

Class Cost Of Service Study Results

Line	NEMO DISTRICT (Ave&Excess Mains Allocation with 27% Customer Component)	Formula	Residential		Small General Service	Med General Service	Lg General Service	Large Volume and Transport						
1	O & M Expenses		\$	3,245,054	\$	2,810,304	\$	145,627	\$	176,994	\$	19,363	\$	92,767
2	Depreciation and Amortization Expenses		\$	1,917,043	\$	1,346,420	\$	179,088	\$	239,313	\$	28,768	\$	123,454
3	Taxes		\$	838,898	\$	600,837	\$	72,710	\$	107,768	\$	14,617	\$	42,967
4	Total - Expenses and Taxes	(a)	\$	6,000,995	\$	4,757,560	\$	397,425	\$	524,075	\$	62,748	\$	259,188
5														
6	Current Revenue													
7	Rate Revenue		\$	6,701,552	\$	4,274,281	\$	454,331	\$	1,313,868	\$	145,820	\$	513,253
8	Other Revenue		\$	166,500	\$	106,194	\$	11,288	\$	32,643	\$	3,623	\$	12,752
9	Total - Current Revenues	(b)	\$	6,868,052	\$	4,380,476	\$	465,619	\$	1,346,511	\$	149,443	\$	526,004
10	Current Revenue Percentage			100.00%		63.78%		6.78%		19.61%		2.18%		7.66%
11														
12	Operating Income	(c) = (b) - (a)	\$	867,057	\$	(377,085)	\$	68,194	\$	822,436	\$	86,695	\$	266,817
13														
14	Total Rate Base	(d)	\$	27,426,721	\$	19,021,531	\$	2,555,091	\$	3,219,285	\$	244,771	\$	2,386,044
15														
16	Current Rate Of Return	(e) = (c) ÷ (d)		3.16%		-1.98%		2.67%		25.55%		35.42%		11.18%
17														
18	Operating Income Needed To Equalize Class Returns	(f) = 7.40 × (d)	\$	867,057	\$	601,339	\$	80,776	\$	101,773	\$	7,738	\$	75,431
19														
20	Revenue Percentage Needed To Equalized Class Returns	(g) = (f) ÷(a)	\$	6,868,052	\$	5,358,899	\$	478,200	\$	625,848	\$	70,486	\$	334,619
22														
23	Rev. Neutral Shift to Equalize Class ROR	(h) = (g) - (b)			\$	978,423	\$	12,582	\$	(720,663)	\$	(78,957)	\$	(191,385)
24	Rev. Neutral Shift Percentage to Equalize Class ROR					22.89%		2.77%		-54.85%		-54.15%		-37.29%
25														
26	OPC Maximum Recommended Revenue Neutral Shift Percentage					11.45%		1.38%		-27.43%		-27.07%		-18.64%
27														
28	1/2 Revenue Neutral Shift Adjustment	(i) = (h) ÷ 2			\$	489,212	\$	6,291	\$	(360,331)	\$	(39,478)	\$	(95,693)
29	Additional Revenue Requirement Adjustment (Staff Low Return, Equalized % Increase)		\$	2,376,714	\$	1,854,466	\$	165,483	\$	216,577	\$	24,392	\$	115,796
30					\$	2,343,678	\$	171,774	\$	(143,755)	\$	(15,086)	\$	20,103
31	Combined Impact Adjustment				\$	(146,821)	\$	(10,761)	\$	143,755	\$	15,086	\$	(1,259)
32	Total Revenue Adjustment		\$	2,376,714	\$	2,196,857	\$	161,013	\$	-	\$	-	\$	18,844
33														
34	Current Revenue + Total Revenue Adjustment		\$	9,244,766	\$	6,577,333	\$	626,631	\$	1,346,511	\$	149,443	\$	544,848
35	Class Resulting Share of Revenue					71.15%		6.78%		14.57%		1.62%		5.89%
36														
37	<u>Small Customer Charge Calculation</u>													
38	55% of Class Revenue					3617533		344647						
39	Number of Bills					196,248		20,860						
40	Customer Charge		\$			18.43	\$	16.52						

Class Cost Of Service Study Results

Line	SEMO DISTRICT (Ave&Excess Mains Allocation with 27% Customer Component)	Formula	Residential		Small General Service	Med General Service	Lg General Service	Large Volume and Transport
1	O & M Expenses		\$ 4,666,017	\$ 3,951,052	\$ 237,770	\$ 221,236	\$ 23,789	\$ 232,171
2	Depreciation and Amortization Expenses		\$ 1,620,288	\$ 1,147,484	\$ 166,449	\$ 159,030	\$ 21,369	\$ 125,956
3	Taxes		\$ 643,305	\$ 507,450	\$ 55,184	\$ 38,143	\$ 825	\$ 41,703
4	Total - Expenses and Taxes	(a)	\$ 6,929,610	\$ 5,605,986	\$ 459,403	\$ 418,409	\$ 45,982	\$ 399,830
5								
6	Current Revenue							
7	Rate Revenue		\$ 8,392,190	\$ 4,894,476	\$ 560,566	\$ 1,630,196	\$ 261,257	\$ 1,045,695
8	Other Revenue		\$ 192,564	\$ 112,307	\$ 12,863	\$ 37,406	\$ 5,995	\$ 23,994
9	Total - Current Revenues	(b)	\$ 8,584,754	\$ 5,006,783	\$ 573,428	\$ 1,667,602	\$ 267,252	\$ 1,069,689
10	Current Revenue Percentage		100.00%	58.32%	6.68%	19.43%	3.11%	12.46%
11								
12	Operating Income	(c) = (b) - (a)	\$ 1,655,144	\$ (599,203)	\$ 114,025	\$ 1,249,193	\$ 221,270	\$ 669,860
13								
14	Total Rate Base	(d)	\$ 29,676,439	\$ 19,541,406	\$ 3,092,239	\$ 2,994,542	\$ 135,730	\$ 3,912,522
15								
16	Current Rate Of Return	(e) = (c) ÷ (d)	5.58%	-3.07%	3.69%	41.72%	163.02%	17.12%
17								
18	Operating Income Needed To Equalize Class Returns	(f) = 7.40 × (d)	\$ 1,655,144	\$ 1,089,883	\$ 172,463	\$ 167,015	\$ 7,570	\$ 218,213
19								
20	Revenue Percentage Needed To Equalized Class Returns	(g) = (f) + (a)	\$ 8,584,754	\$ 6,695,869	\$ 631,866	\$ 585,423	\$ 53,552	\$ 618,043
22								
23	Rev. Neutral Shift to Equalize Class ROR	(h) = (g) - (b)		\$ 1,689,086	\$ 58,438	\$ (1,082,178)	\$ (213,700)	\$ (451,647)
24	Rev. Neutral Shift Percentage to Equalize Class ROR			34.51%	10.42%	-66.38%	-81.80%	-43.19%
25								
26	OPC Maximum Recommended Revenue Neutral Shift Percentage			17.26%	5.21%	-33.19%	-40.90%	-21.60%
27								
28	1/2 Revenue Neutral Shift Adjustment	(i) = (h) ÷ 2		\$ 844,543	\$ 29,219	\$ (541,089)	\$ (106,850)	\$ (225,823)
29	Additional Revenue Requirement Adjustment (Staff Low Return, Equalized % Increase)		\$ 1,763,429	\$ 1,375,425	\$ 129,794	\$ 120,254	\$ 11,000	\$ 126,955
30				\$ 2,219,969	\$ 159,013	\$ (420,835)	\$ (95,849)	\$ (98,869)
31	Combined Impact Adjustment			\$ (574,409)	\$ (41,144)	\$ 420,835	\$ 95,849	\$ 98,869
32	Total Revenue Adjustment		\$ 1,763,429	\$ 1,645,559	\$ 117,869	\$ -	\$ -	\$ -
33								
34	Current Revenue + Total Revenue Adjustment		\$ 10,348,183	\$ 6,652,342	\$ 691,297	\$ 1,667,602	\$ 267,252	\$ 1,069,689
35	Class Resulting Share of Revenue			64.29%	6.68%	16.11%	2.58%	10.34%
36								
37	<u>Small Customer Charge Calculation</u>							
38	55% of Class Revenue			\$ 3,658,788	\$ 380,213			
39	Number of Bills			346,144	37,523			
40	Customer Charge			\$ 10.57	\$ 10.13			

Class Cost Of Service Study Results

Line	WEMO DISTRICT (Ave&Excess Mains Allocation with 27% Customer Component)	Formula	Residential		Small General Service	Med General Service	Lg General Service	Large Volume and Transport	
1	O & M Expenses		\$	631,852	\$ 431,022	\$ 93,599	\$ 60,708	\$ 37,356	\$ 9,168
2	Depreciation and Amortization Expenses		\$	210,154	\$ 153,133	\$ 27,321	\$ 17,663	\$ 10,456	\$ 1,580
3	Taxes		\$	123,479	\$ 85,689	\$ 16,331	\$ 12,586	\$ 8,004	\$ 870
4	Total - Expenses and Taxes	(a)	\$	965,486	\$ 669,844	\$ 137,251	\$ 90,957	\$ 55,816	\$ 11,617
5									
6	Current Revenue								
7	Rate Revenue		\$	1,261,561	\$ 801,120	\$ 103,116	\$ 227,867	\$ 129,458	\$ -
8	Other Revenue		\$	25,741	\$ 16,346	\$ 2,104	\$ 4,649	\$ 2,641	\$ -
9	Total - Current Revenues	(b)	\$	1,287,302	\$ 817,466	\$ 105,220	\$ 232,517	\$ 132,099	\$ -
10	Current Revenue Percentage			100.00%	63.50%	8.17%	18.06%	10.26%	0.00%
11									
12	Operating Income	(c) = (b) - (a)	\$	321,817	\$ 147,622	\$ (32,031)	\$ 141,559	\$ 76,283	\$ (11,617)
13									
14	Total Rate Base	(d)	\$	4,455,596	\$ 3,019,363	\$ 556,895	\$ 496,424	\$ 361,700	\$ 21,214
15									
16	Current Rate Of Return	(e) = (c) ÷ (d)		7.52%	4.89%	-5.75%	28.52%	21.09%	
17									
18	Operating Income Needed To Equalize Class Returns	(f) = 7.40 × (d)	\$	335,029	\$ 227,035	\$ 41,875	\$ 37,328	\$ 27,197	\$ 1,595
19									
20	Revenue Percentage Needed To Equalized Class Returns	(g) = (f) ÷ (a)	\$	1,287,302	\$ 896,878	\$ 179,126	\$ 128,285	\$ 83,013	\$ -
22									
23	Rev. Neutral Shift to Equalize Class ROR	(h) = (g) - (b)			\$ 79,412	\$ 73,905	\$ (104,232)	\$ (49,086)	\$ -
24	Rev. Neutral Shift Percentage to Equalize Class ROR				9.91%	71.67%	-45.74%	-37.92%	0.00%
25									
26	OPC Maximum Recommended Revenue Neutral Shift Percentage				4.96%	35.84%	-22.87%	-18.96%	0.00%
27									
28	1/2 Revenue Neutral Shift Adjustment	(i) = (h) ÷ 2			\$ 39,706	\$ 36,953	\$ (52,116)	\$ (24,543)	\$ -
29	Additional Revenue Requirement Adjustment (Staff Low Return, Equalized % Increase)		\$	309,125	\$ 215,370.84	\$ 43,014.13	\$ 30,805.57	\$ 19,934.33	
30					\$ 255,077	\$ 79,967	\$ (21,310)	\$ (4,609)	
31	Combined Impact Adjustment				\$ (19,733)	\$ (6,186)	\$ 21,310	\$ 4,609	
32	Total Revenue Adjustment		\$	309,125	\$ 235,344	\$ 73,781	\$ -	\$ -	\$ -
33									
34	Current Revenue + Total Revenue Adjustment		\$	1,596,427	\$ 1,052,810	\$ 179,001	\$ 232,517	\$ 132,099	\$ -
35	Class Resulting Share of Revenue				65.95%	11.21%	14.56%	8.27%	0.00%
36									
37	<u>Small Customer Charge Calculation</u>								
38	55% of Class Revenue				\$ 579,046	\$ 98,451			
39	Number of Bills				40,811	5,253			
40	Customer Charge				\$ 14.19	\$ 18.74			

Class Cost Of Service Study Results

Line	NEMO DISTRICT (Ave&Peak Mains Allocation with No Customer Component)	Formula	Residential		Small General Service	Med General Service	Lg General Service	Large Volume and Transport
1	O & M Expenses		\$ 3,245,054	\$ 2,729,599	\$ 141,332	\$ 205,376	\$ 25,464	\$ 143,283
2	Depreciation and Amortization Expenses		\$ 1,917,043	\$ 1,246,551	\$ 173,774	\$ 274,435	\$ 36,318	\$ 185,965
3	Taxes		\$ 838,898	\$ 575,290	\$ 71,350	\$ 116,752	\$ 16,549	\$ 58,957
4	Total - Expenses and Taxes	(a)	\$ 6,000,995	\$ 4,551,440	\$ 386,456	\$ 596,564	\$ 78,331	\$ 388,205
5								
6	Current Revenue							
7	Rate Revenue		\$ 6,701,552	\$ 4,274,281	\$ 454,331	\$ 1,313,868	\$ 145,820	\$ 513,253
8	Other Revenue		\$ 166,500	\$ 106,194	\$ 11,288	\$ 32,643	\$ 3,623	\$ 12,752
9	Total - Current Revenues	(b)	\$ 6,868,052	\$ 4,380,476	\$ 465,619	\$ 1,346,511	\$ 149,443	\$ 526,004
10	Current Revenue Percentage		100.00%	63.78%	6.78%	19.61%	2.18%	7.66%
11								
12	Operating Income	(c) = (b) - (a)	\$ 867,057	\$ (170,964)	\$ 79,162	\$ 749,947	\$ 71,112	\$ 137,800
13								
14	Total Rate Base	(d)	\$ 27,426,721	\$ 17,231,168	\$ 2,459,820	\$ 3,848,926	\$ 380,121	\$ 3,506,686
15								
16	Current Rate Of Return	(e) = (c) ÷ (d)	3.16%	-0.99%	3.22%	19.48%	18.71%	3.93%
17								
18	Operating Income Needed To Equalize Class Returns	(f) = 7.40 × (d)	\$ 867,057	\$ 544,739	\$ 77,764	\$ 121,678	\$ 12,017	\$ 110,859
19								
20	Revenue Percentage Needed To Equalized Class Returns	(g) = (f) ÷ (a)	\$ 6,868,052	\$ 5,096,179	\$ 464,220	\$ 718,242	\$ 90,348	\$ 499,064
22								
23	Rev. Neutral Shift to Equalize Class ROR	(h) = (g) - (b)		\$ 715,703	\$ (1,399)	\$ (628,268)	\$ (59,095)	\$ (26,941)
24	Rev. Neutral Shift Percentage to Equalize Class ROR			16.74%	-0.31%	-47.82%	-40.53%	-5.25%
25								
26	OPC Maximum Recommended Revenue Neutral Shift Percentage			8.37%	-0.15%	-23.91%	-20.26%	-2.62%
27								
28	1/2 Revenue Neutral Shift Adjustment	(i) = (h) ÷ 2		\$ 357,851	\$ (699)	\$ (314,134)	\$ (29,548)	\$ (13,470)
29	Additional Revenue Requirement Adjustment (Staff Low Return, Equalized % Increase)		\$ 2,376,714	\$ 1,763,551	\$ 160,645	\$ 248,550	\$ 31,265	\$ 172,703
30			\$ 2,121,402	\$ 159,946	\$ (65,584)	\$ 1,718	\$ 159,232	
31	Combined Impact Adjustment		\$ (56,967)	\$ (4,295)	\$ 65,584	\$ (46)	\$ (4,276)	
32	Total Revenue Adjustment		\$ 2,376,714	\$ 2,064,436	\$ 155,651	\$ -	\$ 1,671	\$ 154,956
33								
34	Current Revenue + Total Revenue Adjustment		\$ 9,244,766	\$ 6,444,912	\$ 621,269	\$ 1,346,511	\$ 151,114	\$ 680,961
35	Class Resulting Share of Revenue			69.71%	6.72%	14.57%	1.63%	7.37%
36								
37	<u>Small Customer Charge Calculation</u>							
38	55% of Class Revenue			3544701	341698			
39	Number of Bills			196,248	20,860			
40	Customer Charge		\$	18.06	\$ 16.38			

Class Cost Of Service Study Results

Line	SEMO DISTRICT (Ave&Peak Mains Allocation with No Customer Component)	Formula	Residential		Small General Service	Med General Service	Lg General Service	Large Volume and Transport						
1	O & M Expenses		\$	4,666,017	\$	3,822,785	\$	228,111	\$	247,939	\$	34,079	\$	333,103
2	Depreciation and Amortization Expenses		\$	1,620,288	\$	1,096,402	\$	162,603	\$	169,665	\$	25,467	\$	166,152
3	Taxes		\$	643,305	\$	484,932	\$	53,489	\$	42,831	\$	2,631	\$	59,423
4	Total - Expenses and Taxes	(a)	\$	6,929,610	\$	5,404,119	\$	444,202	\$	460,435	\$	62,177	\$	558,677
5														
6	Current Revenue													
7	Rate Revenue		\$	8,392,190	\$	4,894,476	\$	560,566	\$	1,630,196	\$	261,257	\$	1,045,695
8	Other Revenue		\$	192,564	\$	112,307	\$	12,863	\$	37,406	\$	5,995	\$	23,994
9	Total - Current Revenues	(b)	\$	8,584,754	\$	5,006,783	\$	573,428	\$	1,667,602	\$	267,252	\$	1,069,689
10	Current Revenue Percentage			100.00%		58.32%		6.68%		19.43%		3.11%		12.46%
11														
12	Operating Income	(c) = (b) - (a)	\$	1,655,144	\$	(397,336)	\$	129,226	\$	1,207,167	\$	205,075	\$	511,012
13														
14	Total Rate Base	(d)	\$	29,676,439	\$	17,869,828	\$	2,966,368	\$	3,342,543	\$	269,830	\$	5,227,871
15														
16	Current Rate Of Return	(e) = (c) ÷ (d)		5.58%		-2.22%		4.36%		36.12%		76.00%		9.77%
17														
18	Operating Income Needed To Equalize Class Returns	(f) = 7.40 × (d)	\$	1,655,144	\$	996,654	\$	165,443	\$	186,424	\$	15,049	\$	291,574
19														
20	Revenue Percentage Needed To Equalized Class Returns	(g) = (f) ÷(a)	\$	8,584,754	\$	6,400,773	\$	609,645	\$	646,859	\$	77,226	\$	850,252
22														
23	Rev. Neutral Shift to Equalize Class ROR	(h) = (g) - (b)			\$	1,393,990	\$	36,217	\$	(1,020,743)	\$	(190,026)	\$	(219,438)
24	Rev. Neutral Shift Percentage to Equalize Class ROR					28.48%		6.46%		-62.61%		-72.74%		-20.98%
25														
26	OPC Maximum Recommended Revenue Neutral Shift Percentage					14.24%		3.23%		-31.31%		-36.37%		-10.49%
27														
28	1/2 Revenue Neutral Shift Adjustment	(i) = (h) ÷ 2			\$	696,995	\$	18,109	\$	(510,372)	\$	(95,013)	\$	(109,719)
29	Additional Revenue Requirement Adjustment (Staff Low Return, Equalized % Increase)		\$	1,763,429	\$	1,314,808	\$	125,230	\$	132,874	\$	15,863	\$	174,654
30					\$	2,011,803	\$	143,338	\$	(377,498)	\$	(79,150)	\$	64,935
31	Combined Impact Adjustment				\$	(413,808)	\$	(29,483)	\$	377,498	\$	79,150	\$	(13,356)
32	Total Revenue Adjustment		\$	1,763,429	\$	1,597,995	\$	113,855	\$	-	\$	-	\$	51,578
33														
34	Current Revenue + Total Revenue Adjustment		\$	10,348,183	\$	6,604,778	\$	687,283	\$	1,667,602	\$	267,252	\$	1,121,268
35	Class Resulting Share of Revenue					63.83%		6.64%		16.11%		2.58%		10.84%
36														
37	<u>Small Customer Charge Calculation</u>													
38	55% of Class Revenue				\$	3,632,628	\$	378,006						
39	Number of Bills					346,144		37,523						
40	Customer Charge				\$	10.49	\$	10.07						

Class Cost Of Service Study Results

Line	WEMO DISTRICT (Ave&Peak Mains Allocation with No Customer Component)	Formula	Residential		Small General Service	Med General Service	Lg General Service	Large Volume and Transport						
1	O & M Expenses		\$	631,852	\$	412,847	\$	91,839	\$	68,228	\$	49,770	\$	9,168
2	Depreciation and Amortization Expenses		\$	210,154	\$	149,324	\$	26,953	\$	19,240	\$	13,058	\$	1,580
3	Taxes		\$	123,479	\$	81,772	\$	15,952	\$	14,207	\$	10,679	\$	870
4	Total - Expenses and Taxes	(a)	\$	965,486	\$	643,943	\$	134,743	\$	101,675	\$	73,507	\$	11,617
5														
6	Current Revenue													
7	Rate Revenue		\$	1,261,561	\$	801,120	\$	103,116	\$	227,867	\$	129,458	\$	-
8	Other Revenue		\$	25,741	\$	16,346	\$	2,104	\$	4,649	\$	2,641	\$	-
9	Total - Current Revenues	(b)	\$	1,287,302	\$	817,466	\$	105,220	\$	232,517	\$	132,099	\$	-
10	Current Revenue Percentage			100.00%		63.50%		8.17%		18.06%		10.26%		0.00%
11														
12	Operating Income	(c) = (b) - (a)	\$	321,817	\$	173,523	\$	(29,523)	\$	130,842	\$	58,592	\$	(11,617)
13														
14	Total Rate Base	(d)	\$	4,455,596	\$	2,878,333	\$	543,240	\$	554,783	\$	458,026	\$	21,214
15														
16	Current Rate Of Return	(e) = (c) ÷ (d)		7.52%		6.03%		-5.43%		23.58%		12.79%		
17														
18	Operating Income Needed To Equalize Class Returns	(f) = 7.40 × (d)	\$	335,029	\$	216,430	\$	40,848	\$	41,716	\$	34,440	\$	1,595
19														
20	Revenue Percentage Needed To Equalized Class Returns	(g) = (f) ÷(a)	\$	1,287,302	\$	860,373	\$	175,591	\$	143,391	\$	107,947	\$	-
22														
23	Rev. Neutral Shift to Equalize Class ROR	(h) = (g) - (b)			\$	42,907	\$	70,371	\$	(89,126)	\$	(24,152)	\$	-
24	Rev. Neutral Shift Percentage to Equalize Class ROR					5.36%		68.24%		-39.11%		-18.66%		0.00%
25														
26	OPC Maximum Recommended Revenue Neutral Shift Percentage					2.68%		34.12%		-19.56%		-9.33%		0.00%
27														
28	1/2 Revenue Neutral Shift Adjustment	(i) = (h) ÷ 2			\$	21,454	\$	35,185	\$	(44,563)	\$	(12,076)	\$	-
29	Additional Revenue Requirement Adjustment (Staff Low Return, Equalized % Increase)		\$	309,125	\$	206,604.73	\$	42,165.38	\$	34,433.04	\$	25,921.72		
30					\$	228,058	\$	77,351	\$	(10,130)	\$	13,846		
31	Combined Impact Adjustment				\$	(6,654)	\$	(2,257)	\$	10,130	\$	(404)		
32	Total Revenue Adjustment		\$	309,125	\$	221,405	\$	75,094	\$	-	\$	13,442	\$	-
33														
34	Current Revenue + Total Revenue Adjustment		\$	1,596,427	\$	1,038,871	\$	180,314	\$	232,517	\$	145,541	\$	-
35	Class Resulting Share of Revenue					65.07%		11.29%		14.56%		9.12%		0.00%
36														
37	<u>Small Customer Charge Calculation</u>													
38	55% of Class Revenue				\$	571,379	\$	99,173						
39	Number of Bills					40,811		5,253						
40	Customer Charge				\$	14.00	\$	18.88						