19 20 35 0% TRUE FALSE db/sl 150% db/sl 200% 5.26 4.61 1.37 0.94 12.18 10.71 120.89 206.60		Communications Equipment	15	,					db/sl		db/sl									
	G-398	Miscellaneous Equipment	19	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	5.26	4.61	1.37	0.94	12.18	10.71	120.89	206.60

Short Names	FERC
O&M Costs	
CEU4422000008	
JAHE49NS	814-894 & 901-935
JGTOTALMS	814-894 & 901-935
Utility Construction Costs	
JUG@PCF	362-384
JUGPT@PCF	366-369
JUGPDS&I@PCF	375
JUGPDMCI@PCF	376
JUGPDMS@PCF	376
JUGPDMP@PCF	376
JUGPDSTCM@PCF	377
JUGPDSTM&R@PCF	378
JUGPDSTM&RL@PCF	379
JUGPDSVS@PCF	380
JUGPDSVP@PCF	380
JUGPDMT@PCF	381
JUGPDMTI@PCF	382
JUGPDRH@PCF	383
JUGPDRHI@PCF	384

Long Names

Average Hourly Earnings - Utility Service Workers Labor O&M Cost Index (Based on CEU4422000008) Total Gas O&M Cost Index (MS) (Non-Labor O&M Cost Index)

Total Gas Plant, Pacific Region

Total Transmission Plant, Pacific Region

Gas Distribution Plant Structures & Improvements, Pacific Region

Gas Distribution Plant Cast Iron Mains, Pacific Region

Gas Distribution Plant Steel Mains, Pacific Region

Gas Distribution Plant Plastic Mains, Pacific Region

Gas Distribution Plant Compressor Station Equipment, Pacific Region

Gas Distribution Plant Meas. & Reg. Sta. Equipment, Pacific Region

Gas Distribution Plant Meas. & Reg. Sta. Equipment - City Gt., Pacific Region

Gas Distribution Plant Steel Services, Pacific Region

Gas Distribution Plant Plastic Services, Pacific Region

Gas Distribution Plant Meters, Pacific Region

Gas Distribution Plant Meter Installations, Pacific Region

Gas Distribution Plant House Regulators, Pacific Region

Gas Distribution Plant House Regulators Installations, Pacific Region

Global Insight and Handy-Whitman Data from Global Insight 2nd Quarter 2021 Power Planner utility cost forecast (released late July 2021)

YEAR	CEU4422000008	JGTOTALMS	JUG@PCF	JUGPT@PCF	JUGPDS&I@PCF	JUGPDMCI@PCF	JUGPDMS@PCF	JUGPDMP@PCF
1997	20.594	0.64783	359.000	321.000	326.000	315.500	368.000	340.500
1998	21.480	0.65930	363.500	325.250	331.500	318.000	372.250	345.750
1999	22.028	0.67378	372.000	328.000	337.500	322.500	381.500	351.500
2000	22.753	0.69780	385.500	331.000	345.250	327.500	395.750	356.250
2001	23.582	0.71726	390.750	333.750	354.750	334.500	399.750	363.000
2002	23.958	0.73135	398.750	339.500	365.250	353.750	407.250	371.250
2003	24.768	0.75414	412.000	344.000	376.000	361.500	423.500	377.500
2004	25.611	0.78239	474.500	398.250	398.300	369.800	502.800	390.000
2005	26.697	0.81761	556.750	440.750	417.800	402.000	605.500	414.500
2006	27.402	0.84886	579.500	459.000	434.300	437.800	630.800	436.000
2007	27.867	0.87841	568.500	480.300	458.100	469.700	609.200	455.400
2008	28.837	0.92330	640.300	525.900	483.000	538.300	697.500	479.000
2009	29.480	0.91989	633.300	512.800	478.800	599.300	683.800	498.800
2010	30.038	0.94375	660.500	515.800	498.300	621.500	715.300	493.000
2011	30.822	0.97841	723.000	543.800	512.300	626.000	793.800	508.800
2012	31.606	1.00000	780.300	574.300	520.000	706.300	864.500	529.500

JUGPDSTCM@PCF	JUGPDSTM&R@PCF	JUGPDSTM&RL@PCF	JUGPDSVS@PCF	JUGPDSVP@PCF	JUGPDMT@PCF
397.000	368.500	365.500	356.000	351.000	195.500
403.250	372.750	369.750	361.750	357.000	196.000
405.250	377.000	374.000	370.750	364.500	190.750
410.250	385.500	383.250	380.000	370.000	201.750
415.250	388.500	385.500	385.750	378.500	209.250
424.500	397.000	393.500	395.750	391.500	201.500
428.750	398.500	396.250	406.750	400.000	192.750
448.800	454.800	454.300	443.500	413.000	182.800
491.300	513.000	516.800	494.000	434.000	185.300
500.000	534.300	537.300	513.500	453.000	196.800
521.500	532.700	533.300	515.100	468.800	225.300
564.500	598.000	600.500	558.800	496.500	250.500
579.000	592.500	592.800	567.000	519.800	255.500
594.300	606.500	607.300	586.800	532.800	253.300
619.800	686.500	687.500	625.500	550.800	256.300
641.000	726.800	730.300	662.300	569.500	268.500

JUGPDMTI@PCF	JUGPDRH@PCF	JUGPDRHI@PCF
378.500	302.750	378.000
381.000	306.750	380.500
390.000	305.500	389.500
407.250	305.250	405.500
410.000	311.750	409.250
417.500	318.500	417.500
437.000	317.750	436.000
542.800	322.800	534.300
677.000	339.500	659.300
705.300	358.300	686.800
671.400	377.600	656.400
788.800	395.800	768.300
762.300	404.500	746.000
803.300	414.800	786.800
907.500	429.300	884.800
999.500	437.800	970.800

SDG&E 2024 TCAP

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

SDG&E Cost Allocation LRMC Customer Costs Costs Results

	Residential			
Α	В			
Customer Costs Rental Method	\$212.89			
Customer Costs NCO Method	\$92.29			
Customer Costs NCO RCA	\$296.54			

Table 4: SDG&E's Resider

	Rental method
SDG&E	\$17.74

ARM 1 \$145.93 ARM 2 \$145.93

ntial Minimum Connection Cost Per Month

NCO Method	ARM 1	ARM2
\$24.71	\$6.99	\$14.72

ARM Factor 1 ARM Capital 0&M + O&M Loaders Total 12% \$17.09 \$66.80 \$83.89 75% \$109.81 \$66.80 \$176.61

SDG&E Cost Allocation LRMC Customer Costs Costs Results

A	Residential B	NGV D	CCI C	Total Core E	Total NCCI F	EG Tier 1 G	EG Tier 2 H	Total EG I	Total NonCore J	System Total K
Customer Costs Rental Method	\$212.89	\$1,594.42	\$471.01	\$196.51	\$3,521.74	\$1,540.31	\$4,461.07	\$2,011.69	\$2,577.29	\$221.35
Customer Costs NCO Method	\$92.29	\$442.55	\$221.80	\$71.43	\$1,219.32	\$667.72	\$2,149.41	\$833.07	\$976.92	\$100.75
Customer Costs NCO RCA	\$296.54	\$1,068.56	\$485.08	\$277.75	\$1,152.06	\$634.55	\$2,107.85	\$816.44	\$946.76	\$70.59
Customer Costs 50/50 NCO/RECC	\$254.72	\$1,331.49	\$478.04	\$237.13	\$2,336.90	\$1,087.43	\$3,284.46	\$1,414.07	\$1,762.02	\$145.97

LRMC O&M Loader Model

	Input	Source (1)
O&M w/o A&G HPD	\$1,269.11	LF-O&M Tab
O&M w/o A&G MPD	\$20,442.26	LF-O&M Tab
Marginal Percent of O&M HPD	91.49%	Dist O&M MC
Marginal Percent of O&M MPD	90.35%	Dist O&M MC
Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses	27.94%	LF-A&G Tab
General Plant Loading Factor as a % or O&M expenses	24.95%	LF-GPL Tab
Annualized M&S Customer Related Costs \$000/yr	\$419,448.67	LF-M&S Tab
Annualized M&S HDP Distribution Load Related Costs \$000/yr	\$156,567.14	LF-M&S Tab
Annualized M&S MDP Distribution Load Related Costs \$000/yr	\$606,163.43	LF-M&S Tab
O&M WEF for Escalation	1.06	O&M WEF Tab
Marginal Cust-Rel O&M 870 - Operation Supervision & Engineering 871 - Distribution Load Dispatching 874 - Mains & Services Expenses 875 - Measuring & Regulating Station Expenses 878 - Meter & House Regulator Expenses 879 - Customer Installations Expenses 880 - Other Expenses 881 - Rents 885 - Maint Supervision & Engineering 887 - Maintenance of Mains 888 - Maintenance Of Compressor Station Eq	\$3,782 \$19 \$5,421 \$0 \$5,510 \$8,727 \$8,447 \$0 \$0 \$0	Dist O&M MC
889 - Maintenance of Meas. & Reg Station Eq 892 - Maintenance of Services	\$0 \$2,998	Dist O&M MC Dist O&M MC
893 - Maint of Meters & House Regulators	\$2,258	Dist O&M MC
894 - Maintenance of Other Equipment	\$385	Dist O&M MC

Notes:
(1) from "SDGE OM Loaders" file:

			Res					Total
	G-R B	G-M C	G-S D	G-T	Total Res	NGV G	GN-3	Core
A	В	<u> </u>	U	Е	<u> </u>	G	Н	ı
Annualized SRM Cost \$/customer/yr 2020\$s	\$145.93	\$153.98	\$175.98	\$200.47	\$146.10	\$1,203.07	\$274.73	\$150.53
O&M \$/customer/yr								
FERC 870 - 894: Distribution O&M (M\$)	\$33,508	\$849	\$26	\$58	\$34,440	\$11	\$3,117	\$24,158
FERC 901 - 910: Customer O&M (M\$)	\$819	\$16	\$0	\$0	\$836	\$0	\$26	\$862
Total Cust-Rel O&M (M\$)	\$34,327	\$864	\$26	\$58	\$35,276	\$11	\$3,143	\$25,020
2016 Number of Customers	847,801	16,309	219	176	864,505	45	26,214	890,764
Cust-Rel O&M per Customer (2016 \$'s)	\$40	\$53	\$120	\$330	\$41	\$239	\$120	\$28
escalator 2016\$'s to 2020\$'s	1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
O&M \$/customer/yr 2020\$s	\$43.05	\$56.35	\$127.18	\$351.06	\$43.38	\$254.17	\$127.48	\$29.86
O&M Loaders:								
Materials & Supplies Loader:								
allocator = total Customer Related O&M as % of total	89.1%	2.2%	0.1%	0.2%	91.6%	0.0%	8.2%	65.0%
Allocated Materials & Supplies Loader (\$'s) \$419,449	\$373,875	\$9,415	\$285	\$633	\$384,208	\$117	\$34,234	\$272,504
2016 Number of Customers	847,801	16,309	219	176	864,505	45	26,214	890,764
M&S Loader per Customer (2016 \$'s)	\$0.44	\$0.58	\$1.30	\$3.60	\$0.44	\$2.60	\$1.31	\$0.31
escalator 2016\$'s to 2020\$'s	1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
M&S Loader \$/customer/yr 2020\$s	\$0.47	\$0.61	\$1.39	\$3.82	\$0.47	\$2.77	\$1.39	\$0.33
Administrative & General as % of O&M	27.94%	27.94%	27.94%	27.94%	27.94%	27.94%	27.94%	27.94%
Administrative & General \$/customer/yr 2020\$'s	\$12.03	\$15.74	\$35.53	\$98.08	\$12.12	\$71.01	\$35.62	\$8.34
General Plant as % of O&M	24.95%	24.95%	24.95%	24.95%	24.95%	24.95%	24.95%	24.95%
General Plant \$/customer/yr 2020\$'s	\$10.74	\$14.06	\$31.73	\$87.58	\$10.82	\$63.41	\$31.80	\$7.45
TOTAL O&M LOADERS \$/customer/yr	\$23.23	\$30.41	\$68.65	\$189.48	\$23.41	\$137.19	\$68.80	\$16.12
LRMC Rental Customer Cost \$/customer/year	\$212.21	\$240.74	\$371.81	\$741.01	\$212.89	\$1,594.42	\$471.01	\$196.51
	¥= :=:=:	*=	***************************************	********	\$17.74	7 .,	***************************************	*******
NCO Method:					Ψ			
LRMC Rental Customer Cost \$/customer/year					\$212.89	\$1.594.42	\$471.01	\$196.51
less annualized SRM rental					(\$146.10)	(\$1,203.07)	(\$274.73)	(\$150.53)
plus annualized SRM NCO					\$25.49	\$51.20	\$25.52	\$25.45
NCO Customer Cost \$/customer/year					\$92.29	\$442.55	\$221.80	\$71.43
					\$7.69			
NCO with Recplacement Cost Adder Method: LRMC Rental Customer Cost \$/customer/year					\$212.89	\$1,594.42	\$471.01	\$196.51
less annualized SRM rental					\$212.89 (\$146.10)	(\$1,203.07)	\$471.01 (\$274.73)	(\$150.53)
plus annualized SRM					\$229.74	\$677.21	(\$274.73) \$288.80	\$231.78
NCO w/ Replacement Customer Cost \$/cstmr/yr					\$296.54	\$1.068.56	\$485.08	\$277.75
Tropiacoment dustomer dost prostimity					\$24.71	ψ1,000.00	ψ+00.00	Ψ=11.10
					⊅∠4./ I			

GTNC MPD	HPD	Total	EG < 3 MM	> 3 MM	Total	Total Noncore	System Total
J	K	L	M	N	0	P	Q
\$2,098.99	\$3,693.07	\$2,369.69	\$905.76	\$2,353.22	\$1,195.25	\$1,630.53	\$150.76
\$25	\$9	\$34	\$19	\$12	\$31	\$64	\$37,633
\$5	\$2	\$7	\$8	\$1	\$9	\$16	\$878
\$30	\$11	\$41	\$28	\$13	\$40	\$80	\$38,512
48	10	58	71	10	81	139	890,903
\$628	\$1,113	\$704	\$388	\$1,288	\$499	\$578	\$43
1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
\$667.34	\$1,183.42	\$748.21	\$412.12	\$1,368.96	\$530.25	\$614.88	\$45.96
0.1%	0.0%	0.1%	0.1%	0.0%	0.1%	0.2%	100.0%
\$328	\$121	\$445	\$300	\$140	\$440	\$876	\$273,380
48	10	58	71	10	81	139	890,903
\$6.84	\$12.12	\$7.67	\$4.22	\$14.02	\$5.43	\$6.30	\$0.31
1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
\$7.27	\$12.89	\$8.15	\$4.49	\$14.91	\$5.78	\$6.70	\$0.33
27.94%	27.94%	27.94%	27.94%	27.94%	27.94%	27.94%	27.94%
\$186.45	\$330.64	\$209.04	\$115.14	\$382.47	\$148.14	\$171.79	\$12.84
24.95%	24.95%	24.95%	24.95%	24.95%	24.95%	24.95%	24.95%
\$166.48	\$295.22	\$186.65	\$102.81	\$341.51	\$132.28	\$153.39	\$11.46
\$360.19	\$638.75	\$403.84	\$222.44	\$738.89	\$286.20	\$331.88	\$24.63
\$3,126.52	\$5,515.24	\$3,521.74	\$1,540.31	\$4,461.07	\$2,011.69	\$2,577.29	\$221.35
\$3,126.52	\$5,515.24	\$3,521.74	\$1,540.31	\$4,461.07	\$2,011.69	\$2,577.29	\$221.35
(\$2,098.99)	(\$3,693.07)	(\$2,369.69)	(\$905.76)	(\$2,353.22)	(\$1,195.25)	(\$1,630.53)	(\$150.76)
\$67.99	\$63.70	\$67.26	\$33.17	\$41.56	\$16.62	\$30.16	` \$30.1
\$1,095.52	\$1,885.87	\$1,219.32	\$667.72	\$2,149.41	\$833.07	\$976.92	\$100.75
\$3,126.52	\$5,515.24	\$3,521.74	\$1,540.31	\$4,461.07	\$2,011.69	\$2,577.29	\$221.35
(\$2,098.99)	(\$3,693.07)	(\$2,369.69)	(\$905.76)	(\$2,353.22)	(\$1,195.25)	(\$1,630.53)	(\$150.76)
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$Ó.0
\$1,027.53	\$1,822.17	\$1,152.06	\$634.55	\$2,107.85	\$816.44	\$946.76	\$70.59

TABLE LRMCC-1 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

METER SET ASSEMBLY (MSA) EXPENSE 2024 TCAP

			Meter,			
	Max Meter	Meter	Regulator &	Installation	Total MSA	
	Flow Range	Туре	Fitting Costs	Costs	Costs	
	A	В	С	E	F	
	Cfh		(Dollars)	(Dollars)	(Dollars)	
1	Medium Pressure					11
2	0-275	250	\$201.92	\$79.05	\$280.97	2
3	276 - 425	425	\$552.79	\$147.95	\$700.73	3
4	426-630	630	\$942.70	\$147.95	\$1,090.64	4
5	631 - 800	8C	\$1,184.83	\$295.89	\$1,480.72	5
6	801 - 1,100	11C	\$1,272.08	\$295.89	\$1,567.97	6
7	1,101 - 1,500	15C	\$1,959.59	\$965.32	\$2,924.91	7
8	1,501 - 2,000	2M	\$3,004.61	\$1,521.50	\$4,526.11	8
9	2,001 - 3,000	3M	\$2,876.82	\$1,521.50	\$4,398.32	9
10	3,001 - 5,000	5M	\$3,818.62	\$1,521.50	\$5,340.12	10
11	5,001 - 7,000	7M	\$4,135.22	\$1,521.50	\$5,656.72	11
12						12
13	High Pressure					13
14	0 - 940	400	\$1,560.80	\$965.32	\$2,526.12	14
15	941 - 1,050	8C	\$3,326.33	\$1,521.50	\$4,847.83	15
16	1,051 - 1,500	630	\$1,950.71	\$965.32	\$2,916.03	16
17	1,501 - 2,700	2M	\$3,498.37	\$1,521.50	\$5,019.87	17
18	2,701 - 4,000	3M	\$3,370.57	\$1,521.50	\$4,892.07	18
19	4,001 - 6,600	5M	\$4,823.01	\$1,736.02	\$6,559.03	19
20	6,601 - 9,200	7M	\$5,428.28	\$1,736.02	\$7,164.29	20
21	9,201 - 14,500	11M	\$5,971.25	\$2,040.68	\$8,011.93	21
22	14,501 - 21,400	16M	\$6,100.56	\$2,040.68	\$8,141.24	22
23	21,401 - 24,000	11M-HP	\$11,792.33	\$4,360.50	\$16,152.84	23
24	24,001 - 46,000	16M-HP	\$12,722.16	\$4,406.99	\$17,129.15	24
25	46,001 - 79,000	23M-HP	\$21,019.90	\$8,145.67	\$29,165.57	25
26	79,001 - 377,000	8" Turbine	\$41,020.86	\$12,055.79	\$53,076.65	26
27	377,001 - 600,000	Turbine			\$0.00	27
28	600,001 - 4,250,000	Turbine			\$0.00	28
29	> 4,250,000	Turbine			\$0.00	29

- Notes:
 1. Col. (F) = Col. (C) + Col. (D) + Col. (E).
 2. MSA costs expressed in Year 2020 \$'s.
 3. Data Source: SDG&E Gas Distribution Engineering Department.

TABLE LRMCC-2 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

WEIGHTED MSA RECC FACTOR 2024 TCAP

	Max Meter Flow Range	Meter, Regulator, & Fitting Costs	Meter & Regulator RECC Factor	Installation Costs	Installation Costs RECC Factor	Weighted Average RECC Factor	
	A	В	С	D	E	F	
	Cfh	(Dollars)	(Percent)	(Dollars)	(Percent)	(Percent)	
1	Medium Pressure						1
2	0-275	\$201.92	8.02%	\$79.05	8.36%	8.12%	2
3	276 - 425	\$552.79	8.02%	\$147.95	8.36%	8.09%	3
4	426-630	\$942.70	8.02%	\$147.95	8.36%	8.07%	4
5	631 - 800	\$1,184.83	8.02%	\$295.89	8.36%	8.09%	5
6	801 - 1,100	\$1,272.08	8.02%	\$295.89	8.36%	8.08%	6
7	1,101 - 1,500	\$1,959.59	8.02%	\$965.32	8.36%	8.13%	7
8	1,501 - 2,000	\$3,004.61	8.02%	\$1,521.50	8.36%	8.13%	8
9	2,001 - 3,000	\$2,876.82	8.02%	\$1,521.50	8.36%	8.14%	9
10	3,001 - 5,000	\$3,818.62	8.02%	\$1,521.50	8.36%	8.12%	10
11	5,001 - 7,000	\$4,135.22	8.02%	\$1,521.50	8.36%	8.11%	11
12							12
13	High Pressure						13
14	0 - 940	\$1,560.80	8.02%	\$965.32	8.36%	8.15%	14
15	941 - 1,050	\$3,326.33	8.02%	\$1,521.50	8.36%	8.13%	15
16	1,051 - 1,500	\$1,950.71	8.02%	\$965.32	8.36%	8.13%	16
17	1,501 - 2,700	\$3,498.37	8.02%	\$1,521.50	8.36%	8.12%	17
18	2,701 - 4,000	\$3,370.57	8.02%	\$1,521.50	8.36%	8.13%	18
19	4,001 - 6,600	\$4,823.01	8.02%	\$1,736.02	8.36%	8.11%	19
20	6,601 - 9,200	\$5,428.28	8.02%	\$1,736.02	8.36%	8.10%	20
21	9,201 - 14,500	\$5,971.25	8.02%	\$2,040.68	8.36%	8.11%	21
22	14,501 - 21,400	\$6,100.56	8.02%	\$2,040.68	8.36%	8.10%	22
23	21,401 - 24,000	\$11,792.33	8.02%	\$4,360.50	8.36%	8.11%	23
24	24,001 - 46,000	\$12,722.16	8.02%	\$4,406.99	8.36%	8.11%	24
25	46,001 - 79,000	\$21,019.90	8.02%	\$8,145.67	8.36%	8.11%	25
26	79,001 - 377,000	\$41,020.86	8.02%	\$12,055.79	8.36%	8.10%	26
27	377,001 - 600,000					8.10%	27
28	600,001 - 4,250,000					8.10%	28
29	> 4,250,000					8.10%	29

- Notes:
 1. Col. (F) = [Col (B) x Col. (C)] + [Col. (D) x Col. (E)] ÷ [Col. (B) + Col. (D)]
 2. Rows (27) (29): Weighted Average RECC Factor meter & installation weights from Row (26).
 3. Data Source: RECC Factors from Finance Group

TABLE LRMCC-3 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

ANNUALIZED SERVICE, REGULATOR & METER (SRM) MARGINAL INVESTMENT 2024 TCAP

			Meter & R	egulator		I	Pipe & Ir	stallation		Total SRM	
	Max Meter	Meter	M&R	RECC	Annualized	Service	Service	RECC	Annualized	Annualized	
	Flow Range	Туре	Cost	Factor	Marg. Invstmt.	Type	Cost	Factor	Marg. Invstmt.	Marg. Invstmt.	
	A	В	С	D	E	F	G	Н		J	
	Cfh		(Dollars)	(Percent)	(Dollars)		(Dollars)	(Percent)	(Dollars)	(Dollars)	
1	Medium Pressure										1
2	0-275	250	\$281	8.12%	\$23	Poly-1"	\$1.573	7.37%	\$116	\$139	1 2
3	276 - 425	425	\$701	8.09%	\$57	Poly-1"	\$1,573	7.37%	\$116	\$173	3
4	426-630	630	\$1,091	8.07%	\$88	Poly-1"	\$1,573	7.37%	\$116	\$204	4
5	631 - 800	8C	\$1,481	8.09%	\$120	Poly-1"	\$1,573	7.37%	\$116	\$236	5
6	801 - 1,100	11C	\$1,568	8.08%	\$127	Poly-1"	\$1,573	7.37%	\$116	\$243	6
7	1,101 - 1,500	15C	\$2,925	8.13%	\$238	Poly-1"	\$1,573	7.37%	\$116	\$354	7
8	1,501 - 2,000	2M	\$4,526	8.13%	\$368	Poly-1"	\$1,573	7.37%	\$116	\$484	8
9	2,001 - 3,000	3M	\$4,398	8.14%	\$358	Poly-1"	\$1,573	7.37%	\$116	\$474	9
10	3,001 - 5,000	5M	\$5,340	8.12%	\$433	Poly-2"	\$7,059	7.37%	\$520	\$954	10
11	5,001 - 7,000	7M	\$5,657	8.11%	\$459	Poly-2"	\$7,059	7.37%	\$520	\$979	11
12											12
13	High Pressure										13
14	0 - 940	400	\$2,526	8.15%	\$206	Poly-1"	\$1,573	7.37%	\$116	\$322	14
15	941 - 1,050	8C	\$4,848	8.13%	\$394	Poly-1"	\$1,573	7.37%	\$116	\$510	15
16	1,051 - 1,500	630	\$2,916	8.13%	\$237	Poly-1"	\$1,573	7.37%	\$116	\$353	16
17	1,501 - 2,700	2M	\$5,020	8.12%	\$408	Poly-1"	\$1,573	7.37%	\$116	\$524	17
18	2,701 - 4,000	3M	\$4,892	8.13%	\$397	Poly-2"	\$7,059	7.37%	\$520	\$918	18
19	4,001 - 6,600	5M	\$6,559	8.11%	\$532	Poly-2"	\$7,059	7.37%	\$520	\$1,052	19
20	6,601 - 9,200	7M	\$7,164	8.10%	\$580	Poly-2"	\$7,059	7.37%	\$520	\$1,101	20
21	9,201 - 14,500	11M	\$8,012	8.11%	\$649	Poly-3"	\$12,815	7.37%	\$944	\$1,594	21
22	14,501 - 21,400	16M	\$8,141	8.10%	\$660	Poly-3"	\$12,815	7.37%	\$944	\$1,604	22
23	21,401 - 24,000	11M-HP	\$16,153	8.11%	\$1,310	Poly-4"	\$15,533	7.37%	\$1,145	\$2,455	23
24	24,001 - 46,000	16M-HP	\$17,129	8.11%	\$1,389	Poly-4"	\$15,533	7.37%	\$1,145	\$2,533	24
25	46,001 - 79,000	23M-HP	\$29,166	8.11%	\$2,367	Steel-4"	\$27,696	7.37%	\$2,041	\$4,408	25
26	79,001 - 377,000	8" Turbine	\$53,077	8.10%	\$4,298	Steel-6"	\$42,055	7.37%	\$3,099	\$7,397	26
27	377,001 - 600,000	Turbine	\$0	8.10%	\$0	Steel-8"	\$0	7.37%	\$0	\$0	27
28	600,001 - 4,250,000	Turbine	\$0	8.10%	\$0	Steel-16"		7.37%		\$0	28
29	> 4,250,000	Turbine	\$0	8.10%	\$0	Steel-24"		7.37%		\$0	29

- Notes:

 1. Col. (E) = Col. (C) x Col. (D). Col. (I) = Col. (G) x Col. (H).

 2. Col. (J) = Col. (E) + Col. (I).

 3. Service Line installation cost (column F & G) provided by SDG&E Gas Distribution Engineering Department

Data Sources: MSA Cost, MSA RECC

 Line Extension Credit, Rule 15, 11/20/2020

 Water Heating
 \$1,138

 Oven/Range
 \$201

 Space Heating
 \$987

 Dryer Stub
 \$289

 Total
 \$2,615

TABLE LRMCC-4 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

MSA ASSIGNMENT FACTORS BY CUSTOMER CLASS 2024 TCAP

	Max Meter	Meter			Res					Total		GTNC			EG		Total	System	
	Flow Range	Туре	G-R	G-M	G-S	G-T	Total	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Noncore	Total	
	Α	В					С	D	E	F	G	Н		J	K	L	N	0	
	Cfh																		1
1	Medium Pressure		98%	2%	0%	0%													1
2	0-275	250	803,776	12,932	85	5	816,798	11	12,290	829,099	-	-	-	1	-	1	1	829,100	2
3	276 - 425	425	20,676	1,047	29	2	21,754	-	2,071	23,825	-	-	-	-	-	-	-	23,825	3
4	426-630	630	11,102	608	6	7	11,723	-	2,099	13,822	-	-	-	-	-	-	-	13,822	4
5	631 - 800	8C	7,706	545	18	4	8,273	1	2,137	10,411	-	-	-	-	-	-	-	10,411	5
6	801 - 1,100	11C	3,127	467	29	4	3,627	2	1,887	5,516	-	-	-	-	-	-	-	5,516	6
7	1,101 - 1,500	15C	990	206	5	4	1,205	-	1,253	2,458	-	-	-	-	-	-	-	2,458	7
8	1,501 - 2,000	2M	298	88	6	2	394	-	1,255	1,649	-	-	-	34	-	34	34	1,683	8
9	2,001 - 3,000	3M	95	252	17	30	394	2	1,650	2,046	-	-	-	8	-	8	8	2,054	9
10	3,001 - 5,000	5M	17	83	7	52	159	3	756	918	1	-	1	10	-	10	11	929	10
11	5,001 - 7,000	7M	8	27	5	22	62	5	324	391	7	-	7	7	-	7	14	405	11
12																			12
13	High Pressure																		13
14	0 - 940	400	0	0	0	0	-	-	1	1	-	-	-	1	-	1	1	2	14
15	941 - 1,050	8C	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	15
16	1,051 - 1,500	630	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	16
17	1,501 - 2,700	2M	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	17
18	2,701 - 4,000	3M	0	0	0	0	-	-	-	-	-	-	-	-	1	1	1 1	1	18
19	4,001 - 6,600	5M	0	0	0	0	-	-	-	-	1	-	1	-	-	-	1	1	19
20	6,601 - 9,200	7M	0	0	0	0	-	1	1	2	1	-	1	-	4	4	5	7	20
21	9,201 - 14,500	11M	2	27	8	31	68	-	269	337	7	2	9	3	-	3	12	349	21
22	14,501 - 21,400	16M	4	24	3	13	44	11	147	202	15	-	15	1		1	16	218	22
23	21,401 - 24,000	11M-HP	0	3	1	0	4	3	11	18	4	-	4	-	1	1	5	23	23
24	24,001 - 46,000	16M-HP	0	0	0	0	-	5	52	57	7	4	11	3	1	4	15	72	24
25	46,001 - 79,000	23M-HP	0	0	0	0	-	1	9	10	3	2	5	3	3	6	11	21	25
26	79,001 - 377,000	8" Turbine	0	0	0	0	-	-	2	2	2	2	4	-	-	-	4	6	26
27	377,001 - 600,000	Turbine	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	27
28	600,001 - 4,250,000	Turbine	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	28
29	> 4,250,000	Turbine	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	29
30 31	Total Customers		847,801	16,309	219	176	864,505	45	26,214	890,764	48	10	58	71	10	81	139	890,903	30 31

TABLE MISC-1 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

DEMAND DETERMINANT SUMMARY 2024 TCAP

	1		Res							GTNC			EG		Power	1 1	
Billing Determinants	G-R	G-M	G-S	G-T	Total	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Plants	Noncore	System
A	В	С	D	Е	F	G	Н	I	J	K	L	M	N	0	P	Q	R
TCAP Customers	857,179	16,489	221	l 178	874,067	28	30,937	905,032	44	9	53	72	18	90	-	143	905,175
2021Customers	847,801	16,309	219	9 176	864,505	45	26,214	890,764	48	10	58	71	10	81	-	139	890,903

						Non Core				Total Non	
	Demand Forecast per 2017 TCAP in Mtherms	Res	NGV	Core C&I	Total Core	C&I	EG Tier 1	EG Tier 2	Total EG	Core	Total System
1	DIRECT Demand										
2	Transmission										
3	Average Year Throughput (MTh)	0	0	0	0	17,569	5,074	456,289	461,363	478,932	478,932
4	Cold Year Throughput (1-in-35) (MTh)	0	0	0	0	17,569	5,074	456,289	461,363	478,932	478,932
5	Cold Year Peak Month (December) (MTh)	0	0	0	0	1,477	191	35,479	35,670	37,147	37,147
6	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	0	0	0	0	48	6	1,684	1,690	1,738	1,738
7	Number of Customers	0	0	0	0	9	3	12	15	24	24
8	High Pressure										
9	Average Year Throughput (MTh)	67	8,874	3,116	12,057	7,497	3,531	36,209	39,740	47,237	59,294
10	Cold Year Throughput (1-in-35) (MTh)	74	8,874	3,251	12,199	7,497	3,531	36,209	39,740	47,237	59,436
11	Cold Year Peak Month (December) (MTh)	11	721	373	1,105	630	287	3,027	3,314	3,944	5,049
12	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	1	23	18	42	20	9	98	107	127	169
13	Number of Customers	2	4	5	11	9	5	4	9	18	29
14	Medium Pressure										
15	Average Year Throughput (MTh)	313,167	15,255	191,661	520,083	21,879	21,131	7,997	29,127	51,006	571,089
16	Cold Year Throughput (1-in-35) (MTh)	343,334	15,255	199,985	558,574	21,879	21,131	7,997	29,127	51,006	609,580
17	Cold Year Peak Month (December) (MTh)	50,177	1,239	22,957	74,374	1,839	1,767	669	2,435	4,275	78,649
18	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	2,943	40	1,098	4,081	59	57	22	79	138	4,219
19	Number of Customers	874,065	24	30,932	905,021	35	64	2	66	101	905,122
20	CUMULATIVE Demand										
21	Transmission										
22	Average Year Throughput (MTh)	313,234	24.129	194,777	532,140	46.945	29.736	500.494	530.230	577.175	1.109.315
23	Cold Year Throughput (1-in-35) (MTh)	343,408	24,129	203,236	570,773	46,945	29,736	500,494	530,230	577,175	1,147,948
24	Cold Year Peak Month (December) (MTh)	50,188	1,960	23,331	75,479	3,947	2,244	39,175	41,419	45,366	120,845
25	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	2,944	63	1,115	4,123	127	72	1,803	1,876	2,003	6,126
26	Number of Customers	874,067	28	30,937	905,032	53	72	18	90	143	905,175
27	High Pressure	•		•	•						•
28	Average Year Throughput (MTh)	313,234	24,129	194,777	532,140	29,376	24,662	44,206	68,867	98,243	630,384
29	Cold Year Throughput (1-in-35) (MTh)	343,408	24,129	203,236	570,773	29,376	24,662	44,206	68,867	98,243	669,016
30	Cold Year Peak Month (December) (MTh)	50,188	1,960	23,331	75,479	2,470	2,053	3,696	5,749	8,219	83,698
31	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	2,944	63	1,115	4,123	80	66	119	185	265	4,388
32	Number of Customers	874,067	28	30,937	905,032	44	69	6	75	119	905,151
33	Medium Pressure	•		-	*						•
34	Average Year Throughput (MTh)	313,167	15,255	191,661	520,083	21,879	21,131	7,997	29,127	51,006	571,089
35	Cold Year Throughput (1-in-35) (MTh)	343,334	15,255	199,985	558,574	21,879	21,131	7,997	29,127	51,006	609,580
36	Cold Year Peak Month (December) (MTh)	50,177	1,239	22,957	74,374	1,839	1,767	669	2,435	4,275	78,649
37	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	2,943	40	1,098	4,081	59	57	22	79	138	4,219
38	Number of Customers	874,065	24	30,932	905,021	35	64	2	66	101	905,122

TABLE LRMCC-5 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

MSA ASSIGNMENT FACTORS BY CUSTOMER CLASS 2020 TCAP

	Max Meter	Meter	G-R	C.M.	Res G-S	C.T.	Tatal	NGV	GN-3	Total Core	MDD	GTNC HPD	Tatal	- 2 MM	EG	Tatal	Total	System	
	Flow Range	Type B	G-R	G-M	G-S	G-T	Total C	D		Core	MPD G	Н	Total	< 3 MM	> 3 MM	Total	Noncore	Total O I	_
	A Cfh	ь						U	E	Г	G	п	- 1	J	N.		N	-	
	Cili																		i
1	Medium Pressure																		1
2	0-275	250	94.81%	79.29%	38.81%	2.84%	94.48%	24.44%	46.88%	93.08%	0.00%	0.00%	0.00%	1.41%	0.00%	1.23%	0.72%	93.06%	2
3	276 - 425	425	2.44%	6.42%	13.24%	1.14%	2.52%	0.00%	7.90%	2.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.67%	3
4	426-630	630	1.31%	3.73%	2.74%	3.98%	1.36%	0.00%	8.01%	1.55%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.55%	4
5	631 - 800	8C	0.91%	3.34%	8.22%	2.27%	0.96%	2.22%	8.15%	1.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.17%	5
6	801 - 1,100	11C	0.37%	2.86%	13.24%	2.27%	0.42%	4.44%	7.20%	0.62%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.62%	6
7	1,101 - 1,500	15C	0.12%	1.26%	2.28%	2.27%	0.14%	0.00%	4.78%	0.28%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.28%	7
8	1,501 - 2,000	2M	0.04%	0.54%	2.74%	1.14%	0.05%	0.00%	4.79%	0.19%	0.00%	0.00%	0.00%	47.89%	0.00%	41.98%	24.46%	0.19%	8
9	2,001 - 3,000	3M	0.01%	1.55%	7.76%	17.05%	0.05%	4.44%	6.29%	0.23%	0.00%	0.00%	0.00%	11.27%	0.00%	9.88%	5.76%	0.23%	9
10	3,001 - 5,000	5M	0.00%	0.51%	3.20%	29.55%	0.02%	6.67%	2.88%	0.10%	2.08%	0.00%	1.72%	14.08%	0.00%	12.35%	7.91%	0.10%	10
11	5,001 - 7,000	7M	0.00%	0.17%	2.28%	12.50%	0.01%	11.11%	1.24%	0.04%	14.58%	0.00%	12.07%	9.86%	0.00%	8.64%	10.07%	0.05%	11
12																			12
13	High Pressure									/									13
14	0 - 940	400	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.41%	0.00%	1.23%	0.72%	0.00%	14
15	941 - 1,050	8C	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%	0.00%	0.00%	15
16	1,051 - 1,500	630	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%	0.00%	0.00%	16
17	1,501 - 2,700 2,701 - 4,000	2M	0.00%	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%	0.00%	0.00% 0.00%	0.00% 10.00%	0.00% 1.23%	0.00% 0.72%	0.00% 0.00%	17 18						
18 19	2,701 - 4,000 4,001 - 6,600	3M 5M	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.08%	0.00%	1.72%	0.00%	0.00%	0.00%	0.72%	0.00%	19
20	6.601 - 9.200	7M	0.00%	0.00%	0.00%	0.00%	0.00%	2.22%	0.00%	0.00%	2.08%	0.00%	1.72%	0.00%	40.00%	4.94%	3.60%	0.00%	20
21	9,201 - 14,500	11M	0.00%	0.00%	3.65%	17.61%	0.00%	0.00%	1.03%	0.00%	14.58%	20.00%	15.52%	4.23%	0.00%	3.70%	8.63%	0.00%	21
22	14,501 - 21,400	16M	0.00%	0.17%	1.37%	7.39%	0.01%	24.44%	0.56%	0.02%	31.25%	0.00%	25.86%	1.41%	0.00%	1.23%	11.51%	0.04%	22
23	21.401 - 24.000	11M-HP	0.00%	0.02%	0.46%	0.00%	0.00%	6.67%	0.04%	0.02%	8.33%	0.00%	6.90%	0.00%	10.00%	1.23%	3.60%	0.02%	23
24	24.001 - 46.000	16M-HP	0.00%	0.00%	0.00%	0.00%	0.00%	11.11%	0.20%	0.01%	14.58%	40.00%	18.97%	4.23%	10.00%	4.94%	10.79%	0.01%	24
25	46,001 - 79,000	23M-HP	0.00%	0.00%	0.00%	0.00%	0.00%	2.22%	0.03%	0.00%	6.25%	20.00%	8.62%	4.23%	30.00%	7.41%	7.91%	0.00%	25
26	79.001 - 377.000	8" Turbine	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	4.17%	20.00%	6.90%	0.00%	0.00%	0.00%	2.88%	0.00%	26
27	377,001 - 600,000	Turbine	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%	0.00%	0.00%	27
28	600,001 - 4,250,000	Turbine	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%	0.00%	0.00%	28
29	> 4,250,000	Turbine	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%	0.00%	0.00%	29
30	Tatal Customers		100.0004	100.000/	100.000/	100.000/	400.000/	100.000/	400.000/	100.000/	100.000/	400.000/	100.000/	400.000/	100.000/	100.000/	100.000/	100.000/	30
31	Total Customers		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	31

Notes:

^{1.} Factors derived from meter capacity analysis results in Table "LRMCC-4" (tab MSAllocv1)
Data Sources: Tabs: MSA Cost, MSAlloc v1

TABLE LRMCC-6 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

FORECAST CUSTOMERS BY METER TYPE BY CUSTOMER CLASS 2020 TCAP

	Max Meter	Meter			Res					Total		GTNC			EG		Power	Total	System	
	Flow Range	Туре	G-R	G-M	G-S	G-T	Total	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Plant	Noncore	Total	
	A	В					С	D	E	F	G	Н	ı	J	K	L	M	N	0	Ь—
	Cfh																			1
4	Medium Pressure																			۱.
1	0-275	250	812,667	13,075	86	-	825,833	7	14,504	840,344				1		1		1	840,345	1 1
2	276 - 425	425	20,905	1,059	29	2	21,995	,	2,444	24,439	-	-	-	'	-	'	-	'	24,439	2
4	426-630	630	11,225	615	29	7	11,853	-	2,444	14,330	-	-	-	-	-	- 1	-	-	14,330	1 %
5	631 - 800	8C	7,791	551	18	1	8,365	- 1	2,522	10,887	_	-		_	-		_		10,887	
6	801 - 1.100	11C	3,162	472	29	4	3,667	1	2,227	5,895	_	_				_ [-	5,895	ı
7	1,101 - 1,500	15C	1,001	208	5	4	1,218	_ '	1,479	2,697	_	_		_	_	_	_	_	2,697	7
8	1,501 - 1,500	2M	301	89	6	2	398	_	1,481	1.879	_	_	_	34	_	34	_	34	1.914	Ŕ
9	2.001 - 3.000	3M	96	255	17	30	398	1	1,947	2,347	_	_	_	8	_	8	_	8	2,355	9
10	3,001 - 5,000	5M	17	84	7	53	161	2	892	1,055	1	_	1	10	_	10	_	11	1,066	10
11	5,001 - 7,000	7M		27	5	22	63	3	382	448	6	_	6	7	-	7	_	14	462	11
12	5,555													-		-				12
13	High Pressure																			13
14	0 - 940	400	-	-	-	-	-	-	1	1	-	-	-	1	-	1	-	1	2	14
15	941 - 1,050	8C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
16	1,051 - 1,500	630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
17	1,501 - 2,700	2M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
18	2,701 - 4,000	3M	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	2	2	18
19	4,001 - 6,600	5M	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	1	1	19
20	6,601 - 9,200	7M	-	-	-	-	-	1	1	2	1	-	1	-	7	7	-	8	10	20
21	9,201 - 14,500	11M	2	27	8	31	69	-	317	386	6	2	8	3	-	3	-	11	397	21
22	14,501 - 21,400	16M	4	24	3	13	44	7	173	225	14	-	14	1	-	1	-	15	239	22
23	21,401 - 24,000	11M-HP	-	3	1	-	4	2	13	19	4	-	4	-	2	2	-	5	24	23
24	24,001 - 46,000	16M-HP	-	-	-	-	-	3	61	64	6	4	10	3	2	5	-	15	79	24
25	46,001 - 79,000	23M-HP	-	-	-	-	-	1	11	11	3	2	5	3	5	8	-	13	24	25
26	79,001 - 377,000	8" Turbine	-	-	-	-	-	-	2	2	2	2	4	-	-	-	-	4	6	26
27	377,001 - 600,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
28	600,001 - 4,250,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
29	> 4,250,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29
30 31	Total Customers		857,179	16,489	221	178	874,067	28	30,937	905,032	44	9	53	72	18	90	-	143	905,175	30 31

Notes:

Row (31) = forecast annual average number of customers during proposed 2020 - 2022 TCAP period

2. Rows (2) - (29) = Row (31) x MSA assignment factors for each market segment for each flow range.

verify 857,179 16,489 221 178 874,067 28 30,937 905,032 44 9 53 72 18 90 - 143 905,175 Data Sources: tabs: MSA Cost, MSAlloc v2

TABLE LRMCC-7 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

ANNUALIZED SRM MARGINAL INVESTMENT BY CUSTOMER CLASS 2020 TCAP

	Max Meter	Meter			Res		1			Total		GTNC			EG		Power	Total	System	
	Flow Range	Туре	G-R	G-M	G-S	G-T	Total	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Plant	Noncore	Total	
	A	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	
	Cfh											(Doll	ars)							
																				l
1	Medium Pressure																			1
2	0-275	250	\$116,642,219	\$1,876,664	\$12,335	\$726	\$118,531,943	\$937	\$2,011,951	\$120,544,831	\$0	\$0	\$0	\$141	\$0	\$141	\$0	\$141	\$120,544,972	2
3	276 - 425	425	\$3,674,206	\$186,056	\$5,153	\$355	\$3,865,770	\$0	\$421,887	\$4,287,658	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,287,658	3
4	426-630	630	\$2,265,392	\$124,064	\$1,224	\$1,428	\$2,392,109	\$0	\$505,054	\$2,897,163	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,897,163	4
5	631 - 800	8C	\$1,574,644	\$111,365	\$3,678	\$817	\$1,690,504	\$145	\$594,360	\$2,285,009	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,285,009	5
6	801 - 1,100	11C	\$638,815	\$95,404	\$5,924	\$817	\$740,960	\$298	\$540,412	\$1,281,670	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,281,670	6
7	1,101 - 1,500	15C	\$202,874	\$42,214	\$1,025	\$820	\$246,932	\$0	\$523,122	\$770,054	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$770,054	7
8	1,501 - 2,000	2M	\$61,075	\$18,036	\$1,230	\$410	\$80,750	\$0	\$716,944	\$797,695	\$0	\$0	\$0	\$16,690	\$0	\$16,690	\$0	\$16,690	\$814,384	8
9	2,001 - 3,000	3M	\$19,474	\$51,658	\$3,485	\$6,150	\$80,768	\$582	\$922,638	\$1,003,988	\$0	\$0	\$0	\$3,844	\$0	\$3,844	\$0	\$3,844	\$1,007,832	9
10	3,001 - 5,000	5M	\$3,480	\$16,992	\$1,433	\$10,645	\$32,551	\$1,757	\$850,884	\$885,192	\$874	\$0	\$874	\$9,671	\$0	\$9,671	\$0	\$10,545	\$895,737	10
11	5,001 - 7,000	7M	\$1,637	\$5,526	\$1,023	\$4,502	\$12,688	\$3,007	\$374,373	\$390,068	\$6,282	\$0	\$6,282	\$6,950	\$0	\$6,950	\$0	\$13,232	\$403,301	11
12	I II ale Dana a como																			12
13	High Pressure	400		*			***		****	# 000	00			#000		#000	60	****	#700	13
14	0 - 940 941 - 1.050	400 8C	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$380 \$0	\$380	\$0	\$0 \$0	\$0 \$0	\$326	\$0 \$0	\$326	\$0	\$326 \$0	\$706	14 15
15	, , , , , , , , , , , , , , , , , , , ,				• •					\$0	\$0			\$0		\$0	\$0		\$0	
16 17	1,051 - 1,500 1,501 - 2,700	630 2M	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	16 17
18	2.701 - 4.000	2IVI 3M	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$1,652	\$1,652	\$0 \$0	\$1.652		18
19	4,001 - 6,600	5M	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$964	\$0 \$0	\$964	\$0 \$0	\$1,052 \$0	\$1,052	\$0 \$0	\$1,052	\$1,652 \$964	19
20	6.601 - 9.200	7M	\$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$676	\$1,299	\$1.975	\$1,009	\$0	\$1.009	\$0 \$0	\$7,925	\$7,925	\$0	\$8.934	\$10.909	20
21	9,201 - 14,500	11M	\$409	\$5,524	\$1,637	\$6,342	\$13,912	\$0	\$505,998	\$519,910	\$10,227	\$2,869	\$13,096	\$4,849	\$0	\$4,849	\$0	\$17,945	\$537,855	21
22	14,501 - 21,400	16M	\$818	\$4,910	\$614	\$2,659	\$9,001	\$10,839	\$278,311	\$298,150	\$22,058	\$2,009	\$22,058	\$1,627	\$0	\$1,627	\$0	\$23,685	\$321,836	22
23	21.401 - 24.000	11M-HP	\$0	\$614	\$205	\$2,039	\$819	\$4,524	\$31,870	\$37,212	\$9.002	\$0	\$9,002	\$1,027	\$4,419	\$4,419	\$0	\$13,421	\$50.633	23
24	24,001 - 46,000	16M-HP	\$0	\$0	\$0	\$0	\$0	\$7,780	\$155,474	\$163,254	\$16,256	\$9,120	\$25,377	\$7.707	\$4,560	\$12,268	\$0	\$37.644	\$200,898	24
25	46.001 - 79.000	23M-HP	\$0	\$0	\$0	\$0	\$0	\$2,707	\$46,817	\$49,524	\$12,121	\$7,934	\$20,055	\$13,409	\$23,802	\$37,211	\$0	\$57,266	\$106,790	25
26	.,	8" Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$17,459	\$17,459	\$13,561	\$13,314	\$26,875	\$0	\$0	\$0	\$0	\$26,875	\$44,334	26
27	377.001 - 600.000	Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	27
28	600,001 - 4,250,000	Turbine	70	20	+-	+*	Ų.	,,,	40	40		+0	70				•	, ,	Ų.	28
29	> 4,250,000	Turbine																		29
30	Total		\$125,085,044	\$2,539,025	\$38,966	\$35,673	\$127,698,707	\$33,251	\$8,499,232	\$136,231,191	\$92,356	\$33,238	\$125,593	\$65,214	\$42,358	\$107,572	\$0	\$233,166	\$136,464,357	30
31	Forecast Customers		857,179	16,489	221	178	874,067	28	30,937	905,032	44	9	53	72	18	90	-	143	905,175	31
32																				32
33	Average SRM Cost		\$146	\$154	\$176	\$200	\$146	\$1,203	\$275	\$151	\$2,099	\$3,693	\$2,370	\$906	\$2,353	\$1,195	\$0	\$1,631	\$151	33

Notes:

1. Rows (2) - (29) = SRM Annualized Marginal Investment x Number of MSA's per Customer Segment for each particular flow range.

2. Row (33) = Row (30) ÷ Row (31).

Data Sources: tabs: MSA Fcst, MSA Rental, Factors

TABLE LRMCC-8 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

ALLOCATION OF CUSTOMER-RELATED DISTRIBUTION O&M EXPENSES BY CUSTOMER CLASS 2024 TCAP $$\rm 10^{12}\,M_{\odot}$$

		Marginal			Res					Total		GTNC			EG		Total	System	
	Distribution O&M Account	O&M	G-R	G-M	G-S	G-T	Total	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Noncore	Total	
	A	В					С	D	E	F	G	Н	- 1	J	K	L	N	0	
1																			1
2	Allocator - Total of other Distribution O&M Operating	56%	87%	2%	0%	0%	89%	0%	8%	55%	0%	0%	0%	0%	0%	0%	0%	98%	2
3	Allocation (M\$)	\$3,782	\$3,285	\$83	\$3	\$6	\$3,377	\$1	\$310	\$2,097	\$2	\$1	\$3	\$2	\$1	\$3	\$6	\$3,694	3
4	871 - Distribution Load Dispatching = Non-Marginal Designation																		4
5																			5
6	Allocator - Customers Wtd by Services costs	100%	94%	2%	0%	0%	96%	0%	4%	100%	0%	0%	0%	0%	0%	0%	0%	100%	6
7	Allocation (M\$)	\$5,421	\$5,070	\$102	\$2	\$4	\$5,179	\$1	\$235	\$5,415	\$2	\$1	\$3	\$1	\$1	\$2	\$6	\$5,421	7
8	875 - Meas & Reg Station Exp = 100% Demand-Related																		. 8
9																			9
10	Allocator - Customers Wtd by Meters & Regs costs	100%	82%	3%	0%	0%	85%	0%	14%	100%	0%	0%	0%	0%	0%	0%	0%	100%	10
11	Allocation (M\$)	\$5,510	\$4,517	\$161	\$7	\$15	\$4,699	\$3	\$782	\$5,485	\$9	\$4	\$13	\$8	\$5	\$12	\$25	\$5,510	11
12 13	Allocator - Customer Service Expense	0%	86%	2%	0%	0%	88%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	95%	12 13
13	Allocation (M\$)	\$8,727	\$7,488	2% \$171	\$4	\$10	\$7,673	\$1	\$593	\$0	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$8,268	14
	Allocation (M\$)	\$8,727	\$7,488	\$171	\$4	\$10	\$1,613	\$1	\$593	\$0	\$0	\$0	\$0	20	\$0	21	\$0	\$8,268	15
15 16	Allocator - Total of other Distribution O&M Operating	56%	87%	2%	0%	0%	89%	0%	8%	55%	0%	0%	0%	0%	0%	0%	0%	98%	16
17	Allocation (M\$)	\$8.447	\$7,337	\$186	\$6	\$13	\$7,541	\$2	\$692	\$4,684	\$5	\$2	\$7	\$4	\$2	\$6	\$13	\$8,249	17
18	881 - Rents = Non-Marginal Designation	φ0,447	φ1,331	φ100	90	φ13	97,041	φΖ	ψ03Z	φ4,004	93	ΨΖ	91	Ψ4	ΨΖ	90	φ13	φ0,243	18
19	001 - Nonta - Non-marginar Designation																		19
20	Allocator - Total Other Distribution O&M Maintenance	100%	90%	2%	0%	0%	92%	0%	8%	100%	0%	0%	0%	0%	0%	0%	0%	100%	20
21	Allocation (M\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	21
22	()	7.	**	7.	**	**					**						**		22
23	Allocator - Customers Wtd by Services costs	100%	94%	2%	0%	0%	96%	0%	4%	100%	0%	0%	0%	0%	0%	0%	0%	100%	23
24	Allocation (M\$)	\$1,237	\$1,157	\$23	\$0	\$1	\$1,181	\$0	\$54	\$1,235	\$1	\$0	\$1	\$0	\$0	\$1	\$1	\$1,237	24
25	888 - Maint. Of Compressor Station Eq = 100% Demand-Related																		25
26	889 - Maint. of Meas. & Reg Station Eq = 100% Demand-Related																		26
27																			27
28	Allocator - Customers Wtd by Services costs	100%	94%	2%	0%	0%	96%	0%	4%	100%	0%	0%	0%	0%	0%	0%	0%	100%	28
29	Allocation (M\$)	\$2,998	\$2,804	\$56	\$1	\$2	\$2,864	\$0	\$130	\$2,995	\$1	\$0	\$2	\$1	\$1	\$1	\$3	\$2,998	29
30																			30
31	Allocator - Customers Wtd by Meters & Regs costs	100%	82%	3%	0%	0%	85%	0%	14%	100%	0%	0%	0%	0%	0%	0%	0%	100%	31
32	Allocation (M\$)	\$2,258	\$1,851	\$66	\$3	\$6	\$1,926	\$1	\$320	\$2,248	\$4	\$1	\$5	\$3	\$2	\$5	\$10	\$2,258	32
33	894 - Maint. of Other Eq = Non-Marginal Designation																		33
34	Total 870 - 894 O&M Allocation (M\$)	\$38,379	\$33,508	\$849	\$26	\$58	\$34,440	\$11	\$3,117	\$24,158	\$25	\$9	\$34	\$19	\$12	\$31	\$64	\$37,633	34
35	Allocation %	100%	87%	2%	0%	0%	90%	0%	8%	63%	0%	0%	0%	0%	0%	0%	0%	98%	35

Notes

- Col. (B) from Customer-Related expense section of Workpapers Table "LF-3". (tab Loader Input)
- 2. Allocation Factors for FERC Accounts 870 894 from Workpapers Table "LRMCC-9" (tab 870-894 Fctrs)

Data Sources: tab: Loader Input, 870-894 Fctrs

TABLE LRMCC-9 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

Allocation Factors for Distribution O&M Expenses 2020 TCAP

	Allocation Method	G-R	G-M	Res G-S	G-T	Total	NGV	GN-3	Total Core	MPD	GTNC HPD 1	Total	< 3 MM	EG > 3 MM	Total	Total Noncore	System Total	
	A	В	С	D	E	F	G	Н		J	K L	_	M	N	0	Р	Q	\blacksquare
1 2 3 4 5 6	874, 887, 892 - Services Allocator - Customers Wtd by Services costs (M\$) Alloc % 878, 893 - Meters & House Regulators O&M Expense Allocator - Customers Wtd by Meters & Regs costs (M\$) Alloc %	\$1,348,408 94% \$276,621 82%	\$27,167 2% \$9,843 3%	\$554 0% \$414 0%	\$1,190 0% \$942 0%	\$1,377,320 96% \$287,820 85%	\$234 0% \$197 0%	\$62,588 4% \$47,900 14%	\$1,440,142 100% \$335,917	\$633 0% \$564 0%	\$205 0% \$224 0%	\$838 0% \$788	\$375 0% \$462 0%	\$269 0% \$278 0%	\$644 0% \$740 0%	\$1,482 0% \$1,528	\$1,441,624 100% \$337,445 100%	1 2 3 4 5 6
8 9 10 11	879 - Customer Installations (M\$) Allocator - Customer Service Alloc %	\$9,966 85.8%	\$227 2.0%	\$6 0.1%	\$13 0.1%	\$10,211 87.9%	\$2 0.0%	\$789 6.8%	\$11,003	\$0 0.0%	\$0 0.0%	\$0	\$0 0.0%	\$0 0.0%	\$0 0.0%	\$0 0.0%	\$11,615 95%	8 9 10 11

Data Sources: tab: M&HR Alloc

TABLE LRMCC-10 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

ALLOCATION OF CUSTOMER O&M EXPENSES BY CUSTOMER CLASS 2020 TCAP $\,$

		Total	1			Total	I.	GTNC		I	EG		ı	Total	System	
	O&M Operational Activity	O&M	Res	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	IPP	Noncore	Ťotal	
	A	В	С	D	E	F	G	Н		J	K	L	M	N	0	
1	FIELD SERVICES Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	sn.	\$0	\$0	\$0	l so	\$0	1
,	CUSTOMER CONTACT Total	\$9.845	\$9.269	\$0	\$576	\$9.845	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9.845	1 2
3	METER READING Total	\$120,838	\$117,160	\$6	\$3.652	\$120.818	\$7	\$2	\$9	\$10	\$1	\$11	\$0	\$20	\$120.838	3
4	BILLING SERVICES Total	\$397,794	\$370,009	\$18	\$11,535	\$381,562	\$5,339	\$1,741	\$7,079	\$8.063	\$1.089	\$9,152	\$0	\$16,232	\$397,794	4
5	CREDIT & COLLECTIONS Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	5
6	BUSINESS ANALYSIS Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	6
7	CUSTOMER RESEARCH & COMMUNICATION Total	\$157,128	\$152,347	\$8	\$4,749	\$157,104	\$8	\$2	\$10	\$13	\$2	\$14	\$0	\$24	\$157,128	7
8	CUSTOMER SERVICE TECHNOLOGY & SUPPORT Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	8
	C&I CUSTOMER SERVICE Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	9
	CONSUMER PROGRAMS & SERVICES Total	\$192,630	\$186,767	\$9	\$5,822	\$192,599	\$10	\$3	\$14	\$15	\$2	\$18	\$0	\$31	\$192,630	10
	FEDERAL ACCOUNTS MANAGEMENT Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	11
	CUSTOMER SERVICES SUPPORT STAFF Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	12
	COMMUNITY OUTREACH & INFO SERVICES Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	13
	OTHER Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	14
15	SVP COST CENTERS Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	15
16																16
	Total	\$878,235	\$835,552	\$41	\$26,335	\$861,928	\$5,364	\$1,748	\$7,112	\$8,101	\$1,094	\$9,196	\$0	\$16,307	\$878,235	17
18	Allocation %	100%	95%	0%	3%	98%	1%	0%	1%	1%	0%	1%	0%	2%	100%	18

Note:

1. O&M Operational Activities cost assigned using allocation methods identified for each SDG&E department in the Customer Operations division. Source: From file: SDGE 2020TCAP LRMC OM Loaders.xls Tab: LRMCC-O&M Summary

TABLE LRMCC-backup.1 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

O&M ALLOCATION FACTOR: Number of Customers Weighted by Service Line Cost 2020 TCAP

	Max Meter Flow Range	Meter Type	Services Plant Investment	G-R	G-M	Res G-S	G-T	Total	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	EG > 3 MM	Total	Total Noncore	System Total	
		Туре	nivestilient	G-IX	G-1VI	- G-G	G	U	INGV	GIN-3	- Core	IVIFD	M	N	O	- 3 IVIIVI	O	Noncore	1 Otal	_
\rightarrow	A Cfh		C					п п		(Thousand	Dollare)	L	IVI	IN			Q	R		\vdash
	GIII		1					İ		(Triousariu	Dollars)	I		1			i	1		1
1 /	Medium Pressure																			1 1
2	0-275	250	\$2	\$1,278,191	\$20,565	\$135	\$8	\$1,298,899	\$11	\$22,813	\$1,321,722	\$0	\$0	\$0	\$2	\$0	\$2	\$2	\$1,321,724	2
3	276 - 425	425	\$2	\$32,880	\$1,665	\$46	\$3	\$34,594	\$0	\$3,844	\$38,438	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$38,438	3
4	426-630	630	\$2	\$17,655	\$967	\$10	\$11	\$18,642	\$0	\$3,896	\$22,538	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,538	4
5	631 - 800	8C	\$2	\$12,254	\$867	\$29	\$6	\$13,156	\$1	\$3,967	\$17,124	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,124	5
6	801 - 1,100	11C	\$2	\$4,973	\$743	\$46	\$6	\$5,768	\$2	\$3,503	\$9,272	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,272	6
7	1,101 - 1,500	15C	\$2	\$1,574	\$328	\$8	\$6	\$1,916	\$0	\$2,326	\$4,242	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,242	7
8	1,501 - 2,000	2M	\$2	\$474	\$140	\$10	\$3	\$627	\$0	\$2,330	\$2,956	\$0	\$0	\$0	\$54	\$0	\$54	\$54	\$3,010	8
9	2,001 - 3,000	3M	\$2	\$151	\$401	\$27	\$48	\$627	\$2	\$3,063	\$3,691	\$0	\$0	\$0	\$13	\$0	\$13	\$13	\$3,704	9
10	3,001 - 5,000	5M	\$7	\$121	\$592	\$50	\$371	\$1,135	\$13	\$6,298	\$7,446	\$6	\$0	\$6	\$72	\$0	\$72	\$78	\$7,524	10
11	5,001 - 7,000	7M	\$7	\$57	\$193	\$36	\$157	\$443	\$22	\$2,699	\$3,164	\$45	\$0	\$45	\$50	\$0	\$50	\$95	\$3,259	11
12																				12
	ligh Pressure																			13
14	0 - 940	400	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$2	\$2	\$0	\$0	\$0	\$2	\$0	\$2	\$2	\$3	14
15	941 - 1,050	8C	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	15
16	1,051 - 1,500	630	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	16
17	1,501 - 2,700	2M	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	17
18	2,701 - 4,000 4,001 - 6,600	3M	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13	\$13 \$0	\$13	\$13	18
19 20	4,001 - 6,600 6.601 - 9.200	5M 7M	\$7 \$7	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$4	\$0 \$8	\$0 \$13	\$6 \$6	\$0 \$0	\$6 \$6	\$0	\$0 \$51	\$0 \$51	\$6 \$57	\$6 \$70	19 20
20	9.201 - 14.500	11M	\$13	\$26	\$350	\$104	\$402	\$881	\$4 \$0	\$4.068	\$4.949	\$82	\$23	\$105	\$0 \$39	\$0	\$39	\$144	\$5.094	21
22	14.501 - 21.400	16M	\$13	\$26 \$52	\$311	\$39	\$402 \$168	\$570	\$87	\$2,223	\$2,880	\$176	\$23 \$0	\$105	\$13	\$0 \$0	\$13	\$189	\$3,094	22
23	21.401 - 21,400	11M-HP	\$13 \$16	\$52 \$0	\$47	\$16	\$100	\$63	\$29	\$2,223 \$202	\$2,000	\$57	\$0 \$0	\$57	\$0	\$28	\$28	\$85	\$3,069	23
23	24.001 - 46.000	16M-HP	\$16	\$0 \$0	\$47 \$0	\$0	\$0	\$03	\$29 \$48	\$202 \$953	\$1,001	\$100	\$56	\$156	\$47	\$28	\$20 \$75	\$231	\$1,232	24
25	46.001 - 79.000	23M-HP	\$28	\$0	\$0	\$0	\$0	\$0	\$17	\$294	\$311	\$76	\$50 \$50	\$126	\$84	\$150	\$234	\$360	\$671	25
26	79.001 - 377.000	8" Turbine	\$42	\$0	\$0	\$0	\$0	\$0	\$0	\$99	\$99	\$77	\$76	\$153	\$0	\$0	\$0	\$153	\$252	26
27	377.001 - 600.000	Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	27
28	600.001 - 4.250.000	Turbine	**	**	**	**	**	**	**	**	**		**	**	**	**	**	**	**	28
29	> 4,250,000	Turbine																		29
30	,,																			30
31	Total		N/A	\$1,348,408	\$27,167	\$554	\$1,190	\$1,377,320	\$234	\$62,588	\$1,440,142	\$633	\$205	\$838	\$375	\$269	\$644	\$1,482	\$1,441,624	31

Data Sources: tabs: MSA Cost, MSA Fcst MSA Rental

Note:
1. Rows (2) - (31) = Gross Service Line Capital Investment Cost (Table LRMCC-3) x Number of Services per Customer Segment for each particular flow range (Table LRMCC-6).

TABLE LRMCC-backup.2 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

O&M ALLOCATION FACTOR: Number of Customers Weighted by MSA Cost 2020 TCAP

	Max Meter Flow Range	Meter Type	MSA Capital Investment	G-R	G-M	Res G-S	G-T	Total	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	EG > 3 MM	Total	Total Noncore	System Total	
_	A	B	C	D	F	F	G	Н	1	.1	K	1	M	N	0	P	0	R	S I	
	Cfh									(Thousand	Dollars)					· ·	~			
								1		•	´ I			1			1	1		
1	Medium Pressure																			. 1
2	0-275	250	\$0	\$228,336	\$3,674	\$24	\$1	\$232,035	\$2	\$4,075	\$236,112	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$236,112	2
3	276 - 425	425	\$1	\$14,649	\$742	\$21	\$1	\$15,412	\$0	\$1,713	\$17,125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,125	3
4	426-630	630	\$1	\$12,242	\$670	\$7	\$8	\$12,927	\$0	\$2,702	\$15,629	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,629	4
5	631 - 800	8C	\$1	\$11,537	\$816	\$27	\$6	\$12,386	\$1	\$3,734	\$16,121	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,121	5
6	801 - 1,100	11C	\$2	\$4,957	\$740	\$46	\$6	\$5,750	\$2	\$3,492	\$9,244	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,244	6
7	1,101 - 1,500	15C	\$3	\$2,928	\$609	\$15	\$12	\$3,564	\$0	\$4,325	\$7,889	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,889	7
8	1,501 - 2,000	2M	\$5	\$1,364	\$403	\$27	\$9	\$1,803	\$0	\$6,704	\$8,507	\$0	\$0	\$0	\$156	\$0	\$156	\$156	\$8,663	8
9	2,001 - 3,000	3M	\$4	\$422	\$1,121	\$76	\$133	\$1,752	\$5	\$8,565	\$10,322	\$0	\$0	\$0	\$36	\$0	\$36	\$36	\$10,358	9
10	3,001 - 5,000	5M	\$5	\$92	\$448	\$38	\$281	\$858	\$10	\$4,764	\$5,633	\$5	\$0	\$5	\$54	\$0	\$54	\$59	\$5,692	10
11	5,001 - 7,000	7M	\$6	\$46	\$154	\$29	\$126	\$355	\$17	\$2,163	\$2,535	\$36	\$0	\$36	\$40	\$0	\$40	\$76	\$2,611	11
12 13	High Barrery																			12
13 14	High Pressure 0 - 940	400	60	**	***	60	***	60	60	A 0	r c	***		60	60	60	60	60		13
15	941 - 1.050	400 8C	\$3 \$5	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$3 \$0	\$3	\$0 \$0	\$0 \$0	\$0 \$0	\$3 \$0	\$0 \$0	\$3 \$0	\$3 \$0	\$6 \$0	14 15
16	1.051 - 1.500	630	\$3	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 60	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	16
17	1,501 - 1,500	2M	\$5 \$5	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	φ0 ***	φ0 	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0	\$0	\$0	10
18	2.701 - 4.000	3M	\$5 \$5	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0	\$U @0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$9	\$9	\$9	\$9	17
19	4.001 - 6.600	5M	\$7	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6	\$0	\$6	\$0	\$0	\$0	\$6	\$6	19
20	6,601 - 9,200	7M	\$7	\$0	\$0	\$0	\$0	\$0	\$4	\$8	\$13	\$7	\$0	\$7	\$0	\$52	\$52	\$58	\$71	20
21	9,201 - 14,500	11M	\$8	\$16	\$219	\$65	\$251	\$551	\$0	\$2.544	\$3.094	\$51	\$14	\$66	\$24	\$0	\$24	\$90	\$3,185	21
22	14.501 - 21.400	16M	\$8	\$33	\$198	\$25	\$107	\$362	\$55	\$1,412	\$1.830	\$112	\$0	\$112	\$8	\$0	\$8	\$120	\$1,950	22
23	21.401 - 24.000	11M-HP	\$16	\$0	\$49	\$16	\$0	\$65	\$30	\$210	\$305	\$59	\$0	\$59	\$0	\$29	\$29	\$88	\$393	23
24	24,001 - 46,000	16M-HP	\$17	\$0	\$0	\$0	\$0	\$0	\$53	\$1,051	\$1,104	\$110	\$62	\$172	\$52	\$31	\$83	\$255	\$1,358	24
25	46,001 - 79,000	23M-HP	\$29	\$0	\$0	\$0	\$0	\$0	\$18	\$310	\$328	\$80	\$52	\$133	\$89	\$157	\$246	\$379	\$707	25
26	79,001 - 377,000	8" Turbine	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$125	\$125	\$97	\$96	\$193	\$0	\$0	\$0	\$193	\$318	26
27	377,001 - 600,000	Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	27
28	600,001 - 4,250,000	Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	28
29	> 4,250,000	Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	29
30 31	Total		N/A	\$276.621	\$9.843	\$414	\$942	\$287.820	\$197	\$47.900	\$335.917	\$564	\$224	\$788	\$462	\$278	\$740	\$1,528	\$337,445	30 31
31	iotai		14/A	Ψ210,021	¥J,043	φ 4 14	9342	Ψ237,020	\$131	₩+1,300	ψυσυ,σ17	\$304	Ψ 22 4	φ100	9402	\$210	\$140	ψ1,020	\$557, 44 5	

Note:
1. Rows (2) - (31) = Gross MSA Capital Investment Cost (Table LRMCC-1) x Number of MSA's per Customer Segment for each particular flow range (Table LRMCC-6).

Data Sources: tabs: MSA Cost, MSA Fcst

TABLE LRMCC-nco.1 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

WEIGHTED MSA PVRR FACTOR 2024 TCAP

	Max Meter	Meter, Regulator,	Meter & Regulator	Installation	Installation Costs	Weighted Average	
	Flow Range	& Fitting Costs	PVRR Factor	Costs	PVRR Factor	PVRR Factor	
	A	В	С	D	E	F	
	Cfh	(Dollars)	(Percent)	(Dollars)	(Percent)	(Percent)	
1	Medium Pressure						1
2	0-275	\$201.92	132.96%	\$79.05	124.49%	130.58%	2
3	276 - 425	\$552.79	132.96%	\$147.95	124.49%	131.17%	3
4	426-630	\$942.70	132.96%	\$147.95	124.49%	131.81%	4
5	631 - 800	\$1,184.83	132.96%	\$295.89	124.49%	131.27%	5
6	801 - 1,100	\$1,272.08	132.96%	\$295.89	124.49%	131.36%	6
7	1,101 - 1,500	\$1,959.59	132.96%	\$965.32	124.49%	130.17%	7
8	1,501 - 2,000	\$3,004.61	132.96%	\$1,521.50	124.49%	130.11%	8
9	2,001 - 3,000	\$2,876.82	132.96%	\$1,521.50	124.49%	130.03%	9
10	3,001 - 5,000	\$3,818.62	132.96%	\$1,521.50	124.49%	130.55%	10
11	5,001 - 7,000	\$4,135.22	132.96%	\$1,521.50	124.49%	130.68%	11
12							12
13	High Pressure						13
14	0 - 940	\$1,560.80	132.96%	\$965.32	124.49%	129.72%	14
15	941 - 1,050	\$3,326.33	132.96%	\$1,521.50	124.49%	130.30%	15
16	1,051 - 1,500	\$1,950.71	132.96%	\$965.32	124.49%	130.16%	16
17	1,501 - 2,700	\$3,498.37	132.96%	\$1,521.50	124.49%	130.39%	17
18	2,701 - 4,000	\$3,370.57	132.96%	\$1,521.50	124.49%	130.33%	18
19	4,001 - 6,600	\$4,823.01	132.96%	\$1,736.02	124.49%	130.72%	19
20	6,601 - 9,200	\$5,428.28	132.96%	\$1,736.02	124.49%	130.91%	20
21	9,201 - 14,500	\$5,971.25	132.96%	\$2,040.68	124.49%	130.80%	21
22	14,501 - 21,400	\$6,100.56	132.96%	\$2,040.68	124.49%	130.84%	22
23	21,401 - 24,000	\$11,792.33	132.96%	\$4,360.50	124.49%	130.67%	23
24	24,001 - 46,000	\$12,722.16	132.96%	\$4,406.99	124.49%	130.78%	24
25	46,001 - 79,000	\$21,019.90	132.96%	\$8,145.67	124.49%	130.60%	25
26	79,001 - 377,000	\$41,020.86	132.96%	\$12,055.79	124.49%	131.04%	26
27	377,001 - 600,000					131.04%	27
28	600,001 - 4,250,000					131.04%	28
29	> 4,250,000					131.04%	29

Notes:

1. Col. (F) = [Col (B) x Col. (C)] + [Col. (D) x Col. (E)] + [Col. (B) + Col. (D)]

2. Rows (27) - (29): Weighted Average PVRR Factor meter & installation weights from Row (26).

TABLE LRMCC-nco.2 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

NCO ANNUAL SERVICE, REGULATOR & METER (SRM) NEW HOOKUP INVESTMENT 2020 TCAP

				Regulator			Installation	_				Forecast
	Max Meter	Meter	M&R	PVRR	NCO Hookup	Service	Service	Residential	PVRR	NCO Hookup	NCO Residential	New
	Flow Range	Туре	Cost	Factor	Investment	Туре	Cost	Cost Line X	Factor	Investment	Cost Line X	Hookups
	Α	В	С	D	E	F	G		Н			J
	Cfh		(Dollars)	(Percent)	(Dollars)		(Dollars)		(Percent)	(Dollars)		_
1	Medium Pressure											
2	0-275	250	\$281	130.58%	\$367	Poly-0.5"	\$1,573	\$1,854	125.07%	\$1,967	\$2,319	7,811
3	276 - 425	425	\$701	131.17%	\$919	Poly-0.5"	\$1,573	\$2,274	125.07%	\$1,967	\$2,844	211
4	426-630	630	\$1,091	131.81%	\$1,438	Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	115
5	631 - 800	8C	\$1,481	131.27%	\$1,944	Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	82
6	801 - 1,100	11C	\$1,568	131.36%	\$2,060	Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	38
7	1,101 - 1,500	15C	\$2,925	130.17%	\$3,807	Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	14
8	1,501 - 2,000	2M	\$4,526	130.11%	\$5,889	Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	6
9	2,001 - 3,000	3M	\$4,398	130.03%	\$5,719	Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	6
10	3,001 - 5,000	5M	\$5,340	130.55%	\$6,971	Poly-2"	\$7,059	\$2,615	125.07%	\$8,829	\$3,271	3
11	5,001 - 7,000	7M	\$5,657	130.68%	\$7,392	Poly-2"	\$7,059	\$2,615	125.07%	\$8,829	\$3,271	1
12												
13	High Pressure											
14	0 - 940	400	\$2,526	129.72%	\$3,277	Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	0
15	941 - 1,050	8C	\$4,848	130.30%	\$6,317	Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	-
16	1,051 - 1,500	630	\$2,916	130.16%	\$3,795	Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	-
17	1,501 - 2,700	2M	\$5,020	130.39%	\$6,546	Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	-
18	2,701 - 4,000	3M	\$4,892	130.33%	\$6,376	Poly-2"	\$7,059	\$2,615	125.07%	\$8,829	\$3,271	-
19	4,001 - 6,600	5M	\$6,559	130.72%	\$8,574	Poly-2"	\$7,059	\$2,615	125.07%	\$8,829	\$3,271	-
20	6,601 - 9,200	7M	\$7,164	130.91%	\$9,379	Poly-2"	\$7,059	\$2,615	125.07%	\$8,829	\$3,271	0
21	9,201 - 14,500	11M	\$8,012	130.80%	\$10,480	Poly-3"	\$12,815	\$2,615	125.07%	\$16,028	\$3,271	1
22	14,501 - 21,400	16M	\$8,141	130.84%	\$10,652	Poly-3"	\$12,815	\$2,615	125.07%	\$16,028	\$3,271	1
23	21,401 - 24,000	11M-HP	\$16,153	130.67%	\$21,108	Poly-4"	\$15,533	\$2,615	125.07%	\$19,428	\$3,271	0
24	24,001 - 46,000	16M-HP	\$17,129	130.78%	\$22,402	Poly-4"	\$15,533	\$2,615	125.07%	\$19,428	\$3,271	0
25	46,001 - 79,000	23M-HP	\$29,166	130.60%	\$38,089	Steel-4"	\$27,696	\$2,615	125.07%	\$34,640	\$3,271	0
26	79,001 - 377,000	8" Turbine	\$53,077	131.04%	\$69,550	Steel-6"	\$42,055	\$2,615	125.07%	\$52,599	\$3,271	0
27	377,001 - 600,000	Turbine	\$0	131.04%	\$0	Steel-8"	\$0	\$0	125.07%	\$0	\$0	-
28	600,001 - 4,250,000	Turbine	\$0	131.04%	\$0	Steel-16"	\$0	\$0	125.07%			-
29	> 4,250,000	Turbine	\$0	131.04%	\$0	Steel-24"	\$0	\$0	125.07%			

Notes:

- 1. Col. (E) = Col. (C) x Col. (D). 2. Col. (I) = Col. (G) x Col. (H). 3. Col. (K) = [Col. (E) + Col. (I)] x Col. (J).

TABLE LRMCC-nco.3 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

WEIGHTED MSA BOOK LIFE 2024 TCAP

	Max Meter Flow Range	Meter, Regulator, & Fitting Costs	Meter & Regulator Book Life	Installation Costs	Installation Costs Book Life	Weighted Average PVRR Factor	
	A	В	С	D	Е	F	
	Cfh	(Dollars)	(Years)	(Dollars)	(Years)	(Percent)	
1	Medium Pressure						1
2	0-275	\$201.92	41.0	\$79.05	35.0	39.3	2
3	276 - 425	\$552.79	41.0	\$147.95	35.0	39.7	3
4	426-630	\$942.70	41.0	\$147.95	35.0	40.2	4
5	631 - 800	\$1,184.83	41.0	\$295.89	35.0	39.8	5
6	801 - 1,100	\$1,272.08	41.0	\$295.89	35.0	39.9	6
7	1,101 - 1,500	\$1,959.59	41.0	\$965.32	35.0	39.0	7
8	1,501 - 2,000	\$3,004.61	41.0	\$1,521.50	35.0	39.0	8
9	2,001 - 3,000	\$2,876.82	41.0	\$1,521.50	35.0	38.9	9
10	3,001 - 5,000	\$3,818.62	41.0	\$1,521.50	35.0	39.3	10
11	5,001 - 7,000	\$4,135.22	41.0	\$1,521.50	35.0	39.4	11
12							12
13	High Pressure						13
14	0 - 940	\$1,560.80	41.0	\$965.32	35.0	38.7	14
15	941 - 1,050	\$3,326.33	41.0	\$1,521.50	35.0	39.1	15
16	1,051 - 1,500	\$1,950.71	41.0	\$965.32	35.0	39.0	16
17	1,501 - 2,700	\$3,498.37	41.0	\$1,521.50	35.0	39.2	17
18	2,701 - 4,000	\$3,370.57	41.0	\$1,521.50	35.0	39.1	18
19	4,001 - 6,600	\$4,823.01	41.0	\$1,736.02	35.0	39.4	19
20	6,601 - 9,200	\$5,428.28	41.0	\$1,736.02	35.0	39.5	20
21	9,201 - 14,500	\$5,971.25	41.0	\$2,040.68	35.0	39.5	21
22	14,501 - 21,400	\$6,100.56	41.0	\$2,040.68	35.0	39.5	22
23	21,401 - 24,000	\$11,792.33	41.0	\$4,360.50	35.0	39.4	23
24	24,001 - 46,000	\$12,722.16	41.0	\$4,406.99	35.0	39.5	24
25	46,001 - 79,000	\$21,019.90	41.0	\$8,145.67	35.0	39.3	25
26	79,001 - 377,000	\$41,020.86	41.0	\$12,055.79	35.0	39.6	26
27	377,001 - 600,000					39.6	27
28	600,001 - 4,250,000					39.6	28
29	> 4,250,000					39.6	29

Notes:
1. Col. (F) = [Col (B) x Col. (C)] + [Col. (D) x Col. (E)] ÷ [Col. (B) + Col. (D)]
2. Rows (27) - (29): Weighted Average Book Life meter & installation weights from Row (26).

Data Sources: MSA Cost tab and Finance Group for Book Life

TABLE LRMCC-nco.4 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

NCO ANNUAL SERVICE, REGULATOR & METER (SRM) REPLACEMENT COST $2024\,\mathrm{TCAP}$

			Mete	r & Regulator Re	placement			Repla	acement Pipe &	Installation	1	Number of	Total SRM	
	Max Meter	Meter	M&R	PVRR	Replacement	Replacement	Service	Service	PVRR	Replacement	Replacement	Existing	Annual Cost	
	Flow Range	Type	Cost	Factor	Investment	Rate	Type	Cost	Factor	Investment	Rate	Customers	Replacement	
	A	В	С	D	E	F	G	Н		J	K	L	M	
	Cfh		(Dollars)	(Percent)	(Dollars)	(Percent)		(Dollars)	(Percent)	(Dollars)	(Percent)		(Dollars)	
1 I	Medium Pressure													1
2	0-275	250	\$202	124.49%	\$251	2.5%	Poly-0.5"	\$10,304	125.07%	\$12,888	1.5%	829,100	\$169,692,606	2
3	276 - 425	400	\$553	124.49%	\$688	2.5%	Poly-0.5"	\$10,304	125.07%	\$12,888	1.5%	23,825	\$5,136,589	3
4	426-630	630	\$943	124.49%	\$1,174	2.5%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	13,822	\$3,784,440	4
5	631 - 800	8C	\$1,185	124.49%	\$1,475	2.5%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	10,411	\$2,932,307	5
6	801 - 1,100	11C	\$1,272	124.49%	\$1,584	2.5%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	5,516	\$1,568,294	6
7	1,101 - 1,500	15C	\$1,960	124.49%	\$2,440	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	2,458	\$754,891	7
8	1,501 - 2,000	2M	\$3,005	124.49%	\$3,741	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	1,683	\$573,143	8
9	2,001 - 3,000	3M	\$2,877	124.49%	\$3,581	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	2,054	\$691,388	9
10	3,001 - 5,000	5M	\$3,819	124.49%	\$4,754	2.5%	Poly-2"	\$32,214	125.07%	\$40,291	1.5%	929	\$688,260	10
11	5,001 - 7,000	7M	\$4,135	124.49%	\$5,148	2.5%	Poly-2"	\$32,214	125.07%	\$40,291	1.5%	405	\$303,982	11
12							•							12
13	High Pressure													13
14	0 - 940	400	\$1,561	124.49%	\$1,943	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	2	\$588	14
15	941 - 1,050	8C	\$3,326	124.49%	\$4,141	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	-	\$0	15
16	1,051 - 1,500	630	\$1,951	124.49%	\$2,429	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	-	\$0	16
17	1,501 - 2,700	2M	\$3,498	124.49%	\$4,355	2.6%		\$12,711	125.07%	\$15,899	1.5%	-	\$0	17
18	2,701 - 4,000	3M	\$3,371	124.49%	\$4,196	2.6%	Poly-2"	\$32,214	125.07%	\$40,291	1.5%	1	\$725	18
19	4,001 - 6,600	5M	\$4,823	124.49%	\$6,004	2.5%	Poly-2"	\$32,214	125.07%	\$40,291	1.5%	1	\$770	19
20	6,601 - 9,200	7M	\$5,428	124.49%	\$6,758	2.5%	Poly-2"	\$32,214	125.07%	\$40,291	1.5%	7	\$5,515	20
21	9,201 - 14,500	11M	\$5,971	124.49%	\$7,434	2.5%	Poly-3"	\$41,203	125.07%	\$51,534	1.5%	349	\$341,335	21
22	14,501 - 21,400	16M	\$6,101	124.49%	\$7,595	2.5%	Poly-3"	\$41,203	125.07%	\$51,534	1.5%	218	\$214,061	22
23	21,401 - 24,000	11M-HP	\$11,792	124.49%	\$14,681	2.5%	Poly-4"	\$32,950	125.07%	\$41,211	1.5%	23	\$23,015	23
24	24,001 - 46,000	16M-HP	\$12,722	124.49%	\$15,838	2.5%	Poly-4"	\$32,950	125.07%	\$41,211	1.5%	72	\$74,072	24
25	46,001 - 79,000	23M-HP	\$21,020	124.49%	\$26,169	2.5%	Steel-4"	\$52,031	125.07%	\$65,076	1.5%	21	\$34,768	25
26	79,001 - 377,000	8" Turbine	\$41,021	124.49%	\$51,069	2.5%	Steel-6"	\$64,522	125.07%	\$80,700	1.5%	6	\$15,051	26
27	377,001 - 600,000	Turbine	\$0	0.00%	\$0	2.5%	Steel-8"	\$0	125.07%	\$0	1.5%	-	\$0	27
28	600,001 - 4,250,000	Turbine	\$0	0.00%	\$0	2.5%	Steel-16"		125.07%		1.5%	-	\$0	28
29	> 4,250,000	Turbine	\$0 _	0.00%	\$0	2.5%	Steel-24"		125.07%	\$0	1.5%		\$0	29

Notes:

- 1. Col. (E) = Col. (C) x Col. (D).
 2. Col. (J) = Col. (H) x Col. (I).
 3. For Rows (2) (3): Col. (M) = [Col. (E) x Col. (L) x Col. (F) x [1 Note 6]] + [Col. (J) x Col. (L) x Col. (K)]
 4. For Rows (4) (28): Col. (M) = [Col. (E) x Col. (L) x Col. (F) x [1 Note 7]] + [Col. (J) x Col. (L) x Col. (K)]
 5. Col. (L) Number of Existing Customers = 2016 Recorded Customers (Total at Inception of TCAP Period) x Proportion of Total @ Meter Flow.

Percent of small MSA's (Flow = 0 - 375 Cfh) replaced with refurbished meter - provided by SDG&E Gas Engineering Dept. 0.00%

1.66% Percent of other MSA's (Flow > 375 Cfh) replaced with refurbished meter - provided by SDG&E Gas Engineering Dept.

Data Sources: tabs: MSA Cost, MSA PVRR, MSA NCOp1, MSA Life, Factors. Data Sources: SDG&E Gas Engineering & Finance Group

TABLE LRMCC-nco.5 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

FORECAST NEW HOOKUPS FOR 2023-2027 2024 TCAP

	Customer	Year-E	nd	2024	Year-E	ind	2025	Year-E	nd	2026	Year-E	nd	2027	Average Annual	
	Class	2023	2024	Hookups	2024	2025	Hookups	2025	2026	Hookups	2026	2027	Hookups	New Hookups	
	A	В	С	D	E	F	G	E	F	G	E	F	G	Н	
1	Residential	888,738	896,990	8,252	896,990	905,216	8,226	905,216	913,509	8,293	913,509	921,721	8,212	8,246	1
2	NGV	37	37	-	37	37	-	37	38	1	38	38	-	0	2
3	Core C&I - GN3	30,378	30,424	46	30,424	30,467	43	30,467	30,510	43	30,510	30,549	39	43	3
4	Noncore C&I - GTNC	50	50	-	50	50	-	50	50	-	50	50	-	-	4
5	EG - Cogen	96	96	-	96	96	-	96	96	-	96	96	-	-	5
6	Power Plants	-	-	-	-	-	-	-	-	-	-	-	-	-	6
7															7
- 8	Total Customers	919,299	927,597	8,298	927,597	935,866	8,269	935,866	944,203	8,337	944,203	952,454	8,251	8,289	8

Notes:

- 1. Col. (D) = Col. (C) Col (B). 2. Col. (G) = Col. (F) Col (E). 3. Col. (J) = Col. (I) Col (H). 4. Col. (K) = Average Col. (D) & Col (G) & Col (J).

TABLE LRMCC-nco.6 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

FORECAST NEW HOOKUPS BY METER TYPE BY CUSTOMER CLASS 2020 TCAP

	Max Meter	Meter	_		011.0	Total		GTNC			EG		Total	System	
	Flow Range	Туре	Res	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Noncore	Total	
	A	В	С	D	E	F	G	Н	ı	J	K	L	N	0	
	Cfh														ı
1	Medium Pressure														1
2	0-275	250	7,791	0	20	7,811	-	_	-	_	_	-	-	7,811	2
3	276 - 425	425	207	-	3	211	_	_	_	-	_	-	_	211	3
4	426-630	630	112	_	3	115	_	-	-	-	-	-	_	115	4
5	631 - 800	8C	79	0	3	82	-	-	-	-	-	-	-	82	5
6	801 - 1,100	11C	35	0	3	38	_	-	-	-	-	-	-	38	6
7	1,101 - 1,500	15C	11	-	2	14	-	-	-	-	-	-	-	14	7
8	1,501 - 2,000	2M	4	-	2	6	-	-	-	-	-	-	-	6	8
9	2,001 - 3,000	3M	4	0	3	6	-	-	-	-	-	-	-	6	9
10	3,001 - 5,000	5M	2	0	1	3	-	-	-	-	-	-	-	3	10
11	5,001 - 7,000	7M	1	0	1	1	-	-	-	-	-	-	-	1	11
12															12
13	High Pressure														13
14	0 - 940	400	=	=	0	0	-	=.	=	-	-	-	-	0	14
15	941 - 1,050	8C	-	-	-	-	-	-	-	-	-	-	-	-	15
16	1,051 - 1,500	630	-	-	-	-	-	-	-	-	-	-	-	-	16
17	1,501 - 2,700	2M	-	-	-	-	-	-	-	-	-	-	-	-	17
18	2,701 - 4,000	3M	-	-	-	-	-	-	-	-	-	-	-	-	18
19	4,001 - 6,600	5M	-	-	-	-	-	-	-	-	-	-	-	-	19
20	6,601 - 9,200	7M	-	0	0	0	-	-	-	-	-	-	-	0	20
21	9,201 - 14,500	11M	1	-	0	1	-	-	-	-	-	-	-	1	21
22	14,501 - 21,400	16M	0	0	0	1	-	-	-	-	-	-	-	1	22
23	21,401 - 24,000	11M-HP	0	0	0	0	-	-	-	-	-	-	-	0	23
24	24,001 - 46,000	16M-HP	-	0	0	0	-	-	-	-	-	-	-	0	24
25	46,001 - 79,000	23M-HP	-	0	0	0	-	-	-	-	-	-	-	0	25
26	79,001 - 377,000	8" Turbine	-	-	0	0	-	-	-	-	-	-	-	0	26
27	377,001 - 600,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	27
28	600,001 - 4,250,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	28
29	> 4,250,000	Turbine	-	-		-	-	-	-	-		-		-	29
30 31	Total Customers		8,246	0	43	8,289	-	-	-	-	-	=	-	8,289	30 31

Note:

1. New Hookups Forecast on Basis on Average Annual Net Customer Gain for 2017 - 2019 TCAP Period.

verify 8,246 0 43 8,289 - - - - - - - 8,289

Data Sources: Tabs: MSA Cost, MSAlloc v2

TABLE LRMCC-nco.7 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

NCO ANNUALIZED SRM NEW HOOKUP & NO REPLACEMENT INVESTMENT BY CUSTOMER CLASS 2020 TCAP $\,$

	Max Meter	Meter	Per Customer	Res Per Customer	5	011 - D	NOV	011.0	Total	MDD	GTNC HPD	-		EG .		Total
	Flow Range	Туре	SRM Invstmt	G-R SRM Line X	Res	Other Res	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Noncore
	A	В	C	_	D	_	E	F	G	Н	l	J	K	L	M	0
	Cfh		(Dollars)													
1	Medium Pressure															
2	0-275	250	\$22	\$25	\$20,285,072	\$285,634	\$147	\$314,667	\$20,885,520	\$0	\$0	\$0	\$22	\$0	\$0	\$0
3	276 - 425	425	\$25	\$32	\$678,717	\$27,145	\$0	\$60,871	\$766,732	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	426-630	630	\$27	\$38	\$425,005	\$17,192	\$0	\$67,827	\$510,023	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	631 - 800	8C	\$30	\$39	\$307,482	\$16,969	\$18	\$74,651	\$399,120	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	801 - 1,100	11C	\$26	\$34	\$107,722	\$13,012	\$32	\$57,323	\$178,089	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	1,101 - 1,500	15C	\$29	\$36	\$35,558	\$6,300	\$0	\$42,858	\$84,716	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	1,501 - 2,000	2M	\$24	\$28	\$8,370	\$2,313	\$0	\$35,290	\$45,973	\$0	\$0	\$0	\$822	\$0	\$0	\$0
8	2,001 - 3,000	3M	\$21	\$25	\$2,369	\$6,374	\$26	\$41,058	\$49,826	\$0	\$0	\$0	\$171	\$0	\$0	\$0
9	3,001 - 5,000	5M	\$41	\$27	\$457	\$5,887	\$76	\$36,586	\$43,006	\$38	\$0	\$38	\$416	\$0	\$0	\$38
10	5,001 - 7,000	7M	\$40	\$27	\$214	\$2,202	\$124	\$15,418	\$17,958	\$259	\$0	\$259	\$286	\$0	\$0	\$259
11 12	High Pressure															
13	0 - 940	400	\$4	\$5	\$0	\$0	\$0	\$5	\$5	\$0	\$0	\$0	\$4	\$0	\$0	\$0
14	941 - 1.050	8C	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0
15	1,051 - 1,500	630	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0
16	1,501 - 2,700	2M	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0
17	2,701 - 4,000	3M	\$0	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0
18	4,001 - 6,600	5M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
19	6,601 - 9,200	7M	\$13	\$9	\$0	\$0	\$8	\$16	\$24	\$12	\$0	\$12	\$0	\$95	\$190	\$107
20	9,201 - 14,500	11M	\$73	\$38	\$76	\$4,839	\$0	\$23,020	\$27,934	\$465	\$131	\$596	\$221	\$0	\$0	\$596
21	14.501 - 21.400	16M	\$80	\$42	\$169	\$3,246	\$542	\$13,925	\$17,883	\$1,104	\$0	\$1,104	\$81	\$0	\$0	\$1,104
22	21.401 - 24.000	11M-HP	\$121	\$73	\$0	\$490	\$223	\$1,573	\$2,287	\$444	\$0	\$444	\$0	\$218	\$436	\$663
23	24,001 - 46,000	16M-HP	\$59	\$36	\$0	\$0	\$182	\$3,644	\$3,827	\$381	\$214	\$595	\$181	\$107	\$214	\$702
24	46,001 - 79,000	23M-HP	\$61	\$35	\$0	\$0	\$37	\$645	\$682	\$167	\$109	\$276	\$185	\$328	\$656	\$604
25	79.001 - 377.000	8" Turbine	\$66	\$40	\$0	\$0	\$0	\$157	\$157	\$122	\$120	\$242	\$0	\$0	\$0	\$242
26	377.001 - 600.000	Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
27	600,001 - 4,250,000	Turbine	**	**	*-				**	"					• 1	**
28	> 4,250,000	Turbine							l							
29	Total				\$21,851,212	\$391,602	\$1,415	\$789,533	\$23,033,761	\$2,992	\$573	\$3,565	\$2,388	\$748	\$1,496	\$4,313
30	Forecast Customers				857,179	16,889	28	30,937	905,032	44	9	53	72	18	90	143
31 32	Average SRM Cost				\$25	\$23	\$51	\$26	\$25	\$68	\$64	\$67	\$33	\$42	\$17	\$30

Notes:

1. Row (29) = Total of NCO Annualized SRM New Hookup & Replacement Investment x Number of MSA's per Customer Segment.
2. Row (32) = Row (29) + Row (30).

Data Sources: tabs: MSA Cost, MSA Fcst, MSA NCOp1

TABLE LRMCC-nco.7 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

NCO ANNUALIZED SRM NEW HOOKUP & REPLACEMENT INVESTMENT BY CUSTOMER CLASS 2020 TCAP

A B C D E F G H I J K L M N O P Medium Pressure				er Customer	Res				NOV	011.0	Total	1400	GTNC			EG			Total	System
Ch (Collers) Medium Pressure	Flov	w Range	Type S	SRM Invstmt S	RM Invstmt	Res	Other Res	Res	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	< 3 MM	> 3 MM	Total	Noncore	Total
Modium Pressure 1		A	В	C		D	_	D	E	F	G	Н	I	J	K	L	M	N	0	P
2 0.275 250 \$224 \$27 \$164.388,585 \$2.244,280 \$167,382,285 \$1,511 \$3,243,545 \$190,577,921 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		Cth		(Dollars)													l			
2 0.275 250 \$224 \$27 \$164.388,585 \$2.244,280 \$167,382,285 \$1,511 \$3,243,545 \$190,577,921 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0																				l.
3	1 Meaium		050	0004	8007	0404.000.505	00.044.000	*407.000.005	04.544	00.040.545	0400 577 004	***	***		8007	0007	***	6007	00	1
## 426-630 630 5291 \$302 \$3,389,419 \$183,009 \$3,372,428 \$0 \$722,036 \$4,294,464 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	<u> </u>																			
4 631-800 8C \$299 \$309 \$2405948 \$171,372 \$2.77,320 \$184 \$753,924 \$3.331,427 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	3															\$0				
5 801-1100 11C \$292 \$300 \$944,776 \$117,495 \$1,096,274 \$358 \$944,751 \$17,46,383 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	اد														\$0	\$U				
6 1.101 - 1.500 15C	<u> </u>														\$0	\$0				
7																\$U				
8 2.001 - 3.000 3M \$316 \$318 \$30,588 \$95,127 \$11,569 \$88,596 \$111,151 \$1,265 \$812,709 \$738,832 \$0 \$0 \$0 \$0 \$2,553 \$0 \$2,553 \$0 \$57,832,754 \$9 \$0,01 - 5,000 5M \$587 \$672 \$11,565 \$88,596 \$11,156 \$88,596 \$11,156 \$1,265 \$812,709 \$724,125 \$830 \$0 \$36,894 \$4,800 \$4,900 \$0 \$4,900 \$0 \$4,484 \$1,000 \$4,484 \$1,000 \$4,484 \$1,000 \$4,484 \$1,000 \$4,484 \$1,000 \$4,484 \$1,000 \$4,484 \$1,000 \$1,00																				
9 3.001 - 5.000 5M																				
10 5.001 -7,000 7M \$699 \$685 \$5,540 \$38,152 \$43,693 \$2,146 \$267,202 \$313,041 \$4,484 \$0 \$4,484 \$4,960 \$4,486 \$4,960 \$0 \$4,960 \$54,486 \$317,525 \$#\$ 12 High Pressure 13 0 -940 400 \$272 \$273 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0																				
## ## ## ## ## ## ## ## ## ## ## ## ##																				
10 - 944 400 5272 5273 50 50 50 50 50 50 50 50 50 50 50 50 50	14	5,001 - 7,000	/ IVI	9099	9000	φυ,υ40	φ30,132	\$43,093	φ2, 140	\$201,202	φ313,0 4 1	94,404	φU	\$4,404	94,900	φ4,300	φυ	\$4,500	φ4,404	\$317,525 #
10 - 944 400 5272 5273 50 50 50 50 50 50 50 50 50 50 50 50 50	12 High Pro	ecura																		l#
14	13		400	\$272	\$273	en en	en en	¢n.	\$n	¢321	\$321	\$n	¢n.	¢n.	\$276	\$276	¢n	\$276	en en	\$321 #
15	14							\$0												
16											\$0	\$0				\$0				
17 2.701 -4.000 3M \$403 \$403 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0											\$0	\$0				\$0				
18												\$0			\$0	\$0				
19 6.60 - 9.200 TM \$570 \$566 \$0 \$0 \$0 \$350 \$572 \$1.022 \$522 \$0 \$522 \$0 \$0 \$0 \$4.102 \$4.102 \$4.102 \$4.202 \$0 9.201 - 14.500 \$1.011 \$301 \$886 \$1.813 \$82.413 \$83.956 \$0 \$295.645 \$359.601 \$5.976 \$1.676 \$7.652 \$2.833 \$2.833 \$0 \$2.833 \$7.652 \$2.833 \$2.213 \$1.400 \$1.0						\$0					\$0	\$770			\$0	\$0				
20 9.201 - 14.500 11M \$931 \$886 \$1.813 \$82.433 \$83.966 \$0 \$295.645 \$359.601 \$5.976 \$1.676 \$7.652 \$2.833 \$2.833 \$0 \$2.833 \$7.652 \$367.253 \$1 14.51 - 21.400 11M \$974 \$936 \$3.744 \$39.94 \$43.78 \$6.581 \$188.988 \$218.748 \$13.994 \$90 \$13.394 \$988 \$888 \$0 \$988 \$18.39 \$21.41 \$4.900 11M \$974 \$974 \$974 \$974 \$974 \$974 \$974 \$974			7M			\$0					\$1.022				\$0					
21 14,501 - 21,400 16M \$974 \$936 \$3784 \$39,394 \$43,178 \$56,581 \$188,988 \$218,748 \$13,394 \$988 \$988 \$988 \$0 \$988 \$13,394 \$222,141 \$22 21,41 - 24,000 11M+P \$10,67 \$1,019 \$0 \$4,315 \$4,315 \$1,966 \$13,851 \$20,131 \$3,912 \$0 \$3,312 \$0 \$0 \$0,519,20 \$1,920	20 9	201 - 14 500	11M			\$1.813					\$359,601		\$1.676		\$2,833	\$2 833				
22 2 1,401 - 24,000 11M-HP \$1,067 \$1,019 \$0 \$4,315 \$1,966 \$13,851 \$20,131 \$3,912 \$0 \$3,012 \$1,920 \$5,833 \$25,564 \$4,910 \$1,920 \$	21 14.	501 - 21.400	16M	\$974			\$39,394		\$6.581		\$218,748	\$13,394		\$13,394	\$988	\$988			\$13.394	
23 24,001 -46,000 16M-HP \$993 \$971 \$0 \$0 \$0 \$0 \$3,051 \$00,969 \$64,020 \$63,375 \$3,577 \$9,951 \$3,022 \$17,88 \$4,811 \$11,740 \$75,579 \$4 46,001 -79,000 23M-HP \$14,981 \$1477 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	22 21.	401 - 24,000 1	1M-HP	\$1.067											\$0			\$1,920		
25 79.001 - 377.001 Turbine \$2.578 \$2.551 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	23 24,	001 - 46,000 16	6M-HP			\$0							\$3,577		\$3,022	\$3,022				
26 377.001 - 600,000 Turbine \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	24 46,	001 - 79,000 2	3M-HP	\$1,496	\$1,470	\$0	\$0	\$0	\$919	\$15,887	\$16,806	\$4,113	\$2,692	\$6,806	\$4,550	\$4,550	\$8,077	\$12,628	\$14,883	\$31,689 #
2e 377,001 - 600,000 Turbine \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25 79,0	01 - 377,000 T	Turbine	\$2,578	\$2,551	\$0	\$0	\$0	\$0	\$6,084	\$6,084	\$4,726	\$4,640	\$9,366	\$0	\$0	\$0	\$0	\$9,366	\$15,450 #
28	26 377,0	01 - 600,000 T	Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 #
29 Total \$200,811,444 \$18,717 \$8,934,483 \$209,764,644 \$44,901 \$12,585 \$57,486 \$37,520 \$37,520 \$16,613 \$54,133 \$74,099 \$209,838,743 # 30 Forecast Customers \$874,067 28 30,937 905,032 44 9 53 72 18 90 - 143 905,175 # 31	27 600,001	1 - 4,250,000 T	Turbine																	#
30 Forecast Customers 874,067 28 30,937 905,032 44 9 53 72 18 90 - 143 905,175 # 905,1	28	> 4,250,000 T	Furbine																	#
31 #													\$12,585					\$54,133		
31 # 9 Austrana SDM Cet	30 Forecast	t Customers						874,067	28	30,937	905,032	44	9	53	72	18	90	-	143	905,175 #
	31 32 Average	SRM Cost						\$230	\$677	\$289	\$232	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 #

Notes:

1. Row (29) = Total of NCO Annualized SRM New Hookup & Replacement Investment x Number of MSA's per Customer Segment.

2. Row (32) = Row (29) + Row (30).

Data Sources: tabs: MSA Cost, MSA Fcst, MSA NCOp1, MSA NCOp2

SDG&E Customer Costs Testimony Tables

ethod Customer Cost
ethod Customer Cost
24 \$/customer)
\$146 \$275
\$1,203 \$2,370 \$906

TABLE 7 REAL ECONOMIC CARRYING CHARGE FACTORS									
Cost Type	RECC %								
Meters and Regulators	8.02%								
Meter/Regulator Installation Service Line Pipe	8.36% 7.37%								
Weighted-Average Distribution Materials and Supplies	7.37% 13.12%								

сизтомы	TABLE 3 CUSTOMER-RELATED LONG RUN MARGINAL COSTS (2024 \$/customer)											
Expense-Related O&M												
Annualized												
Customer Class Capital Cost Direct M&S A&G General Plant S												
Residential	\$146	\$43	\$0	\$12	\$11	\$213						
Core Commercial/Industrial	\$275	\$127	\$1	\$36	\$32	\$471						
Natural Gas Vehicle	\$1,203	\$254	\$3	\$71	\$63	\$1,594						
Noncore Commercial/Industrial	\$2,370	\$748	\$8	\$209	\$187	\$3,522						
Small Electric Generation \$906 \$412 \$4 \$115 \$103												
Large Electric Generation	\$2,353	\$1,369	\$15	\$382	\$342	\$4,461						

SDG&E Customer Costs Testimony Tables

TABLE 2											
CUSTOMER-RELATED DIRECT MARGINAL O&M EXPENSES											
(2024 \$)											
FERC FERC											
	870-894	901-910	Customers	Direct O&M							
Customer Class	\$000	\$000	per Class	\$/Customer							
Residential	\$36,615	\$888	864,505	\$43							
Core Commercial/Industrial	\$3,314	\$28	26,214	\$127							
Natural Gas Vehicle	\$11	\$0.0	45	\$254							
Noncore Commercial/Industrial	\$36	\$8	58	\$748							
Small Electric Generation	\$21	\$9	71	\$412							
Large Electric Generation	\$13	\$1	10	\$1,369							

TABLE 4											
DISTRIBUTION-RELATED DIRECT MARGINAL O&M EXPENSES											
(2024 \$)											
FERC FERC											
	870-894	901-910	Peak-day	Direct O&M							
Distribution Function	\$000	\$000	Load (mcfd)	\$/mcfd							
Medium-Pressure	\$19,636	\$0	440,066	\$44.62							
High-Pressure	\$1,234	\$0	462,002	\$2.67							

TABLE 10 M&S LOADING FACTORS (2024 \$)										
Customer Class	Allocated M&S	Customers per Class	M&S Loader \$/Customer							
Residential Core Commercial/Industrial Natural Gas Vehicle Noncore Commercial/Industrial Small Electric Generation Large Electric Generation	\$408,463 \$36,396 \$125 \$473 \$319 \$149	864,505 26,214 45 58 71 10	\$0.47 \$1.39 \$2.77 \$8.15 \$4.49 \$14.91							
Distribution Function Medium-Pressure High-Pressure	Allocated M&S \$644,432 \$166,452	Peak-day Load (mcfd) 440,066 462,002	M&S Loader \$/mcfd \$1.46 \$0.36							

San Diego Gas and Electric Company WEIGHTED AVERAGE DEPRECIATED RATE BASE

Gas Service Lines, Regulators, and Meters (SRM) (Thousands of Dollars) As of December 31, 2021

Line No.	Account Description		G-380.00		G-381.00		G-380.01		G-382.00		G-382.01		Total
	Fixed Capital												
1	Plant In Service	\$	462,163		89,308		95,554		89,460		25,983		762,467
2	Total Fixed Capital	\$	462,163	\$	89,308	\$	95,554	\$	89,460	\$	25,983	\$	762,467
•	Working Capital	•		•		•		•		•		•	
	Fuel in Storage	\$	0.750	\$		\$	-	\$	-	\$	-	\$	2 200
4	Materials & Supplies		2,750		305		331		-		-		3,386
5 6	Working Cash Total Working Capital	\$	2,750	\$	305	\$	331	\$		\$	<u>-</u>	\$	3,386
О	Total Working Capital	Ф	2,750	Ф	305	Ф	331	Ф	-	Ф	-	Ф	3,300
	Other Deductions							_					
7	Customer Advances For Construction	\$	(627)			\$	-	\$		\$		\$	(627)
8	Total Other	\$	(627)	\$	-	\$		\$	-	\$	-	\$	(627)
9	Deductions For Reserves Accumulated Depreciation Reserve	\$	(307,354)	\$	(31,615)	\$	(49,506)	\$	(30,051)	\$	(18,576)	\$	(437,101)
10	Accumulated Amortization Reserve				-		-		-		-		_
11	Accumulated Deferred Taxes (Used 2020 as proxy for 2021)		(26,824)		(5,978)		(5,959)		(5,752)		(1,771)		(46,284)
12	Total Deductions For Reserves	\$	(334,178)	\$	(37,593)	\$	(55,465)	\$	(35,803)	\$	(20,346)	\$	(483,384)
13	Weighted Average Depreciated Rate Base	\$	130,108	\$	52,020	\$	40,420	\$	53,657	\$	5,637	\$	281,842
	ARM1 Factor = Rate Base Value/Rental Capital Rate Base Value Rental		281,842 2,405,991										
	%		11.7%										
	ARM2 Factor Rental less depreciation Rental		1,328,959 1,766,060										

REPORT 3

DETERMINATION OF WEIGHTED ADDITIONS

MATERIALS AND SUPPLIES

December 31, 2021

	G-380.00	G-381.00	G-381.01	G-382.00	G-382.01	TOTAL
	C	D	F	F	F	G
December 2020	2,444,132	305,333	330,934	-	-	3,080,399
January 2021	2,400,815	305,333	330,934	-	-	3,037,082
February 2021	2,606,193	305,333	330,934	-	-	3,242,460
March 2021	2,600,175	305,333	330,934	-	-	3,236,442
April 2021	2,664,466	305,333	330,934	-	-	3,300,733
May 2021	2,705,426	305,333	330,934	-	-	3,341,693
June 2021	2,771,443	305,333	330,934	-	-	3,407,710
July 2021	2,742,363	305,333	330,934	-	-	3,378,630
August 2021	2,748,671	305,333	330,934	-	-	3,384,938
September 2021	2,830,509	305,333	330,934	-	-	3,466,776
October 2021	2,935,520	305,333	330,934	-	-	3,571,787
November 2021	2,877,919	305,333	330,934	-	-	3,514,186
December 2021	3,789,546	305,333	330,934	-	-	4,425,813
Total	36,117,177	3,969,325	4,302,146	-	-	44,388,648
Less 1/2 First & Last Month	3,116,839	305,333	330,934	-	-	3,753,106
Total 12 Mos Wtd Average	33,000,338	3,663,992	3,971,212	-	-	40,635,542
Monthly Weighted Average	2,750,028	305,333	330,934	-	-	3,386,295

Summary of Book Depreciation Expense - SRM

	G-380.00	G-381.00	G-381.01	G-382.00	G-382.01	Total
Jan-21	708,507	166,648	527,488	276,986	144,041	1,823,670
Feb-21	715,146	166,329	531,280	276,586	144,107	1,833,448
Mar-21	728,192	166,563	538,497	276,352	144,190	1,853,794
Apr-21	742,033	167,619	544,148	277,853	144,288	1,875,942
May-21	756,479	168,512	548,604	279,493	144,381	1,897,469
Jun-21	769,965	169,472	551,580	284,271	144,518	1,919,806
Jul-21	781,739	169,814	552,691	289,400	144,665	1,938,310
Aug-21	796,704	169,977	553,135	296,881	144,776	1,961,474
Sep-21	811,082	170,336	553,797	307,958	144,947	1,988,120
Oct-21	818,839	170,605	555,458	314,857	145,116	2,004,875
Nov-21	837,625	170,629	557,492	318,177	145,230	2,029,154
Dec-21	868,623	170,778	559,958	324,505	145,377	2,069,241
Total	9,334,935	2,027,282	6,574,129	3,523,320	1,735,635	23,195,301