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

Α	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	\$3.782	Dist O&M MC
871 - Distribution Load Dispatching	\$19	Dist O&M MC
874 - Mains & Services Expenses	\$5,421	Dist O&M MC
875 - Measuring & Regulating Station Expenses	\$0	Dist O&M MC
878 - Meter & House Regulator Expenses	\$5,510	Dist O&M MC
879 - Customer Installations Expenses	\$8,727	Dist O&M MC
880 - Other Expenses	\$8,447	Dist O&M MC
881 - Rents	\$0	Dist O&M MC
885 - Maint Supervision & Engineering	\$0	Dist O&M MC
887 - Maintenance of Mains	\$1,237	Dist O&M MC
888 - Maintenance Of Compressor Station Eq	\$0	Dist O&M MC
889 - Maintenance of Meas. & Reg Station Eq	\$0	Dist O&M MC
892 - Maintenance of Services	\$2,998	Dist O&M MC
893 - Maint of Meters & House Regulators	\$2,258	Dist O&M MC
894 - Maintenance of Other Equipment	\$385	Dist O&M MC

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

A B C D E F G H I Annalized SRM Cost Sicustomerlyr 2024\$s \$202.44 \$		G-R	G-M	Res G-S	G-T	Total Res	NGV	GN-3	Total Core
OM Scustomer/yr FERC 870 - 894: Distribution OAM (MS) S33,728 S33,728 S42 S44 S12 S2.942 S2.44, f8 FERC 910 - B04: Distribution OAM (MS) S33,728 S41 S0 S0 S08 S08	A	-	<u> </u>			F		H	<u> </u>
FERC 01-94: Distribution 0XM (MS) \$33,728 \$32,528 \$23 \$46 \$34,621 \$12 \$2,942 \$24,846 Total Cust-Rei 0XM (MS) \$34,547 \$34,547 \$34,547 \$34,557 \$12 \$2,969 \$25,027 Z021 Number of Customer 2021's to 2024's 10,63 1,063<	Annualized SRM Cost \$/customer/yr 2024\$s	\$202.44	\$202.41	\$202.35	\$202.44	\$202.44	\$1,249.81	\$398.30	\$208.84
FERC 01-94: Distribution 0XM (MS) \$33,728 \$32,528 \$23 \$46 \$34,621 \$12 \$2,942 \$24,846 Total Cust-Rei 0XM (MS) \$34,547 \$34,547 \$34,547 \$34,557 \$12 \$2,969 \$25,027 Z021 Number of Customer 2021's to 2024's 10,63 1,063<	O&M \$/customer/vr								
FERC 901 - 910: Customer 02MI (MS) 5819 S16 S0 S0 \$828.6 S0 \$28.8 \$802 \$825.02 2021 Number of Customers 847,801 16.309 219 176 864,505 45 26,214 800,76 Cust-Rel OM (MS) \$44 \$52 \$5105 \$220 \$41 \$221 803 1.063		\$33.728	\$825	\$23	\$46	\$34.621	\$12	\$2.942	\$24,165
2021 Number of Customer's 647.801 16.309 219 176 686.605 4.5 26.214 980/76 Cust-Rei Okap Per Customer (2021%) \$41 \$52 \$1063 1.0									
Customer (2021% b) \$41 \$52 \$106 \$260 \$41 \$281 \$113 \$28 escalator 2021% b) 2024% 1.063	Total Cust-Rel O&M (M\$)	\$34,547	\$841	\$23	\$46	\$35,457	\$12	\$2,969	\$25,027
escalator 2021's to 2024's 1.063 1									890,764
O&M Scustomer/yr 2020\$s \$43.32 \$54.81 \$111.79 \$276.84 \$43.60 \$277.92 \$120.40 \$228.87 O&M Loader: inlocator Load Customer Related O&M as % of total allocator Load Customer (2016 %) escalator 2021 % to 2024 % bscalator 2024 % bscantal Customer Cost \$/customer/year bus annualized SRM mental bus a									
OBM Loaders: Materials & Supplies Loader: allocator = total Customer Related O&M as % of total Allocated Materials & Supplies Loader (\$'s) \$419,449 \$9,7% 2.2% 0.1% 0.1% 92.1% 0.0% 7.7% 65.0% 2021 Number of Customers \$376,267 \$9,157 \$2251 \$499 \$386,174 \$128 \$32,334 \$272,58 2021 Number of Customers \$376,267 \$9,157 \$2251 \$499 \$386,174 \$128 \$32,334 \$272,58 2021 Number of Customers \$30,44 \$50,66 \$1.15 \$2.84 \$0.645 \$2.25 \$1.23 \$90,31 M&S Loader \$f(customer/tyr 2024\$'s \$0.60 \$1.22 \$3.02 \$0.47 \$3.03 \$1.31 \$0.33 Administrative & General S(customer/tyr 2024\$'s \$12.10 \$15.31 \$31.23 \$77.34 \$12.18 \$77.65 \$33.64 \$38.64 General Plant as % of O&M 24.95% 24.95% 24.95% 24.95% 24.95% 24.95% 24.95% 24.95% 24.95% 24.95% 24.95% 24.95% 24.95% 24.95% <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.063</td></td<>									1.063
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Materials & Supplies Loader: allocated Materials & Supplies Loader (\$'s) \$419,449 89.7% 2.2% 0.1% 0.1% 92.1% 0.0% 7.7% 65.0% 2021 Number of Customers 2021 Number of Customers (2016 \$'s) \$419,449 \$376,267 \$9,157 \$221 \$499 \$386,174 \$128 \$323,334 \$227,58 2021 Number of Customers 2024 Sto 2024 \$'s \$0.44 \$0.56 \$1.15 \$2.284 \$0.45 \$2.65,21 \$499.0 M&S Loader per Customer (2016 \$'s) \$0.44 \$0.56 \$1.15 \$2.284 \$0.45 \$2.62,14 \$890.76 M&S Loader Scustomer/yr 2024\$'s \$0.63 1.063	O&M Loaders:								
allocator = folal 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 \$2251 \$4999 \$386,174 \$128 \$32,334 \$272,58 M&S Loader per Customer (2016 \$'s) \$0.44 \$0.56 \$1.15 \$2.84 \$0.45 \$2.25 \$1.23 \$0.31 M&S Loader per Customer (2016 \$'s) \$0.44 \$0.56 \$1.15 \$2.84 \$0.45 \$2.25 \$1.23 \$0.31 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 \$% of 0&M 27.94%									
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2021 Number of Customers 847,801 16,309 219 176 864,505 45 26,214 890,76 M&S Loader per Customer (2016 \$'s) escalator 2021 \$'s to 2024 \$'s \$0.44 \$0.56 \$1.15 \$2.84 \$0.45 \$2.85 \$1.23 \$0.31 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 \$/s wolds \$0.47 \$0.60 \$1.22 \$3.02 \$0.47 \$3.03 \$1.31 \$0.33 Administrative & General \$/s wolds \$0.47 \$0.60 \$1.22 \$3.02 \$0.47 \$3.03 \$1.31 \$0.33 General Plant as % of O&M \$27.94% <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
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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% 28.95% 24.95%	M&S Loader per Customer (2016 \$'s)	\$0.44	\$0.56	\$1.15	\$2.84	\$0.45	\$2.85	\$1.23	\$0.31
Administrative & General as % of 0&M 27.94% 28.95% 24.95	escalator 2021\$'s to 2024\$'s	1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
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	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 \$/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	Administrative & General as % of Q&M	27.94%	27 94%	27 94%	27 94%	27 94%	27.94%	27 94%	27 94%
General Plant \$/customer/yr \$10.81 \$13.67 \$27.89 \$69.06 \$10.88 \$69.33 \$30.04 \$7.45 TOTAL 0&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 \$224.83 LRMC Rental Customer Cost \$/customer/year \$269.15 \$286.79 \$374.47 \$628.70 \$269.58 \$1,677.74 \$583.69 \$254.83 LRMC Rental Customer Cost \$/customer/year \$269.15 \$286.79 \$374.47 \$628.70 \$269.58 \$1,677.74 \$583.69 \$254.83 LRMC Rental Customer Cost \$/customer/year \$269.58 \$1,677.74 \$583.69 \$254.83 less annualized SRM rental \$32.70 \$565.50 \$40.69 \$33.12 NCO with Recplacement Cost \$/customer/year \$8.32 \$269.58 \$1,677.74 \$583.69 \$254.83 LRMC Rental Customer Cost \$/customer/year \$269.58 \$1,677.74 \$583.69 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$8.35</td>									\$8.35
General Plant \$/customer/yr \$10.81 \$13.67 \$27.89 \$69.06 \$10.88 \$69.33 \$30.04 \$7.45 TOTAL 0&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 \$224.83 LRMC Rental Customer Cost \$/customer/year \$269.15 \$286.79 \$374.47 \$628.70 \$269.58 \$1,677.74 \$583.69 \$254.83 LRMC Rental Customer Cost \$/customer/year \$269.15 \$286.79 \$374.47 \$628.70 \$269.58 \$1,677.74 \$583.69 \$254.83 LRMC Rental Customer Cost \$/customer/year \$269.58 \$1,677.74 \$583.69 \$254.83 \$202.44 \$1,249.81 \$39.83 \$208.88 \$1,677.74 \$583.69 \$254.83 Issa annualized SRM rental \$32.70 \$565.50 \$40.69 \$33.12 NCO with Recplacement Cost \$/customer/year \$8.32 \$269.58 \$1,677.74 \$583.69	General Plant as % of O&M	24.95%	24 95%	24.95%	24 95%	24.95%	24 95%	24 95%	24 95%
TOTAL 0&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 NCO Method: \$22.47 \$269.58 \$1,677.74 \$583.69 \$254.83 Iss annualized SRM rental plus annualized SRM NCO \$269.58 \$1,677.74 \$583.69 \$254.83 NCO Customer Cost \$/customer/year \$269.58 \$1,677.74 \$583.69 \$254.83 Iss annualized SRM rental plus annualized SRM NCO \$32.70 \$56.50 \$40.69 \$33.12 NCO with Recplacement Cost \$/customer/year \$99.84 \$484.43 \$226.08 \$79.11 IRMC Rental Customer Cost \$/customer/year \$8.32 \$8.32 \$8.32 \$8.32 NCO with Recplacement Cost Adder Method: \$269.58 \$1,677.74 \$583.69 \$254.83 IRMC Rental Customer Cost \$/customer/year \$269.58 \$1,677.74 \$583.69 \$254.83 IRMC Rental Customer Cost \$/customer/year									
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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) (\$208.8 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 NCO with Recplacement Cost Adder Method: \$8.32 \$229.54 \$1,677.74 \$583.69 \$254.83 LRMC Rental Customer Cost \$/customer/year \$269.58 \$1,677.74 \$583.69 \$254.83 LRMC Rental Customer Cost \$/customer/year \$269.58 \$1,677.74 \$583.69 \$254.83 LRMC Rental Customer Cost \$/customer/year \$269.58 \$1,677.74 \$583.69 \$254.83 less annualized SRM rental \$202.44) \$1,249.81) \$389.30) \$280.88 plus annualized SRM \$229.54 \$676.12 \$298.19 \$231.77 NCO w/ Replacement Customer Cost \$/cstmr/yr \$296.68 \$1,104.05 \$483.57 \$277.77						\$22.47			
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						\$296.66	φ1,104.0 θ	₹403.3 <i>1</i>	φ ζιι.Π

GTNC		T . (.)	EG		- . (.)	Total	System
MPD	HPD	Total	< 3 MM	> 3 MM	Total	Noncore	Total
J	K	L	М	N	0	Р	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	\$29	\$20	\$8	\$28	\$57	\$37,633
\$5	\$2	\$7	\$8	\$1	\$9	\$16	\$878
\$31	\$6	\$37	\$28	\$10	\$38	\$73	\$38,512
48	10	58	71	10	81	139	890,903
\$639	\$631	\$630	\$395	\$959	\$465	\$528	\$43
1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
\$679.01	\$671.36	\$669.59	\$420.32	\$1,019.36	\$494.28	\$561.11	\$45.96
0.1%	0.0%	0.1%	0.1%	0.0%	0.1%	0.2%	100.0%
\$334	\$69	\$398	\$306	\$104	\$410	\$799	\$273,380
48	10	58	71	10	81	139	890,903
\$6.96	\$6.88	\$6.86	\$4.31	\$10.44	\$5.06	\$5.75	\$0.31
1.063	1.063	1.063	1.063	1.063	1.063	1.063	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	\$167.48	\$167.04	\$104.85	\$254.29	\$123.30	\$139.98	\$11.46
\$366.49	\$362.36	\$361.41	\$226.87	\$550.19	\$266.78	\$302.86	\$24.63
\$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	\$4,726.80	\$3,267.40	\$1,634.41	\$3,922.78	\$1,957.36	\$2,446.98	\$279.65
(\$2,098.99)	(\$3,693.07)	(\$2,236.41)	(\$987.22)	(\$2,353.22)	(\$1,196.30)	(\$1,583.01)	(\$209.07)
\$67.53	\$65.18	\$67.33	\$37.48	\$42.07	\$12.88	\$29.08	\$29.0
\$1,113.03	\$1,098.90	\$1,098.32	\$684.66	\$1,611.62	\$773.94	\$893.05	\$99.67
\$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)	(\$3,693.07)	(\$2,236.41)	(\$987.22)	(\$2,353.22)	(\$1,196.30)	(\$1,583.01)	(\$209.07)
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
\$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:

Col. (F) = Col. (C) + Col. (D) + Col. (E).
 MSA costs expressed in Year 2020 \$'s.
 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	Meter, Regulator,	Meter & Regulator	Installation	Installation Costs	Weighted Average	
	Flow Range	& Fitting Costs	RECC Factor	Costs	RECC Factor	RECC Factor	
	Α	В	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	egulator		1	Pipe & Ir	nstallation	1	Total SRM	
	Max Meter	Meter	M&R	RECC	Annualized	Service	Service	RECC	Annualized	Annualized	
	Flow Range	Туре	Cost	Factor	Marg. Invstmt.	Туре	Cost	Factor	Marg. Invstmt.	Marg. Invstmt.	
	A	В	С	D	E	F	G	Н	I	J	
	Cfh		(Dollars)	(Percent)	(Dollars)		(Dollars)	(Percent)	(Dollars)	(Dollars)	
	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											12
	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, 1	1/20/2020
Water Heating	\$1,138
Oven/Range	\$201
Space Heating	\$987
Dryer Stub	\$289
Total	\$2,615

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

MSA ASSIGNMENT FACTORS BY CUSTOMER CLASS 2024 TCAP

	Max Meter	Meter	0.0	<u></u>	Res	0 -	Tatal	NOV	011.0	Total		GTNC	Titil		EG	Tatal	Total	System	
	Flow Range	Туре	G-R	G-M	G-S	G-T	Total	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Noncore	Total	
	A	В					С	D	E	F	G	Н		J	K	L	N	0	
	Cfh																		
1	Medium Pressure		98%	2%	0%	0%													
2	0-275	250	803,776	12,932	85	5	816,798	11	12,290	829,099			-	1		1	1	829,100	2
2	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	29	2	11,723		2,071	13,822						-		13,822	4
5	631 - 800	8C	7,706	545	18	4	8,273	- 1	2,033	10,411						-	_	10,411	5
ĕ	801 - 1,100	11C	3,127	467	29	4	3,627	2	1.887	5,516	- I	-		-	-	-	-	5,516	6
7	1.101 - 1.500	15C	990	206		4	1,205		1,253	2,458	- I	-		-	-	-	-	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	-	1	10	-	10	11	929	10
11	5.001 - 7.000	7M	8	27	5	22	62	5	324	391	7	-	7	7	-	7	14	405	11
12	-, ,																		12
13	High Pressure																		13
14	0 - 940	400	0	0	0	0	-	-	1	1	-	-	-	1	-	1	1	2	14
15	941 - 1,050	8C	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	15
16	1,051 - 1,500	630	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	16
17	1,501 - 2,700	2M	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	17
18	2,701 - 4,000	3M	0	0	0	0	-	-	-	-	-	-	-	-	1	1	1	1	18
19	4,001 - 6,600	5M	0	0	0	0	-	-	-	-	1	-	1	-	-	-	1	1	19
20	6,601 - 9,200	7M	0	0	0	0	-	1	1	2	1	-	1	-	4	4	5	7	20
21	9,201 - 14,500	11M	2	27	8	31	68	-	269	337	7	2	9	3	-	3	12	349	21
22	14,501 - 21,400	16M	4	24	3	13	44	11	147	202	15	-	15	1	-	1	16	218	22
23	21,401 - 24,000	11M-HP	0	3	1	0	4	3	11	18	4	-	4	-	1	1	5	23	23
24	24,001 - 46,000	16M-HP	0	0	0	0	-	5	52	57	7	4	11	3	1	4	15	72	24
25	46,001 - 79,000	23M-HP	0	0	0	0	-	1	9	10	3	2	5	3	3	6	11	21	25
26	79,001 - 377,000	8" Turbine	0	0	0	0	-	-	2	2	2	2	4	-	-	-	4	6	26
27	377,001 - 600,000	Turbine	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	27
28	600,001 - 4,250,000	Turbine	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	28
29	> 4,250,000	Turbine	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	29
30 31	Total Customers		847,801	16,309	219	176	864,505	45	26,214	890,764	48	10	58	71	10	81	139	890,903	30 31

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

DEMAND DETERMINANT SUMMARY

			Res			l				GTNC			EG		Power		
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
А	В	С	D	Е	F	G	Н	Ι	J	K	L	М	Ν	0	Р	Q	R
CAP Customers 2021Customers	891,788 847,801	17,155 16,309			909,359 864,505	36 45	30,488 26,214	939,883 890,764	53 48	5 10	58 58	83 71	15 10	98 81	-	156 139	940,039 890,903

						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
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
00		000,001		33,400	,0/1	.0	.0	•			,

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	
		B	G-R	G-IVI	6-3	6-1	C	D	E E	Cole	G	H	TOLAI			TOLAI	NUTCOLE	10tai	
	Cfh	D					<u> </u>	D	L	1	9			5	K	L			<u> </u>
	0																		1
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/		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	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	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
18 19	2,701 - 4,000 4,001 - 6,600	3M 5M	0.00% 0.00%	0.00% 2.08%	0.00% 0.00%	0.00% 1.72%	0.00% 0.00%	10.00% 0.00%	1.23% 0.00%	0.72% 0.72%	0.00% 0.00%	18 19							
-	4,001 - 6,600 6,601 - 9,200	51VI 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%	0.00% 4.94%	0.72% 3.60%	0.00%	20
20 21	9,201 - 14,500	11M	0.00%	0.00%	0.00% 3.65%	17.61%	0.00%	0.00%	1.03%	0.00%	2.08%	20.00%	15.52%	4.23%	40.00%	4.94%	3.60% 8.63%	0.00%	20
21	9,201 - 14,500 14,501 - 21,400	16M	0.00%	0.17%	1.37%	7.39%	0.01%	24.44%	0.56%	0.04%	31.25%	20.00%	25.86%	4.23%	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%	0.02%	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	.,,																		30
31	Total Customers		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	31

Notes:

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

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

FORECAST CUSTOMERS BY METER TYPE BY CUSTOMER CLASS 2020 TCAP

	Max Meter 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	Power Plant	Total Noncore	System Total	
	A Flow Range	B	G-R	G-IVI	6-3	G-1	C	D	GN-3	Cole	G	H	TOLAI		× 3 IVIIVI K	TOLAI	М	Noncore	O	
	Cfh						C	D		Г	9		<u> </u>	J	K	<u> </u>	IVI	IN	0	
1	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	2
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	17	-	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	-	-	-	-	-	4	60	65	8	2	10	4	2	5	-	15	79	24
25	46,001 - 79,000	23M-HP	-	-	-	-	-	1	10	11	3	1	4	4	5	8	-	12	24	25
26	79,001 - 377,000	8" Turbine	-	-	-	-	-	-	2	2	2	1	3	-	-	-	-	3	6	26
27	377,001 - 600,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
28	600,001 - 4,250,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
29	> 4,250,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29
30 31	Total Customers		891,788	17,155	230	185	909,359	36	30,488	939,883	53	5	58	83	15	98	-	156	940,039	30 31

Notes:

1. 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		GTNC			EG		Power	Total	System
	Flow Range	Туре	G-R	G-M	G-S	G-T	Total	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Plant	Noncore	Total
	A	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S
	Cfh											(Doll	ars)	1					
1	Medium Pressure																		
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
	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
.	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
;	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
;	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
,	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
3	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
	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
0	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
1	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
2																			
3	High Pressure																		
1	0 - 940	400	\$0	\$0	\$0	\$0	\$0	\$0	\$527	\$527	\$0	\$0	\$0	\$530	\$0	\$530	\$0	\$530	\$1,057
5	941 - 1,050	8C	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	1,051 - 1,500	630	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	1,501 - 2,700	2M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
в	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
9	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
0	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
1	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
2	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
3	21,401 - 24,000	11M-HP	\$0	\$639	\$213	\$0	\$852	\$5,933	\$31,407	\$38,192	\$10,843	\$0	\$10,843	\$0	\$3,682	\$3,682	\$0	\$14,525	\$52,717
4	24,001 - 46,000	16M-HP	\$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
5	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
6	79,001 - 377,000	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
7	377,001 - 600,000	Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
в	600,001 - 4,250,000	Turbine																	
9	> 4,250,000	Turbine																	
0	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
1	Forecast Customers		891,788	17,155	230	185	909,359	36	30,488	939,883	53	5	58	83	15	98	-	156	940,039
2																			
3	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

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

		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	К	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	\$3,305	\$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						1.17												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	Allocation (mp)	\$5,510	ψ4,000	ψ10 <u>2</u>	ų,	ψ10	φ4,704	τų	ψ1 4 0	ψ0,400	ψΠ	ΨZ	ψIO	ψŪ	ΨŦ	ψīz	ψ20	<i>\\</i> 0,010	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
	Allocation (Mis)	φ0,727	φ1,301	\$15 <i>1</i>	<i>4</i> 0	φJ	\$1,013	ψı	\$355	φU	ψŪ	ψŪ	φU	φU	φU	اتې	φU	\$0,200	15
15	Allegeter, Total of other Distribution ORM Operation	56%	87%	2%	0%	0%	90%	0%	8%	55%	00/	0%	0.04	0%	0.0/			00%	
16 17	Allocator - Total of other Distribution O&M Operating			2% \$180		\$10			8% \$658	55% \$4,685	0%		0%	0% \$4	0% \$2	0% \$6	0% \$12	98%	16
	Allocation (M\$)	\$8,447	\$7,381	\$180	\$5	\$10	\$7,576	\$3	8006	\$4,085	\$5	\$1	\$6	\$4	\$2	9¢	\$12	\$8,249	17 18
18	881 - Rents = Non-Marginal Designation																		
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%		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%		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																			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%		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

					O GAS AND	BLE LRMCC-9 DELECTRIC - G for Distribution 10 TCAP												
	Allocation Method	G-R	G-M	Res G-S	G-T	Total	NGV	GN-3	Total Core	MPD	GTNC HPD T	otal	< 3 MM	EG > 3 MM	Total	Total Noncore	System Total	
	A	В	С	D	E	F	G	Н	1	J	K L		М	N	0	P	Q	
1 2 3 4 5 6 7 8	 874, 887, 892 - Services Allocator - Customers Wtd by Services costs (M\$) Alloc % 878, 893 - Meters & House Regulators O&M Expense Allocator - Customers Wtd by Meters & Regs costs (M\$) Alloc %	\$2,993,497 94% \$287,790 83%	\$58,557 2% \$10,240 3%	\$942 0% \$431 0%	\$1,347 0% \$980 0%	\$3,054,343 96% \$299,441 86%	\$330 0% \$258 0%	\$112,801 4% \$47,204 14%	\$3,167,475 100% \$346,904 100%	\$763 0% \$679 0%	\$114 0% \$125 0%	\$876 0% \$804 0%	\$524 0% \$533 0%	\$224 0% \$231 0%	\$749 0% \$764 0%	\$1,625 0% \$1,568 0%	\$3,169,100 100% \$348,472 100%	1 2 3 4 5 6 7 8
9 10 11	879 - Customer Installations (M\$) Allocator - Customer Service Alloc %	\$9,991 86.0%	\$209 1.8%	\$4 0.0%	\$7 0.1%	\$10,211 87.9%	\$2 0.0%	\$789 6.8%	\$11,003	\$0 0.0%	\$0 0.0%	\$0	\$0 0.0%	\$0 0.0%	\$0 0.0%	\$0 0.0%	\$11,615 95%	9 10 11

Data Sources: tab: M&HR Alloc

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

ALLOCATION OF CUSTOMER 0&M EXPENSES BY CUSTOMER CLASS 2020 TCAP

	Total	1			Total	L	GTNC		1	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	
Α	В	С	D	E	F	G	Н	1	J	К	L	M	N	0	
FIELD SERVICES Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	so	\$0	\$0	\$0	l \$0	\$0	
CUSTOMER CONTACT Total	\$9.845	\$9,269	\$0	\$576	\$9.845	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9.845	
METER READING Total	\$120,838	\$117,160	\$6	\$3.652	\$120,818	\$7	\$2	\$9	\$10	\$1	\$11	\$0	\$20	\$120.838	
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	
CREDIT & COLLECTIONS Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	- 6
BUSINESS ANALYSIS Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	6
CUSTOMER RESEARCH & COMMUNICATION Total	\$157,128	\$152,347	\$8	\$4,749	\$157,104	\$8	\$2	\$10	\$13	\$2	\$14	\$0	\$24	\$157,128	7
CUSTOMER SERVICE TECHNOLOGY & SUPPORT Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	8
C&I CUSTOMER SERVICE Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
CONSUMER PROGRAMS & SERVICES Total	\$192,630	\$186,767	\$9	\$5,822	\$192,599	\$10	\$3	\$14	\$15	\$2	\$18	\$0	\$31	\$192,630	1
FEDERAL ACCOUNTS MANAGEMENT Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1
CUSTOMER SERVICES SUPPORT STAFF Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1
COMMUNITY OUTREACH & INFO SERVICES Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1
OTHER Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1
5 SVP COST CENTERS Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1
															11
7 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
3 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.xis 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	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	
		- iype	-	0-1	5-101		G	H	1107	014-5	COIE	IVIE D	M	10tai	< 3 IVIIVI 0		Q	NUTCOLE	S	
	Cfh	D	С	U	E	г	6	п	1	(Thousand	N Dollare)	L	IVI	IN	0	F	Q	ĸ		
	CIII		1					i i		(Thousand	Dollars)			1				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	ŝõ	\$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	ЗM	\$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
13	High Pressure																			13
14	0 - 940	400	\$3	\$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	\$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	\$3	\$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 9,201 - 14,500	7M	\$7	\$0	\$0 \$364	\$0	\$0	\$0	\$6	\$8	\$14	\$8	\$0	\$8	\$0	\$42	\$42	\$50 \$157	\$64	20
21 22	9,201 - 14,500 14,501 - 21,400	11M 16M	\$13 \$13	\$27 \$54	\$364 \$324	\$108 \$40	\$418 \$175	\$917 \$593	\$0 \$114	\$4,009 \$2,191	\$4,926 \$2,898	\$99 \$212	\$13 \$0	\$112 \$212	\$45 \$15	\$0 ©0	\$45 \$15	\$157 \$227	\$5,083 \$3,125	21 22
22	21,401 - 24,000	11M-HP	\$13	\$0 \$0	\$324 \$49	\$40 \$16	\$175	\$593 \$65	\$114	\$2,191	\$2,898 \$302	\$212	\$0 \$0	\$212 \$69	\$15	\$0 \$23	\$15 \$23	\$227	\$3,125	22
23	24.001 - 46.000	16M-HP	\$16	\$0	\$49 \$0	\$10	\$0 \$0	\$05	\$63	\$939	\$302	\$120	\$0 \$31	\$151	\$54	\$23	\$23	\$92 \$229	\$394 \$1.231	23
24 25	46.001 - 79.000	23M-HP	\$28	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$22	\$290	\$312	\$120	\$28	\$119	\$97	\$25	\$222	\$229	\$653	24
25	79.001 - 377.000	8" Turbine	\$42	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$98	\$98	\$93	\$42	\$135	\$0	\$125	\$0	\$135	\$233	26
20	377.001 - 600.000	Turbine	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$133	\$0	\$0 \$0	\$0 \$0	\$133	\$233	27
28	600.001 - 4.250.000	Turbine	ψŪ	φυ	φυ	ψŪ	φυ	φυ	φŪ	φυ	φυ	φυ	ψŪ	ψŪ	φυ	φυ	φΰ	ψŪ	ψυ	28
29	> 4.250.000	Turbine																		29
30	4,200,000	, arbitic																		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
				+=,==0,=0		**** *	+ .,0+1		4000			\$100	÷114	\$0.0	024	744 -1	\$1.40	\$1,020		_

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	MSA Capital	G-R		Res G-S	0.1	Total	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	EG > 3 MM	Total	Total Noncore	System Total	
	Flow Range	Туре	Investment	G-R	G-M	6-5	G-T	Iotai	NGV	GN-3	Core	MPD		Iotai	< 3 MM	> 3 MM		Noncore	Iotai	
	Cfh	В	C	D	E	F	G	н		J (Thousand [K Dellere)	L	М	N	0	Р	Q	R	5	
	CIII		1					1		(Thousand L	Joliais)			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	ŝõ	\$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
	High 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	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 24,001 - 46,000	11M-HP 16M-HP	\$16 \$17	\$0 \$0	\$51 \$0	\$17 \$0	\$0 \$0	\$68	\$39 \$69	\$207	\$314 \$1.105	\$71 \$132	\$0 \$34	\$71 \$167	\$0 \$60	\$24 \$26	\$24 \$86	\$96 \$252	\$409 \$1,357	23 24
24 25	24,001 - 46,000 46.001 - 79.000	23M-HP	\$17	\$U \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$69	\$1,036 \$305	\$1,105	\$132	\$34 \$29	\$167	\$60	\$20 \$131	\$80 \$234	\$252	\$1,357	24 25
25 26	46,001 - 79,000 79.001 - 377.000	23M-HP 8" Turbine	\$29 \$53	\$U \$0	\$0 \$0	\$0 \$0	\$U \$0	\$0	\$Z3 60	\$305	\$329 \$123	\$97 \$117	\$29 \$53	\$126	\$102	\$131	\$234 \$0	\$359	\$088 \$294	25
20	377.001 - 600.000	Turbine	\$0	\$0 \$0	\$0	\$0 \$0	\$U \$0	\$0	\$U \$0	\$123	\$123 \$0	\$117	\$03 \$0	\$170	\$0 \$0	\$0 \$0	\$0 \$0	\$170	\$294	20
27	600.001 - 4.250.000	Turbine	\$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	27
20	> 4.250.000	Turbine	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$U \$0	\$0 \$0	\$0	\$0 \$0	20
30	- 4,230,000	TUDITIE	ŞU	ψŪ	φU	ψŪ	φU	ψU	ψŪ	ψŪ	φU	φU	ŞU	ŞU	φU	4 0	φU	φU	φU	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	

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

Data Sources: tabs: MSA Cost, MSA Fcst

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

WEIGHTED MSA PVRR FACTOR 2024 TCAP

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

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

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

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

			Meter &	Regulator		Pipe &	Installation				l. I	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	D	E	F	G		Н	I		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	Poly-1"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	115
5	631 - 800	8C	\$1,481	131.27%		Poly-1"	\$3,357	\$2,615	125.07%	\$4,198	\$3,271	82
6	801 - 1,100	11C	\$1,568	131.36%	\$2,060		\$3,357	\$2,615	125.07%	\$4,198	\$3,271	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%	\$5,889		\$3,357	\$2,615	125.07%	\$4,198	\$3,271	6
9	2,001 - 3,000	3M	\$4,398	130.03%	\$5,719		\$3,357	\$2,615	125.07%	\$4,198	\$3,271	6
10	3,001 - 5,000	5M	\$5,340	130.55%		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		\$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		\$3,357	\$2,615	125.07%	\$4,198	\$3,271	-
17	1,501 - 2,700	2M	\$5,020	130.39%	\$6,546		\$3,357	\$2,615	125.07%	\$4,198	\$3,271	-
18	2,701 - 4,000	3M	\$4,892	130.33%		Poly-2"	\$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%		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	Meter, Regulator,	Meter & Regulator	Installation	Installation Costs	Weighted Average	
	Flow Range	& Fitting Costs	Book Life	Costs	Book Life	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)] ÷ [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

		Meter & Regulator Replacement					Repla	1	Number of	Total SRM		
Max Meter	Meter	M&R	PVRR	Replacement	Replacement	Service	Service	PVRR	Replacement	Replacement	Existing	Annual Cost
Flow Range	Туре	Cost	Factor	Investment	Rate	Туре	Cost	Factor	Investment	Rate	Customers	Replacement
А	В	С	D	E	F	G	Н	1	J	K	L	М
Cfh		(Dollars)	(Percent)	(Dollars)	(Percent)		(Dollars)	(Percent)	(Dollars)	(Percent)		(Dollars)
Medium Pressure												
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
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
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
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
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
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
1,501 - 2,000	2M	\$3,005	124.49%	\$3,741	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	1,683	\$573,143
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
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
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
					-							
High Pressure												
0 - 940	400	\$1,561	124.49%	\$1,943	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	2	\$588
941 - 1,050	8C	\$3,326	124.49%	\$4,141			\$12,711	125.07%	\$15,899	1.5%	-	\$0
1.051 - 1.500	630	\$1,951	124.49%	\$2,429	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	-	\$0
1.501 - 2.700	2M	\$3,498	124.49%	\$4,355	2.6%		\$12,711	125.07%	\$15,899	1.5%	-	\$0
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
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
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
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
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
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
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
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
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
377,001 - 600,000	Turbine	\$0	0.00%	\$0	2.5%	Steel-8"	\$0 \$0	125.07%	\$00,700	1.5%	-	\$0
600.001 - 4.250.000	Turbine	\$0 \$0	0.00%	\$0 \$0	2.5%	Steel-16"		125.07%	φυ	1.5%		\$0 \$0
> 4,250,000	Turbine	\$0 \$0	0.00%	\$0 \$0		Steel-24"		125.07%	\$0	1.5%		\$0 \$0

Notes:

Col. (E) = Col. (C) x Col. (D).
 Col. (J) = Col. (H) x Col. (I).
 Col. (J) = Col. (H) x Col. (I).
 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)]
 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)]
 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)]
 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)]
 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)]

0.00% 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

					s	AN DIEGO GA	TABLE LRMCC		TMENT						
		FORECAST NEW HOOKUPS FOR 2023-2027 2024 TCAP													
	Customer Class	Year-E	nd	2024	Year-E 2024	nd	2025 _	Year-E 2025	and	2026 _	Year-E 2026	nd	2027 Hookups	Average Annual New Hookups	
	A	B	C	D	E	F	G	E	F	G	E	F	G	Н	
	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	1
3	Core C&I - GN3 Noncore C&I - GTNC	30,378 50	30,424 50	46	30,424 50	30,467 50	43	30,467 50	30,510 50	43	30,510 50	30,549 50	39	43	3
5	EG - Cogen Power Plants	96 -	96 -	-	96 -	96 -	-	96 -	96 -	-	96 -	96 -	-	:	5
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:

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

Note:

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

verify	8,246	0	43	8,289	-	-	-	-	-	-	-	8,289
Data Sources: Tabs: MSA Cost, MSAlloc v2												

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

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

	Max Meter 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	EG > 3 MM	Total	Total Noncore
	A	B	С	-	D		E	F	G	Н	1	J	К	L	М	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 \$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 \$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 \$477	\$8,595	\$44	\$52,441 \$36,196	\$63,555 \$42,921	\$0 \$45	\$0 \$0	\$0 \$45	\$256 \$481	\$0	\$0 \$0	\$0 \$45
9 10	3,001 - 5,000 5,001 - 7,000	5M 7M	\$41 \$40	\$27 \$26	\$477 \$223	\$6,149 \$2,289	\$99 \$162	\$36,196	\$42,921 \$17.858	\$45 \$311	\$0 \$0	\$45 \$311	\$481 \$330	\$0 \$0	\$0 \$0	\$45 \$311
11	5,001 - 7,000	7 IVI	\$4U	¢20	\$ZZ3	\$Z,209	\$10Z	\$15,164	\$17,000	\$311	φU	\$311	\$33U	\$U	φU	\$311
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 \$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	\$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	\$0
27	600,001 - 4,250,000	Turbine														
28	> 4,250,000	Turbine			*		*• • • • •	A 1 A1A AAA	001 101 570	<u> </u>	0000	00 005		\$ 001	0 1 000	0 4 500
29	Total				\$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	36	30,488	939,883	53	5	58	83	15	98	156
31 32	Average SRM Cost				\$33	\$41	\$57	\$41	\$33	\$68	\$65	\$67	\$37	\$42	\$13	\$29

Notes:

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

	Type S B	C C SRM Invstmt SF	RM Invstmt	Res					Total		GTNC			EG			Total	System
	В	C.		1,00	Other Res	Res	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	< 3 MM	> 3 MM	Total	Noncore	Total
Cfh		0		D		D	E	F	G	Н		J	К	L	M	N	0	Р
		(Dollars)													T			
1 Medium Pressure																		
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
3 276 - 425	425	\$246	\$238	\$5,176,862	\$278,679	\$5,455,541	\$0	\$591,951	\$6,047,492	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,047,492
	630	\$300	\$293	\$3,420,625	\$196,062	\$3,616,687	\$0	\$732,714	\$4,349,401	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,349,401
4 631 - 800	8C	\$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
5 801 - 1,100	11C	\$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
6 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
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
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
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
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 High Pressure																		
	400	\$257	\$257	\$0	\$0	\$0	\$0	\$299	\$299	\$0	\$0	\$0	\$301	\$301	\$0	\$301	\$0	\$299
14 941 - 1,050	8C	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	630	\$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	11M	\$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	16M	\$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 11N		\$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 16N		\$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 23N		\$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 Tu		\$2,792	\$2,763	\$0	\$0	\$0	\$0	\$6,493	\$6,493	\$6,165	\$2,792	\$8,956	\$0	\$0	\$0	\$0	\$8,956	\$15,450
26 377,001 - 600,000 Tu		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
27 600,001 - 4,250,000 Tu																		
28 > 4,250,000 Tu	urbine																	
29 Total						\$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
30 Forecast Customers						909,359	36	30,488	939,883	53	5	58	83	15	98	-	156	940,039
31 32 Average SRM Cost						\$230	\$676	\$298	\$232	\$0	\$0	\$0	\$0	\$0	\$0	\$0	so	\$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 Natural Gas Vehicle	\$398 \$1,250								
Noncore Commercial/Industrial Small Electric Generation	\$2,236 \$987								
Large Electric Generation	\$907 \$2,353								

CUSTOMER	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	\$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	8.02%								
Meter/Regulator Installation	8.36%								
Service Line Pipe	7.37%								
Weighted-Average Distribution	7.37%								
Materials and Supplies	13.12%								

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	\$36,807	\$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							

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	\$410,554 \$34,375 \$136 \$423 \$325 \$111	864,505 26,214 45 58 71 10	\$0.47 \$1.31 \$3.03 \$7.29 \$4.58 \$11.10							
Distribution Function	Allocated M&S	Peak-day Load (mcfd)	M&S Loader \$/mcfd							
Medium-Pressure High-Pressure	\$644,432 \$166,452	440,066 462,002	\$1.46 \$0.36							

TA	BLE 4		
DISTRIBUTION-RELATED DIR	ECT MARC	SINAL O&N	I EXPENSES
(2	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

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		O&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

Α	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	\$3,782	Dist O&M MC
871 - Distribution Load Dispatching	\$19	Dist O&M MC
874 - Mains & Services Expenses	\$5,421	Dist O&M MC
875 - Measuring & Regulating Station Expenses	\$0	Dist O&M MC
878 - Meter & House Regulator Expenses	\$5,510	Dist O&M MC
879 - Customer Installations Expenses	\$8,727	Dist O&M MC
880 - Other Expenses	\$8,447	Dist O&M MC
881 - Rents	\$0	Dist O&M MC
885 - Maint Supervision & Engineering	\$0	Dist O&M MC
887 - Maintenance of Mains	\$1,237	Dist O&M MC
888 - Maintenance Of Compressor Station Eq	\$0	Dist O&M MC
889 - Maintenance of Meas. & Reg Station Eq	\$0	Dist O&M MC
892 - Maintenance of Services	\$2,998	Dist O&M MC
893 - Maint of Meters & House Regulators	\$2,258	Dist O&M MC
894 - Maintenance of Other Equipment	\$385	Dist O&M MC

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

	G-R	G-M	Res G-S	G-T	Total Res	NGV	GN-3	Total Core
A	B	<u>C</u>	0-0	E	F	G	H	1
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	\$272,50
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	<u></u>	\$10.85	\$77.10	\$30.78	24.95%
TOTAL O&M LOADERS \$/customer/yr	\$23.30	\$30.52	\$68.94	\$190.32	\$10.85 \$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
	\$212.00	V2 +1.0+	\$012.00		\$17.76	\$1,010104		<i><i><i></i></i></i>
NCO Method:								
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)	(\$150.3
plus annualized SRM NCO					\$24.54	\$50.37	\$24.89	\$24.51
NCO Customer Cost \$/customer/year					\$91.52	\$526.24	\$214.85	\$70.49
NCO with Recplacement Cost Adder Method:					\$7.63			
LRMC Rental Customer Cost \$/customer/year					\$213.08	\$1,678.94	\$464.68	\$196.29
					(\$146.10)	(\$1,203.07)	(\$274.73)	(\$150.3
less annualized SRM rental					$(\psi_1 + 0.10)$	(ψι,∠00.07)	(4217.10)	(0100.0
less annualized SRM rental						\$669.99	\$282.38	\$223.18
less annualized SRM rental plus annualized SRM NCO w/ Replacement Customer Cost \$/cstmr/yr					\$221.18 \$288.16	\$669.99 \$1,145.86	\$282.38 \$472.34	\$223.18 \$269.16

GTNC		T . (.)	EG		- . (.)	Total	System
MPD	HPD	Total	< 3 MM	> 3 MM	Total	Noncore	Total
J	K	L	М	N	0	Р	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
ψ0.24	φ1.9Z	φ0.10	φ4.04	φ12.30	φ 5 .70	φ0.07	φ0.00
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 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:

Col. (F) = Col. (C) + Col. (D) + Col. (E).
 MSA costs expressed in Year 2020 \$'s.
 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	F	F	
	Cfh	(Dollars)	(Percent)	(Dollars)	(Percent)	(Percent)	
1	Medium Pressure	()	(*******)	()	(,	(,	1
2	0-275	\$201.92	8.02%	\$79.05	8.36%	8.12%	2
3	276 - 425	\$552.79	8.02%	\$147.95	8.36%	8.09%	3
4	426-630	\$942.70	8.02%	\$147.95	8.36%	8.07%	4
5	631 - 800	\$1,184.83	8.02%	\$295.89	8.36%	8.09%	5
6	801 - 1,100	\$1,272.08	8.02%	\$295.89	8.36%	8.08%	6
7	1,101 - 1,500	\$1,959.59	8.02%	\$965.32	8.36%	8.13%	7
8	1,501 - 2,000	\$3,004.61	8.02%	\$1,521.50	8.36%	8.13%	8
9	2,001 - 3,000	\$2,876.82	8.02%	\$1,521.50	8.36%	8.14%	9
10	3,001 - 5,000	\$3,818.62	8.02%	\$1,521.50	8.36%	8.12%	10
11	5,001 - 7,000	\$4,135.22	8.02%	\$1,521.50	8.36%	8.11%	11
12							12
13	High Pressure						13
14	0 - 940	\$1,560.80	8.02%	\$965.32	8.36%	8.15%	14
15	941 - 1,050	\$3,326.33	8.02%	\$1,521.50	8.36%	8.13%	15
16	1,051 - 1,500	\$1,950.71	8.02%	\$965.32	8.36%	8.13%	16
17	1,501 - 2,700	\$3,498.37	8.02%	\$1,521.50	8.36%	8.12%	17
18	2,701 - 4,000	\$3,370.57	8.02%	\$1,521.50	8.36%	8.13%	18
19	4,001 - 6,600	\$4,823.01	8.02%	\$1,736.02	8.36%	8.11%	19
20	6,601 - 9,200	\$5,428.28	8.02%	\$1,736.02	8.36%	8.10%	20
21	9,201 - 14,500	\$5,971.25	8.02%	\$2,040.68	8.36%	8.11%	21
22	14,501 - 21,400	\$6,100.56	8.02%	\$2,040.68	8.36%	8.10%	22
23	21,401 - 24,000	\$11,792.33	8.02%	\$4,360.50	8.36%	8.11%	23
24	24,001 - 46,000	\$12,722.16	8.02%	\$4,406.99	8.36%	8.11%	24
25	46,001 - 79,000	\$21,019.90	8.02%	\$8,145.67	8.36%	8.11%	25
26	79,001 - 377,000	\$41,020.86	8.02%	\$12,055.79	8.36%	8.10%	26
27	377,001 - 600,000					8.10%	27
28	600,001 - 4,250,000					8.10%	28
29	> 4,250,000					8.10%	29

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

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

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

			Meter & R					nstallation		Total SRM	
	Max Meter	Meter	M&R	RECC	Annualized	Service	Service	RECC	Annualized	Annualized	
	Flow Range	Туре	Cost	Factor	Marg. Invstmt.	Туре	Cost	Factor	Marg. Invstmt.	Marg. Invstmt.	
	A	В	С	D	E	F	G	Н		J	
	Cfh		(Dollars)	(Percent)	(Dollars)		(Dollars)	(Percent)	(Dollars)	(Dollars)	
1 2	Medium Pressure 0-275	250	\$281	8.12%	\$23	Poly-1"	\$1.573	7.37%	\$116	\$139	1 2
3	276 - 425	425	\$701	8.09%	\$57	Poly-1"	\$1,573	7.37%	\$116	\$173	3
4	426-630	630	\$1,091	8.07%	\$88	Poly-1"	\$1,573	7.37%	\$116	\$204	4
5	631 - 800	8C	\$1,481	8.09%	\$120	Poly-1"	\$1,573	7.37%	\$116	\$236	5
6	801 - 1,100	11C	\$1,568	8.08%	\$127	Poly-1"	\$1,573	7.37%	\$116	\$243	6
7	1,101 - 1,500	15C	\$2,925	8.13%	\$238	Poly-1"	\$1,573	7.37%	\$116	\$354	7
8	1,501 - 2,000	2M	\$4,526	8.13%	\$368	Poly-1"	\$1,573	7.37%	\$116	\$484	8
9	2,001 - 3,000	3M	\$4,398	8.14%	\$358	Poly-1"	\$1,573	7.37%	\$116	\$474	9
10	3,001 - 5,000	5M	\$5,340	8.12%	\$433	Poly-2"	\$7,059	7.37%	\$520	\$954	10
11	5,001 - 7,000	7M	\$5,657	8.11%	\$459	Poly-2"	\$7,059	7.37%	\$520	\$979	11
12											12
13	High Pressure										13
14	0 - 940	400	\$2,526	8.15%	\$206	Poly-1"	\$1,573	7.37%	\$116	\$322	14
15	941 - 1,050	8C	\$4,848	8.13%	\$394	Poly-1"	\$1,573	7.37%	\$116	\$510	15
16	1,051 - 1,500	630	\$2,916	8.13%	\$237	Poly-1"	\$1,573	7.37%	\$116	\$353	16
17	1,501 - 2,700	2M	\$5,020	8.12%	\$408	Poly-1"	\$1,573	7.37%	\$116	\$524	17
18	2,701 - 4,000	3M	\$4,892	8.13%	\$397	Poly-2"	\$7,059	7.37%	\$520	\$918	18
19 20	4,001 - 6,600 6,601 - 9,200	5M 7M	\$6,559 \$7.164	8.11% 8.10%	\$532 \$580	Poly-2" Poly-2"	\$7,059 \$7,059	7.37% 7.37%	\$520 \$520	\$1,052 \$1.101	19 20
20	9,201 - 14,500	11M	\$8.012	8.11%	\$580 \$649	Poly-2 Poly-3"	\$12,815	7.37%	\$944	\$1,101	20
21	14,501 - 21,400	16M	\$8,141	8.10%	\$660	Poly-3"	\$12,815	7.37%	\$944 \$944	\$1,604	21
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, 1	1/20/2020
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 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	
		в	0-1	G-IVI	6-5	6-1			E	E	G		IUlai		× 3 101101	TOTAL	N	0	
	Cfh	D					0	D							N	L	IN		-
	0																		
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		- 2	1	-	4	4	5		20
21	9,201 - 14,500 14,501 - 21,400	11M 16M	2	27	8	31	68 44	-	269 147	337 202	15	2	•	3	-	3	12 16	349	21
22 23	14,501 - 21,400 21,401 - 24,000	16M 11M-HP	4	24	3	13	44	11	147	202	15	-	15	1	- 1	1	16	218	22 23
	21,401 - 24,000 24,001 - 46,000	16M-HP	0	3	1	0	4	3		57	4 7	-	4	- ,	1	1	э 15	23 72	23
24 25	24,001 - 46,000 46,001 - 79,000	23M-HP	0	0	0	0	-	5	52	57 10		4	11	3	3	4	15	21	24
25	46,001 - 79,000 79,001 - 377,000	23IVI-FIP 8" Turbine	0	0	0	0	-	1	9	10	2	2	5 4	3	3	0		21	25
20	377,001 - 600,000	Turbine	0	0	0	0	-	-	2	2	2	2	4		-		4	0	20
27	600,001 - 4,250,000	Turbine	0	0	0	0	-	-	-	-	-	-	-		-	-	-	-	28
28	> 4,250,000	Turbine	0	0	0	0	-			-		-	-			-			28
30	> 4,230,000	Turbine	0	0	0	0	-		-	-		-	-		-	-	-		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	31

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

DEMAND DETERMINANT SUMMARY 2024 TCAP

			Res							GTNC		1	EG		Power		
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
А	В	С	D	Е	F	G	Н	Ι	J	K	L	М	Ν	0	Р	Q	R
CAP Customers 2021Customers	891,788 847,801	17,155 16,309	5 230 9 219		909,359 864,505	36 45	30,488 26,214	939,883 890,764	53 48	5 10	58 58	83 71	15 10	98 81	-	156 139	940,039 890,903

						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
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
50		000,007	01	00,400	000,071	-0	10		1 -T	122	000,000

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	
		B	G-R	G-IVI	6-3	6-1	C	D	E E	Cole	G	H	TOLAI			TOLAI	NUTCOLE	10tai	
	Cfh	D					<u> </u>	D	L	1	9			5	IX.	L			<u> </u>
	0																		1
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/		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	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	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
18 19	2,701 - 4,000 4,001 - 6,600	3M 5M	0.00% 0.00%	0.00% 2.08%	0.00% 0.00%	0.00% 1.72%	0.00% 0.00%	10.00% 0.00%	1.23% 0.00%	0.72% 0.72%	0.00% 0.00%	18 19							
-	4,001 - 6,600 6,601 - 9,200	51VI 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%	0.00% 4.94%	0.72% 3.60%	0.00%	20
20 21	9,201 - 14,500	11M	0.00%	0.00%	0.00% 3.65%	17.61%	0.00%	0.00%	1.03%	0.00%	2.08%	20.00%	15.52%	4.23%	40.00%	4.94%	3.60% 8.63%	0.00%	20
21	9,201 - 14,500 14,501 - 21,400	16M	0.00%	0.17%	1.37%	7.39%	0.01%	24.44%	0.56%	0.04%	31.25%	20.00%	25.86%	4.23%	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%	0.02%	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	.,,																		30
31	Total Customers		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	31

Notes:

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

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

FORECAST CUSTOMERS BY METER TYPE BY CUSTOMER CLASS 2020 TCAP

	Max Meter	Meter	G-R	G-M	Res	G-T	Total	NGV	011.2	Total Core	MPD	GTNC HPD	Total	< 3 MM	EG > 3 MM	Total	Power Plant	Total Noncore	System Total	
	Flow Range	Туре	G-R	G-M	G-S	G-I		-	GN-3	Core			Iotal	< 3 MM	-	Iotai				
	A	В					С	D	E	F	G	Н		J	K	L	М	N	0	<u> </u>
	Cfh																			
1	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	2
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	17	-	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	-	-	-	-	-	4	60	65	8	2	10	4	2	5	-	15	79	24
25	46,001 - 79,000	23M-HP	-	-	-	-	-	1	10	11	3	1	4	4	5	8	-	12	24	25
26	79,001 - 377,000	8" Turbine	-	-	-	-	-	-	2	2	2	1	3	-	-	-	-	3	6	26
27	377,001 - 600,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	27
28	600,001 - 4,250,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
29	> 4,250,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29
30 31	Total Customers		891,788	17,155	230	185	909,359	36	30,488	939,883	53	5	58	83	15	98	-	156	940,039	30 31

Notes:

1. 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	-	GTNC			EG		Power	Total	System
	Flow Range	Туре	G-R	G-M	G-S	G-T	Total	NGV	GN-3	Core	MPD	HPD	Total	< 3 MM	> 3 MM	Total	Plant	Noncore	Total
	A	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S
	Cfh											(Doll	ars)	1					
	Medium Pressure																		
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
	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	\$0	\$0	\$4,437,614
	426-630	630	\$2,356,860	\$129,073	\$1,274	\$1,486	\$2,488,693	\$0 \$0	\$497,716	\$2,986,410	\$0	\$0	\$0	\$0 \$0	\$0	\$0 \$0	\$0	\$0 \$0	\$2,986,410
	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	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
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
3	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
•	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
٥	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
1	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
2																			
3	High Pressure																		
4	0 - 940	400	\$0	\$0	\$0	\$0	\$0	\$0	\$374	\$374	\$0	\$0	\$0	\$376	\$0	\$376	\$0	\$376	\$750
5	941 - 1,050	8C	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	1,051 - 1,500	630	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	1,501 - 2,700	2M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	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
9	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
•	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
1	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
2	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
3	21,401 - 24,000	11M-HP	\$0	\$639	\$213	\$0	\$852	\$5,933	\$31,407	\$38,192	\$10,843	\$0	\$10,843	\$0	\$3,682	\$3,682	\$0	\$14,525	\$52,717
4	24,001 - 46,000	16M-HP	\$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
5	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
6		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
7	377,001 - 600,000	Turbine	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	600,001 - 4,250,000	Turbine																	
9	> 4,250,000	Turbine																	
0	Total		\$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
1	Forecast Customers		891,788	17,155	230	185	909,359	36	30,488	939,883	53	5	58	83	15	98	-	156	940,039
2																			
3	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

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

		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	Ι	J	К	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																			1 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	<i>+•</i> , <i>·= ·</i>	+++++=	+··	+-	÷.	* •,·••		+	\$ \$7,000								++,	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	1 11
12	Allocation (M\$)	\$5,510	\$ 4 ,550	φ102	ا پ	φ1J	<i>9</i> 4,734	ψ 4	\$740	\$J,405	ا ا چ	ψz	φIJ	φu	ψ 4	210	φ23	\$3,510	12
12	Allocator - Customer Service Expense	0%	86%	2%	0%	0%	88%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	95%	13
		\$8,727	\$7,488	\$171	\$4	\$10	\$7,673	\$1	\$593	\$0	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$8,268	14
14	Allocation (M\$)	\$8,727	\$7,488	\$171	\$4	\$10	\$7,673	\$1	\$283	\$U	\$U	\$U	\$U	\$U	\$U	\$1	\$U	\$8,208	-
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%		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 Eg = 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
	Allocation %	100%	88%	2%	0%	0%	90%	0%	8%	63%	0%	0%	0%	0%	0%	0%		98%	

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

					O GAS AND	BLE LRMCC-9 DELECTRIC - G for Distribution 10 TCAP												
	Allocation Method	G-R	G-M	Res G-S	G-T	Total	NGV	GN-3	Total Core	MPD	GTNC HPD T	otal	< 3 MM	EG > 3 MM	Total	Total Noncore	System Total	
_	A B C D E F G H I J K L M N O P Q																	
1 2 3 4 5 6 7 8	 874, 887, 892 - Services Allocator - Customers Wtd by Services costs (M\$) Alloc % 878, 893 - Meters & House Regulators O&M Expense Allocator - Customers Wtd by Meters & Regs costs (M\$) Alloc %	\$1,402,852 94% \$287,790 83%	\$28,264 2% \$10,240 3%	\$576 0% \$431 0%	\$1,239 0% \$980 0%	\$1,432,931 96% \$299,441 86%	\$307 0% \$258 0%	\$61,679 4% \$47,204 14%	\$1,494,917 100% \$346,904 100%	\$763 0% \$679 0%	\$114 0% \$125 0%	\$876 0% \$804 0%	\$433 0% \$533 0%	\$224 0% \$231 0%	\$657 0% \$764 0%	\$1,533 0% \$1,568 0%	\$1,496,450 100% \$348,472 100%	1 2 3 4 5 6 7 8
9 10 11	879 - Customer Installations (M\$) Allocator - Customer Service Alloc %	\$9,966 85.8%	\$227 2.0%	\$6 0.1%	\$13 0.1%	\$10,211 87.9%	\$2 0.0%	\$789 6.8%	\$11,003	\$0 0.0%	\$0 0.0%	\$0	\$0 0.0%	\$0 0.0%	\$0 0.0%	\$0 0.0%	\$11,615 95%	9 10 11

Data Sources: tab: M&HR Alloc

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

ALLOCATION OF CUSTOMER O&M EXPENSES BY CUSTOMER CLASS 2020 TCAP

	Total	1			Total	L	GTNC		1	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	
Α	В	С	D	E	F	G	Н	1	J	К	L	M	N	0	
FIELD SERVICES Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	so	\$0	\$0	\$0	l \$0	\$0	
CUSTOMER CONTACT Total	\$9.845	\$9,269	\$0	\$576	\$9.845	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9.845	
METER READING Total	\$120,838	\$117,160	\$6	\$3.652	\$120,818	\$7	\$2	\$9	\$10	\$1	\$11	\$0	\$20	\$120.838	
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	
CREDIT & COLLECTIONS Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	- 6
BUSINESS ANALYSIS Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	6
CUSTOMER RESEARCH & COMMUNICATION Total	\$157,128	\$152,347	\$8	\$4,749	\$157,104	\$8	\$2	\$10	\$13	\$2	\$14	\$0	\$24	\$157,128	7
CUSTOMER SERVICE TECHNOLOGY & SUPPORT Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	8
C&I CUSTOMER SERVICE Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
CONSUMER PROGRAMS & SERVICES Total	\$192,630	\$186,767	\$9	\$5,822	\$192,599	\$10	\$3	\$14	\$15	\$2	\$18	\$0	\$31	\$192,630	1
FEDERAL ACCOUNTS MANAGEMENT Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1
CUSTOMER SERVICES SUPPORT STAFF Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1
COMMUNITY OUTREACH & INFO SERVICES Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1
OTHER Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1
5 SVP COST CENTERS Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1
															11
7 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
3 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.xis 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	G-R	G-M	Res G-S	G-T	Total	NGV	GN-3	Total Core	MPD	GTNC HPD	Total	< 3 MM	EG > 3 MM	Total	Total Noncore	System Total	
	A	B	С	D	F	F	G	Н	1		K	1	M	N	0	P	0	R	S I	
	Cfh	-		-					· ·	(Thousand	Dollars)	_					-		-	
			1					1			<i>.</i>			1			1	I		
1	Medium Pressure																			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	High 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	\$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																				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	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	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	<u> </u>	<u>G-M</u>	<u> </u>	G	H	NGV	GIN-3	Core	MPD	M	TOTAL	< 3 IVIIVI 0		Q	NULCOLE	S I	
	A Cfh	В	L	D	E	F	G	н		J (Thousand I	N Dollare)	L	IVI	N	0	P	ų	ĸ	5	<u> </u>
	Cili		1					1		(Thousanu i	Joliais)			1				1		1
1	Medium Pressure																			1 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	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
	High 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	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 21,401 - 24,000	16M 11M-HP	\$8	\$34 \$0	\$206	\$26	\$111	\$377	\$72	\$1,392	\$1,841	\$135	\$0	\$135	\$10	\$0	\$10	\$144	\$1,985	22
23 24	21,401 - 24,000 24,001 - 46,000	11M-HP 16M-HP	\$16 \$17	\$U \$0	\$51 \$0	\$17	\$0 \$0	\$68 \$0	\$39 \$69	\$207	\$314	\$71 \$132	\$0	\$71 \$167	\$0	\$24	\$24	\$96 \$252	\$409	23 24
24 25	24,001 - 46,000 46.001 - 79.000	23M-HP	\$17 \$29	\$U \$0	\$0 \$0	\$0 \$0	\$U \$0	\$0	\$23	\$1,036 \$305	\$1,105 \$329	\$132	\$34 \$29	\$167	\$60 \$102	\$26 \$131	\$86 \$234	\$252	\$1,357 \$688	24
25	46,001 - 79,000 79.001 - 377.000	23M-HP 8" Turbine	\$29 \$53	\$0 \$0	\$0 \$0	\$0 \$0	\$U \$0	\$0	\$Z3 60	\$305	\$329 \$123	\$97 \$117	\$29 \$53	\$126	\$102	\$131	\$234 \$0	\$359	\$088 \$294	25
20	377.001 - 600.000	Turbine	\$33 \$0	\$0	\$0 \$0	\$0 \$0	\$0	\$0	30 \$0	\$123	\$123	\$117	\$03 \$0	\$170	\$0	\$0 \$0	\$0 \$0	\$170	\$294 \$0	20
28	600.001 - 4.250.000	Turbine	\$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	28
20	> 4.250.000	Turbine	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$U \$0	30 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	20
30	- 4,230,000	TUDITIE	ŞU	φU	φU	ψŪ	φU	ψU	ψŪ	ψŪ	φU	φU	ŞU	ŞU	ψŪ	φU	φU	φU	φ0	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	

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

Data Sources: tabs: MSA Cost, MSA Fcst

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

WEIGHTED MSA PVRR FACTOR 2024 TCAP

	Max Meter	Meter, Regulator,	Meter & Regulator	Installation	Installation Costs	Weighted Average	
	Flow Range	& Fitting Costs B	PVRR Factor	Costs D	PVRR Factor	PVRR Factor	
	Cfh	(Dollars)	(Percent)	(Dollars)	(Percent)	(Percent)	
1	Medium Pressure	(Boliaro)	(i crociti)	(Boliaio)	(i ciociti)	(i crocint)	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

			Meter &	Regulator		Pipe &	Installation				1	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	D	E	F	G		Н	I		J
	Cfh		(Dollars)	(Percent)	(Dollars)		(Dollars)		(Percent)	(Dollars)		
1	Medium Pressure											
2	0-275	250	\$281	130.58%		Poly-0.5"	\$1,573	\$1,854	125.07%	\$1,967	\$2,319	7,811
3	276 - 425	425	\$701	131.17%		Poly-0.5"	\$1,573	\$2,274	125.07%	\$1,967	\$2,844	211
4	426-630	630	\$1,091	131.81%	\$1,438		\$1,573	\$2,615	125.07%	\$1,967	\$3,271	115
5	631 - 800	8C	\$1,481	131.27%		Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	82
6	801 - 1,100	11C	\$1,568	131.36%		Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	38
7	1,101 - 1,500	15C	\$2,925	130.17%		Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	14
8	1,501 - 2,000	2M	\$4,526	130.11%		Poly-1"	\$1,573	\$2,615	125.07%	\$1,967	\$3,271	6
9	2,001 - 3,000	3M	\$4,398	130.03%	\$5,719		\$1,573	\$2,615	125.07%	\$1,967	\$3,271	6
10	3,001 - 5,000	5M	\$5,340	130.55%		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		40.500		40.075		* · = = •	40.015		A / A A =	1 0.07/	
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%	\$6,317		\$1,573	\$2,615	125.07%	\$1,967	\$3,271	-
16	1,051 - 1,500	630	\$2,916	130.16%	\$3,795		\$1,573	\$2,615	125.07%	\$1,967	\$3,271	-
17	1,501 - 2,700	2M	\$5,020	130.39%	\$6,546		\$1,573	\$2,615	125.07%	\$1,967	\$3,271	-
18	2,701 - 4,000	3M	\$4,892	130.33%		Poly-2"	\$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%		Poly-4"	\$15,533	\$2,615	125.07%	\$19,428	\$3,271	0
25	46,001 - 79,000	23M-HP	\$29,166	130.60%		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 \$0	131.04%	\$0 \$0	Steel-8"	\$0	\$0 \$0	125.07%	\$0	\$0	-
28 29	600,001 - 4,250,000 > 4,250,000	Turbine Turbine	\$0 \$0	131.04% 131.04%	\$0 \$0	Steel-16" Steel-24"	\$0 \$0	\$0 \$0	125.07% 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	Meter, Regulator,	Meter & Regulator	Installation	Installation Costs	Weighted Average	
	Flow Range	& Fitting Costs	Book Life	Costs	Book Life	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)] ÷ [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			Repl	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	Туре	Cost	Factor	Investment	Rate	Туре	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)
Medium Pressure												
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
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
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
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
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
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
1,501 - 2,000	2M	\$3,005	124.49%	\$3,741	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	1,683	\$573,143
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
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
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
High Pressure												
0 - 940	400	\$1,561	124.49%	\$1,943	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	2	\$588
941 - 1,050	8C	\$3,326	124.49%	\$4,141	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	-	\$0
1,051 - 1,500	630	\$1,951	124.49%	\$2,429	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	-	\$C
1,501 - 2,700	2M	\$3,498	124.49%	\$4,355	2.6%	Poly-1"	\$12,711	125.07%	\$15,899	1.5%	-	\$C
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
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
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
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
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
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
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
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
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
377,001 - 600,000	Turbine	\$0	0.00%	\$0	2.5%	Steel-8"	\$0	125.07%	\$0	1.5%	-	\$0
600.001 - 4.250.000	Turbine	\$0	0.00%	\$0	2.5%	Steel-16"		125.07%		1.5%	-	\$0
> 4,250,000	Turbine	\$0	0.00%	\$0 \$0		Steel-24"		125.07%	\$0	1.5%	_	\$0

Notes:

Col. (E) = Col. (C) x Col. (D).
 Col. (J) = Col. (H) x Col. (I).
 Col. (J) = Col. (H) x Col. (I).
 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)]
 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)]
 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)]
 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)]
 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)]

0.00% 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

					s	AN DIEGO GA	TABLE LRMCC		TMENT						
						FORECAS	T NEW HOOKUF 2024 TCAF		27						
	Customer Class Year-End 2024 Year-End 2025 Year-End 2026 Year-End 2027 Average Annual New Hookups A B C D E F G E F G E F G E F G H														
	A	В	С	D	E	F	G	E	F	G	E	F	G	Н	
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	
Ļ	Core C&I - GN3 Noncore C&I - GTNC EG - Cogen	30,378 50 96	30,424 50 96	46 - -	30,424 50 96	30,467 50 96	43 - -	30,467 50 96	30,510 50 96	43 - -	30,510 50 96	30,549 50 96	39 - -	43 - -	
	Power Plants			-	-	-	-	-	-	-	-	-	-	-	
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	

Notes:

Col. (D) = Col. (C) - Col (B).
 Col. (G) = Col. (F) - Col (E).
 Col. (J) = Col. (I) - Col (H).
 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		J	K	L	N	0	
	Cfh														1
															Ι.
1	Medium Pressure	050	7 704			7.014								7.011	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
	1,101 - 1,500	15C	11	-	2	14	-	-	-	-	-	-	-	14	1
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
	High Pressure	100													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	U	0	-	-	-	-	-	-	-	0	25
26	79,001 - 377,000	8" Turbine	-	-	0	0	-	-	-	-	-	-	-	0	26
27	377,001 - 600,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	27
28	600,001 - 4,250,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	28
29	> 4,250,000	Turbine	-	-	-	-	-	-	-	-	-	-	-	-	29
30 31	Total Customers		8,246	0	43	8,289	-		-	-		-	-	8,289	30 31

Note:

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

verify	8,246	0	43	8,289	-	-	-	-	-	-	-	8,289
Data Sources: Tabs: MSA Cost, MSAlloc v2												

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

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

	Max Meter 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	EG	Total	Total Noncore
	A	B	C		D	011011100	F	F	G	H	1		K	1	M	0
	Cfh	5	(Dollars)			-	-							-		Ű
			. ,													
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 \$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 \$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
	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 3,001 - 5,000	3M 5M	\$21 \$41	\$25 \$27	\$2,475 \$477	\$6,661 \$6,149	\$34 \$99	\$40,644 \$36,196	\$49,815 \$42,921	\$0 \$45	\$0 \$0	\$0 \$45	\$198 \$481	\$0 \$0	\$0 \$0	\$0 \$45
10	5.001 - 5.000	7M	\$41	\$27	\$223	\$2,289	\$99 \$162	\$15,184	\$42,921	\$311	\$0 \$0	\$45 \$311	\$401	\$0 \$0	\$0 \$0	\$45
11	5,001 - 7,000	7 101	φ40	φ20	φ223	φz,209	\$10Z	φ15,10 4	\$17,000	\$311	φU	φ 3 11	\$3 3 0	φU	φU	φστι
12	High Pressure															
13	0 - 940	400	\$4	\$5	\$0	\$0	\$0	\$4	\$4	\$0	\$0	\$0	\$4	\$0	\$0	\$0
14	941 - 1,050	8C	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0 \$0 \$0
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 23M-HP	\$59 \$62	\$36	\$0	\$0	\$239	\$3,594	\$3,833	\$459	\$119	\$578	\$208	\$89	\$178	\$667
24	46,001 - 79,000 79.001 - 377.000	23M-HP 8" Turbine	\$62 \$72	\$35 \$43	\$0	\$0	\$50	\$653	\$703	\$207	\$62 \$72	\$269	\$219	\$281	\$561	\$550 \$231
25 26	377.001 - 377,000	Turbine	\$72	\$43 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$167 \$0	\$167 \$0	\$159 \$0	\$72 \$0	\$231 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$231 \$0
20	600.001 - 4.250.000	Turbine	\$ U	φU	\$U	\$U	φU	\$ U	φU	\$ U	φU	φU	\$U	\$ U	φU	φU
27	> 4,250,000	Turbine														
20	74,230,000 Total	Turbine			\$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	\$J20 5	\$3,303 58	\$2,755	15	98	ψ 4 ,350 156
31					301,700	.1,011	00	30,400	200,000				00	10		100
32	Average SRM Cost				\$25	\$22	\$50	\$25	\$25	\$68	\$65	\$67	\$33	\$42	\$13	\$29

Notes:

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

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

TABLE L RMCC-nco 7 SAN DIEGO GAS AND ELECTRIC - GAS DEPARTMENT

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

Meter Per Customer Res Type SRM Invstmt SRM Invstmt Max Meter Total GTNC HPD EG < 3 MM Total System Total < 3 MM > 3 MM GN-3 MPD Flow Range Res Other Res NGV Core Total Total Noncore Res D N (Dollare) Cfl lium Pressur \$184,556,27 \$2,946,958 \$187,503,236 \$1,906 \$190,580,310 \$252 \$252 \$190,580,310 0-275 250 \$215 \$218 \$3,075,168 276 - 425 426-630 \$234 \$293 \$5,099,425 \$3,420,625 \$257,587 \$184,694 \$5,357,012 \$3,605,318 \$547,148 \$690,229 \$5,904,160 \$4,295,547 \$5,904,160 \$4,295,547 425 630 \$227 \$283 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$300 \$294 631 - 800 8C 11C \$291 \$2 435 688 \$173,490 \$2,609,178 \$234 \$722 964 \$3 332 377 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$3 332 377 801 - 1,100 \$286 \$150,487 \$1,118,510 \$461 \$627,946 \$1,746,917 \$0 \$0 \$0 \$0 \$1,746,917 \$968,023 15C 2M 3M 5M 7M \$306 \$323 \$312 \$327 \$320 \$69,143 \$32,648 \$394,267 \$135,233 \$0 \$0 \$509 \$0 \$12,850 1 101 - 1 500 \$325 124 \$445 535 \$839,802 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$839,802 \$471,902 \$606,575 \$607,135 \$738,444 1,501 - 2,000 \$102,585 \$607,135 \$12,850 \$12,850 2 001 - 3 000 \$316 \$99.415 \$131,360 \$738 444 \$2,956 \$31,946 \$2,956 \$2,956 3,001 - 5,000 5,001 - 7,000 \$689 \$698 \$675 \$684 \$12,069 \$5,760 \$102,978 \$39,665 \$115,047 \$45,425 \$1,666 \$2,813 \$606,174 \$263,132 \$722,887 \$311,370 \$8,059 \$5,714 \$761 \$5,397 \$723,648 \$316,767 \$761 \$0 \$0 \$761 \$8,059 \$0 \$0 \$8,059 \$5.397 \$5.397 \$5,714 \$5,714
 High Pressure

 13
 0 - 940

 14
 941 - 1,050
 \$297 \$0 \$0 \$0 \$0 \$725 \$256 \$0 400 8C \$257 ¢n \$1 ¢r \$0 \$297 \$297 \$1 \$0 \$0 \$299 \$0 \$299 ¢n \$299 \$0 1,051 - 1,500 630 1,501 - 2,700 2M 2,701 - 4,000 3M \$0 \$0 \$484 \$0 \$484 \$725 \$O \$O \$0 \$725 \$725 \$0 \$3,734 5M \$697 \$697 \$0 \$0 \$0 \$0 \$0 \$0 \$770 4,001 - 6,600 \$0 \$0 \$0 \$0 \$770 \$770 \$0 \$0 \$770 18 6 601 - 9 200 7M \$622 \$618 \$0 ŝ \$501 \$724 \$1 225 \$687 \$687 \$0 \$0 \$3 734 \$4,421 \$5,646 11M 16M \$933 \$957 \$898 \$919 \$64,793 \$40,254 \$66,682 \$44,121 \$7,213 \$15.846 \$3,273 \$1,118 \$3,273 \$1,118 \$8,147 9,201 - 14,500 \$1,890 \$291,980 \$163,563 \$358,663 \$933 \$8,147 \$3,273 \$0 \$0 \$366,810 \$0 \$8,478 20 21 22 23 24 \$15,846 \$232,007 14 501 - 21 400 \$3,867 \$216 162 \$0 \$0 \$1,118 \$1,118 \$0 \$3,487 21,401 - 24,000 11M-HP \$1,025 \$978 \$0 \$4,312 \$4,312 \$2,477 \$13,111 \$19,900 \$4,526 \$7,684 \$4,526 \$0 \$3,487 \$1,537 \$1,537 \$6,064 \$25,964 \$0 \$0 \$0 \$0 \$0 24,001 - 46,000 16M-HP \$994 \$971 \$0 \$0 \$4 004 \$60 126 \$64 131 \$1,988 \$9 673 \$1 491 \$4 978 \$11 164 \$75 295 \$0 \$0 \$0 46,001 - 79,000 23M-HP \$1,536 \$1,509 \$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 26 79.001 - 377.000 Turbine \$2,792 \$2,763 \$0 \$0 \$15,450 \$0 \$0 \$6,493 \$6,493 \$6.165 \$2,792 \$8.956 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$8.956 377,001 - 600,000 Turbine \$0 \$0 \$0 \$0 \$0 \$0 \$0 SC \$0 27 600 001 - 4 250 000 Turbine > 4,250,000 Turbine \$24,287 \$8,609,148 \$201.129.702 \$209,763,137 \$54,138 \$7.249 \$61.388 \$43.396 \$43.396 \$14,400 \$57.796 \$75.788 \$209.838.924 29 Total 30 Forecast Customers 909,359 30,488 939,883 53 58 83 15 98 156 940,039 32 Average SRM Cost \$0 \$0 \$0 \$221 \$670 \$282 \$223 \$0 \$0 \$0 \$0 \$0 \$0 #

Notes:

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

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

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SDG&E Customer Costs Testimony Tables

TABLE 1 CUSTOMER-RELATED LRMC - CAPITAL COSTS			
Rental-Method Customer Cost			
(2024 \$/customer)			
\$146			
\$275 \$1,203			
\$2,236			
\$906 \$2,353			
-			

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

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

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 10 M&S LOADING FACTORS (2024 \$)				
Allocated M&S	Customers per Class	M&S Loader \$/Customer		
\$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		
Allocated M&S \$644,432	Peak-day Load (mcfd) 440,066	M&S Loader \$/mcfd \$1.46 \$0.36		
	LOADING FAC (2024 \$) Allocated M&S \$409,613 \$35,223 \$151 \$470 \$344 \$123 Allocated M&S	LOADING FACTORS (2024 \$) Allocated M&S Class \$409,613 864,505 \$35,223 26,214 \$151 45 \$470 58 \$344 71 \$123 10 Allocated M&S Peak-day Load (mcfd) \$644,432 440,066		

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		