### SDG&E 2024 TCAP

# Section 1 Customer Costs Model for LRMC Studies

Workpapers to the Prepared Written Testimony of Marjorie Schmidt - Pines

Errata - September 8, 2023

## 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	\$269.58	\$1,677.74	\$583.69	\$254.83	\$3,267.40	\$1,634.41	\$3,922.78	\$1,957.36	\$2,446.98	\$279.65
Customer Costs NCO Method	\$99.84	\$484.43	\$226.08	\$79.11	\$1,098.32	\$684.66	\$1,611.62	\$773.94	\$893.05	\$99.67
Customer Costs NCO RCA	\$296.68	\$1,104.05	\$483.57	\$277.77	\$1,030.99	\$647.19	\$1,569.56	\$761.06	\$863.97	\$70.59
Customer Costs 50/50 NCO/RECC	\$283.13	\$1,390.89	\$533.63	\$266.30	\$2,149.20	\$1,140.80	\$2,746.17	\$1,359.21	\$1,655.47	\$175.12

### 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	\$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

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	
Annualized SRM Cost \$/customer/yr 2024\$s	\$202.44	\$202.41	\$202.35	\$202.44	\$202.44	\$1,249.81	\$398.30	\$208.84
O&M \$/customer/yr								
FERC 870 - 894: Distribution O&M (M\$)	\$33,728	\$825	\$23	\$46	\$34,621	\$12	\$2,942	\$24,165
FERC 901 - 910: Customer O&M (M\$)	\$819	\$16	\$0	\$0	\$836	\$0	\$26	\$862
Total Cust-Rel O&M (M\$)	\$34,547	\$841	\$23	\$46	\$35,457	\$12	\$2,969	\$25,027
2021 Number of Customers	847,801	16,309	219	176	864,505	45	26,214	890,764
Cust-Rel O&M per Customer (2021\$'s)	\$41	\$52	\$105	\$260	\$41	\$261	\$113	\$28
escalator 2021's to 2024\$'s	1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
O&M \$/customer/yr 2020\$s	\$43.32	\$54.81	\$111.79	\$276.84	\$43.60	\$277.92	\$120.40	\$29.87
O&M Loaders:								
Materials & Supplies Loader:								
allocator = total Customer Related O&M as % of total	89.7%	2.2%	0.1%	0.1%	92.1%	0.0%	7.7%	65.0%
Allocated Materials & Supplies Loader (\$'s) \$419,449	\$376,267	\$9,157	\$251	\$499	\$386,174	\$128	\$32,334	\$272,581
2021 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	\$1.15	\$2.84	\$0.45	\$2.85	\$1.23	\$0.31
escalator 2021\$'s to 2024\$'s	1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
M&S Loader \$/customer/yr 2024\$s	\$0.47	\$0.60	\$1.22	\$3.02	\$0.47	\$3.03	\$1.31	\$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 2024\$'s	\$12.10	\$15.31	\$31.23	\$77.34	\$12.18	\$77.65	\$33.64	\$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 2024\$'s	\$10.81	\$13.67	\$27.89	\$69.06	\$10.88	\$69.33	\$30.04	\$7.45
TOTAL O&M LOADERS \$/customer/yr	\$23.38	\$29.58	\$60.34	\$149.42	\$23.53	\$150.01	\$64.98	\$16.12
LRMC Rental Customer Cost \$/customer/year	\$269.15	\$286.79	\$374.47	\$628.70	\$269.58	\$1,677.74	\$583.69	\$254.83
					\$22.47			
NCO Method: LRMC Rental Customer Cost \$/customer/year					\$269.58	\$1,677.74	\$583.69	\$254.83
less annualized SRM rental					(\$202.44)	(\$1,249.81)	(\$398.30)	(\$208.84)
plus annualized SRM NCO					\$32.70	\$56.50	\$40.69	\$33.12
NCO Customer Cost \$/customer/year					\$99.84	\$484.43	\$226.08	\$79.11
•					\$8.32			
NCO with Recplacement Cost Adder Method:					¢260 E9	¢1 677 74	¢502.60	\$254.83
					\$269.58	\$1,677.74	\$583.69	
LRMC Rental Customer Cost \$/customer/year								
LRMC Rental Customer Cost \$/customer/year less annualized SRM rental					(\$202.44)	(\$1,249.81) \$676.12	(\$398.30)	(\$208.84)
LRMC Rental Customer Cost \$/customer/year					\$229.54 \$296.68	\$676.12 \$1,104.05	\$298.30) \$298.19 <b>\$483.57</b>	\$231.78 \$277.77

GTNC MPD	HPD	Total	EG < 3 MM	> 3 MM	Total	Total Noncore	System Total
J	K	L	M	N	O	P	Q
\$2,098.99	\$3,693.07	\$2,236.41	\$987.22	\$2,353.22	\$1,196.30	\$1,583.01	\$209.07
\$25 \$5	\$5 \$2	\$29 \$7	\$20 \$8	\$8 \$1	\$28 \$9	\$57 \$16	\$37,633 \$878
\$31 48	\$6 10	\$37 58	\$28 71	\$10 10	\$38 81	\$73 139	\$38,512 890,903
\$639 1.063	\$631 1.063	\$630 1.063	\$395 1.063	\$959 1.063	\$465 1.063	\$528 1.063	\$43 1.063
\$679.01	\$671.36	\$669.59	\$420.32	\$1,019.36	\$494.28	\$561.11	\$45.96
0.1% \$334 48	0.0% \$69 10	0.1% \$398 58	0.1% \$306 71	0.0% \$104 10	0.1% \$410 81	0.2% \$799 139	100.0% \$273,380 890,903
\$6.96 1.063	\$6.88 1.063	\$6.86 1.063	\$4.31 1.063	\$10.44 1.063	\$5.06 1.063	\$5.75 1.063	\$0.31 1.063
\$7.40	\$7.31	\$7.29	\$4.58	\$11.10	\$5.38	\$6.11	\$0.33
27.94%	27.94%	27.94%	27.94%	27.94%	27.94%	27.94%	27.94%
\$189.71	\$187.57	\$187.07	\$117.43	\$284.80	\$138.10	\$156.77	\$12.84
24.95%	24.95%	24.95%	24.95%	24.95%	24.95%	24.95%	24.95%
\$169.39 <b>\$366.49</b>	\$167.48 <b>\$362.36</b>	\$167.04 <b>\$361.41</b>	\$104.85 <b>\$226.87</b>	\$254.29 <b>\$550.19</b>	\$123.30 <b>\$266.78</b>	\$139.98 <b>\$302.86</b>	\$11.46 <b>\$24.63</b>
φ300.43	φ302.30	φ301.41	φ220.01	φ330.19	\$200.70	\$302.00	φ <u>2</u> 4.03
\$3,144.49	\$4,726.80	\$3,267.40	\$1,634.41	\$3,922.78	\$1,957.36	\$2,446.98	\$279.65
\$3,144.49 (\$2,098.99) \$67.53	\$4,726.80 (\$3,693.07) \$65.18	\$3,267.40 (\$2,236.41) \$67.33	\$1,634.41 (\$987.22) \$37.48	\$3,922.78 (\$2,353.22) \$42.07	\$1,957.36 (\$1,196.30) \$12.88	\$2,446.98 (\$1,583.01) \$29.08	\$279.65 (\$209.07) \$29.08
\$1,113.03	\$1,098.90	\$1,098.32	\$684.66	\$1,611.62	\$773.94	\$893.05	\$99.67
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\$3,144.49	\$4,726.80	\$3,267.40	\$1,634.41	\$3,922.78	\$1,957.36	\$2,446.98	\$279.65
(\$2,098.99) \$0.00	(\$3,693.07) \$0.00	(\$2,236.41) \$0.00	(\$987.22) \$0.00	(\$2,353.22) \$0.00	(\$1,196.30) \$0.00	(\$1,583.01) \$0.00	(\$209.07) \$0.00
\$1,045.50	\$1,033.73	\$1,030.99	\$647.19	\$1,569.56	\$761.06	\$863.97	\$70.59

### 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
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	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	C	D	E	F	G	H	(2 11 )	J	
	Cfh		(Dollars)	(Percent)	(Dollars)		(Dollars)	(Percent)	(Dollars)	(Dollars)	
1	Medium Pressure										1
2	0-275	250	\$281	8.12%	\$23	Poly-1"	\$3,357	7.37%	\$247	\$270	2
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	3,001 - 7,000	7101	ψ3,037	0.1170	ψ4.00	1 01y-2	Ψ1,039	7.5770	Ψ320	ψοτο	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	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 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		<u> </u>	C	D	E	F	G	H	I	.l	K	I	N	0	_
	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	19
20	6,601 - 9,200	7M	0	0	0	0	-	1	1	2	1 1	-	1	- 0	4	4	5	/	20
21	9,201 - 14,500	11M	2	27	8	31	68	- 44	269	337	1 45	2	9	3	-	3	12	349	21
22 23	14,501 - 21,400 21,401 - 24,000	16M 11M-HP	4	24	3	13	44	11	147 11	202 18	15	-	15	1	- ,	1	16	218	22 23
	24,001 - 24,000	16M-HP	0	3	1	0	4	3		57	4 7	- ,	11	-	1	1	15	23 72	
24 25	46.001 - 46,000 46.001 - 79.000	23M-HP	0	0	0	0	-	5	52	10	/ /	4	11	3	1	4	11	72	24 25
26	79.001 - 377.000	8" Turbine	0	0	0	0	-	'	9	10	) 3	2	3	3	3	0	'	21	26
27	377,001 - 600,000	Turbine	0	0	0	0	-	-	2	2		2	4	_	-	-	4	0	27
28	600,001 - 4,250,000	Turbine	0	0	0	0	-	-	-	-	_	-	-	_	-	-	-	_	28
29	> 4.250,000	Turbine	0	0	0	0	-	-	-	-	_	-	-	-	-	-	-	-	28
30	× 4,250,000	ruibilie	U	U	U	U	-						-	_		-	-		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	

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

## DEMAND DETERMINANT SUMMARY 2024 TCAP

	İ		Res			l				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	E	F	G	Н	I	J	K	L	M	N	0	P	Q	R
CAP Customers	891,788	17,155	5 230	185	909,359	36	30,488	939,883	53	5	58	83	15	98	-	156	940,039
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 2024 CAP 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	13,965	0	225,945	225,945	239,910	239,910
4	Cold Year Throughput (1-in-35) (MTh)	0	0	0	0	13,965	0	225,945	225,945	239,910	239,910
5	Cold Year Peak Month (December) (MTh)	0	0	0	0	1,167	0	19,867	19,867	21,035	21,035
6	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	0	0	0	0	38	0	828	828	866	866
/	Number of Customers	0	0	0	0	5	3	10	13	18	18
8	High Pressure	40	40.075	0.000		0 747	0.005	05.005	44.070		
9	Average Year Throughput (MTh)	18	10,075	3,333	13,426	2,747	9,085	35,885	44,970	47,717	61,142
10	Cold Year Throughput (1-in-35) (MTh)	19	10,075	3,442	13,536	2,747	9,085	35,885	44,970	47,717	61,253
11	Cold Year Peak Month (December) (MTh) Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	3	865	391 19	1,259 47	230 7	755 24	2,981	3,736 121	3,965 128	5,224 175
12		2	28 5	19 5		, 5	24 7	96 4			
13	Number of Customers	2	Э	5	12	Э	1	4	11	16	28
14	Medium Pressure Average Year Throughput (MTh)	270,586	13.104	175,580	459,270	32,591	22,343	4,342	26,685	59,276	518.546
15 16	Cold Year Throughput (MTh) Cold Year Throughput (1-in-35) (MTh)	270,566	13,104	181,329	459,270	32,591	22,343	4,342	26,685	59,276 59,276	516,546 552.407
17	Cold Year Throughput (1-in-35) (MTh) Cold Year Peak Month (December) (MTh)	43,868	1,125	20,592	65,584	2,724	1.856	4,342 361	2,217	4,941	70,525
18	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	3.040	36	996	4.072	88	60	12	72	159	4,232
19	Number of Customers	909,357	31	30,483	939,871	48	73	12	74	122	939,993
19	Number of Customers	909,337	31	30,403	333,071	40	13		74	122	939,993
20	CUMULATIVE Demand										
21	Transmission										
22	Average Year Throughput (MTh)	270,604	23,179	178,913	472,696	49,302	31,429	266,171	297,600	346.902	819.598
23	Cold Year Throughput (1-in-35) (MTh)	298,718	23,179	184,771	506,668	49,302	31,429	266,171	297,600	346,902	853,570
24	Cold Year Peak Month (December) (MTh)	43,870	1,990	20,983	66,843	4,120	2,611	23,209	25,820	29,941	96,784
25	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	3,040	64	1,015	4,119	133	84	936	1,020	1,153	5,272
26	Number of Customers	909,359	36	30,488	939,883	58	83	15	98	156	940,039
27	High Pressure										
28	Average Year Throughput (MTh)	270,604	23,179	178,913	472,696	35,337	31,429	40,227	71,656	106,993	579,689
29	Cold Year Throughput (1-in-35) (MTh)	298,718	23,179	184,771	506,668	35,337	31,429	40,227	71,656	106,993	613,661
30	Cold Year Peak Month (December) (MTh)	43,870	1,990	20,983	66,843	2,953	2,611	3,342	5,953	8,906	75,749
31	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	3,040	64	1,015	4,119	95	84	108	192	287	4,407
32	Number of Customers	909,359	36	30,488	939,883	53	80	5	85	138	940,021
33	Medium Pressure										
34	Average Year Throughput (MTh)	270,586	13,104	175,580	459,270	32,591	22,343	4,342	26,685	59,276	518,546
35	Cold Year Throughput (1-in-35) (MTh)	298,699	13,104	181,329	493,131	32,591	22,343	4,342	26,685	59,276	552,407
36	Cold Year Peak Month (December) (MTh)	43,868	1,125	20,592	65,584	2,724	1,856	361	2,217	4,941	70,525
37	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	3,040	36	996	4,072	88	60	12	72	159	4,232
38	Number of Customers	909,357	31	30,483	939,871	48	73	1	74	122	939,993

### 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																		l
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 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	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%	30 31
31	rotal Gustomers		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:

<sup>1.</sup> 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																			i
4	Medium Pressure																			1
2	0-275	250	845,479	13,603	89	5	859,177	9	14,294	873,479				1		1		1	873,480	,
3	276 - 425	425	21,749	1,101	31	2	22,883	-	2,409	25,291		-	-	_ '	-	_ '	-	'	25,291	3
4	426-630	630	11,678	640	6	7	12,331	_	2,441	14,772	_	_			_			[	14,772	4
5	631 - 800	8C	8,106	573	19	4	8,702	1	2,485	11,188	_	_	_	_	_	_	_	_	11,188	5
6	801 - 1.100	11C	3,289	491	31	4	3,815	2	2,195	6,011	-	_	-	_	_	-	-		6,011	6
7	1,101 - 1,500	15C	1,041	217	5	4	1,268		1,457	2,725	-	_	-	_	_	-	-		2,725	7
8	1,501 - 2,000	2M	313	93	6	2	414	-	1,460	1,874	-	-	-	40	-	40	-	40	1,914	8
9	2,001 - 3,000	3M	100	265	18	32	414	2	1,919	2,335	-	-	-	9	-	9	-	9	2,344	9
10	3,001 - 5,000	5M	18	87	7	55	167	2	879	1,049	1	-	1	12	-	12	-	13	1,062	10
11	5,001 - 7,000	7M	8	28	5	23	65	4	377	446	8	-	8	8	-	8	-	16	462	11
12																				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		6	6	-	7	9	20
21	9,201 - 14,500	11M	2	28	8	33	72		313	384	8	1	9	4	-	4	-	12	397	21
22	14,501 - 21,400	16M	4	25	3	14	46	9	171	226	1/	-	17	1	-	1	-	18	244	22
23	21,401 - 24,000	11M-HP	-	3	1	-	4	2	13	19	4	-	4	- ,	2	2	-	6	25	23
24	24,001 - 46,000	16M-HP 23M-HP	-	-	-	-	-	4	60	65	8	2	10	4	2	5	-	15	79	24
25 26	46,001 - 79,000 79,001 - 377,000	8" Turbine	-	-	-	-	-	1	10	11 2	3	1	4	4	э	8	-	12	24	25 26
	377,001 - 600,000	Turbine	-	-	-	-	-	-	2	2	2	'	3	-	-	-	-	3	6	27
27 28	600,001 - 4,250,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	28
29	> 4.250,000	Turbine	-		-	-			-		-			]				[		29
30	- 4,200,000	raibille	-	-	-		-	-	<del>-</del>				-		-	-		<u> </u>		30
	Total Customers		891,788	17,155	230	185	909,359	36	30,488	939,883	53	5	58	83	15	98	-	156	940,039	

### 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 891,788 17,155 230 185 909,359 36 30,488 939,883 53 5 58 83 15 98 - 156 940,039 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	l	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	
	Α	В	С	D	E	F	G	Н	1	J	K	L	М	N	0	Р	Q	R	S	
	Cfh											(Doll	ars)							
																				l
1	Medium Pressure																			1
2	0-275	250	\$171,180,221	\$2,754,129	\$18,102	\$1,065	\$173,953,517	\$2,394	\$3,861,678	\$177,817,589	\$0	\$0	\$0	\$316	\$0	\$316	\$0	\$316	\$177,817,905	2
3	276 - 425	425	\$4,396,608	\$222,637	\$6,167	\$425	\$4,625,837	\$0	\$732,383	\$5,358,220	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,358,220	3
4	426-630	630	\$2,356,860	\$129,073	\$1,274	\$1,486	\$2,488,693	\$0	\$818,622	\$3,307,315	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,307,315	4
5	631 - 800	8C	\$1,638,222	\$115,862	\$3,827	\$850	\$1,758,761	\$296	\$912,441	\$2,671,497	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,671,497	5
6	801 - 1,100	11C	\$664,608	\$99,256	\$6,164	\$850	\$770,878	\$603	\$821,054	\$1,592,535	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,592,535	6
7	1,101 - 1,500	15C	\$211,065	\$43,919	\$1,066	\$853	\$256,902	\$0	\$707,087	\$963,989	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$963,989	7
8	1,501 - 2,000	2M	\$63,541	\$18,764	\$1,279	\$426	\$84,011	\$0	\$898,399	\$982,410	\$0	\$0	\$0	\$24,464	\$0	\$24,464	\$0	\$24,464	\$1,006,875	8
9	2,001 - 3,000	3M	\$20,261	\$53,744	\$3,626	\$6,398	\$84,029	\$975	\$1,161,495	\$1,246,498	\$0	\$0	\$0	\$5,660	\$0	\$5,660	\$0	\$5,660	\$1,252,159	9
10	3,001 - 5,000	5M	\$3,621	\$17,678	\$1,491	\$11,075	\$33,865	\$2,305	\$838,523	\$874,692	\$1,053	\$0	\$1,053	\$11,149	\$0	\$11,149	\$0	\$12,202	\$886,894	10
11	5,001 - 7,000	7M	\$1,703	\$5,749	\$1,065	\$4,684	\$13,201	\$3,943	\$368,935	\$386,079	\$7,567	\$0	\$7,567	\$8,012	\$0	\$8,012	\$0	\$15,579	\$401,658	11
12	I II ale Dana a suma																			12
13	High Pressure	400	#0	<b>*</b>			***		0507	8507	60			<b>#</b> 500		<b>#</b> 500		8500	64.057	13
14	0 - 940 941 - 1.050	400 8C	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$527 \$0	\$527	\$0	\$0 \$0	\$0 \$0	\$530	\$0 \$0	\$530	\$0	\$530 \$0	\$1,057	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	\$0 \$0	\$1,377	\$1,377	\$0 \$0	\$0 \$1.377	\$0 \$1.377	18
19	4,001 - 6,600	5M	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1,162	\$0 \$0	\$1,162	\$0 \$0	\$1,377 \$0	\$1,377	\$0 \$0	\$1,377	\$1,377 \$1,162	19
20	6.601 - 9.200	7M	\$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$887	\$1,280	\$2,167	\$1,102	\$0 \$0	\$1,102	\$0 \$0	\$6,604	\$6,604	\$0	\$7,102	\$9.986	20
21	9,201 - 14,500	11M	\$426	\$5,747	\$1,703	\$6,598	\$14,474	\$0	\$498,647	\$513,120	\$12,319	\$1,594	\$13,913	\$5,590	\$0,004	\$5,590	\$0	\$19,503	\$532,623	21
22	14,501 - 21,400	16M	\$851	\$5,108	\$638	\$2,767	\$9,364	\$14,215	\$274,268	\$297,847	\$26,570	\$1,554	\$26,570	\$1,875	\$0	\$1,875	\$0	\$28,446	\$326,293	22
23	21.401 - 24.000	11M-HP	\$0	\$639	\$213	\$2,767	\$852	\$5,933	\$31,407	\$38,192	\$10,843	\$0	\$10,843	\$1,073	\$3,682	\$3,682	\$0	\$14.525	\$52,717	23
24	24,001 - 46,000	16M-HP	\$0	\$0	\$0	\$0	\$032	\$10,204	\$153,215	\$163,420	\$19,581	\$5,067	\$24,648	\$8,885	\$3,800	\$12,685	\$0	\$37,333	\$200,753	24
25	46.001 - 79.000	23M-HP	\$0	\$0	\$0	\$0	\$0	\$3,551	\$46,137	\$49,687	\$14,601	\$4,408	\$19,008	\$15,458	\$19,835	\$35,293	\$0	\$54,301	\$103,988	25
26	.,	8" Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$17,205	\$17,205	\$16,335	\$7,397	\$23,732	\$0	\$0	\$0	\$0	\$23,732	\$40,937	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	Ų.	Ψ0	Ψ0	Ų.	Ų.	Ų.	Ų.	Ψ		Ų.	Ψ.		ΨŪ	Ų.	👯	Ψ.	Ų.	28
29	> 4,250,000	Turbine																		29
30	Total		\$180,537,987	\$3,472,303	\$46,614	\$37,478	\$184,094,383	\$45,306	\$12,143,302	\$196,282,990	\$111,247	\$18,465	\$129,712	\$81,939	\$35,298	\$117,238	\$0	\$246,950	\$196,529,940	30
31	Forecast Customers		891,788	17,155	230	185	909,359	36	30,488	939,883	53	5	58	83	15	98	-	156	940,039	31
32																				32
33	Average SRM Cost		\$202	\$202	\$202	\$202	\$202	\$1,250	\$398	\$209	\$2,099	\$3,693	\$2,236	\$987	\$2,353	\$1,196	\$0	\$1,583	\$209	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	
																			$\Box$
1																			1
2	Allocator - Total of other Distribution O&M Operating	56%	87%	2%	0%	0%	90%	0%	8%	55%	0%	0%	0%	0%	0%	0%	0%	98%	2
3	Allocation (M\$)	\$3,782	\$3,305	\$81	\$2	\$4	\$3,393	\$1	\$295	\$2,098	\$2	\$0	\$3	\$2	\$1	\$3	\$5	\$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	\$5,120	\$100	\$2	\$2	\$5,224	\$1	\$193	\$5,418	\$1	\$0	\$1	\$1	\$0	\$1	\$3	\$5,421	7
8	875 - Meas & Reg Station Exp = 100% Demand-Related																		8
9																			9
10	Allocator - Customers Wtd by Meters & Regs costs	100%	83%	3%	0%	0%	86%	0%	14%	100%	0%	0%	0%	0%	0%	0%	0%	100%	10
11	Allocation (M\$)	\$5,510	\$4,550	\$162	\$7	\$15	\$4,734	\$4	\$746	\$5,485	\$11	\$2	\$13	\$8	\$4	\$12	\$25	\$5,510	11
12																			12
13	Allocator - Customer Service Expense	0%	86%	2%	0%	0%	88%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	95%	13
14	Allocation (M\$)	\$8,727	\$7,507	\$157	\$3	\$5	\$7,673	\$1	\$593	\$0	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$8,268	14
15																			15
16	Allocator - Total of other Distribution O&M Operating	56%	87%	2%	0%	0%	90%	0%	8%	55%	0%	0%	0%	0%	0%	0%	0%	98%	16
17	Allocation (M\$)	\$8,447	\$7,381	\$180	\$5	\$10	\$7,576	\$3	\$658	\$4,685	\$5	\$1	\$6	\$4	\$2	\$6	\$12	\$8,249	17
18	881 - Rents = Non-Marginal Designation																		18
19																			19
20	Allocator - Total Other Distribution O&M Maintenance	100%	90%	2%	0%	0%	93%	0%	7%	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																			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	\$1,168	\$23	\$0	\$1	\$1,192	\$0	\$44	\$1,236	\$0	\$0	\$0	\$0	\$0	\$0	\$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	\$2,832	\$55	\$1	\$1	\$2,889	\$0	\$107	\$2,996	\$1	\$0	\$1	\$0	\$0	\$1	\$2	\$2,998	29
30		1																	30
31	Allocator - Customers Wtd by Meters & Regs costs	100%	83%	3%	0%	0%	86%	0%	14%	100%	0%	0%	0%	0%	0%	0%	0%	100%	31
32	Allocation (M\$)	\$2,258	\$1,865	\$66	\$3	\$6	\$1,940	\$2	\$306	\$2,248	\$4	\$1	\$5	\$3	\$1	\$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	\$33,728	\$825	\$23	\$46	\$34,621	\$12	\$2,942	\$24,165	\$25	\$5	\$29	\$20	\$8	\$28	\$57	\$37,633	34
35	Allocation %	100%	88%	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	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	
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\$)	\$2,993,497 94% \$287,790	\$58,557 2% \$10,240	\$942 0% \$431	\$1,347 0% \$980	\$3,054,343 96% \$299,441	\$330 0% \$258	\$112,801 4% \$47,204	\$3,167,475 100% \$346,904	\$763 0% \$679	\$125	\$876 0% \$804	\$524 0% \$533	\$224 0% \$231	\$749 0% \$764	\$1,625 0% \$1,568	\$3,169,100 100% \$348,472	1 2 3 4 5
7 8 9	Alloc %  879 - Customer Installations (M\$)	83%	3%	0%	0%	86%	0%	14%	100%	0%	0%	0%	0%	0%	0%	0%	100%	7 8 9
10 11	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%	10 11

Data Sources: tab: M&HR Alloc

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

## 

								07110			=0					
		Total				Total		GTNC			EG			Total	System	
	O&M Operational Activity	O&M	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	
1	FIELD SERVICES Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1 1
2	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
	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	
	A	R	C	D	F	F	G	H	1	1	K	I	M	N	0	D	O.	P	S	_
-	Cfh		- U			•			<u> </u>	(Thousand	Dollars)		141	.,		•	ď	10		-
			1					ĺ		(	,			l			ĺ	ĺ		1
1 /	Medium Pressure																			1
2	0-275	250	\$3	\$2,837,900	\$45,659	\$300	\$18	\$2,883,877	\$30	\$47,977	\$2,931,884	\$0	\$0	\$0	\$4	\$0	\$4	\$4	\$2,931,888	2
3	276 - 425	425	\$3	\$73,001	\$3,697	\$102	\$7	\$76,807	\$0	\$8,085	\$84,892	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$84,892	3
4	426-630	630	\$3	\$39,198	\$2,147	\$21	\$25	\$41,391	\$0	\$8,194	\$49,585	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$49,585	4
5	631 - 800	8C	\$3	\$27,208	\$1,924	\$64	\$14	\$29,210	\$3	\$8,342	\$37,555	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$37,555	5
6	801 - 1,100	11C	\$3	\$11,041	\$1,649	\$102	\$14	\$12,806	\$5	\$7,366	\$20,178	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,178	6
7	1,101 - 1,500	15C	\$3	\$3,495	\$727	\$18	\$14	\$4,255	\$0	\$4,891	\$9,146	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,146	7
8	1,501 - 2,000	2M	\$3	\$1,052	\$311	\$21	\$7	\$1,391	\$0	\$4,899	\$6,290	\$0	\$0	\$0	\$133	\$0	\$133	\$133	\$6,424	8
9	2,001 - 3,000	3M	\$3	\$335	\$890	\$60	\$106	\$1,391	\$5	\$6,441	\$7,838	\$0	\$0	\$0	\$31	\$0	\$31	\$31	\$7,869	9
10	3,001 - 5,000	5M	\$7	\$126	\$616	\$52	\$386	\$1,181	\$17	\$6,207	\$7,405	\$8	\$0	\$8	\$83	\$0	\$83	\$90	\$7,495	10
11	5,001 - 7,000	7M	\$7	\$59	\$200	\$37	\$163	\$460	\$28	\$2,660	\$3,149	\$55	\$0	\$55	\$58	\$0	\$58	\$112	\$3,261	11
12																				12
	High Pressure	100																	***	13
14	0 - 940	400	\$3	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$4	\$4	\$0	\$0	\$0	\$4	\$0	\$4	\$4	\$8	14
15	941 - 1,050	8C	\$3	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	15
16 17	1,051 - 1,500	630	\$3	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	16 17
17	1,501 - 2,700 2,701 - 4,000	2M 3M	\$3 \$7	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0	\$0 \$11	\$0 \$11	\$0 \$11	\$0 \$11	18
18	4,001 - 6,600	5M	\$7 \$7	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$8	\$0 \$0	\$0 \$8	\$0 \$0	\$11	\$0	\$8	\$11	18
20	6.601 - 9.200	7M	\$7	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0	\$6	\$0 \$8	\$0 \$14	\$8 \$8	\$0	\$6 \$8	\$0 \$0	\$42	\$42	\$50	\$64	20
21	9.201 - 14.500	11M	\$13	\$27	\$364	\$108	\$418	\$917	\$0	\$4,009	\$4,926	\$99	\$13	\$112	\$45	\$0	\$45	\$157	\$5.083	21
22	14,501 - 21,400	16M	\$13	\$54	\$324	\$40	\$175	\$593	\$114	\$2,191	\$2,898	\$212	\$0	\$212	\$15	\$0 \$0	\$15	\$227	\$3,125	22
23	21,401 - 24,000	11M-HP	\$16	\$0	\$49	\$16	\$0	\$65	\$38	\$199	\$302	\$69	\$0	\$69	\$0	\$23	\$23	\$92	\$394	23
24	24.001 - 46.000	16M-HP	\$16	\$0	\$0	\$0	\$0	\$0	\$63	\$939	\$1,002	\$120	\$31	\$151	\$54	\$23	\$78	\$229	\$1,231	24
25	46.001 - 79.000	23M-HP	\$28	\$0	\$0	\$0	\$0	\$0	\$22	\$290	\$312	\$92	\$28	\$119	\$97	\$125	\$222	\$341	\$653	25
26	79.001 - 377.000	8" Turbine	\$42	\$0	\$0	\$0	\$0	\$0	\$0	\$98	\$98	\$93	\$42	\$135	\$0	\$0	\$0	\$135	\$233	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	1,,																			30
31	Total		N/A	\$2,993,497	\$58,557	\$942	\$1,347	\$3,054,343	\$330	\$112,801	\$3,167,475	\$763	\$114	\$876	\$524	\$224	\$749	\$1,625	\$3,169,100	31

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).

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

## 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	
$\overline{}$	A	B	C	D	F	F F	G	H	1	1	K	I	M	N	0	P	O	R	S	$\overline{}$
	Cfh					<u> </u>			<u> </u>	(Thousand	Dollars)		141	.,			ų ,	- 10		-
	<del></del>		ĺ					ĺ		(	, 			1			1	1		1
1	Medium Pressure																			1
2	0-275	250	\$0	\$237,555	\$3,822	\$25	\$1	\$241,404	\$2	\$4,016	\$245,422	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$245,422	2
3	276 - 425	425	\$1	\$15,240	\$772	\$21	\$1	\$16,035	\$0	\$1,688	\$17,722	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,722	3
4	426-630	630	\$1	\$12,737	\$698	\$7	\$8	\$13,449	\$0	\$2,662	\$16,111	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,111	4
5	631 - 800	8C	\$1	\$12,002	\$849	\$28	\$6	\$12,886	\$1	\$3,680	\$16,567	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,567	5
6	801 - 1,100	11C	\$2	\$5,157	\$770	\$48	\$7	\$5,982	\$3	\$3,441	\$9,426	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,426	6
7	1,101 - 1,500	15C	\$3	\$3,046	\$634	\$15	\$12	\$3,707	\$0	\$4,262	\$7,970	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,970	1 7
8	1,501 - 2,000	2M	\$5	\$1,419	\$419	\$29	\$10	\$1,876	\$0	\$6,606	\$8,482	\$0	\$0	\$0	\$180	\$0	\$180	\$180	\$8,662	8
9	2,001 - 3,000	3M	\$4	\$440	\$1,166	\$79	\$139	\$1,823	\$7	\$8,440	\$10,270	\$0	\$0	\$0	\$41	\$0	\$41	\$41	\$10,311	9
10	3,001 - 5,000	5M	\$5	\$95	\$466	\$39	\$292	\$893	\$13	\$4,695	\$5,601	\$6	\$0	\$6	\$62	\$0	\$62	\$68	\$5,670	10
11	5,001 - 7,000	7M	\$6	\$48	\$161	\$30	\$131	\$369	\$23	\$2,132	\$2,523	\$44	\$0	\$44	\$46	\$0	\$46	\$90	\$2,613	11
12 13	High Pressure																			12 13
14	0 - 940	400	\$3	\$0	\$0	\$0	\$0	\$0	\$0	\$3	\$3	\$0	\$0	\$0	\$3	\$0	\$3	\$3	\$6	13
15	941 - 1.050	8C	\$5 \$5	\$0	\$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	90 en	φ0 <b>¢</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	16
17	1,501 - 1,300	2M	\$5 \$5	\$0 \$0	\$0 \$0	\$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	φ0 0.2	\$0	\$0	\$0	\$0 \$0	\$0	\$7	\$7	\$7	\$7	18
19	4.001 - 6.600	5M	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7	\$0	\$7	\$0	\$0	\$0	\$7	\$7	19
20	6.601 - 9.200	7M	\$7	\$0	\$0	\$0	\$0	\$0	\$6	\$8	\$14	\$8	\$0	\$8	\$0	\$43	\$43	\$51	\$65	20
21	9.201 - 14.500	11M	\$8	\$17	\$228	\$67	\$261	\$573	\$0	\$2,507	\$3,080	\$62	\$8	\$70	\$28	\$0	\$28	\$98	\$3,178	21
22	14,501 - 21,400	16M	\$8	\$34	\$206	\$26	\$111	\$377	\$72	\$1,392	\$1,841	\$135	\$0	\$135	\$10	\$0	\$10	\$144	\$1,985	22
23	21,401 - 24,000	11M-HP	\$16	\$0	\$51	\$17	\$0	\$68	\$39	\$207	\$314	\$71	\$0	\$71	\$0	\$24	\$24	\$96	\$409	23
24	24,001 - 46,000	16M-HP	\$17	\$0	\$0	\$0	\$0	\$0	\$69	\$1,036	\$1,105	\$132	\$34	\$167	\$60	\$26	\$86	\$252	\$1,357	24
25	46,001 - 79,000	23M-HP	\$29	\$0	\$0	\$0	\$0	\$0	\$23	\$305	\$329	\$97	\$29	\$126	\$102	\$131	\$234	\$359	\$688	25
26	79,001 - 377,000	8" Turbine	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$123	\$123	\$117	\$53	\$170	\$0	\$0	\$0	\$170	\$294	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	\$287,790	\$10,240	\$431	\$980	\$299,441	\$258	\$47,204	\$346,904	\$679	\$125	\$804	\$533	\$231	\$764	\$1,568	\$348,472	30 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	Meter, Regulator, & Fitting Costs	Meter & Regulator PVRR Factor	Installation Costs	Installation Costs PVRR Factor	Weighted Average PVRR Factor	
$\overline{}$	A A	B	C	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	Type	Cost	Factor	Investment	Туре	Cost	Cost Line X	Factor	Investment	Cost Line X	Hookups
	A	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%		Poly-0.5"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	7,811
3	276 - 425	425	\$701	131.17%		Poly-0.5"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	211
4	426-630	630	\$1,091	131.81%	\$1,438		\$3,357	\$2,615	125.07%	\$4,198	\$3,271	115
5	631 - 800	8C	\$1,481	131.27%	\$1,944		\$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	82 38
7	1,101 - 1,500	15C	\$2,925	130.17%		Poly-1"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	14
8	1,501 - 2,000	2M	\$4,526	130.11%		Poly-1"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	6 6 3
9	2,001 - 3,000	3M	\$4,398	130.03%		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		\$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%			-

### 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	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	nd	2024 Hookups	Year-E 2024	nd 2025	2025 Hookups	Year-E 2025	2026	2026 _ Hookups	Year-E 2026	2027	2027 Hookups	Average Annual 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:

- 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				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														l
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	<u> </u>	-	<u> </u>	<u>-</u>	-	-	-	<u>-</u>			<u> </u>	-	29
30															30
31	Total Customers		8,246	0	43	8,289	=	-	=-	-	-	-	-	8,289	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	_				Total		GTNC			G		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	С	_	D	_	E	F	G	Н		J	K	L	M	0
	Cfh		(Dollars)													
1	Medium Pressure															
2	0-275	250	\$41	\$33	\$27,501,416	\$559,157	\$362	\$583,483	\$28,644,417	\$0	\$0	\$0	\$48	\$0	\$0	\$0
3	276 - 425	425	\$43	\$35	\$759,755	\$48,381	\$0	\$102,767	\$910,902	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	426-630	630	\$44	\$37	\$428,918	\$28,718	\$0	\$107,324	\$564,960	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	631 - 800	8C	\$45	\$38	\$311,282	\$26,978	\$36	\$112,421	\$450,718	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	801 - 1,100	11C	\$39	\$33	\$109,907	\$20,632	\$63	\$86,091	\$216,693	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	1,101 - 1,500	15C	\$40	\$35	\$36,618	\$8,994	\$0	\$57,957	\$103,569	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	1,501 - 2,000	2M	\$31	\$28	\$8,709	\$3,090	\$0	\$44,657	\$56,455	\$0	\$0	\$0	\$1,216	\$0	\$0	\$0
8	2,001 - 3,000	3M	\$27	\$25	\$2,475	\$8,595	\$44	\$52,441	\$63,555	\$0	\$0	\$0	\$256	\$0	\$0	\$0
9	3,001 - 5,000	5M	\$41	\$27	\$477	\$6,149	\$99	\$36,196	\$42,921	\$45	\$0	\$45	\$481	\$0	\$0	\$45
10	5,001 - 7,000	7M	\$40	\$26	\$223	\$2,289	\$162	\$15,184	\$17,858	\$311	\$0	\$311	\$330	\$0	\$0	\$311
11																
12	High Pressure															
13	0 - 940	400	\$5	\$5	\$0	\$0	\$0	\$6	\$6	\$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	\$0	\$0	\$0
19	6,601 - 9,200	7M	\$14	\$10	\$0	\$0	\$12	\$17	\$28	\$16	\$0	\$16	\$0	\$87	\$173	\$102
20	9,201 - 14,500	11M	\$73	\$38	\$79	\$5,045	\$0	\$22,734	\$27,858	\$562	\$73	\$634	\$255	\$0	\$0	\$634
21	14,501 - 21,400	16M	\$79	\$41	\$173	\$3,317	\$699	\$13,478	\$17,667	\$1,306	\$0	\$1,306	\$92	\$0	\$0	\$1,306
22	21,401 - 24,000	11M-HP	\$116	\$70	\$0	\$490	\$281	\$1,489	\$2,261	\$514	\$0	\$514	\$0	\$175	\$349	\$689
23	24,001 - 46,000	16M-HP	\$59	\$36	\$0	\$0	\$239	\$3,594	\$3,833	\$459	\$119	\$578	\$208	\$89	\$178	\$667
24	46,001 - 79,000	23M-HP	\$62	\$35	\$0	\$0	\$50	\$653	\$703	\$207	\$62	\$269	\$219	\$281	\$561	\$550
25	79,001 - 377,000	8" Turbine	\$72	\$43	\$0 *0	\$0 *0	\$0 *0	\$167	\$167	\$159	\$72	\$231	\$0 ©0	\$0 \$0	\$0	\$231
26 27	377,001 - 600,000 600.001 - 4.250.000	Turbine Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
27		Turbine														
28 29	> 4,250,000 Total	rurbine			\$29,160,032	\$721,833	\$2,048	\$1,240,660	\$31,124,573	\$3,579	\$326	\$3,905	\$3,111	\$631	\$1,262	\$4,536
30	Forecast Customers				891,788	17,571	\$2,046 36	30,488	939,883	\$3,579 53	φა∠6 5	\$3,905 58	\$3,111 83	φοστ 15	98	\$4,536 156
30 31	Forecast Gustoffiers				091,700	17,571	30	30,466	509,000	55	5	36	03	15	90	100
	Average SRM Cost				\$33	\$41	\$57	\$41	\$33	\$68	\$65	\$67	\$37	\$42	\$13	\$29

### 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

	Max Meter		Per Customer	Res			5	NOV	011.0	Total		GTNC	T		EG		l	Total	System
_	Flow Range	Type	SRM Invstmt Si	RM Invstmt	Res	Other Res	Res	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	< 3 MM	> 3 MM	Total	Noncore	Total
_	A	В	C		D	_	D	E	F	G	Н	ı	J	K	L	M	N	0	P
- 1	Cfh		(Dollars)													ļ			
	Medium Pressure																		l.
1 1/2	0-275	250	\$235	\$227	\$191,754,173	\$3,220,221	\$194,974,394	\$2,083	\$3,360,319	\$198,336,796	\$0	\$0	\$0	\$275	\$275	\$0	\$275	\$0	\$198,336,796 <b>2</b>
- 51	276 - 425		\$246	\$238	\$5.176.862	\$278,679	\$5.455.541	\$2,003	\$591,951	\$6.047.492	\$0	\$0 \$0	\$0	\$273 \$0	\$0	\$0	\$273	\$0	\$6.047.492 3
٩l	426-630		\$300	\$293	\$3,420,625	\$196.062	\$3,616,687	\$0 \$0	\$732.714	\$4.349.401	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0	\$4.349.401
ا ۱	631 - 800		\$307	\$300	\$2,435,688	\$183,290	\$2.618.978	\$248	\$763.800	\$3,383,025	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,383,025 4
	801 - 1.100		\$300	\$294	\$968,023	\$157.843	\$1,125,866	\$484	\$658.638	\$1.784.987	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,784,987 5
اء	1.101 - 1.500	15C	\$317	\$312	\$325,124	\$71,650	\$396,773	\$0	\$461.687	\$858,460	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$858,460 6
7	1.501 - 2.000	2M	\$330	\$327	\$102.585	\$33.331	\$135,916	\$0	\$481.779	\$617.695	\$0	\$0	\$0	\$13.119	\$13.119	\$0	\$13.119	\$0	\$617.695 7
8	2.001 - 3.000	3M	\$322	\$320	\$31,946	\$101,348	\$133,294	\$519	\$618,371	\$752.184	\$0	\$0	\$0	\$3.014	\$3,014	\$0	\$3,014	\$0	\$752,184 8
9	3.001 - 5.000	5M	\$689	\$675	\$12,069	\$102,978	\$115.047	\$1.666	\$606,174	\$722.887	\$761	\$0	\$761	\$8.059	\$8.059	\$0	\$8.059	\$761	\$723.648 <b>9</b>
10	5.001 - 7.000	7M	\$698	\$684	\$5,760	\$39,665	\$45,425	\$2.813	\$263,132	\$311,370	\$5,397	\$0	\$5,397	\$5.714	\$5,714	\$0	\$5,714	\$5,397	\$316,767 #
11						,				,			,				,	,	#
12 /	ligh Pressure																		#
13	0 - 940		\$257	\$257	\$0	\$0	\$0	\$0	\$299	\$299	\$0	\$0	\$0	\$301	\$301	\$0	\$301	\$0	\$299 #
14	941 - 1,050		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 #
15	1,051 - 1,500		\$0	\$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	\$0 #
17	2,701 - 4,000	3M	\$484	\$484	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$725	\$725	\$725	\$725 #
18	4,001 - 6,600	5M	\$697	\$697	\$0	\$0	\$0	\$0	\$0	\$0	\$770	\$0	\$770	\$0	\$0	\$0	\$0	\$770	\$770 #
19	6,601 - 9,200	7M	\$622	\$618	\$0	\$0	\$0	\$501	\$724	\$1,225	\$687	\$0	\$687	\$0	\$0	\$3,734	\$3,734	\$4,421	\$5,646 #
20	9,201 - 14,500		\$933	\$898	\$1,890	\$64,793	\$66,682	\$0	\$291,980	\$358,663	\$7,213	\$933	\$8,147	\$3,273	\$3,273	\$0	\$3,273	\$8,147	\$366,810 #
21	14,501 - 21,400		\$957	\$919	\$3,867	\$40,254	\$44,121	\$8,478	\$163,563	\$216,162	\$15,846	\$0	\$15,846	\$1,118	\$1,118	\$0	\$1,118	\$15,846	\$232,007 #
22	21,401 - 24,000		\$1,025	\$978	\$0	\$4,312	\$4,312	\$2,477	\$13,111	\$19,900	\$4,526	\$0	\$4,526	\$0	\$0	\$1,537	\$1,537	\$6,064	\$25,964 #
23	24,001 - 46,000		\$994	\$971	\$0	\$0	\$0	\$4,004	\$60,126	\$64,131	\$7,684	\$1,988	\$9,673	\$3,487	\$3,487	\$1,491	\$4,978	\$11,164	\$75,295 #
24	46,001 - 79,000		\$1,536	\$1,509	\$0	\$0	\$0	\$1,237	\$16,078	\$17,316	\$5,088	\$1,536	\$6,624	\$5,387	\$5,387	\$6,912	\$12,299	\$13,536	\$30,852 #
25	79,001 - 377,000 377.001 - 600.000		\$2,792 \$0	\$2,763 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$6,493 \$0	\$6,493 \$0	\$6,165 \$0	\$2,792 \$0	\$8,956 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$8,956 \$0	\$15,450 # \$0 #
20			φU	φU	\$0	\$0	φU	φU	φU	φυ	ΨU	\$0	<b>Φ</b> U	φU	φU	<b>\$</b> U	ŞU	\$0	\$0 <b>#</b>
2/	500,001 - 4,250,000 > 4,250,000																		#
29		rurulle					\$208,733,034	\$24,510	\$9,090,941	\$217,848,485	\$54,138	\$7,249	\$61,388	\$43,748	\$43,748	\$14,400	\$58,148	\$75,788	\$217,924,273 #
	orecast Customers						909.359	\$24,510 36	30.488	939.883	\$54,136	\$1,249 5	\$61,366 58	\$43,746 83	\$43,746 15	\$14,400 98	\$30,140	156	940,039 #
31	or occor odditinista						303,555	30	30,400	303,000	- 55		30		10	30		150	540,035 # #
32	verage SRM Cost						\$230	\$676	\$298	\$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

TABLE 1 CUSTOMER-RELATED LRMC	- CAPITAL COSTS
Customer Class	Rental-Method Customer Cost
	(2024 \$/customer)
Residential	\$202
Core Commercial/Industrial	\$398
Natural Gas Vehicle	\$1,250
Noncore Commercial/Industrial	\$2,236
Small Electric Generation	\$987
Large Electric Generation	\$2,353

CUSTOME	T R-RELATED L	ABLE 3 ONG RU	IN MAF	RGINAL	COSTS	
	(2024	\$/custom	ner)			
			Expens	e-Relate	ed O&M	
	Annualized					Total
Customer Class	Capital Cost	Direct	M&S	A&G	General Plant	\$/Customer
Residential	\$202	\$44	\$0	\$12	\$11	\$270
Core Commercial/Industrial	\$398	\$120	\$1	\$34	\$30	\$584
Natural Gas Vehicle	\$1,250	\$278	\$3	\$78	\$69	\$1,678
Noncore Commercial/Industrial	\$2,236	\$670	\$7	\$187	\$167	\$3,267
Small Electric Generation	\$987	\$420	\$5	\$117	\$105	\$1,634
Large Electric Generation	\$2,353	\$1,019	\$11	\$285	\$254	\$3,923

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

### SDG&E Customer Costs Testimony Tables

	TABL	E 2		
CUSTOMER-RELATE	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	\$36,807	\$888	864,505	\$44
Core Commercial/Industrial	\$3,128	\$28	26,214	\$120
Natural Gas Vehicle	\$12	\$0.0	45	\$278
Noncore Commercial/Industrial	\$31	\$8	58	\$670
Small Electric Generation	\$21	\$9	71	\$420
Large Electric Generation	\$9	\$1	10	\$1,019

TA	BLE 4		
DISTRIBUTION-RELATED DIR	ECT MARG	SINAL O&N	I 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		
Mec	LOADING FAC	TORE	
Wids		IONS	
	(2024 \$)		
		Customers per	M&S Loader
Customer Class	Allocated M&S	Class	\$/Customer
Residential	\$410,554	864,505	\$0.47
Core Commercial/Industrial	\$34,375	26,214	\$1.31
Natural Gas Vehicle	\$136	45	\$3.03
Noncore Commercial/Industrial	\$423	58	\$7.29
Small Electric Generation	\$325	71	\$4.58
Large Electric Generation	\$111	10	\$11.10
		Danie dan	MOCL
	l	Peak-day	M&S Loader
Distribution Function	Allocated M&S	Load (mcfd)	\$/mcfd
l			
Medium-Pressure	\$644,432	440,066	\$1.46
High-Pressure	\$166,452	462,002	\$0.36

### SDG&E 2024 TCAP

# Section 1 Customer Costs Model for LRMC Studies

# SDG&E Cost Allocation LRMC Customer Costs Costs Results

	Residential
Α	В
Customer Costs Rental Method	\$213.08
Customer Costs NCO Method	\$91.52
Customer Costs NCO RCA	\$288.16

\$196.64 \$16.39

Table 4: SDG&E's Resider

	Rental method
SDG&E	\$17.76

Rental Capital
ARM 1 \$145.93
ARM 2 \$145.93

### ntial Minimum Connection Cost Per Month

NCO Method	ARM 1	ARM2
\$24.01	\$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

А	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	\$213.08	\$1,678.94	\$464.68	\$196.29	\$3,381.02	\$1,590.09	\$4,091.38	\$1,941.74	\$2,482.15	\$221.13
Customer Costs NCO Method	\$91.52	\$526.24	\$214.85	\$70.49	\$1,211.94	\$717.57	\$1,780.23	\$827.31	\$971.56	\$99.67
Customer Costs NCO RCA	\$288.16	\$1,145.86	\$472.34	\$269.16	\$1,144.61	\$684.33	\$1,738.17	\$814.43	\$942.48	\$70.59
Customer Costs 50/50 NCO/RECC	\$250.62	\$1,412.40	\$468.51	\$232.72	\$2,262.81	\$1,137.21	\$2,914.77	\$1,378.09	\$1,712.31	\$145.86

### 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	\$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

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

			Res			ĺ		Total
	G-R	G-M	G-S	G-T	Total Res	NGV	GN-3	Core
A	В	С	D	E	F	G	Н	I
Annualized SRM Cost \$/customer/yr 2024\$s	\$145.93	\$153.98	\$175.98	\$200.47	\$146.10	\$1,203.07	\$274.73	\$150.31
O&M \$/customer/yr								
FERC 870 - 894: Distribution O&M (M\$)	\$33,604	\$852	\$26	\$58	\$34,540	\$13	\$3,016	\$24,158
FERC 901 - 910: Customer O&M (M\$)	\$819	\$16	\$0	\$0	\$836	\$0	\$26	\$862
Total Cust-Rel O&M (M\$)	\$34,423	\$867	\$26	\$58	\$35,375	\$13	\$3,042	\$25,020
2021 Number of Customers	847,801	16,309	219	176	864,505	45	26,214	890,764
Cust-Rel O&M per Customer (2021\$'s)	\$41	\$53	\$120	\$332	\$41	\$291	\$116	\$28
escalator 2021's to 2024\$'s	1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
O&M \$/customer/yr 2020\$s	\$43.17	\$56.54	\$127.74	\$352.62	\$43.50	\$309.06	\$123.37	\$29.86
O&M Loaders:								
Materials & Supplies Loader:								
allocator = total Customer Related O&M as % of total	89.4%	2.3%	0.1%	0.2%	91.9%	0.0%	7.9%	65.0%
Allocated Materials & Supplies Loader (\$'s) \$419,449	\$374.920	\$9.447	\$287	\$636	\$385,289	\$142	\$33,131	\$272.508
2021 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	\$1.31	\$3.61	\$0.45	\$3.17	\$1.26	\$0.31
escalator 2021\$'s to 2024\$'s	1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
M&S Loader \$/customer/yr 2024\$s	\$0.47	\$0.62	\$1.39	\$3.84	\$0.47	\$3.37	\$1.34	\$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 2024\$'s	\$12.06	\$15.80	\$35.69	\$98.52	\$12.15	\$86.35	\$34.47	\$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 2024\$'s	\$10.77	\$14.11	\$31.87	\$87.96	\$10.85	\$77.10	\$30.78	\$7.45
TOTAL O&M LOADERS \$/customer/yr	\$23.30	\$30.52	\$68.94	\$190.32	\$23.48	\$166.81	\$66.59	\$16.12
LRMC Rental Customer Cost \$/customer/year	\$212.39	\$241.04	\$372.66	\$743.41	\$213.08	\$1,678.94	\$464.68	\$196.29
-					\$17.76			
NCO Method: LRMC Rental Customer Cost \$/customer/year					\$213.08	\$1,678.94	\$464.68	\$196.29
less annualized SRM rental					\$213.06 (\$146.10)	(\$1,203.07)	(\$274.73)	(\$150.31)
plus annualized SRM NCO					\$24.54	\$50.37	\$24.89	\$24.51
NCO Customer Cost \$/customer/year					\$91.52	\$526.24	\$24.85	\$70.49
NOO Gustomer Gost preustomerryear					\$7.63	Ψ320.24	Ψ214.03	ψ10. <del>1</del> 3
NCO with Recplacement Cost Adder Method:					Ψ1.03			
LRMC Rental Customer Cost \$/customer/year					\$213.08	\$1,678.94	\$464.68	\$196.29
less annualized SRM rental					(\$146.10)	(\$1,203.07)	(\$274.73)	(\$150.31)
plus annualized SRM					\$221.18	\$669.99	\$282.38	\$223.18
NCO w/ Replacement Customer Cost \$/cstmr/yr					\$288.16	\$1,145.86	\$472.34	\$269.16
					\$24.01			

GTNC MPD	HPD	Total	EG < 3 MM	> 3 MM	Total	Total Noncore	System Total
	K	L	M	N	0	P	Q
\$2,098.99	\$3,693.07	\$2,236.41	\$905.76	\$2,353.22	\$1,127.31	\$1,539.67	\$150.54
\$29	\$5	\$33	\$22	\$10	\$31	\$64	\$37,633
\$5	\$2	\$7	\$8	\$1	\$9	\$16	\$878
\$34	\$7	\$41	\$30	\$11	\$40	\$80	\$38,512
48	10	58	71	10	81	139	890,903
\$712	\$684	\$699	\$418	\$1,062	\$498	\$576	\$43
1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
\$756.61	\$726.87	\$743.38	\$444.44	\$1,128.87	\$528.94	\$612.10	\$45.96
0.1%	0.0%	0.1%	0.1%	0.0%	0.1%	0.2%	100.0%
\$372	\$74	\$442	\$323	\$116	\$439	\$872	\$273,380
48	10	58	71	10	81	139	890.903
\$7.75	\$7.45	\$7.62	\$4.55	\$11.56	\$5.42	\$6.27	\$0.31
1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
\$8.24	\$7.92	\$8.10	\$4.84	\$12.30	\$5.76	\$6.67	\$0.33
27.94%	27.94%	27.94%	27.94%	27.94%	27.94%	27.94%	27.94%
\$211.39	\$203.08	\$207.69	\$124.17	\$315.39	\$147.78	\$171.01	\$12.84
24.95%	24.95%	24.95%	24.95%	24.95%	24.95%	24.95%	24.95%
\$188.75	\$181.33	\$185.45	\$110.87	\$281.61	\$131.95	\$152.70	\$11.46
\$408.37	\$392.32	\$401.23	\$239.89	\$609.30	\$285.49	\$330.38	\$24.63
\$3,263.97	\$4,812.26	\$3,381.02	\$1,590.09	\$4,091.38	\$1,941.74	\$2,482.15	\$221.13
\$3,263.97	\$4,812.26	\$3,381.02	\$1,590.09	\$4,091.38	\$1,941.74	\$2,482.15	\$221.13
(\$2,098.99)	(\$3,693.07)	(\$2,236.41)	(\$905.76)	(\$2,353.22)	(\$1,127.31)	(\$1,539.67)	(\$150.54)
\$67.53	\$65.18	\$67.33	\$33.24	\$42.07	\$12.88	\$29.08	\$29.0
\$1,232.51	\$1,184.37	\$1,211.94	\$717.57	\$1,780.23	\$827.31	\$971.56	\$99.67
\$3,263.97	\$4,812.26	\$3,381.02	\$1,590.09	\$4,091.38	\$1,941.74	\$2,482.15	\$221.13
(\$2,098.99)	(\$3,693.07)	(\$2,236.41)	(\$905.76)	(\$2,353.22)	(\$1,127.31)	(\$1,539.67)	(\$150.54)
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
\$1,164.98	\$1,119.19	\$1,144.61	\$684.33	\$1,738.17	\$814.43	\$942.48	\$70.59

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

# METER SET ASSEMBLY (MSA) EXPENSE 2024 TCAP

	Max Meter	Meter	Meter, Regulator &	Installation	Total MSA	
	Flow Range	Type	Fitting Costs	Costs	Costs	
	Α	В	C	E	F	
	Cfh		(Dollars)	(Dollars)	(Dollars)	
1	Medium Pressure	050	0004.00	<b>#70.05</b>	#000 07	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
7	1,101 - 1,500	15C	\$1,959.59	\$965.32	\$2,924.91	
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 13	Himb Drosevins					12 13
-	High Pressure 0 - 940	400	¢4 FC0 00	<b>#</b> 065.30	<b>CO FOC 40</b>	13
14 15	0 - 940 941 - 1.050	400 8C	\$1,560.80	\$965.32	\$2,526.12	15
15 16		630	\$3,326.33	\$1,521.50 \$965.32	\$4,847.83	16
-	1,051 - 1,500		\$1,950.71	*	\$2,916.03	
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 & I	nstallation		Total SRM	
	Max Meter	Meter	M&R	RECC	Annualized	Service	Service	RECC	Annualized	Annualized	
	Flow Range	Type	Cost	Factor	Marg. Invstmt.	Type	Cost	Factor	Marg. Invstmt.	Marg. Invstmt.	
	A	В	С	D	E	F	G	Н	ı	J	
	Cfh		(Dollars)	(Percent)	(Dollars)		(Dollars)	(Percent)	(Dollars)	(Dollars)	
1	Medium Pressure										1 1
2	0-275	250	\$281	8.12%	\$23	Poly-1"	\$1,573	7.37%	\$116	\$139	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	Hiah Pressure										12 13
13 14	0 - 940	400	\$2,526	8.15%	\$206	Poly-1"	\$1.573	7.37%	\$116	\$322	13
15	941 - 1.050	400 8C	\$4,848	8.13%	\$394	Poly-1"	\$1,573	7.37%	\$116	\$522 \$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 - 1,600	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
 \$97

 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 INI		<u> </u>	C	D	E	F	G	H	I	.l	K	I	N	0	_
	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	19
20	6,601 - 9,200	7M	0	0	0	0	-	1	1	2	1 1	-	1	- 0	4	4	5	/	20
21	9,201 - 14,500	11M	2	27	8	31	68	- 44	269	337	1 45	2	9	3	-	3	12	349	21
22 23	14,501 - 21,400 21,401 - 24,000	16M 11M-HP	4	24	3	13	44	11	147 11	202 18	15	-	15	1	- ,	1	16	218	22 23
	24,001 - 24,000	16M-HP	0	3	1	0	4	3		57	4 7	- ,	11	-	1	1	15	23 72	
24 25	46.001 - 46,000 46.001 - 79.000	23M-HP	0	0	0	0	-	5	52	10	/ /	4	11	3	1	4	11	72	24 25
26	79.001 - 377.000	8" Turbine	0	0	0	0	-	'	9	10	) 3	2	3	3	3	0	'	21	26
27	377,001 - 600,000	Turbine	0	0	0	0	-	-	2	2		2	4	_	-	-	4	0	27
28	600,001 - 4,250,000	Turbine	0	0	0	0	-	-	-	-	_	-	-	_	-	-	-	_	28
29	> 4.250,000	Turbine	0	0	0	0	-	-	-	-	_	-	-	-	-	-	-	-	28
30	× 4,250,000	ruibilie	U	U	U	U	-						-	_		-	-		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	

# 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	E	F	G	Н	I	J	K	L	M	N	0	P	Q	R
CAP Customers	891,788	17,155	5 230	185	909,359	36	30,488	939,883	53	5	58	83	15	98	-	156	940,039
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 2024 CAP in Mtherms	Res	NGV	Core C&I	Total Core	C&I	FG Tier 1	EG Tier 2	Total FG	Core	Total System
1	DIRECT Demand	1100		0010 001	Total Gold		20 1101 1	20 1101 2	TOTAL EG	00.0	rotal Oyotolii
2	Transmission										
3	Average Year Throughput (MTh)	0	0	0	0	13,965	0	225,945	225,945	239,910	239,910
4	Cold Year Throughput (1-in-35) (MTh)	0	0	0	0	13,965	0	225,945	225,945	239,910	239,910
5	Cold Year Peak Month (December) (MTh)	0	0	0	0	1,167	0	19,867	19,867	21,035	21,035
6	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	0	0	0	0	38	0	828	828	866	866
7	Number of Customers	0	0	0	0	5	3	10	13	18	18
8	High Pressure										
9	Average Year Throughput (MTh)	18	10,075	3,333	13,426	2,747	9,085	35,885	44,970	47,717	61,142
10	Cold Year Throughput (1-in-35) (MTh)	19	10,075	3,442	13,536	2,747	9,085	35,885	44,970	47,717	61,253
11	Cold Year Peak Month (December) (MTh)	3	865	391	1,259	230	755	2,981	3,736	3,965	5,224
12	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	0	28	19	47	7	24	96	121	128	175
13	Number of Customers	2	5	5	12	5	7	4	11	16	28
14	Medium Pressure										
15	Average Year Throughput (MTh)	270,586	13,104	175,580	459,270	32,591	22,343	4,342	26,685	59,276	518,546
16	Cold Year Throughput (1-in-35) (MTh)	298,699	13,104	181,329	493,131	32,591	22,343	4,342	26,685	59,276	552,407
17	Cold Year Peak Month (December) (MTh)	43,868	1,125	20,592	65,584	2,724	1,856	361	2,217	4,941	70,525
18	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	3,040	36	996	4,072	88	60	12	72	159	4,232
19	Number of Customers	909,357	31	30,483	939,871	48	73	1	74	122	939,993
20	CUMULATIVE Demand										
21	Transmission										
22	Average Year Throughput (MTh)	270,604	23,179	178,913	472,696	49,302	31,429	266,171	297,600	346,902	819,598
23	Cold Year Throughput (1-in-35) (MTh)	298,718	23,179	184,771	506,668	49,302	31,429	266,171	297,600	346,902	853,570
24	Cold Year Peak Month (December) (MTh)	43,870	1,990	20,983	66,843	4,120	2,611	23,209	25,820	29,941	96,784
25	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	3,040	64	1,015	4,119	133	84	936	1,020	1,153	5,272
26	Number of Customers	909,359	36	30,488	939,883	58	83	15	98	156	940,039
27	High Pressure										
28	Average Year Throughput (MTh)	270,604	23,179	178,913	472,696	35,337	31,429	40,227	71,656	106,993	579,689
29	Cold Year Throughput (1-in-35) (MTh)	298,718	23,179	184,771	506,668	35,337	31,429	40,227	71,656	106,993	613,661
30	Cold Year Peak Month (December) (MTh)	43,870	1,990	20,983	66,843	2,953	2,611	3,342	5,953	8,906	75,749
31	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	3,040	64	1,015	4,119	95	84	108	192	287	4,407
32	Number of Customers	909,359	36	30,488	939,883	53	80	5	85	138	940,021
33	Medium Pressure										
34	Average Year Throughput (MTh)	270,586	13,104	175,580	459,270	32,591	22,343	4,342	26,685	59,276	518,546
35	Cold Year Throughput (1-in-35) (MTh)	298,699	13,104	181,329	493,131	32,591	22,343	4,342	26,685	59,276	552,407
36	Cold Year Peak Month (December) (MTh)	43,868	1,125	20,592	65,584	2,724	1,856	361	2,217	4,941	70,525
37	Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	3,040	36	996	4,072	88	60	12	72	159	4,232
38	Number of Customers	909,357	31	30,483	939,871	48	73	1	74	122	939,993

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

# MSA ASSIGNMENT FACTORS BY CUSTOMER CLASS 2020 TCAP

	Max Meter Flow Range	Meter Type	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	
	Γιον Kange	B I	G-R	G-IVI	G-3	G-1	C	D	E E	F	G	Н	TOTAL	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	K	Total	N	O	
	Cfh						$\overline{}$					- ''			IX.		- 14		$\overline{}$
																			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	400	0.000/	0.000/	0.000/	0.000/	0.000/	0.000/	0.000/	0.000/	0.000/	0.000/	0.000/	4.440/	0.000/	4.000/	0.700/	0.000/	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 1.051 - 1.500	8C 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% 0.00%	0.00% 0.00%	15 16						
16 17	1,051 - 1,500	2M	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%	17
	2.701 - 2,700			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	10.00%		0.00%	0.00%	
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%	0.00% 1.72%	0.00%	0.00%	1.23% 0.00%	0.72%	0.00%	18 19
20	4,001 - 0,000 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%	0.04%	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%	0.13%	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%	0.02%	0.00%	0.00%	0.00%	11.11%	0.20%	0.00%	14.58%	40.00%	18.97%	4.23%	10.00%	4.94%	10.79%	0.00%	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	.,									2.2370	2.2270	2.2270	2.2270			/0	2.2270	2.2370	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:

<sup>1.</sup> 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																			i
4	Medium Pressure																			1
2	0-275	250	845,479	13,603	89	5	859,177	9	14,294	873,479				1		1		1	873,480	,
3	276 - 425	425	21,749	1,101	31	2	22,883	-	2,409	25,291		-	-	_ '	-	_ '	-	'	25,291	3
4	426-630	630	11,678	640	6	7	12,331	_	2,441	14,772	_	_			_			[	14,772	4
5	631 - 800	8C	8,106	573	19	4	8,702	1	2,485	11,188	_	_	_	_	_	_	_	_	11,188	5
6	801 - 1.100	11C	3,289	491	31	4	3,815	2	2,195	6,011	-	_	-	_	_	-	-		6,011	6
7	1,101 - 1,500	15C	1,041	217	5	4	1,268		1,457	2,725	-	_	-	_	_	-	-		2,725	7
8	1,501 - 2,000	2M	313	93	6	2	414	-	1,460	1,874	-	-	-	40	-	40	-	40	1,914	8
9	2,001 - 3,000	3M	100	265	18	32	414	2	1,919	2,335	-	-	-	9	-	9	-	9	2,344	9
10	3,001 - 5,000	5M	18	87	7	55	167	2	879	1,049	1	-	1	12	-	12	-	13	1,062	10
11	5,001 - 7,000	7M	8	28	5	23	65	4	377	446	8	-	8	8	-	8	-	16	462	11
12																				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		6	6	-	7	9	20
21	9,201 - 14,500	11M	2	28	8	33	72		313	384	8	1	9	4	-	4	-	12	397	21
22	14,501 - 21,400	16M	4	25	3	14	46	9	171	226	1/	-	17	1	-	1	-	18	244	22
23	21,401 - 24,000	11M-HP	-	3	1	-	4	2	13	19	4	-	4	- ,	2	2	-	6	25	23
24	24,001 - 46,000	16M-HP 23M-HP	-	-	-	-	-	4	60	65	8	2	10	4	2	5	-	15	79	24
25 26	46,001 - 79,000 79,001 - 377,000	8" Turbine	-	-	-	-	-		10	11 2	3	1	4	4	э	8	-	12	24	25 26
	377,001 - 600,000	Turbine	-	-	-	-	-	-	2	2	2	'	3	-	-	-	-	) s	6	27
27 28	600,001 - 4,250,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	28
29	> 4.250,000	Turbine	-		-	-			-		-			]				[		29
30	- 4,200,000	raibille	-	-	-		-	-	<del>-</del>				-		-	-		<u> </u>		30
	Total Customers		891,788	17,155	230	185	909,359	36	30,488	939,883	53	5	58	83	15	98	-	156	940,039	

### 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
 891,788
 17,155
 230
 185
 909,359
 36
 30,488
 939,883
 53
 5
 58
 83
 15
 98
 156
 940,039

 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					Total	ĺ	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	Р	Q	R	S	
	Cfh											(Doll	ars)							
																				ı
1	Medium Pressure																			. 1
2	0-275	250	\$121,351,798	\$1,952,436	\$12,833	\$755	\$123,317,822	\$1,229	\$1,982,722	\$125,301,773	\$0	\$0	\$0	\$162	\$0	\$162	\$0	\$162	\$125,301,935	2
3	276 - 425	425	\$3,822,556	\$193,568	\$5,361	\$370	\$4,021,856	\$0	\$415,758	\$4,437,614	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,437,614	3
4	426-630	630	\$2,356,860	\$129,073	\$1,274	\$1,486	\$2,488,693	\$0	\$497,716	\$2,986,410	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,986,410	4
5	631 - 800	8C	\$1,638,222	\$115,862	\$3,827	\$850	\$1,758,761	\$190	\$585,726	\$2,344,676	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,344,676	5
6	801 - 1,100	11C	\$664,608	\$99,256	\$6,164	\$850	\$770,878	\$391	\$532,561	\$1,303,829	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,303,829	6
7	1,101 - 1,500	15C	\$211,065	\$43,919	\$1,066	\$853	\$256,902	\$0	\$515,522	\$772,424	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$772,424	7
8	1,501 - 2,000	2M	\$63,541	\$18,764	\$1,279	\$426	\$84,011	\$0	\$706,529	\$790,540	\$0	\$0	\$0	\$19,240	\$0	\$19,240	\$0	\$19,240	\$809,779	. 8
9	2,001 - 3,000	3M	\$20,261	\$53,744	\$3,626	\$6,398	\$84,029	\$763	\$909,234	\$994,027	\$0	\$0	\$0	\$4,431	\$0	\$4,431	\$0	\$4,431	\$998,458	9
10	3,001 - 5,000	5M	\$3,621	\$17,678	\$1,491	\$11,075	\$33,865	\$2,305	\$838,523	\$874,692	\$1,053	\$0	\$1,053	\$11,149	\$0	\$11,149	\$0	\$12,202	\$886,894	10
11	5,001 - 7,000	7M	\$1,703	\$5,749	\$1,065	\$4,684	\$13,201	\$3,943	\$368,935	\$386,079	\$7,567	\$0	\$7,567	\$8,012	\$0	\$8,012	\$0	\$15,579	\$401,658	11
12																				12
13	High Pressure																			13
14	0 - 940	400	\$0	\$0	\$0	\$0	\$0	\$0	\$374	\$374	\$0	\$0	\$0	\$376	\$0	\$376	\$0	\$376	\$750	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	\$1,377	\$1,377	\$0	\$1,377	\$1,377	18
19	4,001 - 6,600	5M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,162	\$0	\$1,162	\$0	\$0	\$0	\$0	\$1,162	\$1,162	19
20	6,601 - 9,200	7M	\$0	\$0	\$0	\$0	\$0	\$887	\$1,280	\$2,167	\$1,215	\$0	\$1,215	\$0	\$6,604	\$6,604	\$0	\$7,820	\$9,986	20
21	9,201 - 14,500	11M	\$426	\$5,747	\$1,703	\$6,598	\$14,474	\$0	\$498,647	\$513,120	\$12,319	\$1,594	\$13,913	\$5,590	\$0	\$5,590	\$0	\$19,503	\$532,623	21
22	14,501 - 21,400	16M	\$851	\$5,108	\$638	\$2,767	\$9,364	\$14,215	\$274,268	\$297,847	\$26,570	\$0	\$26,570	\$1,875	\$0	\$1,875	\$0	\$28,446	\$326,293	22
23	21,401 - 24,000	11M-HP 16M-HP	\$0	\$639	\$213	\$0 \$0	\$852	\$5,933	\$31,407	\$38,192	\$10,843	\$0 \$5.067	\$10,843	\$0	\$3,682	\$3,682	\$0	\$14,525	\$52,717	23
24	24,001 - 46,000 46.001 - 79.000	23M-HP	\$0	\$0 ©0	\$0 ©0	\$0 \$0	\$0	\$10,204	\$153,215	\$163,420	\$19,581	\$5,067	\$24,648	\$8,885	\$3,800	\$12,685	\$0	\$37,333	\$200,753	24
25	.,	8" Turbine	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$3,551	\$46,137 \$17,205	\$49,687 \$17,205	\$14,601 \$16,335	\$4,408	\$19,008 \$23,732	\$15,458	\$19,835	\$35,293	\$0 \$0	\$54,301	\$103,988 \$40,937	25
26	79,001 - 377,000 377,001 - 600,000		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$17,205 \$0	\$17,205	\$16,335	\$7,397 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$23,732		26 27
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
28	> 4,250,000	Turbine Turbine																		28
30	7 4,250,000 Total	ruibiile	\$130,135,512	\$2,641,542	\$40,539	\$37,113	\$132,854,706	\$43.611	\$8,375,759	\$141,274,077	\$111,247	\$18,465	\$129,712	\$75,178	\$35,298	\$110,476	\$0	\$240,188	\$141,514,265	30
31	Forecast Customers		891,788	17,155	230	185	909,359	36	30,488	939,883	53	\$10,405 5	58	83	φ35,296 15	98	, \$U	156	940,039	31
32	i orcoast oustomers		391,700	17,100	230	100	303,333	- 30	30,400	339,003	- 33		30	- 00	13	30		130	540,039	32
	Average SRM Cost		\$146	\$154	\$176	\$200	\$146	\$1,203	\$275	\$150	\$2,099	\$3,693	\$2,236	\$906	\$2,353	\$1,127	\$0	\$1,540	\$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%	90%	0%	8%	55%	0%	0%	0%	0%	0%	0%	0%	98%	2
3	Allocation (M\$)	\$3,782	\$3,294	\$84	\$3	\$6	\$3,386	\$1	\$301	\$2,097	\$3	\$0	\$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	\$5,082	\$102	\$2	\$4	\$5,190	\$1	\$223	\$5,415	\$3	\$0	\$3	\$2	\$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%	83%	3%	0%	0%	86%	0%	14%	100%	0%	0%	0%	0%	0%	0%	0%	100%	10
11	Allocation (M\$)	\$5,510	\$4,550	\$162	\$7	\$15	\$4,734	\$4	\$746	\$5,485	\$11	\$2	\$13	\$8	\$4	\$12	\$25	\$5,510	11
12																			12
13	Allocator - Customer Service Expense	0%	86%	2%	0%	0%	88%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	95%	13
14	Allocation (M\$)	\$8,727	\$7,488	\$171	\$4	\$10	\$7,673	\$1	\$593	\$0	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$8,268	14
15																			15
16	Allocator - Total of other Distribution O&M Operating	56%	87%	2%	0%	0%	90%	0%	8%	55%	0%	0%	0%	0%	0%	0%	0%	98%	16
17	Allocation (M\$)	\$8,447	\$7,356	\$187	\$6	\$13	\$7,562	\$3	\$672	\$4,684	\$6	\$1	\$7	\$4	\$2	\$6	\$13	\$8,249	17
18	881 - Rents = Non-Marginal Designation																		18
19																			19
20	Allocator - Total Other Distribution O&M Maintenance	100%	90%	2%	0%	0%	92%	0%	7%	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																			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	\$1,159	\$23	\$0	\$1	\$1,184	\$0	\$51	\$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	\$2,810	\$57	\$1	\$2	\$2,871	\$1	\$124	\$2,995	\$2	\$0	\$2	\$1	\$0	\$1	\$3	\$2,998	29
30																			30
31	Allocator - Customers Wtd by Meters & Regs costs	100%	83%	3%	0%	0%	86%	0%	14%	100%	0%	0%	0%	0%	0%	0%	0%	100%	31
32	Allocation (M\$)	\$2,258	\$1,865	\$66	\$3	\$6	\$1,940	\$2	\$306	\$2,248	\$4	\$1	\$5	\$3	\$1	\$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	\$33,604	\$852	\$26	\$58	\$34,540	\$13	\$3,016	\$24,158	\$29	\$5	\$33	\$22	\$10	\$31	\$64	\$37,633	34
35	Allocation %	100%	88%	2%	0%	0%	90%	0%	8%	63%	0%	0%	0%	0%	0%	0%	0%	98%	35

### Notes

- 1. 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		J	K	L	M	N	0	Р	Q	
1 2 3 4 5	874, 887, 892 - Services Allocator - Customers Wtd by Services costs (M\$) Alloc % 878, 893 - Meters & House Regulators O&M Expense	\$1,402,852 94%	\$28,264 2%	\$576 0%	\$1,239 0%	\$1,432,931 96%	\$307 0%	\$61,679 4%	\$1,494,917 100%	\$763 0%		\$876 0%	\$433 0%	\$224 0%	\$657 0%	\$1,533 0%	\$1,496,450 100%	1 2 3 4 5
7 8 9	Allocator - Customers Wtd by Meters & Regs costs (M\$) Alloc %  879 - Customer Installations (M\$)	\$287,790 83%	\$10,240 3%	\$431 0%	\$980 0%	\$299,441 86%	\$258 0%	\$47,204 14%	\$346,904 100%	\$679 0%	\$125 0%	\$804 0%	\$533 0%	\$231 0%	\$764 0%	\$1,568 0%	\$348,472 100%	7 8 9
10 11	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%	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	I			Total	I.	GTNC		1	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	
	EIELD OFFICER T	••														1.
1	FIELD SERVICES Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1
2	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	60	\$4.749	\$157.104	60	62	\$10	\$13	62	\$14	\$0	\$24	\$157,128	7
,		\$137,120	\$132,347	90	φ4,743	\$137,104	90	92		φ13	92		\$0		\$137,120	1 ′
8	CUSTOMER SERVICE TECHNOLOGY & SUPPORT Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	, s
	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
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
	OTHER Total	\$0	\$0	ŝū	\$0	\$0	\$0	ŝū	\$0	so.	\$0	\$0	\$0	\$0	\$0	14
	SVP COST CENTERS Total	\$0	\$0	\$0	90	\$0	1 60	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	15
16	OVI GOOT GENTERO TOTAL	90	ΨΟ	90	ΨΟ	ΨΟ	Ψ0	90	90	90	90	ΨΟ	ΨΟ	90	ΨΟ	16
47	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	1 47
	Allocation %	100%	95%	0%	\$26,335 3%	98%	\$5,364	0%	1%	1%	0%	1%	0%	\$10,307		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	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	investment	G-K	G-M	<u>G-8</u>		Iotai	NGV	GN-3	Core	MPD				> 3 IVIIVI	Iotai	Noncore	Iotai	
_	A Cfh	В	C	D	E	F	G	Н		/Therese and	K Dallana)	L	М	N	00	Р	Q	К	S	—
	Cm		1					i		(Thousand	Dollars)	ı		1			i	i		1
1 /	Medium Pressure																			1 1
2	0-275	250	\$2	\$1,329,800	\$21,395	\$141	\$8	\$1,351,344	\$14	\$22,481	\$1,373,839	\$0	\$0	\$0	\$2	\$0	\$2	\$2	\$1,373,841	2
3	276 - 425	425	\$2	\$34,207	\$1,732	\$48	\$3	\$35,991	\$0	\$3,788	\$39,779	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$39,779	3
4	426-630	630	\$2	\$18,368	\$1,006	\$10	\$12	\$19,395	\$0	\$3.840	\$23,235	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,235	4
5	631 - 800	8C	\$2	\$12,749	\$902	\$30	\$7	\$13,687	\$1	\$3,909	\$17,598	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,598	5
6	801 - 1.100	11C	\$2	\$5,173	\$773	\$48	\$7	\$6,001	\$3	\$3,452	\$9,455	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,455	6
7	1.101 - 1.500	15C	\$2	\$1.638	\$341	\$8	\$7	\$1,994	\$0	\$2,292	\$4,286	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,286	7
8	1.501 - 2.000	2M	\$2	\$493	\$146	\$10	\$3	\$652	\$0	\$2,296	\$2,948	\$0	\$0	\$0	\$63	\$0	\$63	\$63	\$3,010	8
9	2.001 - 3.000	3M	\$2	\$157	\$417	\$28	\$50	\$652	\$3	\$3.018	\$3,673	\$0	\$0	\$0	\$15	\$0	\$15	\$15	\$3,687	9
10	3,001 - 5,000	5M	\$7	\$126	\$616	\$52	\$386	\$1,181	\$17	\$6,207	\$7,405	\$8	\$0	\$8	\$83	\$0	\$83	\$90	\$7,495	10
11	5,001 - 7,000	7M	\$7	\$59	\$200	\$37	\$163	\$460	\$28	\$2,660	\$3,149	\$55	\$0	\$55	\$58	\$0	\$58	\$112	\$3,261	11
12																				12
13 <i>l</i>	ligh Pressure																			13
14	0 - 940	400	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$2	\$2	\$0	\$0	\$0	\$2	\$0	\$2	\$2	\$4	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	3M	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11	\$11	\$11	\$11	18
19	4,001 - 6,600	5M	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8	\$0	\$8	\$0	\$0	\$0	\$8	\$8	19
20	6,601 - 9,200	7M	\$7	\$0	\$0	\$0	\$0	\$0	\$6	\$8	\$14	\$8	\$0	\$8	\$0	\$42	\$42	\$50	\$64	20
21	9,201 - 14,500	11M	\$13	\$27	\$364	\$108	\$418	\$917	\$0	\$4,009	\$4,926	\$99	\$13	\$112	\$45	\$0	\$45	\$157	\$5,083	21
22	14,501 - 21,400	16M	\$13	\$54	\$324	\$40	\$175	\$593	\$114	\$2,191	\$2,898	\$212	\$0	\$212	\$15	\$0	\$15	\$227	\$3,125	22
23	21,401 - 24,000	11M-HP	\$16	\$0	\$49	\$16	\$0	\$65	\$38	\$199	\$302	\$69	\$0	\$69	\$0	\$23	\$23 \$78	\$92	\$394	23
24	24,001 - 46,000 46.001 - 79.000	16M-HP 23M-HP	\$16 \$28	\$0 \$0	\$0	\$0 \$0	\$0	\$0	\$63	\$939 \$290	\$1,002 \$312	\$120	\$31	\$151 \$119	\$54	\$23	\$222	\$229	\$1,231 \$653	24 25
25	79.001 - 79,000	8" Turbine	\$28 \$42		\$0		\$0	\$0	\$22	\$290 \$98	\$312 \$98	\$92	\$28		\$97	\$125	\$222	\$341 \$135		
26 27	377.001 - 377,000	Turbine	\$42 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$98 \$0	\$98 \$0	\$93 \$0	\$42 \$0	\$135 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$135	\$233 \$0	26 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
28	> 4,250,000	Turbine																		28
30	- 4,230,000	raibille															+			30
31	Total		N/A	\$1,402,852	\$28,264	\$576	\$1,239	\$1,432,931	\$307	\$61,679	\$1,494,917	\$763	\$114	\$876	\$433	\$224	\$657	\$1,533	\$1,496,450	

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).

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

# 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	rivestrient	G-K	G-IVI	G-3	G	IOIAI	INGV	GIN-3	Core	IVIPD	M	N I	O	2 3 IVIIVI	O	Noncore	rotai	_
$\rightarrow$	A Cfh		C	U				п		(Thousand	Dollars)	L	IVI	IN		- Р	Q	R	3	<del></del>
	GIII		1					1		(Triousariu	Dollais)	I		1			1	i		1
1 /	Medium Pressure																			1 1
2 1	0-275	250	\$0	\$237.555	\$3,822	\$25	\$1	\$241,404	\$2	\$4.016	\$245,422	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$245,422	1 2
3	276 - 425	425	\$1	\$15,240	\$772	\$21	\$1	\$16.035	\$0	\$1.688	\$17,722	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,722	3
4	426-630	630	\$1	\$12,737	\$698	\$7	\$8	\$13,449	\$0	\$2,662	\$16,111	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,111	4
5	631 - 800	8C	\$1	\$12,002	\$849	\$28	\$6	\$12,886	\$1	\$3,680	\$16.567	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,567	5
6	801 - 1,100	11C	\$2	\$5,157	\$770	\$48	\$7	\$5,982	\$3	\$3,441	\$9,426	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,426	6
7	1,101 - 1,500	15C	\$3	\$3,046	\$634	\$15	\$12	\$3,707	\$0	\$4,262	\$7,970	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,970	7
8	1,501 - 2,000	2M	\$5	\$1,419	\$419	\$29	\$10	\$1,876	\$0	\$6,606	\$8,482	\$0	\$0	\$0	\$180	\$0	\$180	\$180	\$8,662	8
9	2,001 - 3,000	3M	\$4	\$440	\$1,166	\$79	\$139	\$1,823	\$7	\$8,440	\$10,270	\$0	\$0	\$0	\$41	\$0	\$41	\$41	\$10,311	9
10	3,001 - 5,000	5M	\$5	\$95	\$466	\$39	\$292	\$893	\$13	\$4,695	\$5,601	\$6	\$0	\$6	\$62	\$0	\$62	\$68	\$5,670	10
11	5,001 - 7,000	7M	\$6	\$48	\$161	\$30	\$131	\$369	\$23	\$2,132	\$2,523	\$44	\$0	\$44	\$46	\$0	\$46	\$90	\$2,613	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	\$7	\$7	\$7	\$7	18
19	4,001 - 6,600 6.601 - 9.200	5M	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7	\$0	\$7	\$0	\$0	\$0 \$43	\$7	\$7	19
20 21	9,201 - 9,200	7M 11M	\$7 \$8	\$0 \$17	\$0 \$228	\$0 \$67	\$0 \$261	\$0	\$6 \$0	\$8	\$14	\$8 \$62	\$0	\$8 \$70	\$0 \$28	\$43		\$51 \$98	\$65 \$3.178	20 21
21	9,201 - 14,500	11M 16M	\$8 \$8	\$17 \$34	\$228 \$206	\$67 \$26	\$261	\$573 \$377	\$0 \$72	\$2,507 \$1.392	\$3,080 \$1,841	\$62 \$135	\$8 \$0	\$10 \$135	\$28 \$10	\$0 \$0	\$28 \$10	\$98 \$144	\$3,178 \$1.985	21
23	21.401 - 24.000	11M-HP	\$16	\$3 <del>4</del> \$0	\$200 \$51	\$26 \$17	\$0	\$68	\$39	\$1,392	\$1,041	\$71	\$0 \$0	\$71	\$10	\$24	\$24	\$96	\$409	23
24	24.001 - 46.000	16M-HP	\$17	\$0 \$0	\$0	\$0	\$0	\$0	\$69	\$1,036	\$1,105	\$132	\$34	\$167	\$60	\$26	\$86	\$252	\$1,357	24
25	46.001 - 79.000	23M-HP	\$29	\$0 \$0	\$0	\$0	\$0	\$0	\$23	\$305	\$329	\$97	\$29	\$126	\$102	\$131	\$234	\$359	\$688	25
26	79.001 - 377.000	8" Turbine	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$123	\$123	\$117	\$53	\$170	\$0	\$0	\$0	\$170	\$294	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-			**	, ,		**			- 77			30
31	Total		N/A	\$287,790	\$10,240	\$431	\$980	\$299,441	\$258	\$47,204	\$346,904	\$679	\$125	\$804	\$533	\$231	\$764	\$1,568	\$348,472	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	Meter, Regulator.	Meter &	Installation	Installation Costs	Weighted	
	Flow Range	& Fitting Costs	Regulator PVRR Factor	Costs	PVRR Factor	Average PVRR Factor	
$\overline{}$	A	B	C	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
	A	В	С	ט	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		\$1,573	\$2,615	125.07%	\$1,967	\$3,271	38
7	1,101 - 1,500	15C	\$2,925	130.17%	\$3,807		\$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%		Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	6 3
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		\$1,573	\$2,615	125.07%	\$1,967	\$3,271	0
15	941 - 1,050	8C	\$4,848	130.30%		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%		Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	-
18	2,701 - 4,000	3M	\$4,892	130.33%	\$6,376		\$7,059	\$2,615	125.07%	\$8,829	\$3,271	-
19	4,001 - 6,600	5M	\$6,559	130.72%		Poly-2"	\$7,059	\$2,615	125.07%	\$8,829	\$3,271	-
20	6,601 - 9,200	7M	\$7,164	130.91%		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		\$12,815	\$2,615	125.07%	\$16,028	\$3,271	1
22	14,501 - 21,400	16M	\$8,141	130.84%	\$10,652		\$12,815	\$2,615	125.07%	\$16,028	\$3,271	1
23	21,401 - 24,000	11M-HP	\$16,153	130.67%	\$21,108		\$15,533	\$2,615	125.07%	\$19,428	\$3,271	0
24	24,001 - 46,000	16M-HP	\$17,129	130.78%	\$22,402		\$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	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		l	Repla	acement Pipe &	Installation	Ì	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	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		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		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		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		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		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		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		Poly-2"	\$32,214	125.07%	\$40,291	1.5%	405	\$303,982	11
12							1							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).

- 2. Oct. (a) = Oct. (b) = Oct. (b) = Col. (c) x Col. (d) x Col. (e) x Col. (e) x Col. (e) x Col. (e) x Col. (f) x [1 Note 7]] + [Col. (d) 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				Total		GTNC			EG		Total	System	
	Flow Range	Туре	Res	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	Medium Pressure														1
2	0-275	250	7,791	0	20	7,811	_	_	_	-	-	-	-	7,811	1 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:

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

Data Sources: Tabs: MSA Cost, MSAlloc v2

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

# 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 Flow Range	Meter Type	Per Customer SRM Invstmt	Res Per Customer G-R SRM Line X	Res	Other Res	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	=G	Total	Total Noncore
	I A	В	С		D		Е	F	G	Н		J	K	L	М	0
	Cfh		(Dollars)	-		_										
1	Medium Pressure															
2	0-275	250	\$21	\$24	\$20,303,521	\$285,894	\$185	\$298,332	\$20,887,931	\$0	\$0	\$0	\$24	\$0	\$0	\$0
3	276 - 425	425	\$24	\$31	\$682,318	\$27,289	\$0	\$57,964	\$767,571	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	426-630	630	\$27	\$37	\$428,918	\$17,350	\$0	\$64,839	\$511,107	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	631 - 800	8C	\$29	\$38	\$311,282	\$17,178	\$23	\$71,586	\$400,070	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	801 - 1,100	11C	\$25	\$33	\$109,907	\$13,276	\$41	\$55,399	\$178,623	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	1,101 - 1,500	15C	\$29	\$35	\$36,618	\$6,488	\$0	\$41,805	\$84,911	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	1,501 - 2,000	2M	\$24	\$28	\$8,709	\$2,406	\$0	\$34,781	\$45,896	\$0	\$0	\$0	\$947	\$0	\$0	\$0
8	2,001 - 3,000	3M	\$21	\$25	\$2,475	\$6,661	\$34	\$40,644	\$49,815	\$0	\$0	\$0	\$198	\$0	\$0	\$0
9	3,001 - 5,000	5M	\$41	\$27	\$477	\$6,149	\$99	\$36,196	\$42,921	\$45	\$0	\$45	\$481	\$0	\$0	\$45
10	5,001 - 7,000	7M	\$40	\$26	\$223	\$2,289	\$162	\$15,184	\$17,858	\$311	\$0	\$311	\$330	\$0	\$0	\$311
11																
12	High Pressure	400		<b>A.</b>			***			40						40
13	0 - 940	400	\$4	\$5	\$0	\$0	\$0	\$4	\$4	\$0	\$0 \$0	\$0	\$4	\$0	\$0	\$0
14	941 - 1,050 1,051 - 1,500	8C	\$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 17	2,701 - 4,000	2M 3M	\$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
18	4.001 - 6.600	5M	\$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
19	6,601 - 9,200	7M	\$0 \$14	\$10	\$0 \$0	\$0 \$0	\$0 \$12	\$17	\$0 \$28	\$16	\$0 \$0	\$16	\$0 \$0	\$0 \$87	\$173	\$102
20	9.201 - 14.500	11M	\$73		\$79	\$5,045	\$0	\$22,734	\$27,858	\$562	\$73	\$634	\$255	\$0	\$0	\$634
21	14.501 - 21.400	16M	\$73 \$79		\$173	\$3,317	\$699	\$13,478	\$17,667	\$1,306	\$73 \$0	\$1,306	\$92	\$0 \$0	\$0	\$1,306
22	21.401 - 24.000	11M-HP	\$116		\$0	\$490	\$281	\$1,489	\$2,261	\$1,500 \$514	\$0 \$0	\$514	\$92 \$0	\$175	\$349	\$689
23	24.001 - 46.000	16M-HP	\$59	\$36	\$0 \$0	\$0	\$239	\$3,594	\$3,833	\$459	\$119	\$578	\$208	\$89	\$178	\$667
24	46.001 - 79.000	23M-HP	\$62		\$0	\$0	\$50	\$653	\$703	\$207	\$62	\$269	\$219	\$281	\$561	\$550
25	79,001 - 377,000	8" Turbine	\$72		\$0	\$0	\$0	\$167	\$167	\$159	\$72	\$231	\$0	\$0	\$0	\$231
26	377.001 - 600.000	Turbine	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
27	600.001 - 4.250.000	Turbine	ΨΟ	Ψ0	ΨΟ	ΨΟ	ΨΟ	ΨΟ	Ψ0	Ψ0	ΨΟ	ΨΟ		ΨΟ	Ψ	ΨΟ
28	> 4.250,000	Turbine														
29	Total				\$21,884,701	\$393,832	\$1,826	\$758,866	\$23,039,225	\$3,579	\$326	\$3,905	\$2,759	\$631	\$1,262	\$4,536
30	Forecast Customers				891.788	17,571	36	30.488	939,883	53	5	58	83	15	98	156
31					301,100	.,		,								
32	Average SRM Cost				\$25	\$22	\$50	\$25	\$25	\$68	\$65	\$67	\$33	\$42	\$13	\$29

### 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	D	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	EG < 3 MM	> 3 MM	Total	Total Noncore	System Total
Cft (Colliers)    Medium Pressure   1	_	riow Range	туре	SKW INVSUM S	rdvi invstrit		Other Res	res	NGV	GIV-3		MPD	HPD .	Total	< 3 IVIIVI	< 3 IVIIVI				TOTAL
Medium Pressure   1	$\rightarrow$	Offh.	_ ь	(Dollara)		U	-	U			G	п		J	Λ	L	IVI	IN	- 0	P
2 0.275 50 \$215 \$10 \$104,550,278 \$2.24 \$50,004.25 \$2.27 \$50,04.05 \$10,000,275,168 \$10,000,275,175,175,175,175,175,175,175,175,175,1		CIII		(Dollars)													ı			
2 0.275 50 \$215 \$10 \$104,550,278 \$2.24 \$50,004.25 \$2.27 \$50,04.05 \$10,000,275,168 \$10,000,275,175,175,175,175,175,175,175,175,175,1	1 1	fedium Pressure																		I1
3	2 1		250	\$215	\$218	\$184.556.278	\$2,946,958	\$187.503.236	\$1.906	\$3.075.168	\$190.580.310	\$0	\$0	\$0	\$252	\$252	\$0	\$252	\$0	\$190,580,310 <b>2</b>
426-630 630 5283 5243 5240,025 5144,694 53.06,518 50 50 50 50 50 50 50 50 50 50 50 50 50	3	276 - 425	425	\$227								\$0				\$0	\$0		\$0	\$5,904,160 <b>3</b>
5 801 - 1,100 11C 5286 5294 5860,023 \$150,487 \$1,116,510 \$461 \$827,946 \$1,746,917 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	1	426-630	630			\$3,420,625		\$3,605,318			\$4,295,547	\$0				\$0	\$0	\$0		\$4,295,547
6 1.101 - 1.500 15C \$308 \$312 \$325, 124 \$89, 143 \$394, 267 \$0 \$445, 535 \$839, 902 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	4	631 - 800	8C	\$291	\$300	\$2,435,688	\$173,490	\$2,609,178	\$234	\$722,964	\$3,332,377	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,332,377 4
7 1,501 - 2,000 2M \$323 \$327 \$102,585 \$32,648 \$915,233 \$0 \$471,902 \$807,135 \$0 \$0 \$0 \$12,850 \$0 \$12	5	801 - 1,100	11C	\$286	\$294	\$968,023	\$150,487	\$1,118,510	\$461	\$627,946	\$1,746,917	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,746,917 5
8 2.001 - 3.000 3 M S316 S320 S31.94e S99.415 S131.980 S509 S006.575 S738.444 S0 S0 S0 S2.956 S0 S2.956 S0 S2.956 S0 S738.444 S0 S0 S751 S10.500 S751 S10.500 S10 S10.500 S751 S10.500 S10 S10.500 S751 S10.500 S10.50	6	1,101 - 1,500	15C									\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$839,802 6
9   3.001 - 5.000   5M   5889   \$575   \$12.069   \$102.978   \$115.047   \$1.666   \$606.174   \$722.887   \$761   \$0   \$5.071   \$5.397   \$0   \$5.714   \$5.714   \$5.714   \$5.397   \$1.666   \$1.001   \$	7																			\$607,135 <b>7</b>
10 5.001 - 7.000 7M \$698 \$684 \$5,760 \$39,665 \$45,425 \$2,813 \$263,132 \$311,370 \$5,397 \$0 \$5,997 \$5,714 \$5,714 \$0 \$5,714 \$5,397 \$316,767 \$12 high Pressure \$0.900 \$0.	8																			\$738,444 8
11 2 High Pressure  13	9																			\$723,648 <b>9</b>
13	10	5,001 - 7,000	7M	\$698	\$684	\$5,760	\$39,665	\$45,425	\$2,813	\$263,132	\$311,370	\$5,397	\$0	\$5,397	\$5,714	\$5,714	\$0	\$5,714	\$5,397	\$316,767 #
13	11																			#
14 941-11050 8C S0	12 <i>F</i>																			#
15	13																			
16	14											\$0				\$0				
17 2.701 - 4.000 3M	15											\$0				\$0				
18         4.001 - 6.000         5M         \$697         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$770         \$0         \$770         \$0         \$0         \$0         \$0         \$770         \$0         \$770         \$0         \$0         \$0         \$0         \$770         \$0         \$0         \$0         \$0         \$770         \$0         \$0         \$0         \$0         \$770         \$0         \$0         \$0         \$0         \$770         \$0         \$0         \$0         \$0         \$770         \$0         \$0         \$0         \$0         \$770         \$0         \$0         \$0         \$0         \$770         \$0         \$0         \$0         \$0         \$770         \$0         \$0         \$0         \$0         \$770         \$0 </td <td>10</td> <td></td> <td>\$0</td> <td></td> <td></td> <td></td> <td>\$0</td> <td></td> <td></td> <td></td> <td></td>	10											\$0				\$0				
19 6.601 - 9.200 TM \$622 \$618 \$0 \$0 \$0 \$50 \$724 \$1.225 \$687 \$0 \$687 \$0 \$0 \$0 \$3.734 \$3.734 \$4.421 \$5.646 \$0 \$0.145.00 \$1.014 \$507 \$5.014 \$0.145.00 \$1.00 \$1.00 \$0.	40									φ0 ¢0		\$0 \$770				\$0 60				
20 9.201 -14.500 11M \$933 \$888 \$1,890 \$64,793 \$66,682 \$0 \$291,890 \$358,663 \$7,213 \$933 \$8,147 \$3,273 \$3,273 \$0 \$3,273 \$8,147 \$366,544 \$22,000 \$22 \$1,401 -24,000 11MHP \$1,025 \$978 \$0 \$4,121 \$8,478 \$163,563 \$216,162 \$15,846 \$0 \$15,546 \$11,18 \$1,118 \$0 \$1,118 \$0 \$1,118 \$1,025 \$1,118 \$1,118 \$0 \$1,118 \$1,025 \$1,118 \$1,025 \$1,129 \$1,025 \$1,02	10									\$724						\$0 \$0				
21 14.501 - 21/4.00 16M \$957 \$919 \$3.867 \$940,254 \$44.121 \$84.78 \$163.663 \$216,162 \$15.846 \$0 \$15.846 \$0 \$15.846 \$1.118 \$51.118 \$0 \$51.118 \$15.546 \$232,000 \$21.40 - 24,000 14M-HP \$1,025 \$978 \$0 \$4.312 \$34.312 \$34.312 \$34.311 \$19.900 \$4.528 \$0 \$0 \$0 \$0 \$51.537 \$15.537 \$6.664 \$25.5064 \$24.001 - 64.000 16M-HP \$994 \$971 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20																			
22 21.401 - 24.00011M-HP \$1.025 \$978 \$0 \$4.312 \$2.477 \$13.111 \$19.900 \$4.526 \$0 \$4.526 \$0 \$0 \$0 \$1.537 \$1.537 \$6.064 \$25.964 \$20.4001 + 3.0001 + 3.	21																			
23 24,001 - 46,000 16M-HP \$994 \$971 \$0 \$0 \$0 \$4,004 \$60,126 \$64,131 \$7,684 \$1,988 \$9,673 \$3,487 \$3,487 \$1,491 \$4,978 \$11,164 \$75,292 \$4,001 - 79,000 23M-HP \$1,536 \$1,536 \$1,509 \$0 \$0 \$0 \$0 \$1,237 \$16,078 \$17,316 \$5,088 \$1,538 \$6,624 \$5,387 \$5,387 \$5,387 \$5,387 \$1,536 \$1,536 \$6,24 \$1,249 \$13,536 \$1,536 \$1,249 \$1,249 \$1,536 \$1,249 \$1,249 \$1,536 \$1,249 \$1,249 \$1,545 \$1,249 \$1,249 \$1,545 \$1,249	22																			
24 46.001 -79.00023M-HP \$1.536 \$1.509 \$0 \$0 \$1.237 \$16.078 \$17.316 \$5.088 \$1.536 \$5.087 \$5.387 \$6.912 \$12.299 \$13.536 \$5.085 \$7.0001 -737.000 Turbine \$2.792 \$2.785 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	23																			\$75,295 #
25 79.001 - 377.000 Turbine \$2,792 \$2,763 \$0 \$0 \$0 \$0 \$6,493 \$6,493 \$6,493 \$6,493 \$6,165 \$2,792 \$8,856 \$0 \$0 \$0 \$0 \$8,856 \$15,455 \$2,900 Turbine \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	24																			\$30,852 #
26         377,001 - 600,000 Turbine         \$0	25																			\$15,450 #
28 3 4,250,000 Turbine 201,129,702 \$4,287 \$8,609,148 \$209,763,137 \$54,138 \$7,249 \$61,388 \$43,396 \$43,396 \$14,400 \$57,796 \$75,788 \$209,838,924 \$30 Forecast Customers 909,359 36 30,488 939,883 53 5 58 83 15 98 - 156 940,035	26																			\$0 #
29 Total \$201,129,702 \$24,287 \$8,609,148 \$209,763,137 \$54,138 \$7,249 \$61,388 \$43,396 \$43,396 \$14,400 \$57,796 \$75,788 \$209,838,924 \$30 Forecast Customers 909,359 36 30,488 939,883 53 5 58 83 15 98 159 940,038 \$43,396 \$43,39	27 6	600,001 - 4,250,000 T	Turbine													•				#
30 Forecast Customers 999,359 36 30,488 939,883 53 5 58 83 15 98 - 156 940,035	28	> 4,250,000 T	Turbine																	#
31					•													\$57,796		\$209,838,924 #
31	30 F	orecast Customers						909,359	36	30,488	939,883	53	5	58	83	15	98	-	156	940,039 #
	31 32 A	verage SRM Cost						\$221	\$670	\$282	\$223	\$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

TABLI CUSTOMER-RELATED LR	
Customer Class	Rental-Method Customer Cost
	(2024 \$/customer)
Residential	\$146
Core Commercial/Industrial	\$275
Natural Gas Vehicle	\$1,203
Noncore Commercial/Industrial	\$2,236
Small Electric Generation	\$906
Large Electric Generation	\$2,353

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

TABLE 3 CUSTOMER-RELATED LONG RUN MARGINAL COSTS (2024 \$/customer)							
	Expense-Related O&M						
	Annualized		'			Total	
Customer Class	Capital Cost	Direct	M&S	A&G	General Plant	\$/Customer	
Residential	\$146	\$44	\$0	\$12	\$11	\$213	
Core Commercial/Industrial	\$275	\$123	\$1	\$34	\$31	\$465	
Natural Gas Vehicle	\$1,203	\$309	\$3	\$86	\$77	\$1,679	
Noncore Commercial/Industrial	\$2,236	\$743	\$8	\$208	\$185	\$3,381	
Small Electric Generation	\$906	\$444	\$5	\$124	\$111	\$1,590	
Large Electric Generation	\$2,353	\$1,129	\$12	\$315	\$282	\$4,091	

### 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	\$36,720	\$888	864,505	\$44	
Core Commercial/Industrial	\$3,206	\$28	26,214	\$123	
Natural Gas Vehicle	\$14	\$0.0	45	\$309	
Noncore Commercial/Industrial	\$36	\$8	58	\$743	
Small Electric Generation	\$23	\$9	71	\$444	
Large Electric Generation	\$10	\$1	10	\$1,129	

TABLE 4					
DISTRIBUTION-RELATED DIRECT MARGINAL O&M EXPENSES					
(2024 \$)					
	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	\$409,613 \$35,223 \$151 \$470 \$344 \$123	864,505 26,214 45 58 71 10	\$0.47 \$1.34 \$3.37 \$8.10 \$4.84 \$12.30		
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		