

Exhibit No.:	
Issues:	Cost of Service Rate Design Consolidated Tariff Pricing
Witness:	Charles B. Rea
Exhibit Type:	Rebuttal
Sponsoring Party:	Missouri-American Water Company
Case No.:	WR-2020-0344
Date:	January 22, 2021

**MISSOURI PUBLIC SERVICE COMMISSION**

**CASE NO. WR-2020-0344**

**RATE DESIGN  
REBUTTAL TESTIMONY**

**OF**

**CHARLES B. REA**

**ON BEHALF OF**

**MISSOURI-AMERICAN WATER COMPANY**

**AFFIDAVIT**

I, Charles B. Rea, under penalty of perjury, and pursuant to Section 509.030, RSMo, state that I am Director, Rates & Regulatory for American Water Works Service Company, Inc., that the accompanying testimony has been prepared by me or under my direction and supervision; that if inquiries were made as to the facts in said testimony, I would respond as therein set forth; and that the aforesaid testimony is true and correct to the best of my knowledge and belief.

*Charles B. Rea*

\_\_\_\_\_  
Charles B. Rea

January 22, 2021

Dated

**REBUTTAL TESTIMONY  
CHARLES B. REA  
MISSOURI-AMERICAN WATER COMPANY  
CASE NO. WR-2020-0344**

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## **REBUTTAL TESTIMONY**

**CHARLES B. REA**

### **I. INTRODUCTION**

1 **Q. Please state your name and business address.**

2 A. My name is Charles B. Rea. My business address is 5201 Grand Avenue, Davenport, IA  
3 52801.

4 **Q. Are you the same Charles B. Rea who previously submitted direct testimony in this**  
5 **proceeding on behalf of Missouri-American Water Company (“Missouri-American”,**  
6 **the “Company”, or “MAWC”)?**

7 A. Yes.

8 **Q. What is the purpose of your Rebuttal Testimony in this proceeding?**

9 A. The purpose of my Rebuttal Testimony is to address issues raised in the rate design direct  
10 testimony of Missouri Industrial Energy Consumers (“MIEC”) witness Jessica York,  
11 Office of Public Counsel (“OPC”) witness Geoff Marke, and the Report on Class Cost of  
12 Service and Rate Design (“Staff CCOS Report”) supported by Missouri Public Service  
13 Commission Staff (“Staff”) witness Curt Gately. Specifically, I will address the following  
14 issues:

- 15 - Class Cost of Service
- 16 - Revenue Spread to Customer Class
- 17 - Large User Tariffs
- 18 - Consolidated Tariff Pricing

19 **Q. Please identify the schedules you will be sponsoring and for which you will be**  
20 **providing testimony.**

1 A. I am sponsoring the following Company Schedules attached to my Rebuttal Testimony.

2 - Schedule CBR-1R: Comparison of Rate L and Non-Qualifying Rate J

3 Consumption Patterns

4 **II. SUMMARY OF CONCLUSIONS**

5 **Q. Please outline your positions and recommendations for the issues you are addressing**  
6 **in your Rebuttal Testimony:**

7 A. My positions and recommendations are summarized as follows:

- 8 1. The Company's class cost of service study and approach to cost of service should  
9 be adopted in this case. The two-step process used by the Company in this case  
10 provides more information than the previous one step process, is more intuitive,  
11 and produces results that are nearly identical to the previous one step process.
- 12 2. The Company's spread of revenue responsibility to customer classes for the  
13 purposes of determining rates is reasonable and should be adopted.
- 14 3. The Company's proposal to institute a new large user tariff identified as Rate L and  
15 to begin transitioning Rate J customers that no longer qualify for Rate L to the  
16 standard Rate A tariff offering should be adopted. The credit instituted for non-  
17 qualifying Rate J customers leaves the volumetric rate for these customers only  
18 slightly above that proposed for Rate L so that non-qualifying rate J customers are  
19 not unduly harmed. Rate L customers are shown to have different consumption  
20 patterns than non-qualifying Rate J customers which justifies different treatment  
21 for the purposes of rate design.
- 22 4. The Commission should complete the process of consolidating tariffs across the  
23 Company's service territory and combine St. Louis County and non-St. Louis  
24 County customers into a single consolidated tariff offering. Consolidated tariff  
25 pricing has been shown to be in the long-term best interests of our customers, and  
26 the district-by-district approach to rate design proposed by MIEC and OPC should  
27 be rejected.

28 **III. COST OF SERVICE**

29 **Q. Did the Company submit a Class Cost of Service Study ("COSS") in this case?**

30 A. Yes. The Company submitted a COSS in this case with my Direct Testimony as Schedule  
31 CBR-1: MAWC Class Cost of Service Study.

1 **Q. Did other parties in this case raise concerns regarding on the Company's COSS?**

2 A. Yes. MIEC Witness York provided direct testimony regarding the Company's COSS. Staff  
3 also produced its own cost of service study (Staff CCOS Report) but did not directly  
4 address any cost of service issues from my Direct Testimony.

5 **Q. Will you address any issues related to the Staff CCOS Report in your Rebuttal**  
6 **Testimony?**

7 A. Not at this time. Responses to various Company data requests suggest that the Staff CCOS  
8 Report is not final and will be modified in the next round of Staff testimony. I am reserving  
9 the right to address any issues the Company has with the Staff CCOS Report in my  
10 surrebuttal testimony once the Staff CCOS Report is final.

11 **Q. Please outline the issues raised by MIEC witness York regarding the Company's**  
12 **COSS.**

13 A. MIEC Witness York alleges the following regarding the Company's COSS:

- 14 • The Company's COSS is not reasonable. (York DT, p. 16, line 3).
- 15 • The COSS does not differentiate between districts (St. Louis County vs.  
16 Non-St. Louis County);
- 17 • The COSS does not separate out current Rate J customers that don't qualify  
18 for the Company's proposed Rate L as a separate customer class; and
- 19 • The COSS is overly simplistic.
- 20 • MAWC should be directed to provide cost of service results separately for each  
21 district, removing Rate J customers from Rate A customers and leaving Rate L as  
22 a separate customer class.

- 1           •       The allocation factor the Company uses to allocate fixed power and pumping  
2                   expenses is incorrect in that it does not recognize a component for Fire Protection.  
3           •       The Company’s proposed revenue assignments to customer class and district  
4                   resulting from its proposed rate design should be rejected.

5   **Q.    Ms. York criticizes the Company for conducting its CCOS on an aggregated statewide**  
6           **basis and not splitting its CCOS separately for St. Louis County and non-St. Louis**  
7           **County customers (York DT, p. 16, lines 9-11; p. 25, line 7 through p. 26, line 13).**  
8           **How do you respond?**

9    A.    While the Commission did in fact order the two-district rate design to remain in place at  
10           the end of the last rate case, the Commission did not do so interminably and did not order  
11           the Company in that case to file a COSS in future rate cases separately for each district.  
12           The Company's proposal in this case is to consolidate all rates to a single tariff. This  
13           proposal is as much a policy decision on the part of the Commission as it is an exercise in  
14           the numbers, as I will discuss later in my testimony.

15   **Q.    Ms. York also criticizes the Company for not identifying current Rate J customers as**  
16           **a separate class in its CCOS. (York DT, p. 16, lines 12-18). How do you respond?**

17    A.    Again, the Company's proposal in this case is to create a new Rate L for large water users  
18           and to transition current Rate J customers that would not qualify for the proposed Rate L  
19           to Rate A over a period of time. The Company's CCOS is filed in support of the Company’s  
20           proposal for Rate L and the elimination of Rate J. It is not meant or intended to support  
21           alternative proposals the other parties in this case may have.

1 **Q. Has the Company provided information on the revenue requirement by business**  
2 **function and customer statistics to MIEC separately for St. Louis County and non-**  
3 **St. Louis County customers necessary to replicate the Company’s CCOS by district?**

4 A. Yes. In response to Data Request MIEC 3-001, the Company provided revenue  
5 requirements by business function consistent with the Company’s revenue requirement  
6 proposal in this case and consistent with the structure and methodology of the Company’s  
7 CCOS. In addition, the data provided in this response contains customer usage statistics,  
8 peaking factors, and other information necessary to allocate the business function revenue  
9 requirements to customer class.

10 **Q. Has Ms. York criticized the allocation methodology you use to allocate Power and**  
11 **Pumping fixed expenses to customer class?**

12 A. Yes. Ms. York states that using the Company’s Factor 2, which recognizes each class’  
13 average load and peak day requirements but does not contain a component for Fire  
14 Protection, is incorrect. Ms. York states that Factor 3, which is the same as Factor 2 but  
15 does include a component for Fire Protection, is more appropriate to use for allocating  
16 fixed costs associated with water pumping plant. (York DT, p. 21, lines 4-13).

17 **Q. Do you agree with Ms. York on this issue?**

18 A. I do. The use of Factor 2 instead of Factor 3 was inadvertent. Ms. York is correct in saying  
19 that the allocation of costs associated with pumping should include an allocation of costs  
20 for Fire Protection.

21 **Q. Please summarize your understanding of Ms. York’s concerns over what she calls the**  
22 **Company’s “oversimplified” approach to the CCOS.**



1 A. Ms. York’s primary concern appears to be that the Company's CCOS in this case was done  
2 differently than it was in the Company’s previous rate case. The Company’s COSS in this  
3 case allocates revenue requirements by account to different business functions and then  
4 allocates each of the business function revenue requirements to customer classes using a  
5 single allocation methodology consistent with class allocation methodologies described in  
6 the American Water Works Association (“AWWA”) M-1 Manual. In the CCOS used in  
7 the Company’s last rate case, revenue requirements by account were allocated directly to  
8 customer classes in a one-step process. Ms. York claims that the standard business  
9 functions do not align with the standard functional cost components described by the  
10 AWWA M-1 Manual. (York DT, p. 20, lines 4-7). She claims that the Company's  
11 “oversimplified” approach is problematic because within a business function (transmission  
12 or distribution in her example), there may be costs that should not be allocated to customer  
13 classes using the broad allocation methodologies used by the Company. (York DT, p. 20,  
14 lines 17-21). She claims there is not enough detail provided in the current CCOS to assess  
15 the reasonableness of the allocation factors used by the Company to allocate the revenue  
16 requirement associated with several of its business functions and it may be the case that  
17 not all costs within each business functions should be allocated using the same allocation  
18 factor. (York DT, p. 20, line 22 through p. 21, line 3).

19 **Q. Why did you move from a one-step process for allocating specific accounts to**  
20 **customer class used in the last rate case to your new two-step process that allocates**  
21 **specific accounts to business function and then allocates business function revenue**  
22 **requirements to customer class?**

1 A. The Company changed its approach to CCOS from a one-step process to a two-step process  
2 because the two step-process is more intuitive and understandable and is more reflective  
3 of how the business actually operates, without sacrificing accuracy or precision and without  
4 sacrificing any adherence to cost-causation principles that a CCOS and its associated cost  
5 allocation methodologies should rely on.

6 As an example, consider the amounts for Support Service Costs, which is an  
7 Administrative and General cost in the CCOS. These costs total \$38,879,116 and  
8 represents one of the biggest single components of the Company's proposed revenue  
9 requirement. It is more logical to say that these costs are incurred in order to support  
10 MAWC's business activities as opposed to supporting customers directly. Under the two-  
11 step approach, Support Service Costs are allocated to MAWC's business functions, and  
12 then allocated to customer class within each business function based on an allocation  
13 methodology that makes sense for that business function. This is a more logical approach  
14 than allocating these customer costs directly to customer classes on the theory that  
15 customers directly cause these costs to be incurred.

16 **Q. Do the results from the previous one-step COSS process and this two-step COSS**  
17 **process differ significantly?**

18 A. They do not. The following table shows a comparison of cost of service results by customer  
19 class under the proposed two-step COSS approach and the one-step approach:

<b>Customer Class</b>	<b>Schedule CBR-1 CCOS</b>	<b>One-Step CCOS</b>	<b>Difference</b>
<b>Residential</b>	\$256,897,398	\$256,875,098	\$22,300
<b>Non-Residential</b>	\$80,389,802	\$80,396,659	-\$6,857
<b>Rate L</b>	\$13,653,134	\$13,659,938	-\$6,804
<b>Rate B</b>	\$7,255,090	\$7,259,861	-\$4,771
<b>Rate P</b>	\$8,769,157	\$8,774,974	-\$5,817
<b>Public Fire</b>	\$28,420,299	\$28,418,797	\$1,502
<b>Private Fire</b>	\$5,859,695	\$5,859,248	\$447
<b>Total</b>	<b>\$401,244,575</b>	<b>\$401,244,575</b>	<b>\$0</b>

**IV. REVENUE SPREAD TO CUSTOMER CLASSES**

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**Q. Regarding the Company's proposed spread of revenue to customer classes, Ms. York states that the Company's proposed revenue spread would result in residential customers priced \$7.7M below cost of service, and non-residential customers priced significantly above cost of service. (York DT, p. 22, lines 1-4). How do you respond?**

A. The Company's COSS shows that on a volumetric basis the cost of providing service to residential customers is higher than it is for commercial or industrial customers based on typical load shapes for each class. This is a common result in class cost of service studies where the residential class is identified separately. Because the Company's rate structure has residential and non-residential customers on the same rate (in this case Rate A), it will necessarily be the case that residential rates will be lower than cost of service would indicate if there were a separate residential rate. Commercial and industrial customers will pay a rate higher than cost of service would indicate if there were a separate non-residential rate available to those customers.

1 **Q. Ms. York states that substantial increases to Rate J customers are the result of the**  
2 **Company’s proposals for consolidated tariff pricing as well as a transition of Rate J**  
3 **customers that do not qualify for Rate L to Rate A. Is this correct?**

4 A. Not entirely. Increases to Rate J customers are not the result of transitioning Rate J  
5 customers that do not qualify for Rate L on to Rate A. The substantial credit being afforded  
6 to Rate J customers that do not qualify for Rate L means that the volumetric rate for non-  
7 qualifying Rate J customers will be only slightly higher than the effective volumetric rate  
8 for Rate L customers under rates proposed by the Company in this case.

9 **V. LARGE USER TARIFF**

10 **Q. Please review the Company's proposal for modifying its large user tariff in this case.**

11 A. The Company's proposal in this case is to replace the current Rate J tariff with a new large  
12 user tariff identified as Rate L. The proposed Rate L tariff will be available to customers  
13 using 3,000,000 gallons of water per month or more (as opposed to the 450,000 gallon limit  
14 currently for Rate J). The proposed Rate L tariff will contain a two-part pricing mechanism.  
15 The first part is a “Base Usage” part which will apply to a customer’s constant year-round  
16 consumption. The second part is an “Extra Use” component that will be higher priced and  
17 will apply to a customer’s seasonal use above the Base Usage component. Current Rate J  
18 customers that are ineligible for the new Rate L will be transitioned over a period of time  
19 to the Company's current Rate A.

20 **Q. Did other parties in this case raise concerns regarding the Company’s proposed Rate**  
21 **L?**

22 A. Yes. MIEC Witness York opposes the Company’s proposal to implement Rate L and phase  
23 out the current Rate J offering. Additionally, the Staff CCOS Report and accompanying

1 cost of service study is based on the Company's current Rate J offering. The Staff CCOS  
2 Report indicates that Staff will address this issue in its rebuttal testimony.

3 **Q. What is MIEC's position regarding the Company's proposal for Rate J and Rate L**  
4 **in this case?**

5 A. Ms. York does not support the Company's proposed Rate L offering. (York DT, p. 14, lines  
6 15-18). Ms. York states that she supports examining the creation of a higher threshold  
7 Rate L class but recommends maintaining Rate J as it is currently structured. She claims  
8 that Rate J customers using between 450,000 gallons and 3,000,000 gallons per month have  
9 different usage characteristics and cause the Company to incur less capacity costs than Rate  
10 A customers. (York DT, p. 15, lines 1-8).

11 **Q. Does Ms. York object to the "Base Usage" and "Extra Usage" pricing structure**  
12 **proposed by the Company for its proposed Rate L?**

13 A. She does not.

14 **Q. Does Ms. York offer any evidence to support her claim that Rate J customers using**  
15 **between 450,000 gallons and 3,000,000 gallons per month have different usage**  
16 **characteristics and cause the Company to incur less capacity costs than Rate A**  
17 **customers?**

18 A. No. Ms. York discusses a historical view of capacity factors used in the Company's  
19 previous rate cases for nonresidential Rate A rate and Rate J customers compared to current  
20 factors used in the Company's COSS for nonresidential Rate A and proposed Rate L  
21 customers. (York DT, p. 18). However, she offers no comparisons of capacity factors for  
22 Rate J customers using between 450,000 and 3,000,000 gallons per month to either

1 nonresidential Rate A or proposed Rate L customers.

2 **Q. Why is this an important distinction?**

3 A. A big reason why capacity factors for Rate J in total were lower than those for other non-  
4 residential customers in the Company's past rate cases is because approximately half of the  
5 usage for Rate J customers is associated with customers using more than 3,000,000 gallons  
6 per month, which is the proposed standard for Rate L. The relevant comparison here is not  
7 what capacity factors are for Rate J customers in total. The relevant comparison is the usage  
8 characteristics for current Rate J customers that would not qualify for the Company's  
9 proposed Rate L and whether or not those customers are being disadvantaged by the  
10 Company's proposal from a cost of service perspective.

11 **Q. How do the usage characteristics for Rate J customers using between 450,000 gallons  
12 and 3,000,000 gallons per month compare to the usage characteristics for larger Rate  
13 L customers?**

14 A. Usage characteristics for Rate J customers using between 450,000 gallons and 3,000,000  
15 gallons per month are more seasonal and peak more than those for larger Rate L customers.  
16 Schedule CBR-1R provides a comparison of monthly usage characteristics for the two  
17 customer groups and demonstrates that the usage pattern for Rate J customers not  
18 qualifying for Rate L are different than they are for Rate L customers. This indicates that a  
19 cost of service analysis would allocate more fixed costs to remaining Rate J customers than  
20 to Rate L customers and would result in a higher cost-based rate for the remaining Rate J  
21 customers than for Rate L customers.

1 **Q. Are there any other flaws in Ms. York’s discussion of capacity factors used for these**  
2 **customer classes in the Company’s previous rate cases?**

3 A. Yes. It is important to note that the methodology used to estimate peaking factors for  
4 customer classes in this rate case is different than what was used in previous Company rate  
5 cases in Missouri. As I stated in direct testimony, maximum daily consumption values for  
6 each customer class are estimated based on daily and hourly consumption data collected  
7 via Advanced Metering Infrastructure (“AMI”) meter data; specifically, on samples for  
8 which the Company has AMI data in St. Louis County. In previous rate cases, the peaking  
9 factors were based on a much more subjective analysis because actual daily and hourly  
10 consumption for different customer classes was not available. Because the two approaches  
11 for determining peaking factors are different, the results are not necessarily comparable. It  
12 should not be surprising or concerning that a change from a more subjective analysis to  
13 examination of actual data would yield different results. The fact that the methodology,  
14 and thus, the results are different from what were previously filed should not be an  
15 impediment to adopting them here.

16 **Q. Does Ms. York offer any commentary on the administrative difficulties that the**  
17 **Company claims with respect to the current Rate J?**

18 A. Ms. York offers commentary on two of what she claims to be “administrative issues”  
19 regarding the current Rate J offering (York DT, p.12, line 14, through p. 13, line 4). The  
20 first issue relates to the mix of monthly and quarterly metering for potential Rate J  
21 customers that, according to Ms. York, makes it difficult to identify customers that might  
22 qualify for Rate J because monthly usage data is not available to verify qualification. The  
23 second issue she raises is the alleged extreme differences in volumetric rates between Rate

1 A and Rate J that gives non-qualifying customers an inappropriate incentive to use water  
2 simply for the purposes of qualifying for Rate J.

3 **Q. Can you explain Ms. York’s criticism regarding the issue of quarterly versus monthly**  
4 **billing and its relationship to qualification for Rate J?**

5 A. Yes. Ms. York states that the Company’s claim that the mix of monthly and quarterly  
6 metering for potential Rate J customers makes it difficult to verify qualification for  
7 customers that don't have monthly usage data is incorrect. (York DT, p. 12, line 16). She  
8 points out that the Company is transitioning all of its customers to monthly billing; a  
9 process that is 95% complete so the Company should be able to accurately assess which  
10 customers qualify for Rate J.

11 **Q. Do you agree with Ms. York’s characterization regarding the impact of quarterly**  
12 **versus monthly billing on qualification for Rate J?**

13 A. It is true that the Company is transitioning all customers to monthly billing and, at some  
14 point in the future, it will be possible to make this determination for all potential Rate J  
15 customers. However, that is not the case for the 2019 historical data set upon which rates  
16 in this proceeding would effectively be based.

17 **Q. What is Ms. York’s testimony regarding the differences in volumetric rates between**  
18 **Rate A and Rate J?**

19 A. Ms. York states that the Company’s concerns that Rate A customers could increase usage  
20 and receive a lower bill by transitioning to Rate J is improbable. (York DT, p.12, line 20,  
21 through p. 13, line 4). She points out that the average monthly usage for a non-residential  
22 Rate A customer is about 32,000 gallons per month and, to reach the 450,000 gallon



1 requirement for service under Rate J the average non-residential rate, a customer would  
2 have to increase usage by 14 times the current average monthly usage.

3 **Q. Do you consider this particular issue to be an administrative issue?**

4 A. No. This is not an administrative issue that can simply be solved through better tariff  
5 administration. This is a rate design issue and stems from the difference in volumetric rates  
6 between Rate A and Rate J, and the relatively low threshold of 450,000 gallons per month  
7 to qualify for Rate J.

8 **Q. Is Ms. York's comparison of an average Rate A customer to Rate J pricing accurate  
9 or relevant?**

10 A. No. Ms. York's analysis is neither accurate nor relevant. As I stated before in my direct  
11 testimony, the current volume metric rates for Rate A and Rate J are as follows:

Volumetric Rate	St. Louis County	Non-St. Louis County
Rate A	\$4.7814	\$6.2469
Rate J	\$1.7680	\$2.8628

12 A St. Louis County Rate A customer using 32,000 gallons per month pays approximately  
13 \$153 in volumetric charges. If that customer were to artificially increase their usage to  
14 450,000 gallons per month just to qualify for Rate J, their volumetric charges would  
15 increase to approximately \$796 per month. This makes no economic sense and therefore a  
16 comparison for this size customer isn't relevant.

17 Comparisons for larger customers, on the other hand, are very relevant. As I also  
18 pointed out in my direct testimony, a St. Louis County customer that uses 300,000 gallons  
19 per month under Rate A would pay approximately \$1,434 dollars in volumetric charges. If  
20 that customer increased their usage by half up to 450,000 gallons per month, their total

1 volumetric charges would go down almost by half to approximately \$796. This customer  
 2 could quite literally open the spigot, pour 150,000 gallons of water down the street every  
 3 month, and cut their bill in half for having done so. This is the rate design issue that the  
 4 proposed Rate L and the slow transitioning of the remaining Rate J customers to Rate A is  
 5 intended to help mitigate.

6 **Q. Do you have any comments to add on the rate increases that Rate J and Rate L**  
 7 **customers in St. Louis County would see from the Company's proposals regarding**  
 8 **the large user tariff and consolidated pricing in this proceeding?**

9 A. Yes. I have prepared a table below which shows the pertinent volumetric rates for Rate A,  
 10 Rate J, and the Proposed Rate L for both St. Louis County and non-St. Louis County. This  
 11 table contains both current rates and proposed rates:

District	Volumetric Rate	Current	Proposed	Price Change	Percent Change
STL County	Rate A	\$4.7814	\$6.9827	\$2.2013	46%
Non STL County	Rate A	\$6.2469	\$6.9827	\$0.7358	12%
STL County	Rate J	\$1.7680	\$3.6753	\$1.9073	108%
Non STL County	Rate J	\$2.8628	\$3.6753	\$0.8125	28%
All	Rate L (Blended)	---	\$3.2417	---	---

12 The table shows that while the percentage increases for St. Louis County customers in the  
 13 volumetric rates is higher than for non-St. Louis County customers, the total price change  
 14 is similar. The percentage changes for St. Louis County customers are as high as they are  
 15 because St. Louis County volumetric rates are significantly lower today than for non-St.  
 16 Louis County customers. The table also shows that the proposed Rate J price including the  
 17 credit is only slightly higher than the average proposed volumetric rate for Rate L. This  
 18 shows that Rate J customers not qualifying for Rate L are not significantly disadvantaged

1 relative to what their rate otherwise would have been without the Company's Rate L  
2 proposal.

## 3 **VI. CONSOLIDATED TARIFF PRICING**

4 **Q. What responses have there been to the Company's proposal related to consolidated**  
5 **tariff pricing?**

6 A. MIEC, OPC, and Staff are opposed to the Company's proposal to continue consolidated  
7 tariff pricing ("CTP"). MIEC proposes to maintain the current two-district pricing design.  
8 (York DT, p. 2, lines 2-7). OPC's position goes further and seeks to de-consolidate the  
9 current rate structure and revert back to a zonal pricing scheme similar to what was in place  
10 from 2015 to 2017. (Marke DT, p. 1, lines 21-22). Staff proposes to maintain the rate  
11 design that the Commission approved in the Company's last rate case. (Staff CCOS Report,  
12 p. 9, lines 1-2).

13 **Q. Does OPC provide any specific basis for its proposal to return to a multi-district rate**  
14 **design beyond their general discussion of the issues around CTP?**

15 A. No.

16 **Q. Does OPC provide any information on what rates would be or what the impact on**  
17 **customers would be of returning to a multi-district rate design?**

18 A. No. OPC provides no analytical support for its position.

19 **Q. Does Staff address any policy issues related to CTP in their testimony or Rate Design**  
20 **report?**

21 A. No. Staff's proposal is to maintain the two-district rate design, but they do not provide any

1 policy or analytical support for that position.

2 **Q. What policy issues does MIEC raise regarding CTP?**

3 A. MIEC make the following claims in support of its position to maintain the current two  
4 district rate design:

- 5 • St. Louis County customers pay an ISRS that non-St. Louis County customers do  
6 not pay. Therefore, St. Louis County cannot be consolidated with other districts for  
7 the purposes of ratemaking. (York DT, p. 5, lines 10-15).
- 8 • St. Louis County customers would subsidize other customers outside of the county  
9 because St. Louis County customers use significantly higher levels of water than  
10 other customers. (York DT, p. 5, lines 16-17).
- 11 • CTP ignores the principle of cost causation because a particular water district's  
12 rates should be based on the costs that the Company incurs to provide that district  
13 with service. (York DT, p. 7, line 9).
- 14 • Unjust cross subsidies created by CTP could erode the efficiency of the water  
15 system. (York DT, p. 9, lines 1-2).
- 16 • Economic incentives for customers in high-cost districts to be more efficient in  
17 placing demands on the utility would be removed by CTP. (York DT, p. 9, lines 2-  
18 5).
- 19 • Management teams in high-cost districts would have disincentives for cost control.  
20 (York DT, p.9, lines 11-18).
- 21 • The Company's incentive to perform due diligence before acquiring new systems  
22 would be reduced. (York DT, p. 9, line 20 through p. 10, line 6).

23 **Q. What policy issues does OPC raise regarding CTP?**

1 A. OPC makes the following claims rejecting CTP:

2 • OPC states that water services local, and the cost of providing the service, and  
3 consequently is usage, varies considerably based on location. (Marke DT, p. 3, lines  
4 12-13).

5 • Because single tariff pricing merges non-contiguous systems, the cost causation  
6 principle is diminished if not entirely abandoned. (Marke DT, p. 6, lines 15-18).

7 • Under a single tariff pricing design, the approved rates do not accurately reflect the  
8 costs caused by the customers who would pay them. (Marke DT, p. 6, lines 18-19).

9 • Consumers in low-cost districts are required to purchase water prices under single  
10 tariff pricing that exceed the real cost of their consumption. (Marke DT, p.9, lines  
11 2-3).

12 • Single tariff pricing represents a tax which discriminates against systems that  
13 cannot control their costs and favor those that do not. (Marke DT, p. 9, lines 3-5).

14 **Q. How would you summarize the CTP options currently before the Commission in this**  
15 **case?**

16 A. The primary policy issue before the Commission in this case regarding CTP can be  
17 described as a series of options that could be chosen regarding CTP rate design. The CTP  
18 options currently before the Commission include whether:

19 a) water customers in different communities completely pay for, and only pay for, the  
20 present and future costs of owning, operating, and maintaining the water production  
21 and delivery systems in their communities, and thereby absorbing all of the  
22 associated rate shock that might follow;

- 1           b)     water customers across the state help pay for all of the present and future costs of  
2                   owning, operating, and in maintaining the water production and delivery systems  
3                   in all of the communities served in the state, knowing that they will often be paying  
4                   for investments that do not directly serve them and may be paying rates at any point  
5                   in time that might be higher or lower than they otherwise would be, but in return  
6                   enjoy more rate stability over time; or  
7           c)     somewhere in between.

8   **Q.     Are there any other considerations to consider?**

9   A.     Yes. It is an undisputed fact that the quality water service customers are receiving from the  
10           Company is the same regardless of where they are located or what assets are used to provide  
11           that service. It is sound and logical to say that all customers who receive the same service  
12           from the Company should pay the same rates for that service.

13   **Q.     What is the Company's preferred position regarding CTP?**

14   A.     Absent compelling evidence to show that the cost of providing service in a given  
15           community or group of communities has been, is, and will always be fundamentally and  
16           systemically different than in other communities, it is most appropriate that rates should be  
17           consolidated over time across an entire service territory. The benefits of doing so in terms  
18           of equitability and rate stability over time outweigh the concerns that customers may be  
19           paying rates at any point in time that might be higher or lower than they otherwise would  
20           be and may be paying for some investments that do not directly serve them.

21   **Q.     Ms. York states that CTP is not appropriate in this case because St. Louis County**  
22           **customers pay an ISRS which is authorized by statute that customers outside of St.**  
23           **Louis County do not pay. (York DT, p. 5, lines 10-15). How do you respond?**

1 A. The issue of a short-term St. Louis County ISRS (short term in terms of the length of time  
 2 prices are in effect) and the longer-term policy of CTP are separate issues. The CTP issue  
 3 is a policy and fairness issue regarding the appropriate way to price water service across  
 4 the service territory, as I have laid out in my testimony and will continue to discuss. The  
 5 pricing associated with CTP is for base rates that cover the entire vertically integrated cost  
 6 of providing service to customers from source of supply to reading the meter. These prices  
 7 are relatively large compared to the ISRS and permanent in that they do not change between  
 8 rate case or reset to zero at some point. The ISRS, which at present time only applies to  
 9 St. Louis County customers, is a relatively small charge (relative to base rates) for a limited  
 10 type of investment that starts at \$0.000 after each rate case and increases over time to then  
 11 be reset to \$0.000 at the end of each rate case.

12 **Q. When final rates are implemented in this case will the ISRS be reset to zero?**

13 A. Yes. At the end of this case the ISRS will be reset to \$0.000. If CTP is implemented in this  
 14 case, then rates will be equal for all customers across the state. This condition will last until  
 15 the ISRS becomes positive and then will exist again at the end of the next rate case when  
 16 the ISRS will again be reset to \$0.000.

17 **Q. Does the ISRS as it currently is implemented effectively equalize rates between St.  
 18 Louis County and Non-St. Louis County customers?**

19 A. No. The table below shows the volumetric rates for Rate A and Rate J for St. Louis County  
 20 customers and non-St. Louis County customers with and without the ISRS.

Customer Class	St. Louis County	ISRS	St. Louis County with ISRS	Non-St. Louis County
Rate A	\$4.7814	\$1.0690	\$5.8504	\$6.2469
Rate J	\$1.7680	\$0.0164	\$1.7844	\$2.8628

1 The table shows that for Rate J customers in particular, the ISRS has no practical effect on  
2 St. Louis County rates. The existence of the ISRS gives St. Louis County Rate J customers  
3 a regulatory argument for why CTP should not be pursued but gives non-St. Louis County  
4 Rate J customers no consolation at all that their 60% higher rate at least gets them out of  
5 paying an ISRS that their St. Louis County Rate J counterparts have to pay. The same is  
6 true for Rate A customers, although to a much lesser extent. The table shows that the  
7 current ISRS closes the gap between St. Louis County and non-St. Louis County customers  
8 by more than half, but this is at a time when the ISRS is relatively high. On average the  
9 ISRS is less than the amount shown in the table and ultimately will be reset to \$0.000 at  
10 the end of this case so that the gap between St. Louis County and non-St. Louis County  
11 customers will remain relatively large.

12 **Q. Can you summarize Ms. York's argument against CTP as it relates to the relative size**  
13 **of different customers in the St. Louis County and non-St. Louis County districts?**

14 A. Yes. Ms. York states that St. Louis County customers in every customer class use  
15 significantly higher levels of water than similar customers outside of St. Louis County.  
16 (York DT, p. 5, lines 17-19). Because St. Louis County customers have higher volumes,  
17 and because a significant portion of the Company's fixed costs are recovered through  
18 volumetric rates, St. Louis County customers would contribute more toward the Company's  
19 fixed cost recovery than non-St. Louis County customers, and therefore would be  
20 subsidizing non-St. Louis County customers under CTP.

21 **Q. How do you respond to Ms. York's argument about subsidization based on the**  
22 **relative sizes of customers?**



1 A. There are two important points to make regarding Ms. York’s claim regarding customer  
2 usage. The first point is because 94% of the Company's revenue requirement is fixed but  
3 only 23% of the revenue is proposed to be recovered through fixed charges (meaning that  
4 a significant amount of fixed cost recovery comes from revenue collected through  
5 volumetric rates), it is necessarily the case that bigger higher-volume customers will  
6 contribute more toward the Company's fixed cost recovery than smaller customers. This  
7 is by design, not my accident. If this condition is to be called a “subsidy”, it is caused by a  
8 faulty rate design with fixed charges that are too low and don’t collect enough fixed, and  
9 not by CTP. The remedy to this “subsidy” is to significantly increase monthly fixed  
10 charges, which no party in this case is suggesting. It is also the case that even under the  
11 two-district pricing scheme, this so-called subsidy will still exist where larger customers  
12 are contributing more towards fixed costs than smaller customers.

13 The second point to make here is that under the “Base/Extra” cost allocation  
14 methodologies used in cost of service studies, larger customers will automatically be  
15 allocated more fixed cost than smaller customers in a cost of service study. This happens  
16 in the Company’s proposed CCOS as well. Nobody would suggest that the fixed costs  
17 associated with water treatment plants, pumping equipment, and transmission and  
18 distribution mains should be allocated to customer classes in a cost of service study based  
19 on the number of customers in each class, but that is the argument that Ms. York is making  
20 when she says it is an unfair “subsidy” than larger St. Louis County customers would be  
21 unfairly paying more fixed costs than smaller non-St. Louis County customers.

22 **Q. Ms. York claims that the Company’s proposal for CTP ignores cost-causation.**  
23 **Specifically, she states that a particular water district’s rates should be based on the**

1 **costs that the Company incurs to provide that district with service. (York DT, p. 7,**  
2 **lines 8-14). How do you respond to this argument?**

3 A. This argument is a very common argument against CTP and is similar to arguments that  
4 Dr. Marke of OPC makes in his testimony. The argument comes back to the policy choices  
5 I outlined earlier, which are, should water customers in different communities completely  
6 pay for, and only pay for, the present and future costs of owning, operating, and  
7 maintaining the water production and delivery systems in their communities, or should  
8 water customers across the state help pay for all of the present and future costs of owning,  
9 operating, and in maintaining the water production and delivery systems in all of the  
10 communities served in the state?

11 There are two points to make here. The first is that the concept of CTP has already  
12 been established in the Company's rate structure. There are more than 20 separate operating  
13 districts in the MAWC service territory all taking service under a single consolidated rate  
14 structure that is the non-St. Louis County rate. These districts all have different sizes,  
15 operating characteristics, customer usage characteristics, investment histories and  
16 requirements, O&M requirements, population densities, cost structures, etc. They are also  
17 independent and disconnected from one another. Yet they are all taking service on the  
18 same rate structure as approved by the Commission. The question before the Commission  
19 in this case is not whether CTP is appropriate. That has already been established in the  
20 affirmative. The question before the Commission is whether St. Louis County customers  
21 should be included in that CTP pricing structure or continue to be withheld from that  
22 structure and considered separately, and if so, why.

23 The second point to make is that it will always be the case that certain groups of  
24 customers will be paying more or less than their absolute true cost to serve regardless of

1 whether CTP is in place or not. It is not possible to design rates in a way that sends price  
2 signals to all customers that directly and precisely reflect the cost of providing service to  
3 each customer. This is true when considering customers across different operating districts  
4 and it is true when considering customers within a single operating district. Also, the fact  
5 that particular water districts are physically separated from each other and not connected  
6 to each other does not imply that their pricing structure should be separate, as I will point  
7 out later in my testimony.

8 **Q. Does Ms. York discuss different characteristics that can affect the cost of providing**  
9 **water service to different communities?**

10 A. Yes. Ms. York mentions that water treatment plants, distribution networks, pumping  
11 equipment, and electric rates can be distinct across the state and geographic characteristics  
12 can impact costs related to storage, pressure, pumping, chemicals and other costs associated  
13 with providing service. (York DT, p. 8 lines, 7-14). She also mentions an example where  
14 the cost to install water pipe in a district with rocky soil may be higher than the cost to  
15 install water pipe in a district without rocky soil and that non-rocky soil customers could  
16 end up subsidizing rocky soil customers under a CPP pricing structure. (York DT, p. 8,  
17 lines 22-25).

18 **Q. Are there other operating characteristics than can affect the cost of providing service**  
19 **to different groups of customers?**

20 A. Yes. The average age of plant used to provide service in different communities can affect  
21 the calculated cost of providing service in different communities. Communities with older  
22 vintage plant tend to have a lower cost of service from a rate base perspective than  
23 communities with newer plant. Customer groups located farther away from a water

1 treatment plant will have a higher cost of service and customer groups located closer to  
2 water will have a lower cost of service because there is likely less delivery assets needed  
3 to get water from the source to where it is used for customers closer to water treatment  
4 plants than for customers farther away.

5 **Q. Are these myriads of differences a valid reason to establish separate pricing**  
6 **structures in areas that have these differences?**

7 A. No. From a purely analytical perspective these myriads of differences will result in  
8 different revenue requirement calculations in different discreet geographic locations that  
9 would suggest that different rates could be justified, but from a practical perspective these  
10 differences are not a valid reason for having different rates. If you cannot in good faith  
11 explain to customers why their rates are different from other similar groups of customers  
12 for the same service, your reasons for having different rates are probably not valid. It would  
13 be unreasonable to suggest having a “rocky soil rate”, or an “old plant rate”, or a “high  
14 labor cost rate”, or a “far away from the river rate” just because cost of service supports  
15 that distinction. Likewise, explaining to customers that their rates are higher in Jefferson  
16 City than they are in St. Louis County because their soil is rockier is likely not a satisfactory  
17 explanation. Customers are more likely to expect fair and consistent rates for the same  
18 service regardless of where they are in Missouri than they are to expect cost-based rates.

19 **Q. Ms. York states that unjust cross subsidies created by CTP could erode the efficiency**  
20 **of the water system by removing the economic incentive for customers and high-cost**  
21 **districts to be more efficient in placing demands on the water utility. (York DT, p. 9,**  
22 **lines 1-10). How do you respond?**

23 A. It is important to note that rate design is effectively a zero-sum game meaning that given a

1 fixed revenue requirement, every price decline given to a group of customers (in this case  
2 a price decline due to CTP) means a price increase for a different group of customers. If  
3 Ms. York's claims were accepted as true, CTP would improve economic incentives for the  
4 efficient of water usage for far more customers in St. Louis County whose average usage  
5 is already high, as Ms. York points out (York DT, p. 5, lines 17-19), than it would decrease  
6 economic incentives for customers outside of St. Louis County. This could overall be a  
7 good thing from a system perspective in St. Louis County. However, the inclining block  
8 rate experiment in Mexico has not yet demonstrated any significant changes in customer  
9 usage patterns due to a fairly significant change in rate design. Thus, based on that  
10 experiment, there is nothing to support the accuracy of Ms. York's claims.

11 **Q. Do you agree with Ms. York's claim that consolidated pricing could provide**  
12 **management teams in high-cost districts disincentives for cost control because those**  
13 **costs would be commingled with other lower cost districts across the state? (York DT,**  
14 **p. 9, lines 11-18).**

15 A. No, I disagree. If the temptation to overspend in a particular district knowing that those  
16 costs would be spread over all customers in the service territory would result in  
17 disincentives for cost control, we would already have seen this effect. So far, there has  
18 been none.

19 Overinvestment in water systems is not generally seen as a problem today. Rather,  
20 the opposite is true. It is well documented that underinvestment in water systems is a  
21 significant problem in the industry, and a driving factor that exacerbates this problem is an  
22 inability to adequately invest in smaller systems with relatively few customers because the  
23 necessary rate increases in those systems would be untenable. Underspending in small

1 systems where rates are based solely on the revenue requirement associated with that  
2 system is a far bigger problem in the industry that overspending in systems under CTP.

3 **Q. Do you agree with Ms. York's claims that CTP reduces the Company's incentive to**  
4 **perform due diligence before acquiring new water systems?**

5 A. I do not. Customers in communities with under invested-systems are already affectively  
6 paying single-district rates. Often it is this rate structure, and the associated large increases  
7 that would result from this rate structure, that prevents communities from making needed  
8 investments in their systems in the first place. Leaving single-district rates in place for  
9 these communities and eschewing the concept of CTP does nothing to solve this problem.  
10 Also, it is most often the case that agreements are put in place for acquisitions that leave  
11 existing rate structures in place for a number of years after the acquisition takes place, and  
12 only after some agreed upon number of years pass are rates for these communities folded  
13 into the Company's larger rate structure. This is done to avoid rate shock for these  
14 customers because their rates are most often underpriced and can't support the investments  
15 needed on their own. The Company's due diligence in acquiring systems takes this into  
16 account. Thus, while the concept of CTP is one factor in the due diligence process, it is by  
17 no means the only or most important factor.

18 **Q. Turning to OPC witness Marke's testimony where he states that water is local, and**  
19 **the cost in providing the service, and consequently its usage, varies considerably**  
20 **based on location, do you agree with his conclusion? (Marke DT, p. 3, lines 12-13).**

21 A. To some extent, yes. It is certainly the case that water systems tend to be local in the sense  
22 that they tend to not be interconnected with each other. However, I do not agree with the  
23 implication that the cost of providing service in any location rests solely on costs incurred

1 in that location, nor do I agree that local water service implies that rates for water service  
2 should be differentiated by geographic location.

3 **Q. OPC witness Marke has devoted a considerable amount of testimony comparing the**  
4 **water industry to the electric industry and the natural gas industry and specifically**  
5 **discusses the ways that the Ameren Missouri electric grid is interconnected and**  
6 **connected with MISO, and contrasts that with the operating characteristics of**  
7 **MAWC. (Marke DT, pp. 3-5). What is your reaction to this comparison of MAWC's**  
8 **service territory to Ameren Missouri's electric service territory?**

9 A. The comparisons of MAWC to the Ameren Missouri electric grid and to natural gas utilities  
10 are useful comparisons. I have two observations in this regard.

11 The first is it's important to note that while the Ameren Missouri electric grid is  
12 interconnected, it is interconnected only at the generation and transmission levels. The  
13 electric grid is not interconnected at the distribution level, which the Federal Energy  
14 Regulatory Commission defines as systems that are reduced in voltage, normally in close  
15 proximity to retail customers, and radial in character, among other things.<sup>1</sup> This means  
16 that distribution assets in the Ameren territory, which make up a significant portion of that  
17 company's rates, are not interconnected and are subject to the same potential cost  
18 differences by geographic location that the water distribution system faces in terms of labor  
19 costs, customer density, geography, etc. The distribution component of rates in electric  
20 retail tariffs is rarely, if ever, differentiated by geographic location, and electric utilities  
21 generally vigorously oppose doing so. Because more than half of the Company's proposed

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<sup>1</sup> Promoting Wholesale Competition Through Open Access Non-Discriminatory Transmission Services by Public Utilities; Recovery of Stranded Costs by Public Utilities and Transmitting Utilities, Order No. 888, 61 Fed. Reg. 21,540 (May 10, 1996)

1 revenue requirement in this case is associated with the delivery, metering, customer  
2 service, and public fire business functions according to the Company's CCOS, the Ameren  
3 comparison actually bolsters the case for CTP, it does not detract from it.

4 The Ameren electric tariffs, and indeed most electric tariffs, do not differentiate  
5 prices for delivery services or customer service by geographic location despite the fact that  
6 distribution costs may vary significantly in different parts of the Ameren Missouri territory.  
7 The same can be said for MAWC's water service tariffs and because more than half of the  
8 Company's proposed revenue requirement in this case is associated with the delivery,  
9 metering, customer service, and public fire business functions (the same types of functions  
10 for which CTP exists in typical electric service tariffs), the case for CTP is strengthened by  
11 the Ameren Missouri example and the examples of other electric utility service tariffs.

12 **Q. Can you draw the same conclusions when you compare MAWC to the natural gas**  
13 **utility industry?**

14 A. Yes. The same conclusions can be drawn when comparing MAWC to the natural gas  
15 industry. In today's utility environment, natural gas utilities are almost exclusively  
16 distribution companies. While they are interconnected to some extent through interstate  
17 pipelines, the gas utilities rarely own these assets. The primary function of a natural gas  
18 utility is to purchase gas on the open market and deliver it to customers through its  
19 distribution system, which makes it look very much like a water utility once you get past  
20 the sourcing of the commodity. The inherent cost differences by geographic location of  
21 investing in and maintaining a gas mains system are very similar to the cost differences for  
22 a water main system that Ms. York and I both discussed in our testimonies. Yet, like electric  
23 tariffs, gas distribution rates in retail tariffs are not typically differentiated by discrete  
24 geographic location based on the cost of providing specific utility services in those



1 locations.

2 **Q. Please summarize your understanding of OPC witness Marke's arguments related to**  
3 **CTP and cost-causation?**

4 A. OPC witness Marke's primary argument in this regard is that because CTP merges non-  
5 continuous systems, the cost causation principle is diminished, if not entirely abandoned.  
6 He goes on to say that under a single tariff pricing design the approved rates do not  
7 accurately reflect costs caused by the customer who pay them. (Marke DT, p. 6, lines 14-  
8 22). OPC witness Marke states that consumers in low-cost districts would be required to  
9 purchase water at prices that exceed the real cost of consumption (Marke DT, p. 9, lines 2-  
10 4) and that the subsequent abandonment of the cost causation principle will produce  
11 unintended consequences in both the near and long term and would likely have larger  
12 implications outside of this rate case. (Marke DT, p. 8, lines 4-6).

13 **Q. How do you respond to these arguments?**

14 A. The concept of cost causation is more useful when considering class cost of service studies  
15 when one is trying to allocate revenue requirements to different customer groups than it is  
16 when considering the costs of providing service to similar mixes of customers in different  
17 communities. It is much easier to explain to customers why residential rates are higher than  
18 industrial rates in Jefferson City based on cost causation factors than it is to explain why  
19 residential rates in Jefferson City are higher than residential rates in Maryland Heights  
20 based on cost causation factors, especially when Jefferson City sits on a major river and  
21 Maryland Heights does not.

22 Having said that, I would reiterate some of the points I made in response to MIEC  
23 on this same issue, namely:

- 1 a) There are over 20 separate disconnected operating districts in the MAWC service  
2 territory all taking service under a single consolidated rate structure that is the non-  
3 St. Louis County rate. These districts all have different sizes, operating  
4 characteristics, and customer usage characteristics. Yet they are all taking service  
5 on the same rate structure. No ill effects have been identified as a result. The issue  
6 in this case is not whether CTP is appropriate. That has already been established  
7 in the affirmative. The issue is whether or not St. Louis County customers should  
8 be included in CTP and why.
- 9 b) It will always be the case that certain groups of customers will be paying more or  
10 less than their absolute true cost to serve regardless of whether CTP is in place or  
11 not. It is not possible to design rates in a way that sends price signals to all  
12 customers that directly and precisely reflect the cost of providing service to that  
13 customer. Cost differences between customers within a district can be just as great  
14 and even greater than cost differences between districts. Dr. Marke recognizes this  
15 fact in his own testimony. Averaging rates for customers within a district is a given,  
16 yet averaging rates between districts completely destroys the concept of cost  
17 causation according to Dr. Marke. As I stated previously, if you can't in good faith  
18 explain to customers why their rates are different from other similar groups of  
19 customers for the same service, your reasons for having different rates are probably  
20 not valid. This is the case under single-district pricing. It is not the case under  
21 CTP.

1 **Q. OPC witness Marke states that single tariff pricing represents a tax which**  
2 **discriminates against systems that cannot control their costs and favor those that do**  
3 **not. (Marke DT, p. 9 lines 3-5). How do you respond?**

4 A. First, if the difference in cost between different districts is actually just a result of each  
5 district managers' ability (or lack thereof) to control cost, then CTP is exactly the right  
6 solution to implement because each district would be generating revenue on the same basis  
7 relative to customer usage and districts that control their costs better would be more  
8 successful than districts that could not. Second, customers in relatively lower cost districts  
9 paying a rate under CTP that is higher than it otherwise would be does not constitute an  
10 unfair "tax" any more than a resident in a part of a state paying a uniform state income tax  
11 rate constitutes unfair discrimination if state services in that part of the state are cheaper to  
12 deliver than in other parts of the state.

13 **Q. How do you respond to OPC witness Marke's discussion about the potential perils of**  
14 **overinvestment in water systems under CTP? (Marke DT, p. 10-12).**

15 A. I also addressed this issue above in response to Ms. York. It is true that utilities generate  
16 net income by earning a return on rate base and can grow earnings by growing rate base.  
17 To the extent this provides the utility an undue incentive to overinvest and gold-plate the  
18 system, this incentive exists regardless of whether CTP is in place or not. As I stated  
19 previously, overinvestment in water systems is not generally seen as a problem today. The  
20 more pressing issue is chronic underinvestment in water systems in areas where the cost of  
21 necessary investment is significantly higher than what can expectedly be borne by  
22 customers in those systems. Underspending in small systems where rates are based solely

1 on the revenue requirement associated with that system is a far bigger problem in the  
2 industry that overspending in systems under CTP.

3 **Q. What are your conclusions regarding the Company's CTP proposal?**

4 A. The Commission should complete the process of consolidating tariffs across the  
5 Company's service territory and combine St. Louis County and non-St. Louis County  
6 customers into a single CTP offering. CTP has been shown to be in the long-term best  
7 interest of our customers and results in a rate design that is logical and sensible from the  
8 customer's perspective. Because more than half of the Company's revenue requirement is  
9 associated with delivery and customer service functions, the consolidation of pricing for  
10 those services across the service territory just as it is done for electric and gas utilities is a  
11 sensible approach to rate design. The principles of cost causation, which are more  
12 commonly applied to allocation of revenue requirement to customer classes than it is to  
13 differentiation of pricing by geography, is not destroyed through CTP. Economic  
14 efficiencies are not destroyed, and "subsidies" are no more created through CTP than they  
15 are through averaging rates for customers in other ways that are deemed completely  
16 reasonable. The Commission has already adopted CTP in the Company's service territory  
17 for a large number of independent operating districts, and the Commission should complete  
18 the process for CTP and approve a single consolidated tariff for all customers in the  
19 MAWC service territory.

20 **Q. Does this conclude your Rebuttal Testimony?**

21 A. Yes.

# Missouri-American Water Company Comparison of Rate L and Non-Qualifying Rate J Monthly Usage Patterns (2019 Data)

