

Exhibit No.:

OPC-2

Issue(s):

District Cost of Service/
Class Cost of Service/
Rate Design

Witness/Type of Exhibit: Meisenheimer/Rebuttal

Sponsoring Party:

Public Counsel

Case No.:

WR-2007-0216

REBUTTAL TESTIMONY

OF

BARBARA A. MEISENHEIMER

Submitted on Behalf of the Office of the Public Counsel

Missouri-American Water Company

Case No. WR-2007-0216

July 13, 2007

OPC Exhibit No. 2
Case No(s) WR-2007-0216
Date 8-14-07 Rptr PC

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

In the Matter of Missouri-American)
Water Company's request for Authority)
to Implement a General Rate Increase)
for Water Service provided in Missouri)
Service Areas)

WR-2007-0216

AFFIDAVIT OF BARBARA A. MEISENHEIMER

STATE OF MISSOURI)

ss

COUNTY OF COLE)

Barbara A. Meisenheimer, of lawful age and being first duly sworn, deposes and states:

1. My name is Barbara A. Meisenheimer. I am the Chief Utility Economist for the Office of the Public Counsel.
2. Attached hereto and made a part hereof for all purposes is my rebuttal testimony.
3. I hereby swear and affirm that my statements contained in the attached testimony are true and correct to the best of my knowledge and belief.

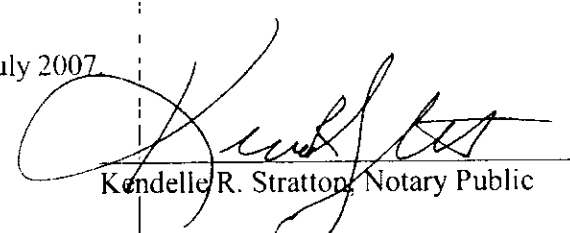

Barbara A. Meisenheimer

Subscribed and sworn to me this 13th day of July 2007.



KENDELLE R. STRATTON
My Commission Expires
February 4, 2011
Cole County
Commission #07004782

My commission expires February 4, 2011.


Kendelle R. Stratton, Notary Public

**REBUTTAL TESTIMONY
OF
BARBARA A. MEISENHEIMER**

MISSOURI-AMERICAN WATER COMPANY

CASE NO. WR-2007-0216

1 **Q. PLEASE STATE YOUR NAME, TITLE, AND BUSINESS ADDRESS.**

2 A. Barbara Meisenheimer, Chief Economist, Office of the Public Counsel, P. O. Box
3 2230, Jefferson City, Missouri 65102.

4 **Q. HAVE YOU TESTIFIED PREVIOUSLY IN THIS CASE?**

5 A. Yes, I submitted direct testimony on the issues of district rate design for the
6 Missouri American Water Company (MAWC or the Company) on June 12, 2007.

7 **Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?**

8 A. The purpose of my rebuttal testimony is: (1) to update Office of the Public
9 Counsel (OPC or Public Counsel)'s rate design recommendation based on the
10 revised and updated Class Cost of Service (CCOS) studies prepared by Public
11 Counsel and the Public Service Commission Staff (Staff); and (2) to respond to
12 certain rate design proposals made by the Company, Michael Gorman on behalf
13 of Missouri Industrial Energy Consumers (MIEC) and Donald Johnstone on
14 behalf of the City of Parkville and AG Processing, Inc.

I. Updated Rate Design

Q. PLEASE EXPLAIN THE PURPOSE OF YOUR UPDATE TO THE RATE DESIGN RECOMMENDATION.

A. The OPC CCOS study that was filed in the direct testimony was based on Company and Staff provided accounting data, demand data and billing determinants. After the filing of OPC's direct testimony, updated information became available. I have revised OPC's CCOS study with the updated information.

Q. HOW HAVE THE RESULTS OF YOUR STUDIES CHANGED SINCE DIRECT TESTIMONY?

A. In most cases, the changes to the OPC studies caused only minimal change in the class cost allocation percentages and my rate design recommendation. I have adjusted St. Louis County costs and revenues to reflect rate groups "A and Others", J&D, B, Private Fire and Public Fire. A summary of OPC's CCOS study results and the workpapers for individual districts are provided in Schedule BAM REB-1 through Schedule BAM REB-9. I also need to clarify that I did not prepare a CCOS for the Warren County Water because the district has such a small number of customers, only two rate groups and uniform rates.

II. Responses to other parties

Q. PLEASE COMPARE THE RESULTS OF THE CCOS STUDIES FILED BY OPC, THE STAFF.

A. Table R1 summarizes the Staff and Public Counsel CCOS and Current Revenue Percentages by customer class.

1

Table R1 - Class Cost Of Service and Revenue Percentage

		RESIDENTIAL	COMMERCIAL	INDUSTRIAL	PUBLIC AUTHORITY	SALES FOR RESALE	PRIVATE FIRE
Brunswick District	OPC Cost	43.29%	11.67%	0.18%	2.37%	42.48%	NA
	OPC Revenue	55.08%	13.52%	0.29%	1.99%	29.13%	NA
	Staff Cost	76.80%	19.40%	0.20%	2.10%	0.00%	1.50%
	Staff Revenue	75.10%	18.70%	0.40%	2.30%	0.00%	3.60%
Jefferson City District	OPC Cost	50.74%	28.97%	6.11%	14.19%	0.00%	NA
	OPC Revenue	55.75%	29.88%	5.06%	9.31%	0.00%	NA
	Staff Cost	53.50%	25.70%	4.10%	15.60%	0.00%	1.00%
	Staff Revenue	54.80%	29.90%	5.70%	6.70%	0.00%	3.00%
Joplin District	OPC Cost	48.43%	17.72%	26.98%	2.27%	4.60%	NA
	OPC Revenue	54.01%	22.67%	18.11%	2.50%	2.71%	NA
	Staff Cost	49.50%	22.30%	20.10%	2.50%	3.90%	1.50%
	Staff Revenue	54.10%	23.40%	17.10%	2.60%	2.80%	0.00%
Mexico District	OPC Cost	44.26%	14.25%	15.45%	9.56%	16.48%	NA
	OPC Revenue	51.20%	13.78%	14.82%	7.77%	12.44%	NA
	Staff Cost	50.30%	13.60%	14.20%	7.80%	13.00%	1.20%
	Staff Revenue	47.50%	13.30%	15.50%	7.60%	12.10%	4.00%
Parkville District	OPC Cost	48.70%	38.42%	0.93%	1.66%	10.29%	NA
	OPC Revenue	73.04%	19.70%	0.68%	1.50%	5.07%	NA
	Staff Cost	72.60%	17.40%	0.60%	1.30%	6.60%	1.50%
	Staff Revenue	73.50%	18.80%	0.70%	1.50%	5.20%	0.00%
St Charles District	OPC Cost	93.61%	5.61%	0.01%	0.77%	0.00%	NA
	OPC Revenue	87.77%	10.40%	0.03%	1.81%	0.00%	NA
	Staff Cost	88.20%	8.90%	0.00%	1.40%	0.00%	1.60%
	Staff Revenue	86.70%	10.40%	0.00%	1.40%	0.00%	1.50%
St Joseph District	OPC Cost	43.35%	15.33%	21.58%	4.06%	15.68%	NA
	OPC Revenue	50.97%	18.40%	14.66%	3.86%	12.11%	NA
	Staff Cost	50.90%	16.60%	14.40%	3.80%	13.30%	1.00%
	Staff Revenue	49.80%	18.20%	14.10%	3.90%	12.70%	1.30%
Warrensburg District	OPC Cost	60.60%	10.69%	3.87%	13.99%	10.84%	NA
	OPC Revenue	56.89%	20.22%	2.30%	13.43%	7.16%	NA
	Staff Cost	61.00%	16.90%	2.00%	12.00%	6.80%	1.30%
	Staff Revenue	54.70%	20.30%	2.30%	13.00%	7.10%	2.70%
Warren County Water	OPC Cost	NA	NA	NA	NA	NA	NA
	OPC Revenue	NA	NA	NA	NA	NA	NA
	Staff Cost	61.00%	16.90%	2.00%	12.00%	6.80%	1.30%
	Staff Revenue	54.70%	20.30%	2.30%	13.00%	7.10%	2.70%
St. Louis District		RATE A, K, H	RATE J&D	RATE B	RATE F&E		
	OPC Cost	82.26%	17.10%	0.64%	0.00%		
	OPC Revenue	89.79%	9.32%	0.89%	0.00%		
	Staff Cost	88.40%	8.60%	2.50%	0.40%		
	Staff Revenue	89.90%	7.30%	1.70%	1.10%		

2

1 **Q. PLEASE COMMENT ON THE CCOS RESULTS.**

2 A. The Public Counsel and Staff CCOS studies indicate that the Residential Class
3 revenue percentage is close to cost of service percentage for almost all districts.
4 While the other classes tend to show greater differences between revenue and cost
5 percentage, I hesitate to rely to heavily on the results for these other classes due in
6 part to greater sensitivity to small changes in allocations that they tend to exhibit
7 and due to lingering questions related to the quality of data available.

8 **Q. BASED ON THE CCOS RESULTS DO YOU RECOMMEND SIGNIFICANT SHIFTS IN**
9 **CLASS REVENUE RESPONSIBILITY?**

10 A. No. Since the Residential Class appears to be fairly well aligned with cost of
11 service I do not recommend significant changes in this case. While Public
12 Counsel may agree to limited adjustments based on other parties' rebuttal
13 testimony, we can support equal percentage class revenue adjustments within
14 each district as a reasonable outcome in this case.

15 **Q. ARE THERE STILL UNRESOLVED ISSUES WITH YOUR CCOS STUDIES?**

16 A. Yes. Although Public Counsel is not proposing to use the CCOS study results in
17 setting specific rates, the studies are helpful as a guide. I anticipate making
18 additional adjustments as better information is available or as corrections are
19 needed.

20

1 **Q. YOUR DIRECT TESTIMONY INDICATED THAT PUBLIC COUNSEL GENERALLY**
2 **SUPPORTS DISTRICT SPECIFIC PRICING. ARE THER EXCEPTIONS IN THIS CASE?**

3 A. Yes. Customers in the Brunswick and Warren County Water Districts may
4 experience rates that more than double if full movement to district cost of service
5 were ordered in this case. In Case WR-2003-0500 (prior to the acquisition of
6 Warren County Water) Staff proposed that to make meaningful movement toward
7 cost of service for the Brunswick district, the customer charge and commodity
8 charges for Brunswick should be set at the level of the related rate in the next
9 highest district. I believe that a similar proposal should be implemented in this
10 case because such a proposal for Brunswick and Warren County would help to
11 mitigate potentially detrimental rate shock while reducing the subsidy burden of
12 other districts. I recommend that the subsidy needed to cover Brunswick's under-
13 collection be collected in St. Louis rates and that the subsidy needed to cover St.
14 Charles under-collection be collected in St. Charles rates. Schedule BAM REB-2
15 illustrates my proposal for each district based on the Staff's updated revenue
16 requirement.

17 **Q. HOW DO YOU RECOMMEND THAT CLASS RATES BE SET?**

18 A. Generally, I believe it would be reasonable to increase the customer charge and
19 volumetric rate elements by an equal percent. There is a proposal to develop
20 uniform rates for the classes in the St. Joseph district which I address later in this
21 testimony.

1 **Q. DO YOU BELIEVE THE DISTRICT REVENUE ADJUSTMENTS AND CLASS RATE**
2 **DESIGN YOU HAVE DESCRIBED ABOVE IS PREFERABLE TO THE THOSE**
3 **ADVOCATED BY OTHER PARTIES?**

4 A. Yes. The Company proposes to adjust the revenue requirement of all districts by
5 an equal percent. This proposal does not reflect cost causation and makes no
6 meaningful movement toward district cost of service. The Company's districts
7 are not interconnected and in many cases have significant differences in the type
8 of plant and the cost of plant used to provide service. It is reasonable that to the
9 extent possible, while mitigating potential rate shock, districts should pay the
10 district cost of service.

11 With respect to class rate design, the Staff appears to propose to take all classes to
12 the level of cost recovery suggested by the Staff CCOS studies for each district. I
13 am concerned that a number of considerations make equal percentage changes in
14 class rates preferable. These considerations include the proximity of the
15 Residential revenue percentage to the Residential cost percentages, the quality of
16 information that both the Staff and Public Counsel relied on in order to perform
17 CCOS studies and the potentially significant overall increase that may be
18 approved in this case.

19 **Q. PLEASE COMMENT ON THE CONSOLIDATED BILLING PROPOSAL DESCRIBED ON**
20 **PAGE 4 OF MR. GORMAN'S DIRECT TESTIMONY.**

21 A. MIEC does not state the number of customers that would qualify for consolidated
22 billing or the class revenue impacts of such a proposal. Since the proposal would
23 allow qualified customers to aggregate volumetric use from multiple meters for

1 billing purposes, I expect that the impact would be to shift billing units from the
2 higher cost lower block levels into lower cost higher block levels resulting in bill
3 reductions for those customers. Without evidence of corresponding cost savings
4 to support the bill reductions, the Company will likely look to other customers to
5 assume greater cost responsibility. At this time, Public Counsel opposes the
6 proposal unless it can be designed and implemented in a manner that avoids shifts
7 in cost recovery between classes.

8 **Q. PLEASE COMMENT ON THE UNIFORM BLOCK RATE PROPOSAL DESCRIBED ON**
9 **PAGE S 4-7 OF MR. JOHNSTONE'S DIRECT TESTIMONY.**

10 A. In general, Public Counsel does not oppose designing uniform block rates across
11 customer classes. Currently, the Parkville and Warren County Water Districts
12 have uniform rates for all classes and the Jefferson City District has uniform rates
13 for all classes except the interruptible classes.

14 I do not agree entirely with the method of developing uniform rates that
15 Mr. Johnstone proposes because his method of developing rates for the highest
16 two blocks shifts the proportion of revenue collected between blocks creating
17 significant benefits for large use customers at the expense of smaller customers.
18 Instead, to accomplish a uniform block rate design that also maintains the
19 proportion of revenue collected from each block, I would propose to simply
20 divide the combined revenue from all classes use in a block by the combined use
21 from all classes in the block. This averaging within a block is the same method
22 Mr. Johnstone used to calculate a uniform rate for the first two blocks and will
23 produce uniformity in the higher blocks without adversely shifting revenue
24 responsibility between blocks. Schedule BAM REB-3 illustrates my proposal.

1 **Q. PLEASE COMMENT ON THE STRAIGHT FIXED VARIABLE RATE DESIGN DISCUSSION**
2 **INCLUDED ON PAGE 7 OF MR. JOHNSTONE'S DIRECT TESTIMONY.**

3 **A. Public Counsel opposes implementing a straight fixed variable (SFV) rate design**
4 **for many reasons.**

5 First, Public Counsel strongly opposed the Commission's decision to
6 implement a SFV rate design for the Atmos and MGE gas distribution rates based
7 on evidence that a SFV rate design was not representative of cost causation.
8 Application of a SFV method in designing water rates is likewise inappropriate
9 based on cost causation for distribution plant and introduces the additional
10 complexity of how to handle water production costs and treatment costs. Mr.
11 Johnstone offers no recommendations on these issues.

12 Second, as was true for Atmos, MAWC has many districts and
13 implementing a SFV rate design will likely have tremendously differing impacts
14 on customers within each district. Mr. Johnstone has not attempted to quantify
15 these impacts on a revenue neutral basis let alone in conjunction with the
16 substantial increases in total revenue requirement proposed for the districts.

17 Third, in the Atmos and MGE cases, the Commission conditioned
18 approval of the SFV rate design on implementation of efficiency initiatives. Mr.
19 Johnstone offers no such recommendations in this case.

1 Finally, it is important to note that following the Atmos and MGE
2 decisions, the parties to both the AmerenUE Gas and Laclede Gas Stipulations
3 agreed to more traditional rate designs. While the parties committed to a more
4 traditional rate design solely for purpose of settling those cases, it does
5 demonstrate that a more traditional rate design can be considered a reasonable
6 outcome. Public Counsel urges the Commission to reject extending the SFV rate
7 design beyond the cases in which it has already approved such a rate design and
8 before being presented with reasonable justification for applying the SFV rate
9 design to water rates.

10 **Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?**

11 **A. Yes.**

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II. RESPONSES TO OTHER PARTIES 3

Office of the Public Counsel
MAWC Class Cost of Service Summary

Brunswick District

CLASS COST OF SERVICE SUMMARY:

	TOTAL	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	OTHER PUBLIC AUTHORITY	SALES FOR RESALE	PRIVATE FIRE SERVICE	PUBLIC FIRE SERVICE
1 O & M Expenses	448,417	224,549	54,189	869	8,960	149,814	1,210	8,826
2 Depreciation Expenses TOIT Def Tax Exp	80,606	41,894	9,298	124	1,324	22,106	622	5,238
3 Current Income Taxes	(159,271)	(82,805)	(18,080)	(233)	(2,519)	(41,979)	(1,486)	(12,168)
4 TOTAL Expenses and Taxes	369,752	183,639	45,407	760	7,765	129,941	345	1,896
5								
6 Spread of fire expenses & taxes to others	15 2,241	1,858	321	10	29	24	(345)	(1,896)
7 TOTAL Expenses and Taxes after Spread	369,752	185,496	45,728	769	7,794	129,965	-	-
8								
9 Current Revenue								
10 Rate Revenue	188,514	99,879	24,813	523	3,682	54,853	4,764	0
11 Other Revenue	25 210	111	26	0	4	68	0	0
12 Spread of fire revenue to others	15 4,764	3,950	682	20	61	51	(4,764)	0
13 TOTAL Current Revenues	188,724	103,940	25,521	544	3,747	54,972	0	0
14 Current Revenue Percentage	100.00%	55.08%	13.52%	0.29%	1.99%	29.13%	4.764	0.00%
15								
16 Net OPERATING INCOME	(181,028)	(81,556)	(20,207)	(226)	(4,047)	(74,993)	0	0
17								
18 TOTAL Rate Base	1,556,347	809,146	176,672	2,278	24,616	410,205	14,524	118,905
19								
20 Spread of fire rate base to others	15 133,430	110,625	19,099	570	1,710	1,425	(14,524)	(118,905)
21 TOTAL Rate Base after Spread	1,556,347	919,771	195,770	2,848	26,327	411,630	-	-
22								
23 Implicit Rate of Return (ROR)	-11.63%	-8.87%	-10.32%	-7.92%	-15.37%	-18.22%		
24								
25 Net Operating Income with Equalized ROR	(181,028)	(106,984)	(22,771)	(331)	(3,062)	(47,879)		
26								
27 Class COS with Equalized ROR	369,752	160,068	43,163	664	8,779	157,079		
28 - Class COS Percentage -	-100.00%	-43.29%	-11.67%	-0.18%	-2.37%	-42.48%		
29								
30 Staff Midpoint ROR	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%		
31								
32 Net Operating Income with Recommended ROR	99,606	58,865	12,529	182	1,685	26,344		
33 True-up plus add'l taxes	25 213,630	113,444	26,568	427	4,211	68,980		
34 Class COS with Staff Recommended ROR	682,988	357,805	84,825	1,379	13,690	225,289		
35 Class COS Percentage	100.00%	52.39%	12.42%	0.20%	2.00%	32.99%		
36	494,264	253,865	59,304	835	9,942	170,317		
37								
38								
39 Current Revenue	188,724	103,940	25,521	544	3,747	54,972		
40 Class Percentage	100.00%	55.08%	13.52%	0.29%	1.99%	29.13%		
41								
42 Class COS with Equalized ROR	369,752	160,068	43,163	664	8,779	157,079		
43 Class COS Percentage	100.00%	43.29%	11.67%	0.18%	2.37%	42.48%		
44								
45 Net Operating Income with Equalized ROR	(181,028)	(106,984)	(22,771)	(331)	(3,062)	(47,879)		
46 Revenue Neutral Shift to Equalize Class ROR	0	(25,428)	(2,565)	(106)	985	27,114		
47 Revenue Increase Decrease % of Current Revenue	0.00%	-24.46%	-10.05%	-19.42%	26.27%	49.32%		
48								
49 1/2 of Revenue Neutral Shift	0	(12,714)	(1,282)	(53)	492	13,557		
50 Revenue Increase Decrease Percentage	0.00%	-12.23%	-5.02%	-9.71%	13.14%	24.66%		
51								
52 Revenue Neutral Margin Revenue	188,724	91,226	24,239	491	4,239	68,529		
53 Recommended Class Revenue Percentage	100.00%	48.34%	12.84%	0.26%	2.25%	36.31%		

Jefferson City District

CLASS COST OF SERVICE SUMMARY:		TOTAL	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	OTHER PUBLIC AUTHORITY	SALES FOR RESALE	PRIVATE FIRE SERVICE	PUBLIC FIRE SERVICE
1	O & M Expenses	3,018,341	1,555,570	869,227	168,610	339,478	0	21,109	64,347
2	Depreciation Expenses/TOIT Def Tax Exp	800,029	382,063	229,731	42,777	80,635	0	12,355	52,468
3	Taxes	(13,661)	(6,474)	(3,950)	(724)	(1,365)	0	(220)	(928)
4	TOTAL Expenses and Taxes	3,804,709	1,931,158	1,095,008	210,663	418,749	-	33,244	115,887
5									
6	Spread of fire expenses & taxes to others	15 149,131	99,499	23,827	1,139	24,665	0	(33,244)	(115,887)
7	TOTAL Expenses and Taxes after Spread	3,804,709	2,030,658	1,118,835	211,802	443,414	-	-	-
8									
9	Current Revenue								
10	Rate Revenue	4,123,965	2,223,984	1,213,984	207,424	364,528	0	114,045	0
11	Other Revenue	27,334	14,280	8,142	1,560	3,089	0	264	0
12	Spread of fire revenue to others	15 114,309	76,266	18,264	873	18,906	0	(114,309)	0
13	TOTAL Current Revenues	4,151,299	2,314,530	1,240,389	209,857	386,523	0	0	0
14	Current Revenue Percentage	100.00%	55.75%	29.88%	5.06%	9.31%	0.00%	114.309	0.00%
15									
16	NET OPERATING INCOME	346,590	283,872	121,554	(1,945)	(56,891)	0	0	0
17									
18	TOTAL Rate Base	12,326,935	5,841,894	3,564,600	653,679	1,231,286	-	198,325	837,151
19									
20	Spread of fire rate base to others	15 1,035,476	690,862	165,443	7,909	171,261	0	(198,325)	(837,151)
21	TOTAL Rate Base after Spread	12,326,935	6,532,757	3,730,043	661,588	1,402,547	-	-	-
22									
23	Implicit Rate of Return (ROR)	2.81%	4.35%	3.26%	-0.29%	-4.06%	0.00%		
24									
25	Net Operating Income with Equalized ROR	346,590	183,678	104,876	18,602	39,435	-		
26									
27	Class COS with Equalized ROR	3,804,709	1,930,463	1,102,157	232,349	539,740	-		
28	Class COS Percentage	100.00%	50.74%	28.97%	6.11%	14.19%	0.00%		
29									
30	Staff Midpoint ROR	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%		
31									
32	Net Operating Income with Recommended ROR	788,924	418,096	238,723	42,342	89,763	-		
33	True-up plus add'l taxes	25 475,911	248,623	141,751	27,159	53,777	0		
34	Class COS with Staff Recommended ROR	5,069,544	2,697,377	1,499,310	281,303	586,954	-		
35	Class COS Percentage	100.00%	53.21%	29.57%	5.55%	11.58%	0.00%		
36		918,245	382,847	258,920	71,446	200,431	-		
37									
38									
39	Current Revenue	4,151,299	2,314,530	1,240,389	209,857	386,523	0		
40	Class Percentage	100.00%	55.75%	29.88%	5.06%	9.31%	0.00%		
41									
42	Class COS with Equalized ROR	3,804,709	1,930,463	1,102,157	232,349	539,740	-		
43	Class COS Percentage	100.00%	50.74%	28.97%	6.11%	14.19%	0.00%		
44									
45	Net Operating Income with Equalized ROR	346,590	183,678	104,876	18,602	39,435	-		
46	Revenue Neutral Shift to Equalize Class ROR	(0)	(100,194)	(16,678)	20,547	96,326	0		
47	Revenue Increase/Decrease % of Current Revenue	0.00%	-4.33%	-1.34%	9.79%	24.92%	0.00%		
48									
49	1/2 of Revenue Neutral Shift	(0)	(50,097)	(8,339)	10,273	48,163	0		
50	Revenue Increase/Decrease Percentage	0.00%	-2.16%	-0.67%	4.90%	12.46%	0.00%		
51									
52	Revenue Neutral Margin Revenue	4,151,299	2,264,433	1,232,050	220,130	434,686	0		
53	Recommended Class Revenue Percentage	100.00%	54.55%	29.68%	5.30%	10.47%	0.00%		

Office of the Public Counsel
MAWC Class Cost of Service Summary

Joplin District

CLASS COST OF SERVICE SUMMARY:		TOTAL	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	OTHER PUBLIC AUTHORITY	SALES FOR RESALE	PRIVATE FIRE SERVICE	PUBLIC FIRE SERVICE
1	O & M Expenses	5,526,037	2,534,870	1,109,672	1,297,093	139,403	205,965	33,752	205,282
2	Depreciation Expenses (OIF Def Tax Exp)	2,267,837	1,100,371	419,304	447,822	43,870	77,003	28,849	150,618
3	Taxes	(332,540)	(151,904)	(62,898)	(69,670)	(6,642)	(12,107)	(4,441)	(24,878)
4	TOTAL Expenses and Taxes	7,461,334	3,483,336	1,466,077	1,675,245	176,632	270,861	58,161	331,022
5									
6	Spread of fire expenses & taxes to others	15 389,183	339,409	46,935	1,316	2,324	100	(58,161)	(331,022)
7	TOTAL Expenses and Taxes after Spread	7,461,334	3,822,746	1,512,112	1,676,561	178,956	270,960	-	-
8									
9	Current Revenue								
10	Rate Revenue	7,598,527	3,930,228	1,702,662	1,362,141	189,072	203,363	211,051	10
11	Other Revenue	25 243,148	118,854	49,979	57,022	5,987	9,251	2,055	0
12	Spread of fire revenue to others	15 213,106	185,851	25,207	720	1,273	55	(213,106)	(10)
13	TOTAL Current Revenues	7,841,675	4,234,934	1,777,848	1,419,883	196,331	212,669	0	0
14	Current Revenue Percentage	100.00%	54.01%	22.67%	18.11%	2.50%	2.71%	213.106	0.00%
15									
16	NET OPERATING INCOME	380,341	412,188	265,736	(256,678)	17,376	(58,291)	0	0
17									
18	TOTAL Rate Base	33,874,132	15,473,703	6,407,143	7,096,887	676,537	1,233,303	452,346	2,534,213
19									
20	Spread of fire rate base to others	15 2,986,558	2,604,599	353,266	10,095	17,834	764	(452,346)	(2,534,213)
21	TOTAL Rate Base after Spread	33,874,132	18,078,302	6,760,409	7,106,983	694,371	1,234,067	-	-
22									
23	Implicit Rate of Return (ROR)	1.12%	2.28%	3.93%	-3.61%	2.50%	-4.72%		
24									
25	Net Operating Income with Equalized ROR	380,341	202,984	75,906	79,798	7,796	13,856		
26									
27	Class COS with Equalized ROR	7,461,344	3,613,542	1,322,282	2,013,036	169,377	343,108		
28	Class COS Percentage	100.00%	48.43%	17.72%	26.98%	2.27%	4.60%		
29									
30	Staff Midpoint ROR	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%		
31									
32	Net Operating Income with Recommended ROR	2,167,944	1,157,011	432,666	454,847	44,440	78,980		
33	True-up plus add'l taxes	25 386,899	189,122	79,527	90,733	9,526	14,721		
34	Class COS with Staff Recommended ROR	10,016,177	5,168,879	2,024,305	2,222,141	232,922	364,661		
35	Class COS Percentage	100.00%	51.61%	20.21%	22.19%	2.33%	3.64%		
36		2,554,833	1,555,337	702,023	209,105	63,545	21,553		
37									
38									
39	Current Revenue	7,841,675	4,234,934	1,777,848	1,419,883	196,331	212,669		
40	Class Percentage	100.00%	54.01%	22.67%	18.11%	2.50%	2.71%		
41									
42	Class COS with Equalized ROR	7,461,344	3,613,542	1,322,282	2,013,036	169,377	343,108		
43	Class COS Percentage	100.00%	48.43%	17.72%	26.98%	2.27%	4.60%		
44									
45	Net Operating Income with Equalized ROR	380,341	202,984	75,906	79,798	7,796	13,856		
46	Revenue Neutral Shift to Equalize Class ROR	10	(209,204)	(189,830)	336,475	(9,579)	72,148		
47	Revenue Increase Decrease % of Current Revenue	0.00%	-4.94%	-10.68%	23.70%	-4.88%	33.92%		
48									
49	1/2 of Revenue Neutral Shift	5	(104,602)	(94,915)	168,238	(4,790)	36,074		
50	Revenue Increase Decrease Percentage	0.00%	-2.47%	-5.34%	11.85%	-2.44%	16.96%		
51									
52	Revenue Neutral Margin Revenue	7,841,670	4,130,332	1,682,933	1,588,121	191,542	248,743		
53	Recommended Class Revenue Percentage	100.00%	52.67%	21.46%	20.25%	2.44%	3.17%		

Office of the Public Counsel
MAWC Class Cost of Service Summary

Mexico District

CLASS COST OF SERVICE SUMMARY:		TOTAL	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	OTHER PUBLIC AUTHORITY	SALES FOR RESALE	PRIVATE FIRE SERVICE	PUBLIC FIRE SERVICE
1	O & M Expenses	1,434,079	604,962	196,788	223,073	129,691	209,070	10,922	59,574
2	Depreciation Expenses TOIT Def Tax Exp	552,980	252,417	72,336	78,367	41,401	74,731	5,487	28,242
3	Taxes	90,558	40,388	11,956	13,134	6,878	12,622	872	4,707
4	TOTAL Expenses and Taxes	2,077,617	897,766	281,080	314,574	177,970	296,422	17,281	92,523
5									
6	Spread of fire expenses & taxes to others	15 109,804	96,832	10,095	563	2,165	148	(17,281)	(92,523)
7	TOTAL Expenses and Taxes after Spread	2,077,617	994,599	291,175	315,137	180,135	296,570	-	-
8									
9	Current Revenue								
10	Rate Revenue	2,535,447	1,222,378	341,011	374,721	194,675	314,090	88,572	0
11	Other Revenue	25 48,843	22,264	6,894	7,686	4,289	7,270	439	0
12	Spread of fire revenue to others	15 89,011	78,496	8,184	457	1,755	120	(89,011)	0
13	TOTAL Current Revenues	2,584,290	1,323,138	356,089	382,864	200,719	321,480	0	0
14	Current Revenue Percentage	100.00%	51.20%	13.78%	14.82%	7.77%	12.44%	89.011	0.00%
15									
16	NET OPERATING INCOME	506,673	328,539	64,913	67,727	20,583	24,910	0	0
17	(2) 35,615								
18	TOTAL Rate Base	12,633,884	5,634,550	1,668,024	1,832,317	959,627	1,760,915	121,708	656,743
19									
20	Spread of fire rate base to others	15 778,450	686,489	71,571	3,993	15,349	1,048	(121,708)	(656,743)
21	TOTAL Rate Base after Spread	12,633,884	6,321,039	1,739,595	1,836,310	974,976	1,761,963	-	-
22									
23	Implicit Rate of Return (ROR)	4.01%	5.20%	3.73%	3.69%	2.11%	1.41%		
24									
25	Net Operating Income with Equalized ROR	506,673	253,501	69,765	73,644	39,101	70,662		
26									
27	Class COS with Equalized ROR	2,077,617	919,560	296,027	321,055	198,653	342,322		
28	Class COS Percentage	100.00%	44.26%	14.25%	15.45%	9.56%	16.48%		
29									
30	Staff Midpoint ROR	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%		
31									
32	Net Operating Income with Recommended ROR	808,569	404,546	111,334	117,524	62,398	112,766		
33	True-up plus add'l taxes	25 544,243	248,086	76,813	85,649	47,790	81,013		
34	Class COS with Staff Recommended ROR	3,430,429	1,647,231	479,322	518,310	290,324	490,349		
35	Class COS Percentage	100.00%	48.02%	13.97%	15.11%	8.46%	14.29%		
36		1,352,812	727,671	183,295	197,256	91,671	148,027		
37									
38									
39	Current Revenue	2,584,290	1,323,138	356,089	382,864	200,719	321,480		
40	Class Percentage	100.00%	51.20%	13.78%	14.82%	7.77%	12.44%		
41									
42	Class COS with Equalized ROR	2,077,617	919,560	296,027	321,055	198,653	342,322		
43	Class COS Percentage	100.00%	44.26%	14.25%	15.45%	9.56%	16.48%		
44									
45	Net Operating Income with Equalized ROR	506,673	253,501	69,765	73,644	39,101	70,662		
46	Revenue Neutral Shift to Equalize Class ROR	0	(75,039)	4,852	5,917	18,517	45,752		
47	Revenue Increase/Decrease % of Current Revenue	0.00%	-5.67%	1.36%	1.55%	9.23%	14.23%		
48									
49	1/2 of Revenue Neutral Shift	0	(37,519)	2,426	2,959	9,259	22,876		
50	Revenue Increase/Decrease Percentage	0.00%	-2.84%	0.68%	0.77%	4.61%	7.12%		
51									
52	Revenue Neutral Margin Revenue	2,584,290	1,285,619	358,515	385,823	209,978	344,356		
53	Recommended Class Revenue Percentage	100.00%	49.75%	13.87%	14.93%	8.13%	13.32%		

Office of the Public Counsel
MAWC Class Cost of Service Summary

Parkville District

CLASS COST OF SERVICE SUMMARY:		TOTAL	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	OTHER PUBLIC AUTHORITY	SALES FOR RESALE	PRIVATE FIRE SERVICE	PUBLIC FIRE SERVICE
1	O & M Expenses	1,232,581	772,290	257,441	11,361	24,934	92,295	11,403	62,856
2	Depreciation Expenses	883,263	480,232	222,917	5,922	10,383	61,763	15,140	86,907
3	Taxes	271,698	148,138	66,434	1,857	3,162	19,943	4,512	27,662
4	TOTAL Expenses and Taxes	2,387,542	1,400,660	546,783	19,140	38,479	174,000	31,055	177,425
5									
6	Spread of fire expenses & taxes to others	15 208,480	103,892	103,892	73	498	125	(31,055)	(177,425)
7	TOTAL Expenses and Taxes after Spread	2,387,542	1,504,552	650,675	19,213	38,977	174,125	-	-
8									
9	Current Revenue								
10	Rate Revenue	3,161,898	2,270,945	578,465	21,371	47,177	159,291	84,624	25
11	Other Revenue	25 37,780	23,707	9,569	317	616	3,000	572	0
12	Spread of fire revenue to others	15 85,196	42,456	42,456	30	204	51	(85,196)	(25)
13	TOTAL Current Revenues	3,199,678	2,337,108	630,490	21,718	47,996	162,342	0	0
14	Current Revenue Percentage	100.00%	73.04%	19.70%	0.68%	1.50%	5.07%	85.196	0.00%
15									
16	NET OPERATING INCOME	812,136	832,556	(20,185)	2,505	9,019	(11,783)	0	0
17	(305,465) 35,615								
18	TOTAL Rate Base	12,176,352	6,638,906	2,976,860	83,231	141,704	893,747	202,213	1,239,691
19									
20	Spread of fire rate base to others	15 1,441,904	718,547	718,547	505	3,445	861	(202,213)	(1,239,691)
21	TOTAL Rate Base after Spread	12,176,352	7,357,453	3,695,406	83,735	145,149	894,608	-	-
22									
23	Implicit Rate of Return (ROR)	6.67%	11.32%	-0.55%	2.99%	6.21%	-1.32%		
24									
25	Net Operating Income with Equalized ROR	812,136	490,726	246,476	5,585	9,681	59,668		
26									
27	Class COS with Equalized ROR	2,387,567	1,162,722	917,336	22,294	39,639	245,577		
28	Class COS Percentage	100.00%	48.70%	38.42%	0.93%	1.66%	10.29%		
29									
30	Staff Midpoint ROR	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%		
31									
32	Net Operating Income with Recommended ROR	779,287	470,877	236,506	5,359	9,290	57,255		
33	True-up plus add'l taxes	25 746,530	468,447	189,075	6,267	12,170	59,276		
34	Class COS with Staff Recommended ROR	3,913,359	2,443,876	1,076,256	30,839	60,437	290,656		
35	Class COS Percentage	100.00%	62.45%	27.50%	0.79%	1.54%	7.43%		
36		1,525,792	1,281,154	158,920	8,546	20,798	45,079		
37									
38									
39	Current Revenue	3,199,678	2,337,108	630,490	21,718	47,996	162,342		
40	Class Percentage	100.00%	73.04%	19.70%	0.68%	1.50%	5.07%		
41									
42	Class COS with Equalized ROR	2,387,567	1,162,722	917,336	22,294	39,639	245,577		
43	Class COS Percentage	100.00%	48.70%	38.42%	0.93%	1.66%	10.29%		
44									
45	Net Operating Income with Equalized ROR	812,136	490,726	246,476	5,585	9,681	59,668		
46	Revenue Neutral Shift to Equalize Class ROR	25 (341,830)		266,661	3,080	662	71,452		
47	Revenue Increase Decrease % of Current Revenue	0.00%	-14.63%	42.29%	14.18%	1.38%	44.01%		
48									
49	1/2 of Revenue Neutral Shift	12 (170,915)		133,330	1,540	331	35,726		
50	Revenue Increase Decrease Percentage	0.00%	-7.31%	21.15%	7.09%	0.69%	22.01%		
51									
52	Revenue Neutral Margin Revenue	3,199,666	2,166,193	763,820	23,258	48,327	198,068		
53	Recommended Class Revenue Percentage	100.00%	67.70%	23.87%	0.73%	1.51%	6.19%		

Office of the Public Counsel
MAWC Class Cost of Service Summary

St Charles District

CLASS COST OF SERVICE SUMMARY:		TOTAL	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	OTHER PUBLIC AUTHORITY	SALES FOR RESALE	PRIVATE FIRE SERVICE	PUBLIC FIRE SERVICE
1	O & M Expenses	3,632,934	2,967,469	297,739	773	54,689	0	37,506	274,758
2	Depreciation Expenses/TOIT Def Tax Exp	2,001,331	1,546,858	151,642	295	23,285	0	28,393	250,858
3	Taxes	1,073,713	821,956	87,935	172	13,660	0	15,540	134,451
4	TOTAL Expenses and Taxes	6,707,978	5,336,283	537,316	1,239	91,633	0	81,439	660,067
5									
6	Spread of fire expenses & taxes to others	15 741,506	716,061	23,685	26	1,735		(81,439)	(660,067)
7	TOTAL Expenses and Taxes after Spread	6,707,978	6,052,345	561,000	1,265	93,368		-	-
8									
9	Current Revenue								
10	Rate Revenue	9,148,141	7,895,445	951,030	2,427	165,921	0	133,318	0
11	Other Revenue	25 292,321	257,352	26,346	58	4,378		4,186	0
12	Spread of fire revenue to others	15 137,504	132,786	4,392	5	322		(137,504)	0
13	TOTAL Current Revenues	9,440,463	8,285,583	981,769	2,490	170,621	0	0	0
14	Current Revenue Percentage	100.00%	87.77%	10.40%	0.03%	1.81%		137,504	0.00%
15									
16	NET OPERATING INCOME	2,732,485	2,233,238	420,768	1,225	77,253	0	0	0
17	(2,225,814) 35.615								
18	TOTAL Rate Base	38,775,303	29,683,540	3,175,610	6,197	493,294	-	561,186	4,855,476
19									
20	Spread of fire rate base to others	15 5,416,662	5,230,788	173,016	186	12,671		(561,186)	(4,855,476)
21	TOTAL Rate Base after Spread	38,775,303	34,914,328	3,348,627	6,384	505,965		-	-
22									
23	Implicit Rate of Return (ROR)	7.05%	6.40%	12.57%	19.19%	15.27%			
24	162								
25	Net Operating Income with Equalized ROR	2,732,485	2,460,403	235,977	450	35,655	-		
26									
27	Class COS with Equalized ROR	6,707,978	6,279,509	376,209	489	51,770	-		
28	Class COS Percentage	100.00%	93.61%	5.61%	0.01%	0.77%	0.00%		
29									
30	Staff Midpoint ROR	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%		
31	162								
32	Net Operating Income with Recommended ROR	2,481,619	2,234,517	214,312	409	32,382	-		
33	True-up plus add'l taxes	1,147,977	1,010,649	103,465	228	17,195	-		
34	Class COS with Staff Recommended ROR	10,337,574	9,297,511	878,777	1,901	142,945	-		
35	Class COS Percentage	100.00%	89.94%	8.50%	0.02%	1.38%	0.00%		
36		3,629,596	3,018,001	502,568	1,412	91,174	-		
37									
38									
39	Current Revenue	9,440,463	8,285,583	981,769	2,490	170,621	0		
40	Class Percentage	100.00%	87.77%	10.40%	0.03%	1.81%	0.00%		
41									
42	Class COS with Equalized ROR	6,707,978	6,279,509	376,209	489	51,770	-		
43	Class COS Percentage	100.00%	93.61%	5.61%	0.01%	0.77%	0.00%		
44									
45	Net Operating Income with Equalized ROR	2,732,485	2,460,403	235,977	450	35,655	-		
46	Revenue Neutral Shift to Equalize Class ROR	0	227,165	(184,791)	(775)	(41,598)			
47	Revenue Increase/Decrease % of Current Revenue	0.00%	2.74%	-18.82%	-31.14%	-24.38%			
48									
49	1/2 of Revenue Neutral Shift	0	113,582	(92,396)	(388)	(20,799)	0		
50	Revenue Increase/Decrease Percentage	0.00%	1.37%	-9.41%	-15.57%	-12.19%			
51									
52	Revenue Neutral Margin Revenue	9,440,463	8,399,165	889,373	2,102	149,822	0		
53	Recommended Class Revenue Percentage	100.00%	88.97%	9.42%	0.02%	1.59%	0.00%		

Office of the Public Counsel
MAWC Class Cost of Service Summary

St Joseph District

CLASS COST OF SERVICE SUMMARY:		TOTAL	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	OTHER PUBLIC AUTHORITY	SALES FOR RESALE	PRIVATE FIRE SERVICE	PUBLIC FIRE SERVICE
1	O & M Expenses	7,789,711	3,512,092	1,298,682	1,353,324	315,544	1,032,301	34,806	242,962
2	Depreciation Expenses	3,897,129	1,638,911	642,799	697,686	145,023	548,338	28,541	195,831
3	Taxes	433,466	176,761	72,497	79,883	16,468	62,959	3,152	21,747
4	TOTAL Expenses and Taxes	12,120,306	5,327,764	2,013,977	2,130,893	477,035	1,643,598	66,500	460,540
5									
6	Spread of fire expenses & taxes to others	15 527,040	471,965	49,278	2,133	3,333	330	(66,500)	(460,540)
7	TOTAL Expenses and Taxes after Spread	12,120,306	5,799,730	2,063,255	2,133,025	480,368	1,643,928	-	-
8									
9	Current Revenue								
10	Rate Revenue	15,142,852	7,577,212	2,772,889	2,207,747	583,103	1,827,213	174,687	1
11	Other Revenue	25 292,119	131,819	50,657	54,060	11,893	41,902	1,788	0
12	Spread of fire revenue to others	15 176,475	158,034	16,500	714	1,116	111	(176,475)	(1)
13	TOTAL Current Revenues	15,434,972	7,867,065	2,840,047	2,262,521	596,112	1,869,225	0	0
14	Current Revenue Percentage	100.00%	50.97%	18.40%	14.66%	3.86%	12.11%	176,475	0.00%
15									
16	NET OPERATING INCOME	3,314,666	2,067,335	776,792	129,496	115,744	225,298	0	0
17	(2,807,995)	35,615							
18	TOTAL Rate Base	80,250,069	32,724,837	13,421,719	14,789,164	3,048,738	11,655,925	583,578	4,026,108
19									
20	Spread of fire rate base to others	15 4,609,686	4,127,984	431,007	18,652	29,153	2,889	(583,578)	(4,026,108)
21	TOTAL Rate Base after Spread	80,250,069	36,852,821	13,852,726	14,807,816	3,077,892	11,658,814	-	-
22									
23	Implicit Rate of Return (ROR)	4.13%	5.61%	5.61%	0.87%	3.76%	1.93%		
24									
25	Net Operating Income with Equalized ROR	3,314,666	1,522,177	572,176	611,625	127,130	481,558		
26									
27	Class COS with Equalized ROR	12,120,307	5,254,571	1,858,640	2,615,154	491,753	1,900,188		
28	Class COS Percentage	100.00%	43.35%	15.33%	21.58%	4.06%	15.68%		
29									
30	Staff Midpoint ROR	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%		
31									
32	Net Operating Income with Recommended ROR	5,136,004	2,358,581	886,574	947,700	196,985	746,164		
33	True-up plus add'l taxes	25 1,860,301	839,463	322,599	344,271	75,740	266,843		
34	Class COS with Staff Recommended ROR	19,116,611	8,997,774	3,272,429	3,424,996	753,093	2,656,935		
35	Class COS Percentage	100.00%	47.07%	17.12%	17.92%	3.94%	13.90%		
36		6,996,304	3,743,203	1,413,789	809,842	261,340	756,746		
37									
38									
39	Current Revenue	15,434,972	7,867,065	2,840,047	2,262,521	596,112	1,869,225		
40	Class Percentage	100.00%	50.97%	18.40%	14.66%	3.86%	12.11%		
41									
42	Class COS with Equalized ROR	12,120,307	5,254,571	1,858,640	2,615,154	491,753	1,900,188		
43	Class COS Percentage	100.00%	43.35%	15.33%	21.58%	4.06%	15.68%		
44									
45	Net Operating Income with Equalized ROR	3,314,666	1,522,177	572,176	611,625	127,130	481,558		
46	Revenue Neutral Shift to Equalize Class ROR	1	(545,159)	(204,616)	482,129	11,385	256,261		
47	Revenue Increase/Decrease % of Current Revenue	0.00%	-6.93%	-7.20%	21.31%	1.91%	13.71%		
48									
49	1/2 of Revenue Neutral Shift	0	(272,579)	(102,308)	241,065	5,693	128,130		
50	Revenue Increase/Decrease Percentage	0.00%	-3.46%	-3.60%	10.65%	0.95%	6.85%		
51									
52	Revenue Neutral Margin Revenue	15,434,971	7,594,485	2,737,739	2,503,586	601,805	1,997,356		
53	Recommended Class Revenue Percentage	100.00%	49.20%	17.74%	16.22%	3.90%	12.94%		

St. Louis District CLASS COST OF SERVICE SUMMARY:		TOTAL	A and Others	J&D	B&C	Private Fire	Public Fire
1	O & M Expenses	63,871,328	46,117,554	8,252,685	484,730	542,688	8,473,672
2	Depreciation Expenses TOIT Def Tax Exp	23,826,499	17,709,757	2,958,203	176,616	210,363	2,771,560
3	Taxes	8,167,020	6,055,594	1,022,724	61,110	78,972	948,620
4	TOTAL Expenses and Taxes	95,864,847	69,882,905	12,233,612	722,456	832,023	12,193,851
5							
6	Spread of fire expenses & taxes to othe	15 13,025,874	12,974,657	24,649	26,568	(832,023)	(12,193,851)
7	TOTAL Expenses and Taxes after Spread	95,864,847	82,857,562	12,258,261	749,024	-	-
8							
9	Current Revenue						
10	Rate Revenue	119,752,167	100,936,971	11,079,403	1,053,559	711,978	5,970,256
11	Other Revenue	25 1,302,091	1,099,765	191,018	11,309	0	0
12	Spread of fire revenue to others	15 6,682,234	6,655,960	12,645	13,629	(711,978)	(5,970,256)
13	TOTAL Current Revenues	121,054,259	108,692,696	11,283,066	1,078,497	0	0
14	Current Revenue Percentage	100.00%	89.79%	9.32%	0.89%	0.00%	0.00%
15							
16	NET OPERATING INCOME	25,189,412	25,835,134	(975,196)	329,473	0	0
17							
18	TOTAL Rate Base	360,679,658	267,432,849	45,166,509	2,698,812	3,487,639	41,893,850
19							
20	Spread of fire rate base to others	15 45,381,489	45,203,051	85,876	92,562	(3,487,639)	(41,893,850)
21	TOTAL Rate Base after Spread	360,679,658	312,635,899	45,252,385	2,791,373	-	-
22							
23	Implicit Rate of Return (ROR)	6.98%	8.26%	-2.16%	11.80%		
24							
25	Net Operating Income with Equalized ROR	25,189,412	21,834,096	3,160,369	194,946		
26							
27	Class COS with Equalized ROR	95,864,847	78,856,524	16,393,826	614,497		
28	Class COS Percentage	100.00%	82.26%	17.10%	0.64%		
29							
30	Staff Midpoint ROR	6.40%	6.40%	6.40%	6.40%		
31							
32	Net Operating Income with Recommended ROR	23,083,498	20,008,698	2,896,153	178,648		
33	True-up plus add'l taxes	25 9,978,850	8,428,278	1,463,905	86,666		
34	Class COS with Staff Recommended ROR	128,927,195	111,294,538	16,618,319	1,014,338		
35	Class COS Percentage	100.00%	86.32%	12.89%	0.79%		
36		33,062,348	32,438,014	224,493	399,841		
37							
38							
39	Current Revenue	121,054,259	108,692,696	11,283,066	1,078,497		
40	Class Percentage	100.00%	89.79%	9.32%	0.89%		
41							
42	Class COS with Equalized ROR	95,864,847	78,856,524	16,393,826	614,497		
43	Class COS Percentage	100.00%	82.26%	17.10%	0.64%		
44							
45	Net Operating Income with Equalized ROR	25,189,412	21,834,096	3,160,369	194,946		
46	Revenue Neutral Shift to Equalize Class ROR	0	(4,001,038)	4,135,565	(134,527)		
47	Revenue Increase/Decrease % of Current Revenue	0.00%	-3.68%	36.65%	-12.47%		
48							
49	1/2 of Revenue Neutral Shift	0	(2,000,519)	2,067,782	(67,264)		
50	Revenue Increase/Decrease Percentage	0.00%	-1.84%	18.33%	-6.24%		
51							
52	Revenue Neutral Margin Revenue	121,054,259	106,692,177	13,350,848	1,011,233		
53	Recommended Class Revenue Percentage	100.00%	88.14%	11.03%	0.84%		

Office of the Public Counsel
MAWC Class Cost of Service Summary

Wartensburg District

CLASS COST OF SERVICE SUMMARY:		TOTAL	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	OTHER PUBLIC AUTHORITY	SALES FOR RETAIL	PRIVATE FIRE SERVICE	PUBLIC FIRE SERVICE
1	O & M Expenses	1,214,741	599,882	198,403	37,864	182,185	108,259	12,055	76,092
2	Depreciation Expenses/Def Tax Exp	579,500	304,651	84,771	15,915	69,025	48,373	7,233	49,533
3	Taxes	178,235	89,379	26,554	5,078	22,053	15,792	2,395	16,984
4	TOTAL Expenses and Taxes	1,972,476	993,912	309,728	58,857	273,263	172,425	21,682	142,609
5									
6	Spread of fire expenses & taxes to others	15 164,291	154,455	9,190	311	335	0	(21,682)	(142,609)
7	TOTAL Expenses and Taxes after Spread	1,972,476	1,148,367	318,918	59,168	273,598	172,425	-	-
8									
9	Current Revenue								
10	Rate Revenue	2,493,543	1,359,577	503,174	56,497	333,934	176,726	63,635	0
11	Other Revenue	25 73,761	40,240	12,414	2,361	10,813	7,009	923	0
12	Spread of fire revenue to others	15 64,558	60,693	3,611	122	132	0	(64,558)	0
13	TOTAL Current Revenues	2,567,303	1,460,510	519,199	58,981	344,879	183,735	0	0
14	Current Revenue Percentage	100.00%	56.89%	20.22%	2.30%	13.43%	7.16%	64.558	0.00%
15									
16	NET OPERATING INCOME	594,827	312,143	200,281	(187)	71,281	11,310	0	0
17									
18	TOTAL Rate Base	10,257,301	5,143,710	1,528,158	292,263	1,269,115	908,833	137,832	977,390
19									
20	Spread of fire rate base to others	15 1,115,222	1,048,454	62,383	2,110	2,275	0	(137,832)	(977,390)
21	TOTAL Rate Base after Spread	10,257,301	6,192,164	1,590,542	294,373	1,271,389	908,833	-	-
22									
23	Implicit Rate of Return (ROR)	5.80%	5.04%	12.59%	-0.06%	5.61%	1.24%		
24									
25	Net Operating Income with Equalized ROR	594,827	359,087	92,236	17,071	73,729	52,704		
26									
27	Class COS with Equalized ROR	1,972,476	1,195,311	210,874	76,426	276,046	213,818		
28	Class COS Percentage	100.00%	60.60%	10.69%	3.87%	13.99%	10.84%		
29									
30	Staff Midpoint ROR	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%		
31									
32	Net Operating Income with Recommended ROR	656,467	396,299	101,795	18,840	81,369	58,165		
33	True-up plus add'l taxes	564,210	307,804	94,956	18,063	82,714	53,611		
34	Class COS with Staff Recommended ROR	3,193,153	1,852,470	515,668	96,071	437,681	284,201		
35	Class COS Percentage	100.00%	58.01%	16.15%	3.01%	13.71%	8.90%		
36		1,220,677	657,159	304,794	19,644	161,635	70,383		
37									
38									
39	Current Revenue	2,567,303	1,460,510	519,199	58,981	344,879	183,735		
40	Class Percentage	100.00%	56.89%	20.22%	2.30%	13.43%	7.16%		
41									
42	Class COS with Equalized ROR	1,972,476	1,195,311	210,874	76,426	276,046	213,818		
43	Class COS Percentage	100.00%	60.60%	10.69%	3.87%	13.99%	10.84%		
44									
45	Net Operating Income with Equalized ROR	594,827	359,087	92,236	17,071	73,729	52,704		
46	Revenue Neutral Shift to Equalize Class ROR	0	46,944	(108,044)	17,258	2,448	41,394		
47	Revenue Increase/Decrease % of Current Revenue	0.00%	3.21%	-20.81%	29.26%	0.71%	22.53%		
48									
49	1/2 of Revenue Neutral Shift	0	23,472	(54,022)	8,629	1,224	20,697		
50	Revenue Increase/Decrease Percentage	0.00%	1.61%	-10.40%	14.63%	0.35%	11.26%		
51									
52	Revenue Neutral Margin Revenue	2,567,303	1,483,982	465,177	67,610	346,103	204,432		
53	Recommended Class Revenue Percentage	100.00%	57.80%	18.12%	2.63%	13.48%	7.96%		

Missouri-American Water Company
Case No. WR-2007-0216

Based On Staff's Midpoint Revenue Requirement

	Brunswick	Jefferson City	Joplin	Mexico	Parkville	St. Charles
Revenue Requirement Increase (COS)	\$ 541,325	\$ 1,030,978	\$ 4,177,354	\$ 608,862	\$ 375,688	\$ (206,956)
Current Revenue	\$ 188,724	\$ 4,151,299	\$ 7,841,675	\$ 2,584,290	\$ 3,199,678	\$ 9,440,463
COS District % Increase/Decrease	286.83%	24.84%	53.27%	23.56%	11.74%	-2.19%

Proposed District Revenue Requirement

Capped Increase Percent	53.27%					
Capped \$ Increase	\$ 100,536					
Subsidy Contribution	(440,789)					\$ 157,816
District Increase/Decrease	\$ 100,536	\$ 1,030,978	\$ 4,177,354	\$ 608,862	\$ 375,688	\$ (49,140)
Proposed Percent increase	53.27%	24.84%	53.27%	23.56%	11.74%	-0.52%

Proposed Class Revenues based on equal percentage increase

Current Class Revenues excluding Tax Adjustment and ISRS

Residential	\$ 99,879	\$ 2,223,984	\$ 3,930,228	\$ 1,222,378	\$ 2,270,945	\$ 7,895,445
Commercial	\$ 24,813	\$ 1,213,984	\$ 1,702,662	\$ 341,011	\$ 578,465	\$ 951,030
Industrial	\$ 523	\$ 207,424	\$ 1,362,141	\$ 374,721	\$ 21,371	\$ 2,427
Public Authorities	\$ 3,682	\$ 364,528	\$ 189,072	\$ 194,675	\$ 47,177	\$ 165,921
Sales For Resale	\$ 54,853	\$ -	\$ 203,363	\$ 314,090	\$ 159,291	\$ 20,977
Private Fire	\$ 4,764	\$ 114,045	\$ 211,051	\$ 88,572	\$ 84,624	\$ 133,318
Public Fire	\$ -	\$ -	\$ 10	\$ -	\$ 25	\$ -
Total Revenue	\$ 188,514	\$ 4,123,965	\$ 7,598,527	\$ 2,535,447	\$ 3,161,898	\$ 9,169,118

Share of Current Class Revenue

Residential	52.98%	53.93%	51.72%	48.21%	71.82%	86.11%
Commercial	13.16%	29.44%	22.41%	13.45%	18.29%	10.37%
Industrial	0.28%	5.03%	17.93%	14.78%	0.68%	0.03%
Public Authorities	1.95%	8.84%	2.49%	7.68%	1.49%	1.81%
Sales For Resale	29.10%	0.00%	2.68%	12.39%	5.04%	0.23%
Private Fire	2.53%	2.77%	2.78%	3.49%	2.68%	1.45%
Public Fire	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Equal Percent Class Revenue Increase/Decrease

Residential	\$ 53,266	\$ 555,989	\$ 2,160,676	\$ 293,542	\$ 269,827	\$ (42,314)
Commercial	\$ 13,233	\$ 303,492	\$ 936,053	\$ 81,890	\$ 68,732	\$ (5,097)
Industrial	\$ 279	\$ 51,855	\$ 748,849	\$ 89,985	\$ 2,539	\$ (13)
Public Authorities	\$ 1,964	\$ 91,131	\$ 103,944	\$ 46,749	\$ 5,605	\$ (889)
Sales For Resale	\$ 29,253	\$ -	\$ 111,801	\$ 75,426	\$ 18,927	\$ (112)
Private Fire	\$ 2,541	\$ 28,511	\$ 116,027	\$ 21,270	\$ 10,055	\$ (714)
Public Fire	\$ -	\$ -	\$ 5	\$ -	\$ 3	\$ -
Total	\$ 100,536	\$ 1,030,978	\$ 4,177,354	\$ 608,862	\$ 375,688	\$ (49,140)

Missouri-American Water Company
Case No. WR-2007-0216

Based On Staff's Midpoint Revenue Requirement

	St. Joseph	Warren County	Warrensburg	St. Louis	Total
Revenue Requirement Increase (COS)	\$ 3,401,655	\$ 214,537	\$ 355,353	\$ 2,239,173	\$ 12,737,969
Current Revenue	\$ 15,434,972	\$ 106,477	\$ 2,567,303	\$ 121,039,838	\$ 166,554,719
COS District % Increase/Decrease	22.04%	201.49%	13.84%	1.85%	7.65%

Proposed District Revenue Requirement

Capped Increase Percent		53.27%			
Capped \$ Increase		\$ 56,722			
Subsidy Contribution		\$ (157,816)		\$ 440,789	
District Increase/Decrease	\$ 3,401,655	\$ 56,722	\$ 355,353	\$ 2,679,962	\$ 12,737,969
Proposed Percent increase	22.04%	53.27%	13.84%	2.21%	7.65%

Proposed Class Revenues based on equal percentage increase

Current Class Revenues excluding Tax Adjustment and ISRS					
Residential	\$ 7,577,212	\$ 104,949	\$ 1,359,577	A and Others	\$ 100,936,971
Commercial	\$ 2,772,889	\$ 1,360	\$ 503,174	J&D	\$ 11,079,403
Industrial	\$ 2,207,747	\$ -	\$ 56,497	B&C	\$ 1,053,559
Public Authorities	\$ 583,103	\$ -	\$ 333,934	Private Fire	\$ 711,978
Sales For Resale	\$ 1,827,213	\$ -	\$ 176,726	Public Fire	\$ 5,970,256
Private Fire	\$ 174,687	\$ -	\$ 63,635		
Public Fire	\$ 1	\$ -	\$ -		
Total Revenue	\$ 15,142,852	\$ 106,309	\$ 2,493,543		\$ 119,752,167

Share of Current Class Revenue

Residential	50.04%	98.72%	54.52%	A and Others	84.29%
Commercial	18.31%	1.28%	20.18%	J&D	9.25%
Industrial	14.58%	0.00%	2.27%	B&C	0.88%
Public Authorities	3.85%	0.00%	13.39%	Private Fire	0.59%
Sales For Resale	12.07%	0.00%	7.09%	Public Fire	4.99%
Private Fire	1.15%	0.00%	2.55%		
Public Fire	0.00%	0.00%	0.00%		

Equal Percent Class Revenue Increase/Decrease

Residential	\$ 1,702,127	\$ 55,996	\$ 193,752	A and Others	\$ 2,258,892
Commercial	\$ 622,895	\$ 726	\$ 71,707	J&D	\$ 247,949
Industrial	\$ 495,943	\$ -	\$ 8,051	B&C	\$ 23,578
Public Authorities	\$ 130,987	\$ -	\$ 47,589	Private Fire	\$ 15,934
Sales For Resale	\$ 410,461	\$ -	\$ 25,185	Public Fire	\$ 133,610
Private Fire	\$ 39,241	\$ -	\$ 9,069		
Public Fire	\$ 0	\$ -	\$ -		
Total	\$ 3,401,655	\$ 56,722	\$ 355,353		\$ 2,679,962
					\$ 12,737,969

St. Joseph District Uniform Block Rate Proposal

			<u>Usage</u>	<u>Present Rates</u>	<u>Revenue Amount</u>
<u>Residential</u>					
	For the first	100,000	1,626,028	\$3.1010	\$ 5,042,314
	For the next	1,900,000	15,823	1.7373	\$ 27,490
	For the next	3,000,000	1,319	1.3406	\$ 1,768
	For all over	5,000,000	5,274	0.9028	\$ 4,762
					\$ 5,076,333
<u>Commercial</u>					
	For the first	100,000	467,941	3.5681	\$ 1,669,660
	For the next	1,900,000	319,073	1.9989	\$ 637,796
	For the next	3,000,000	35,453	1.5427	\$ 54,693
	For all over	5,000,000	7,805	1.0388	\$ 8,107
					\$ 2,370,256
<u>Industrial</u>					
	For the first	100,000	50,727	5.0756	\$ 257,470
	For the next	1,900,000	350,557	2.8433	\$ 996,740
	For the next	3,000,000	189,316	1.715	\$ 324,676
	For all over	5,000,000	403,401	1.401	\$ 565,164
					\$ 2,144,051
<u>Public Authority</u>					
	For the first	100,000	62,292	3.9599	\$ 246,671
	For the next	1,900,000	79,094	2.2148	\$ 175,178
	For the next	3,000,000	41,220	1.712	\$ 70,569
	For all over	5,000,000	26,089	1.1528	\$ 30,075
					\$ 522,494
<u>Sale for Resale</u>					
	For the first	100,000	10,873	5.6592	\$ 61,530
	For the next	1,900,000	175,331	3.1703	\$ 555,851
	For the next	3,000,000	237,473	2.4466	\$ 581,001
	For all over	5,000,000	372,395	1.6495	\$ 614,265
					\$ 1,812,648

Uniform Block Rate Development

		<u>Total Usage</u>	<u>Revenue Amount</u>	<u>Uniform Block Rate</u>
	For the first	100,000	\$ 7,439,574	\$ 3.35
	For the next	1,900,000	\$ 2,349,844	\$ 2.50
	For the next	3,000,000	\$ 964,009	\$ 1.91
	For all over	5,000,000	\$ 1,269,291	\$ 1.56