

Exhibit No.:
Issues: Declining Usage, Total Revenues,
Single Tariff Pricing, Cost of
Service, Revenue Allocations to
Customer Class, General Rate
Design
Witness: Max W. McClellan
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Surrebuttal
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Company
Case No.: WR-2024-0320
Date: January 24, 2025

MISSOURI PUBLIC SERVICE COMMISSION

CASE NO. WR-2024-0320

REBUTTAL/SURREBUTTAL/SUR-SURREBUTTAL TESTIMONY

OF

MAX W. MCCLELLAN

ON BEHALF OF

MISSOURI-AMERICAN WATER COMPANY

AFFIDAVIT

I, Max McClellan, under penalty of perjury, and pursuant to Section 509.030, RSMo, state that I am a Principal Regulatory Analyst 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.

Max McClellan

Max W. McClellan

January 24, 2025

Dated

**REBUTTAL/SURREBUTTAL/SUR-SURREBUTTAL TESTIMONY
MAX W. MCCLELLAN
MISSOURI AMERICAN WATER COMPANY
CASE NO.: WR-2024-0320**

TABLE OF CONTENTS

I. INTRODUCTION	2
II. RESIDENTIAL USAGE NORMALIZATION	3
III. GENERAL REVENUE CALCULATIONS	18
IV. COST OF SERVICE	18
V. SINGLE TARIFF PRICING.....	31
VI. REVENUE ALLOCATION TO CUSTOMER CLASS.....	43
VII. GENERAL RATE DESIGN	47

REBUTTAL/SURREBUTTAL/SUR-SURREBUTTAL TESTIMONY

MAX. W. MCCLELLAN

I. INTRODUCTION

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Q. Please state your name and business address.

A. My name is Max W. McClellan. My business address is 1 Water Street, Camden, NJ 08102.

Q. Are you the same Max W. McClellan who previously submitted Direct Testimony in this proceeding?

A. Yes.

Q. What is the purpose of your Rebuttal/Surrebuttal/Sur-Surrebuttal Testimony in this proceeding?

A. The purpose of my Rebuttal/Surrebuttal/Sur-Surrebuttal Testimony is to respond to testimony submitted by the Staff of the Public Service Commission (“Staff”), the Missouri Industrial Energy Consumers (“MIEC”), the Midwest Energy Consumers Group (“MECG”), the Consumers Council of Missouri (“CCM”), and the Office of Public Council (“OPC”) on the following issues:

- Residential Usage Normalization
- General Revenue Calculations
- Cost of Service
- Single Tariff Pricing
- Revenue Allocation to Customer Class
- General Rate Design

Specifically, I address the Direct/Rebuttal Testimony filings of Staff witnesses Jarrod J. Robertson, Ashley Sarver, Melanie Marek; MIEC Witness Jessica A. York; MECG Witness Jessica A. York; CCM Witness Caroline Palmer; and OPC Witness Dr. Geoff

1 Marke. I also address the Cross-Rebuttal/Surrebuttal Testimony of Staff Witness
2 Robertson and the Cross-Rebuttal Testimony of OPC Witness Lena Mantle.

3 **Q. Do you have any corrections to make to your Direct Testimony at this time?**

4 A. Yes. In the present revenue calculations, there were several rates related to special contract
5 customers that used the incorrect vintage for the twelve months ended December 2024 and
6 the twelve months ended May 2025. These will be reflected in the Company's true-up.

7 **II. RESIDENTIAL USAGE NORMALIZATION**

8 **Q. Please briefly describe the Company's approach to forecasting residential water
9 consumption in this proceeding.**

10 A. The Company is using a statistical linear regression analysis to model monthly residential
11 usage over a historical 10-year period for both St. Louis County and non-St. Louis County
12 customers and uses that statistical analysis to normalize the effects of weather and COVID-
13 related usage anomalies to project residential use for the 12-month period ended December
14 31, 2023. This information is then used to project usage for the 12-month periods ended
15 December 31, 2024 and May 31, 2025, incorporating the identified trends identified in the
16 statistical analysis model. I described this statistical analysis in my Direct Testimony.¹

17 **Q. Does Staff also make a projection of residential customer usage since in their
18 revenue calculations?**

19 A. Yes. Staff Witness Robertson presents Staff's method of normalizing residential customer
20 usage.

¹ McClellan DT, pp. 33-54.

1 **Q. What is Mr. Robertson's approach to forecasting residential usage in his Direct**
2 **Testimony?**

3 A. Mr. Robertson proposes to use a five-year average of actual usage for the period January
4 2019 through December 2023 to calculate per residential customer, per day, and per district
5 averages for residential usage.²

6 **Q. What rationale does Mr. Robertson offer for his preferred methodology?**

7 A. Mr. Robertson states that averaging the data over the most recent five-year period
8 represents reliable data and provides evidence of recent trends in customer usage.³ He
9 states that this method is a reasonable approach that utilizes actual data to support an
10 annualized level of usage and that averaging the data over the most recent five-year period
11 produces reliable data and evidence of recent trends in customer usage such as installation
12 of more efficient appliances, and changes in discretionary practices such as irrigation and
13 lawn sprinkling which can change over time⁴. He also notes that usage may also be affected
14 by external factors such as climate change⁵. He states that as these factors change over
15 time, using the most recent five years of data provides for a reasonable determination of
16 customers' usage habits, while avoiding using data too old to reflect the current situation⁶.

17 **Q. Does Mr. Robertson directly address the Company's statistical approach?**

² Robertson DT/RT, p. 5, lines 11-12.

³ Robertson DT/RT, p. 5, lines 13-14.

⁴ Robertson DT/RT, p. 6, lines 1-5.

⁵ Robertson DT/RT, p. 5, lines 16-17.

⁶ Robertson DT/RT, p. 6, lines 5-7.

1 A. Yes. Mr. Robertson questions the validity of using a calendar month’s weather data as an
2 independent variable as a billing month does not necessarily run from the first day of the
3 month to the last day of the month⁷. Mr. Robertson also disagrees with the length and/or
4 timeframe of the COVID-19 independent variable included in MAWC’s statistical linear
5 regression analysis. He states that Staff believes the COVID-19 variable should have been
6 removed as of June 2020 due to a June 11, 2020 announcement by Governor Mike Parson
7 as well as a June 2020 publication by the United States Department of Labor.⁸

8 **Q. Did the Company account for a billing month not necessarily reflecting the same time**
9 **period of a calendar month with respect to weather data?**

10 A. Yes, it did. The Company applies a lag to the weather data to account for a billing month
11 not necessarily reflecting the same time period of a calendar month. Within the declining
12 usage models, this lag results in the monthly weather data reflecting part of the current
13 month as well as part of the prior month. Likewise, each month’s residential billed sales
14 reflect consumption within part of the current month as well as part of the prior month.

15 **Q. Do you agree with Mr. Robertson that it would be more appropriate for the COVID-**
16 **19 independent variable to span the months of April 2020 through June 2020?**

17 A. No. This would only capture a period of increased government response of the Missouri
18 government to the COVID-19 public health emergency such as stay-at-home orders.
19 However, impacts on residential usage persisted beyond June 2020 due to customer

⁷ Robertson DT/RT, pp. 7-8, lines 19-22.

⁸ Robertson DT/RT, p. 9, lines 5-10.

1 behavioral changes as well as an increase in remote working and remote schooling. The
2 federal public health emergency for COVID-19 did not expire until May 11, 2023.⁹

3 **Q. Do you agree with Mr. Robertson’s overall approach of using a five-year average to**
4 **forecast residential customer usage; and if not, why not?**

5 A. I do not. The use of a five-year average is appropriate in situations where there are positive
6 and negative fluctuations in usage during the period but there is no significant upward or
7 downward trend in the data. That is not the case for residential use per customer. Chart 1
8 and Chart 2 that I present in my Direct Testimony¹⁰ demonstrate that there is a pervasive
9 downward trend in normalized use per customer for both St. Louis County and non-St.
10 Louis County customers during the entire ten-year historical period. Use of a five-year
11 average over the last five years effectively ignores the effect of that pervasive downward
12 trend and assumes that each of the last five years is representative of what usage is likely
13 to be going forward. The data demonstrates that each of the last five years are not
14 representative of what usage is likely to be going forward.

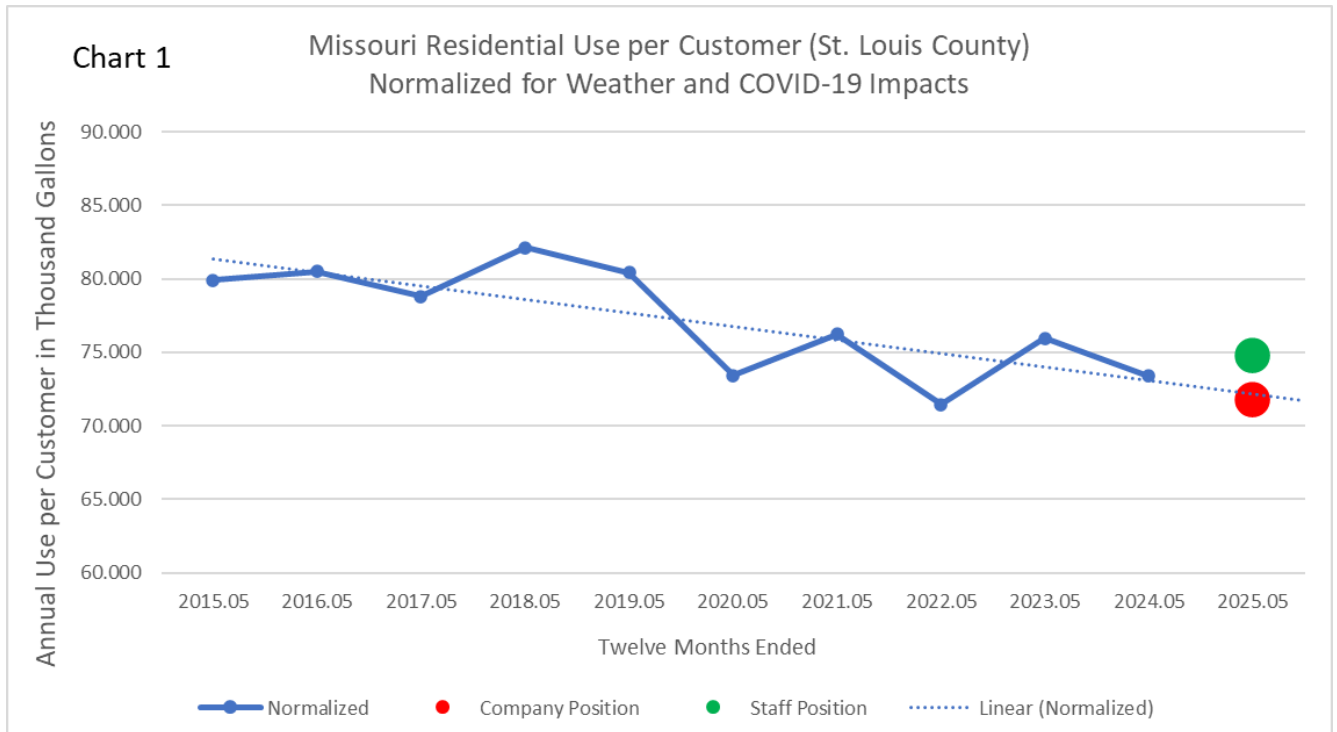
15 I would note that for the purpose of calculating billing determinants the Company
16 has proposed using three-years of customer growth applied to residential, commercial, and
17 OPA customer counts in order to recognize that there is significant organic growth in
18 customer counts over time. In the same way, the Company’s declining use calculation
19 recognizes that there have been pervasive declines in customer usage over time for the
20 residential class.

⁹ U.S Department of Health and Human Services - <https://www.hhs.gov/coronavirus/covid-19-public-health-emergency/index.html>

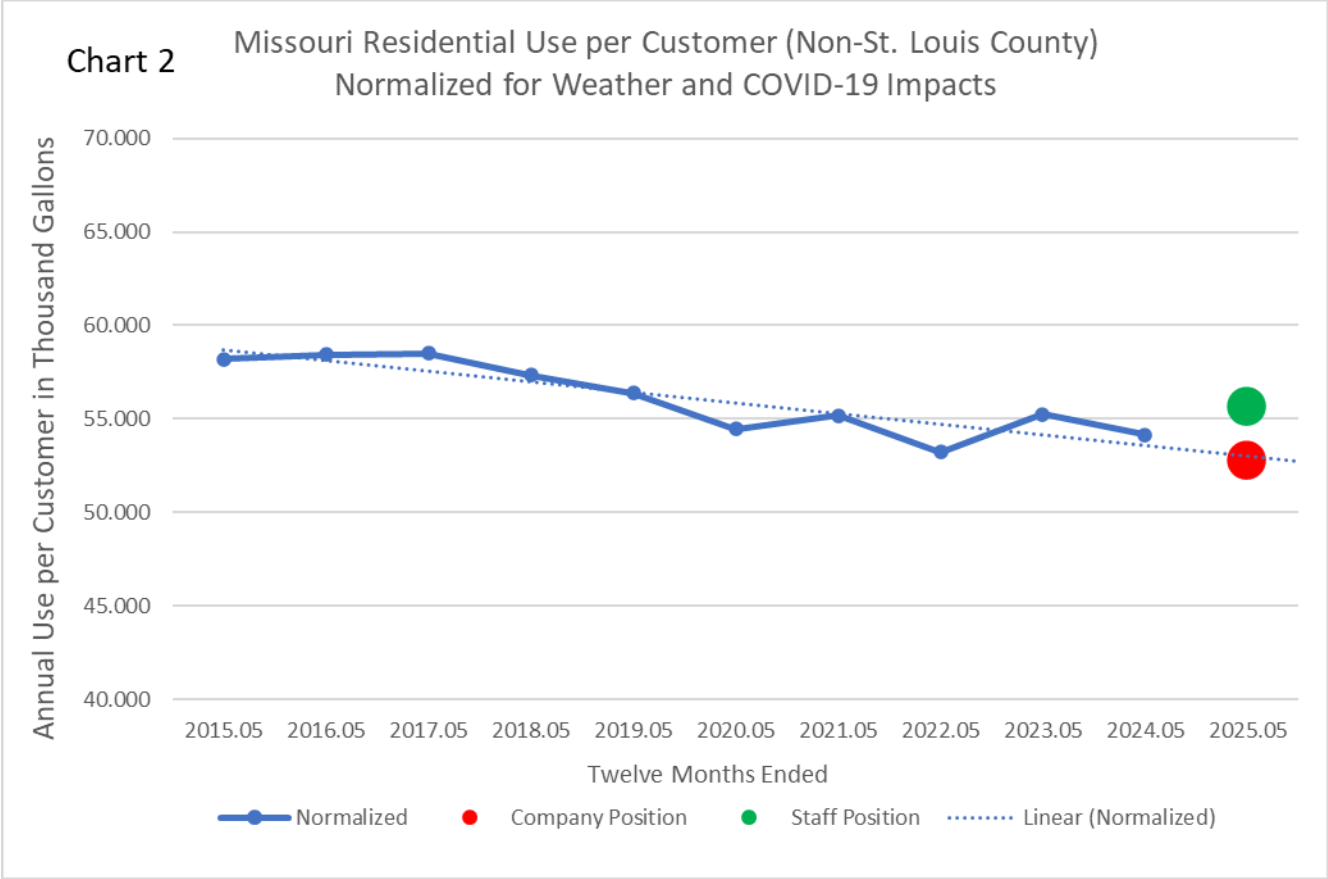
¹⁰ McClellan DT, pp. 51-52.

1 **Q. Is there a difference in residential usage estimates between the Company and Staff**
2 **due to the application of different methodologies?**

3 A. Yes. Charts 1 and 2 below, for St. Louis County and non-St. Louis County residential usage
4 respectively, show the historical normalized use per customer over the last 10 years. These
5 charts also show the Company’s projected usage for the 12-months ended May 31, 2025
6 based on its methodology, and the five-year average of residential use per customer based
7 on Staff’s methodology. As shown in these charts, the residential use per customer
8 estimate for the 12-months period ended May 2025, as calculated by the Company’s
9 methodology, is much closer to the current level of residential normalized usage than
10 Staff’s methodology. The charts also show that there is a downward trend in residential
11 usage per customer over the last ten years.
12



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2 **Q. What does this indicate to you?**

3 A. Charts 1 and 2 show that the residential use per customer estimate for the 12-months period
 4 ended May 2025, as calculated by the Company’s methodology, is much closer to the
 5 current level of residential normalized usage than Staff’s methodology. The charts show
 6 that in each case. Staff’s estimates of use per customer is higher than the five-year average
 7 of normalized use per customer over the time period that, according to Staff, represents the
 8 most important period of time to consider.

1 **Q. Have you reviewed Mr. Robertson's Tables I¹¹ and II¹² in his Cross-**
2 **Rebuttal/Surrebuttal Testimony?**

3 A. Yes, I have.

4 **Q. What does Mr. Robertson's Table I depict?**

5 A. Table I shows a comparison between Staff's estimated total decline in usage and MAWC's
6 estimated total decline in usage along with implied declines in revenue. As depicted by Mr.
7 Robertson's Table I, both parties agree that there is an annual decline in usage over time
8 for both St. Louis County and non-St. Louis County. For St. Louis County, Staff shows a
9 greater annual decline in usage than MAWC. For non-St. Louis County, MAWC shows a
10 greater annual decline in usage than Staff.

11 **Q. Do you interpret Mr. Robertson's Table I to be generally supportive of a declining**
12 **usage trend?**

13 A. Yes, I do.

14 **Q. What does Mr. Robertson's Table II depict?**

15 A. Table B shows Staff's calculated usage per customer per day for the years 2019, 2020,
16 2021, 2022, and 2023. Staff's purpose of including these tables is to demonstrate that some
17 years there is an increase in usage-per-customer year-over-year.¹³

18 **Q. Do you agree that there is an increase in usage-per-customer year-over-year in some**
19 **years?**

20 A. Certainly. However, taking my Chart 1 and Chart 2 that I present in my Direct Testimony¹⁴
21 as well as Chart 1 and 2 above into consideration, I think Staff's point that there are

¹¹ Robertson DT/RT, p. 11.

¹² Robertson DT/RT, p. 14.

¹³ Robertson DT/RT p. 14, lines 3-17.

¹⁴ McClellan DT, pp. 51-52.

1 increases in actual per day residential customer usage for some years lends to the idea that
2 more years must be considered. There is a clear usage trend in place that exceeds five years
3 The charts also demonstrate the need to normalize for known trends such as historical
4 weather and the COVID-19 public health emergency's impact on residential customer
5 usage. Unlike with Mr. Roberson's five-year average, if there is a year with more rain, a
6 drought, or a public health emergency, those trends can be known and accounted for. The
7 Company's regression analysis contains 120 observations, independent variables
8 accounting for those trends, and is less susceptible to outlier years than Mr. Roberson's
9 approach of using a five-year average.

10 **Q. What is the revenue impact associated with the differences in residential usage**
11 **estimates?**

12 A. The revenue impact associated with the differences in residential usage is significant. For
13 St. Louis County customers, the difference in estimates results in a usage per customer
14 difference of approximately 3,000 gallons per year. Multiplying that by the number of St.
15 Louis County residential customers and the current volumetric rate for St. Louis County
16 Rate A yields a difference of approximately \$7.5 million in present rate revenue between
17 Staff's position and the Company's position, with Staff's methodology yielding a higher
18 present rate revenue amount. The same is true for Non-St. Louis County customers. For
19 Non-St. Louis County customers, the difference in estimates results in a usage per customer
20 difference of approximately 2,900 gallons per year. Multiplying that by the number of
21 Non-St. Louis County residential customers and the current volumetric rate for Non-St.
22 Louis County Rate A yields a difference of approximately \$3.0 million in present rate
23 revenue between Staff's position and the Company's position, with Staff's methodology

1 yielding a higher present rate revenue amount. The total difference in present rate revenues
2 between Staff's position and the Company's position is approximately \$10.5 million.

3 **Q. Do any other parties testify on the topic of Usage Normalization?**

4 A. Yes. OPC Witness Mantle directly speaks to Usage Normalization in her Cross-Rebuttal
5 Testimony.

6 **Q. What is Ms. Mantle's position on Usage Normalization?**

7 A. Ms. Mantle adopts Staff's methodology for determining normalized residential usage, but
8 uses a three-year average instead of a five-year average. She also states that while she
9 believes there is ambiguity in Mr. Robertson's direct/rebuttal testimony, his analysis shows
10 that residential usage is actually increasing.¹⁵

11 **Q. Did Mr. Robertson make corrections to his direct/rebuttal analysis?**

12 A. Yes. Mr. Robertson filed cross-rebuttal/surrebuttal testimony with the purpose of
13 addressing an error in his District 2 (non-St. Louis County) analysis.

14 **Q. What is the nature of the error?**

15 A. The error was that some average monthly customer counts were overstated. With
16 inadvertently high customer counts, the usage per customer became understated in District
17 2 in some years.¹⁶ This ultimately resulted in the analysis showing an increasing usage per
18 customer trend. It also resulted in Mr. Robertson's five-year average approach showing a
19 lower amount of residential customer usage per day.

20 **Q. Does this error impact Ms. Mantle's analysis?**

¹⁵ Mantle C-RT, p. 2

¹⁶ Robertson C-RT, pp. 1-2.

1 A. It does. Ms. Mantle’s analysis uses the historical data from Mr. Robertson’s direct/rebuttal
2 workpaper “WR-2024-0320 Normalization-Declining Usage FILING”, which has since
3 been revised.

4 **Q. Please address Ms. Mantle’s statement that Mr. Robertson’s residential usage
5 analysis shows that residential usage is actually increasing.**

6 A. Ms. Mantle’s statement was based on Mr. Robertson’s initial analysis, which contained the
7 error discussed above. With the correction to his District 2 (non-St. Louis County)
8 analysis, it is apparent that Mr. Robertson’s analysis does *not* show that the residential
9 usage is increasing.

10 **Q. Did Ms. Mantle raise concerns about your position in her cross-rebuttal testimony
11 filed in this case?**

12 A. Yes.

13 **A. Did she also raise concerns with your Direct Testimony in her direct/rebuttal
14 testimony filed in this case?**

15 A. No. Ms. Mantle did not file a response to my Direct Testimony in her direct/rebuttal
16 testimony.

17 **Q. Is Ms. Mantle’s discussion of your Direct Testimony in response to testimony
18 provided by any Intervenor, including Staff?**

19 A. Some of Ms. Mantle’s cross-rebuttal testimony responds to Staff witness Robertson, but a
20 portion of that testimony responds to and focuses on my Direct Testimony. Even though
21 she responds to my Direct Testimony, I am providing a response to Ms. Mantle’s cross-
22 rebuttal testimony throughout this testimony so the Commission has all relevant positions
23 to analyze the issues.

1 **Q. Does Ms. Mantle have any concerns about MAWC’s residential usage normalization**
2 **analysis?**

3 A. Yes, several. Ms. Mantle claims that:

- 4 • It does not make sense that MAWC’s average residential usage is declining.¹⁷
- 5 • The data does not support the assumption that customers in District 1 (St. Louis
6 County) used more water during the COVID-19 public health emergency.¹⁸
- 7 • Staff’s usage normalization model better reflects reality.¹⁹
- 8 • MAWC did not use weather variables that align with the billing month usage in its
9 regression models.²⁰

10 **Q. Why does Ms. Mantle state that it does not make sense that MAWC’s average**
11 **residential usage is declining?**

12 A. This is largely with respect to District 2 (non-St. Louis County). For District 1 (St. Louis
13 County), she observes that “it is predictable that a model would estimate declining usage
14 since half of the data points (2014 through 2018) do show a decline in usage”²¹. She also
15 states that the model is likely to have estimated a greater decline if more historical years
16 were added²². For District 2, Ms. Mantle utilizes the data from Mr. Robertson’s analysis to
17 show that annual average usage has definitely increased. As noted already, Mr. Robertson’s
18 data has since been revised.

¹⁷ Mantle C-RT, pp. 3-4.

¹⁸ Mantle C-RT, p. 10, lines 7-11.

¹⁹ Mantle C-RT, p. 10, line 15.

²⁰ Mantle C-RT, p. 11.

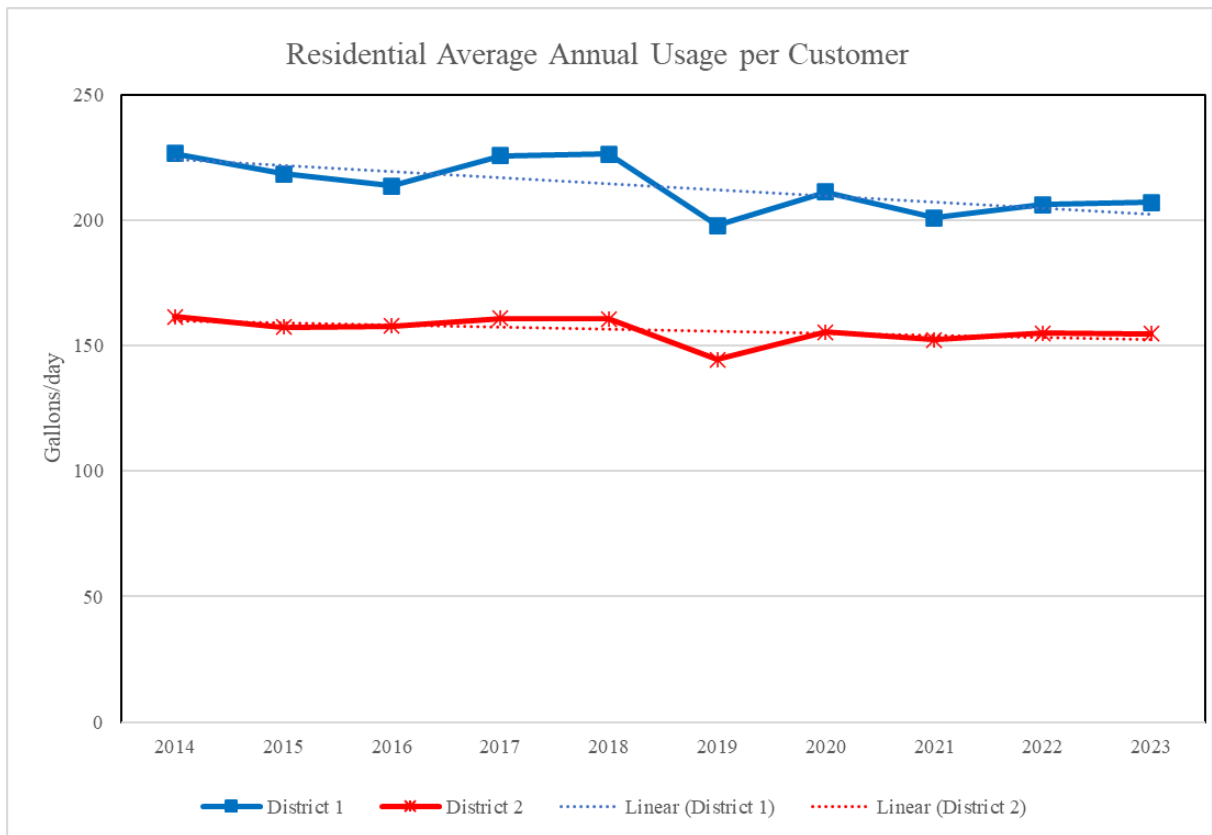
²¹ Mantle C-RT, p. 6, lines 7-8.

²² Mantle C-RT, p. 6, lines 9-11.

1 **Q. What would the figures from Ms. Mantle’s Cross-Rebuttal Testimony look like after**
2 **incorporating Mr. Robertson’s corrections to historical usage per customer?**

3 A. Please see Figure 1 below to see what Mantle’s Figure 2’s graph²³ reflects after including
4 Mr. Robertson’s corrections to his underlying data, with no other changes. Notably, the
5 District 2 usage per customer (not normalized and with UPC data as prepared by Mr.
6 Robertson) does show a decreasing trend after this modification.

7 **Figure 1**

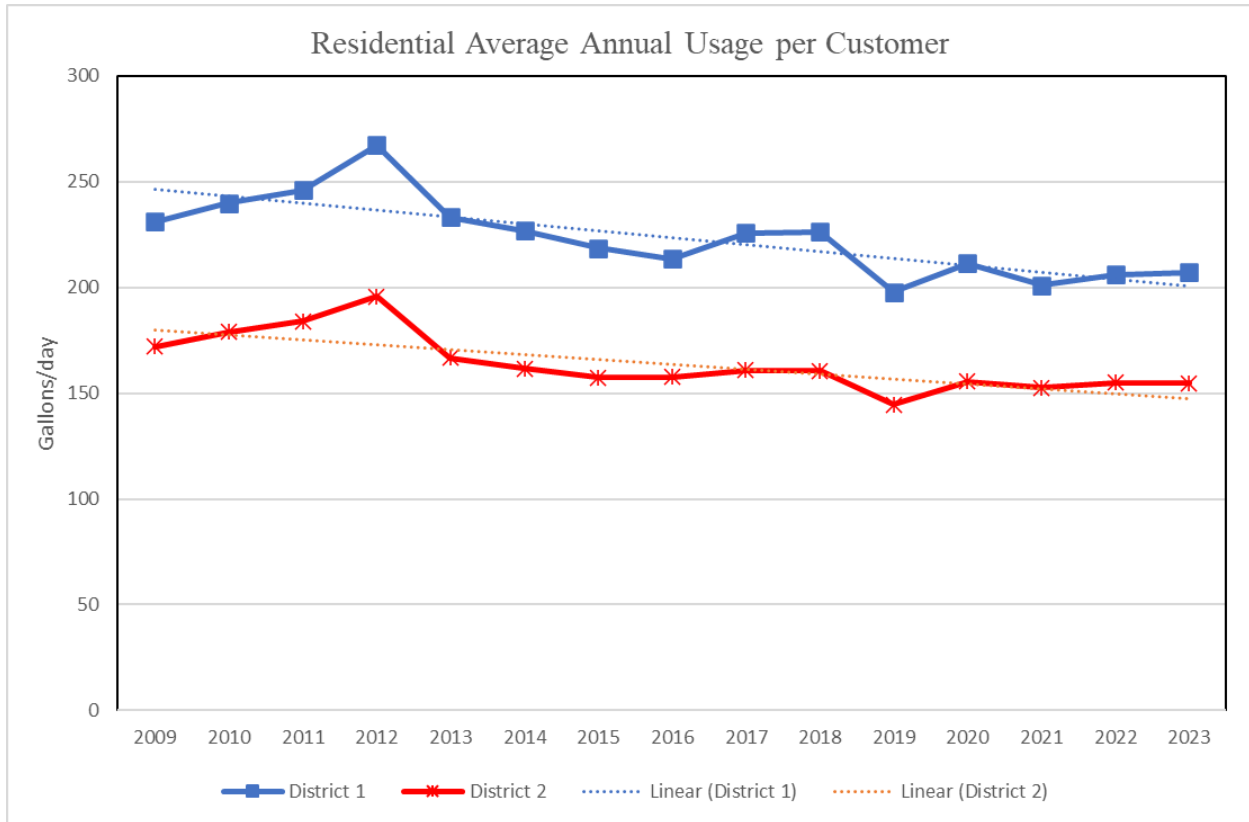


8
9 Figure 2 below, another revised graph from the Mantle Cross Rebuttal workpaper,
10 demonstrates that this trend has persisted longer than the ten years above.

²³ Mantle C-RT, p. 5

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Figure 2



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Q. Do you agree that the data does not support the assumption that customers in District 1 (St. Louis County) used more water during the COVID-19 public health emergency?

A. In the case of MAWC’s St. Louis County regression analysis, it would be fair to say that the data does not necessarily support the assumption that customers in District 1 used more water during the COVID-19 public health emergency, as the COVID independent variable shows a p-value that indicates the variable is not statistically significant. However, including any variable for forecasting purposes, even if it is statistically insignificant, will improve the R-Square. Due to our theoretical framework (i.e., that the COVID-19 public

1 health emergency created a situation where residential usage would increase), we should
2 include it in the model to capture any potential effects that might be present due to the
3 variable even if it is statistically insignificant.

4 **Q. Do you agree that, if the impact of the COVID-19 public health emergency led to an**
5 **increase in usage per customer in District 2 (non-St. Louis County), the impact has**
6 **become a new normal and should not be removed from the usage to determine**
7 **normalized revenue?**

8 A. I do not. While I am not philosophically opposed to the idea that residential customer usage
9 habits have permanently changed as the result of the COVID-19 public health emergency,
10 it is not appropriate to conclude that a new normal as it exists today also existed during the
11 public health emergency. The COVID-19 impact on residential usage per customer during
12 that time period should be measured and accounted for.

13 **Q. Do you agree that Staff's usage normalization model better reflects reality?**

14 A. No. Staff's approach of using a five-year average usage-per-customer does not better
15 reflect reality in this case. Their approach, an average of five data points, does not take into
16 account known and measurable trends including historical weather, increased customer
17 time at home due to the COVID-19 public health emergency, and an overall decline in
18 usage trend that includes improvements in water efficiency over time. MAWC's approach
19 evaluates the relationship between residential water usage per customer and all of these
20 variables in order to forecast usage per customer under normal conditions.

21 **Q. Do you agree that MAWC did not use weather variables that align with the billing**
22 **month usage in its regression models?**

1 A. No, I do not. Ms. Mantle observes that customer usage used in my analysis is by billing
2 month, not by calendar month.²⁴ I agree with that. As discussed above in response to Mr.
3 Robertson, the weather variable in use contains a combination of that month’s historical
4 weather data as well as the prior month’s historical weather data in order to accommodate
5 the difference between a calendar month and a billing month. In short, MAWC is not
6 evaluating the relationship between a month’s residential billed usage per customer and
7 that calendar month’s weather data. MAWC is evaluating the relationship between usage
8 per customer on a billing month basis and an estimate of weather data during the billing
9 month.

10 **Q. What is your recommendation regarding the appropriate methodology for**
11 **calculating residential billing determinants?**

12 A. I recommend that the Commission adopt the Company’s approach to calculating residential
13 billing determinants, which includes adjustments for customer growth and adjustments for
14 declining consumption, both of which have been demonstrated through the Company’s
15 analysis of usage and customer counts. It is important to recognize both positive and
16 negative trends in usage, or components of usage, for the purpose of developing an accurate
17 set of building determinants for rate making that reflects the current level of normalized
18 usage. The Company’s approach does just that. Conversely, using a simple multi-year
19 average of residential use per customer ignores the pervasive downward trend in
20 normalized residential usage that has persisted through the last ten years. Therefore, each
21 of Staff’s and OPC’s approaches should be rejected.

²⁴ Mantle C-RT, p. 11, lines 14-16.

1 **III. GENERAL REVENUE CALCULATIONS**

2 **Q. Has Staff addressed the general calculation of revenues in this proceeding?**

3 A. Yes, I reviewed the Direct/Rebuttal Testimony of Staff Witness Sarver, which addresses
4 the calculation of revenues in this proceeding.

5 **Q. Other than the calculation of residential usage that you have already addressed in
6 your Rebuttal/Surrebuttal/Sur-Surrebuttal Testimony, have you identified any
7 significant differences in the calculation of revenues between the Company's
8 proposed methodologies you outlined in your Direct Testimony and the
9 methodologies described by Ms. Sarver?**

10 A. I have not. The methodologies outlined by Ms. Sarver are generally consistent with the
11 methodologies proposed by the Company.

12 **Q. Are there any changes that you want to note at this time relating to the Company's
13 proposed billing determinants?**

14 A. Yes. The Company has one pending water acquisition and two pending divestitures (one a
15 water system and the other a group of wastewater systems). The Company has proposed
16 discrete adjustments to reflect the change to customer count/billing determinants that will
17 result once these transactions close. Company witness Brian LaGrand provides additional
18 information on these transactions in his Rebuttal/Surrebuttal/Sur-Surrebuttal Testimony.

19 **IV. COST OF SERVICE**

20 **Q. Did the Company provide a cost of service study ("COSS") in this proceeding?**

21 A. Yes. The Company provided three class cost of service analyses in this proceeding. These
22 COSSs were attached to my direct testimony as Schedules MWM-1, MWM-2, and MWM-
23 3.

1 **Q. Did other parties comment on the Company’s class cost of service analyses in this**
2 **proceeding?**

3 A. Yes. Staff Witness Marek, MIEC Witness York, MECG Witness York and CCM Witness
4 Palmer comment on the Company’s water class cost of service analyses.

5 **Q. Please describe Staff’s position regarding the Company’s COSS.**

6 A. Staff stated that it did not prepare a COSS for MAWC’s water and sewer operations in this
7 case because it appeared to them that there was not much difference in the allocations
8 between MAWC’s submitted COSS and the Staff prepared COSS from the last rate case.²⁵
9 It also observes that MAWC has not provided an updated COSS study based on the ordered
10 historical test year’s data.²⁶

11 **Q. Please describe MIEC’s position regarding the Company’s COSS?**

12 A. MIEC Witness York states that the water COSS for St. Louis County is inaccurate and
13 should not be relied upon to guide revenue apportionment. She states the following to be
14 deficiencies with the water COSS for St. Louis County²⁷:

- 15 • No Source of Supply or Water Treatment costs were allocated to the Public Fire
16 class.
- 17 • Purchase power costs were allocated to customer classes based only on usage
18 (Factor 1 in the cost of service analysis) and instead should allocate purchase power
19 costs through a Base/Extra Allocator (Factor 3 in the cost of service analysis)²⁸.

²⁵ Marek DT/RT, p. 3, lines 8-10.
²⁶ Marek DT/RT, p. 4, lines 3-4.
²⁷ MIEC’s York DT/RT, p. 2, lines 1-16.
²⁸ MIEC’s York DT/RT, pp. 10-12.

- 1 • The Company's calculated Distribution Multiplier for the Rate J class of 0.11 is
2 unsupported and should be 0.0117²⁹.
- 3 • The Company's system load factor on the maximum day, excluding fire, is based
4 on an average over the three-year period from 2021 to 2023³⁰.
- 5 • The Company's system capacity factors are inconsistent with the customer class
6 load characteristics suggested by the customer class maximum day and maximum
7 hour peaking factors³¹.
- 8 • 86.3% of depreciation expense and plant investment in the category of mains sized
9 10-inches to 16-inches be assigned to the Distribution functional cost category
10 instead of Transmission.

11 **Q. Please describe MCEG's position regarding the Company's COSS?**

12 A. MCEG Witness York, who submitted separate testimony on behalf of MCEG and MIEC,
13 states that the water COSS for the Other MO (non-St. Louis County) water district is
14 inaccurate and should not be relied upon to guide revenue apportionment. She states the
15 following to be deficiencies with the water COSS for non-St. Louis County.³²

- 16 • No Source of Supply or Water Treatment costs were allocated to the Public Fire
17 class.
- 18 • Purchase power costs were allocated to customer classes based only on usage
19 (Factor 1 in the cost of service analysis) and instead should allocate purchase power

²⁹ MIEC's York DT/RT, pp. 13-17.

³⁰ MIEC's York DT/RT, p. 18, lines 15-16.

³¹ MIEC's York DT/RT, p. 18, lines 19-20.

³² MCEG's York DT/RT, pp. 2-3, lines 21-6.

1 costs through a Base/Extra Allocator (Factor 3 in the cost of service analysis).

- 2 • The Company's calculated Distribution Multiplier for the Rate J class of 0.11
3 should be 0.065.³³
- 4 • The system load factor for the Other MO (non-St. Louis County) water district has
5 increased significantly over time and is inconsistent with district-specific system
6 load factors from WR-2015-0301.³⁴
- 7 • The system load factor on the maximum day, excluding fire, is based on an average
8 over the three-year period from 2021 to 2023.³⁵
- 9 • The system capacity factors are inconsistent with the customer class load
10 characteristics suggested by the customer class maximum day and maximum hour
11 peaking factors.

12 **Q. Will you address any of MIEC and MECG's shared concerns?**

13 A. Yes. I will address both MIEC and MECG together when responding to concerns shared
14 by both parties.

15 **Q. Do you have any other comments to preface your responses to MIEC and MECG?**

16 A. Yes. Ms. York appears to use the word Industrial when referring to Rate J throughout her
17 testimony. I will be responding as if any references to Industrial customers are instead
18 references to Rate J customers, which I believe was her intention. To be clear, Rate J is
19 available to Commercial, Industrial, and OPA customers that meet certain requirements.

20 **Q. How do you respond to Ms. York's concerns that the Company has not allocated any**

³³ MECG's York DT/RT, pp. 13-14, lines 12-2.

³⁴ MECG's York DT/RT, pp. 17-19, lines 4-14

³⁵ MECG's York DT/RT, p. 17, lines 6-8.

1 **costs associated with source of supply or water treatment to the Public Fire class?**

2 A. It would be appropriate to allocate some portion of the fixed costs associated with Source
3 of Supply costs to the Public Fire customer class, although many water cost of services
4 analyses do not do so because Source of Supply costs are largely associated with providing
5 volumes of water over the long-term and not for emergency situations. I do not disagree
6 that costs associated with Source of Supply expenses can be allocated to the Public Fire
7 class; however, I disagree that it is necessary to allocate Water Treatment costs to the Public
8 Fire class.

9 **Q. Why do you believe it is acceptable to not allocate Water Treatment costs to the Public**
10 **Fire class?**

11 A. Water Treatment costs are incurred primarily to provide potable water service, and potable
12 water is not generally needed for firefighting purposes. As such, it would be appropriate to
13 *not* allocate Water Treatment costs to this class, as this class is not causing the need for
14 water to be potable.

15 **Q. What is Ms. York's rationale for allocating Water Treatment costs to the Public Fire**
16 **class?**

17 A. Ms. York states that although non-potable water could be used for fire protection service,
18 the Company has not provided evidence showing that non-potable water is being used to
19 serve the fire service classes. Further, because the fire service classes receive an allocation
20 of storage costs, which are also associated with potable water, it would be reasonable to
21 assign a portion of Water Treatment costs to the Public Fire class. She also points out that

1 the Company's water COSS shows some Water Treatment costs allocated to the Private
2 Fire class.³⁶³⁷

3 **Q. Why are there Water Treatment costs allocated to the Private Fire class in the**
4 **Company's water COSS?**

5 A. The Private Fire class has demonstrated a relatively small, regular level of monthly billed
6 usage that is billed on the Rate A volumetric rate. This usage is included in the class cost
7 of service analyses and is being incorporated consistently with the other classes.

8 **Q. Why does Ms. York advocate for a base-extra allocator for purchased power costs?**

9 A. Ms. York's position is that the use of Factor 1 does not recognize how MAWC incurs
10 purchased power expense. She uses the example that MAWC purchases power from
11 Ameren Missouri, which charges commercial rates that vary based on seasonal and peak
12 and off-peak periods; therefore, the use of an allocator based on annual usage is not
13 appropriate and should be replaced with an allocator that includes components related to
14 average daily and hourly usage and extra daily and hourly capacity.³⁸³⁹

15 **Q. Please respond to Ms. York's concerns that the Company has allocated purchased**
16 **power expense on base usage instead of base and extra-capacity demand.**

17 A. First, it is important to recognize MAWC's customers' peak demands as well as how the
18 Company manages its operational requirements in response to those demands. For
19 instance, MAWC's customers' peak customer demand typically occurs during the summer
20 in the early morning due to irrigation requirements and several other factors. MAWC
21 addresses this peak by pumping twice as much at night to fill tanks during off-peak hours.

³⁶ MIEC's York DT/RT, p. 9, lines 11-19.

³⁷ MIEC's York DT/RT, p. 9, lines 4-12.

³⁸ MIEC's York DT/RT, pp. 10-11.

³⁹ MIEC's York DT/RT, pp. 11-12.

1 Therefore, there is limited, if any, correlation between increases in pumping requirements
2 on the Company's part to meet customer peak demand and increases in purchased power
3 costs. It should be generally noted that as the delivery system moves upstream from the
4 end-user it is designed to meet a diversity of demands that is focused less on hourly peak
5 demands of customers and fire service and more on total daily requirements. It should also
6 be noted that not every commercial electric rate charged to MAWC facilities includes a
7 demand charge.

8 **Q. Please explain Ms. York's recommendation regarding the allocation of Transmission**
9 **and Distribution Mains.**

10 A. Ms. York recommends moving the majority of depreciation expense and plant investment
11 cost associated with mains sized 10-16-inches from the Transmission function to the
12 Distribution function.

13 **Q. What would be the effect of Ms. York's adjustment?**

14 A. Reclassifying the majority of mains sized 10-16-inches as distribution mains and assigning
15 the associated plant and depreciation expense to the Distribution function would
16 significantly shift the costs associated with those mains from Rate J to the smaller
17 customers' classes which are served off of distribution mains.

18 **Q. For COSS and ratemaking purposes, how has MAWC historically separated**
19 **Transmission and Distribution mains?**

20 A. For at least the last 17 years MAWC has considered mains 10 inches or larger to serve the
21 Transmission function and mains smaller than 10 inches to serve the Distribution function.

22 **Q. What basis has Ms. York used to support her recommendation?**

23 A. Ms. York explains that the Company's cost of service study reflects footage for

1 Transmission and Distribution mains based on MAWC's 2023 annual report which
2 classifies mains for St. Louis County under 16-inches as distribution mains.⁴⁰

3 **Q. Was the main footage from MAWC's 2023 annual report used in your COSS?**

4 A. Yes. I did rely on the information in the annual report but believe that classifications in
5 the annual report should be revisited to appropriately match how mains are classified for
6 ratemaking and COSS purposes. The Company should continue to consider mains 10
7 inches or larger to serve the Transmission function and mains smaller than 10 inches to
8 serve the Distribution function for the purpose of cost allocation through a cost of service
9 study.

10 **Q. How do you respond to MCEG Witness York's concerns that the Company's system
11 load factors for the Other MO (non-St. Louis County) water district have increased
12 significantly over time?**

13 A. Ms. York cites district-specific models from a 2015 rate case with a weighted average
14 system load factor of 60.3%.⁴¹ She also states that the 2022 rate case the Company's water
15 COSS for the non-St. Louis County district had a maximum day system load factor of
16 71.2%.⁴² In this rate case, the maximum day system load factor is 71.3%. It is not
17 unreasonable for a load factor to move up or down as the district's system delivery patterns
18 change over time.

19 **Q. How do you respond to Ms. York's concerns that the Company's system load factors
20 are based on an average over a three-year period instead of the highest ratio of
21 maximum day to average day demand over a specified period?**

⁴⁰ MIEC's York DT/RT, p.25, lines 3-5

⁴¹ MCEG's York DT/RT, p. 18.

⁴² MCEG's York DT/RT, p. 19, lines 10-12.

1 A. The purpose of the system load factors in this context is to allocate costs in a COSS. It is
2 reasonable to allocate these costs based on what we expect maximum day and average day
3 usage to be. The most likely relationship between maximum day and average day usage
4 going forward is the three-year average calculation that the Company provided and
5 continues to support.

6 **Q. How do you respond to Ms. York’s concerns that the Company’s system load factors**
7 **used to assign costs between the base and extra-capacity functions should be modified**
8 **to be consistent with the customer class load characteristics indicated by class peaking**
9 **factors?**

10 A. I do not share her concerns. If the maximum daily values by class happen on different days
11 of the year, which is likely, the total system maximum day value will be less than the sum
12 of the individual class values, which will push the system load factor calculation closer to
13 1.00. Furthermore, system load factor is based on system delivery data. System delivery
14 data includes non-revenue water, which is generally not seasonal and would also serve to
15 push a system load factor calculation closer to 1.00.

16 **Q. MIEC Witness York states that the Company has not shown how it developed a 11%**
17 **distribution multiplier for St. Louis County’s water COSS in this case. Is that correct?**

18 A. Yes. The Rate J distribution multiplier in the Company’s direct case showed a value 0.11,
19 but should have reflected the calculated St. Louis County Rate J distribution multiplier of
20 0.4392. This distribution multiplier was calculated in the same manner as the distribution
21 multipliers for St. Louis County’s Rate B, Non-St. Louis County’s Rate J, and Non-St.
22 Louis County’s Rate B, which were correctly implemented into their respective COSS.

23 **Q. How would costs directionally change if the Company’s St. Louis County Rate J**

1 **distribution multiplier reflected the calculated value of 0.4392 instead of the**
2 **inadvertently input value of 0.11?**

3 A. The costs of service for the Residential, Non-Residential, Rate B, Private Fire, and Public
4 Fire classes would decrease. The cost of service for Rate J would increase.

5 **Q. MECG Witness York states that the Company's calculation of the non-St. Louis**
6 **County Rate J distribution multiplier omits certain customers from the calculation of**
7 **the Rate J distribution multiplier without explanation.⁴³ Would you explain the**
8 **omissions?**

9 A. In MECG Witness York's Schedule JAY-3, she adds three customers to the calculation for
10 the non-St. Louis County Rate J distribution multiplier. Two of those customers are on
11 special contracts and not included in the calculation. However, one of those customers is
12 being proposed to move to Rate J as part of this rate case. It would be appropriate to change
13 the calculations to reflect that prospective change in classification. The third customer does
14 appear to be an inadvertent omission and should have been included. After accounting for
15 these inclusions, the new non-St. Louis County Rate J distribution multiplier is 0.0873.

16 **Q. MIEC Witness York and MECG Witness York criticize the Company's method for**
17 **developing its distribution multiplier stating that MAWC needs to also consider the**
18 **length of distribution main serving Rate J customers. Do you agree?**

19 A. No, I do not. The costs of mains in MAWC's COSS are allocated using the Base/Extra
20 capacity allocator which is a usage-based allocator. The distribution multiplier is intended
21 to reflect the amount of Rate J usage to which this usage-based allocator applies. MIEC
22 and MECG are recommending using a percentage of system allocator. Mixing these two

⁴³ MECG's York DT/RT, pp. 13-14, lines 21-1.

1 types of allocators together is not reasonable and results in an “apples to oranges”
2 comparison.

3 **Q. Are there additional reasons why you disagree with MIEC Witness York and MECG**
4 **Witness York’s criticism of MAWC’s distribution multipliers?**

5 **A.** Determining the length of distribution main serving these customers does not adequately
6 allocate the “cost” of providing service. There is a different cost associated with each size
7 and type of main. There are different circumstances that drive the amount capitalized as
8 part of each main installed. It is not feasible to conduct an analysis that would accurately
9 capture the myriad of factors that determine this situation and to calculate an individual
10 customer rate. For example, the customers included within the Company’s sample
11 accounted for 72% of the Rate J usage for the St. Louis County sale for resale and Rate J
12 rate classes for the time period included in the calculation. Calculating the distribution
13 multiplier based on these customers’ utilization of the Company’s distribution
14 infrastructure is a reasonable approach to calculating the distribution multiplier.

15 **Q. Has MIEC Witness York provided any analysis or made any recommendations on**
16 **what she feels the appropriate Rate J distribution multiplier should be for the St.**
17 **Louis County water district?**

18 **A.** Yes. Ms. York used a figure for small distribution mains from a 2008 rate case and divided
19 that by the Company’s total length of distribution mains in its annual report to derive a
20 1.17% distribution multiplier.⁴⁴

21 **Q. Is the use of 17-year-old data appropriate for developing the distribution multiplier**
22 **in this case?**

⁴⁴ MIEC’s York DT/RT, p. 16, lines 16-20.

1 A. No, it is not. As Ms. York points out there have been changes to the Rate J customer base
2 since 2008.⁴⁵ It is entirely possible to think that while the number of Rate J customers
3 overall has decreased since 2008 some customers may have been added increasing the
4 amount of distribution footage serving these customers.

5 **Q. Has MECG Witness York provided any analysis or made any recommendations on**
6 **what she feels the appropriate Rate J distribution multiplier should be for the non-**
7 **St. Louis County water district?**

8 A. Yes. Ms. York arrived at a distribution multiplier of 0.065 by attempting to correct the
9 Company's distribution multiplier calculations.⁴⁶ As her correction included customers that
10 are correctly not included in the calculations, this suggestion should be dismissed and a
11 distribution multiplier of 0.0873 should be used instead.

12 **Q. Do any other parties have concerns regarding the Company's distribution**
13 **multipliers?**

14 A. Yes. CCM Witness Palmer states that the Company's COSS may have allocated a lower
15 proportion of distribution level costs to Rates B and J due to both an error and a sampling
16 assumption in the calculation of the distribution multiplier.⁴⁷

17 **Q. Do you agree with Ms. Palmer that the Company used an erroneous distribution**
18 **multiplier for Rate J customers in the St. Louis County COSS?**

19 A. Yes. This was discussed above. Ms. Palmer states that the results from the filed COSS
20 would assign customers a 47.1 percent increase, whereas the resulted from a COSS with
21 the originally intended distribution multiplier would assign residential customers a 45.8

⁴⁵ MIEC's York DT/RT, p. 17, lines 3-4.

⁴⁶ MECG's York DT/RT, p. 14, lines 1-2.

⁴⁷ Palmer DT/RT, p. 3, lines 6-9.

1 percent increase.⁴⁸ I agree with that assessment.

2 **Q. What is Ms. Palmer's other concerns with the Rate B and Rate J distribution**
3 **multipliers?**

4 **A.** Ms. Palmer is concerned that the Company has not used a representative sample of
5 customers with which to calculate its distribution multipliers as the Company analyzes the
6 usage of its top 50 largest quantity users of water instead of the top 50 largest quantity users
7 of water by rate by district.⁴⁹

8 **Q. What is Ms. Palmer's recommendation regarding the Company's distribution**
9 **multipliers?**

10 **A.** Ms. Palmer recommends developing distribution multipliers based on the usage
11 characteristics of a larger and more verifiably representative number of Rate J and B
12 customers, ideally all customers in each class.⁵⁰

13 **Q. Do you share Ms. Palmer's concern that the calculated distribution multipliers are**
14 **not representative of the overall customer class populations?**

15 **A.** As stated earlier, the customers included within the Company's sample accounted for 72%
16 of the Rate J usage for the St. Louis County sale for resale and Rate J rate classes for the
17 time period included in the calculation. The distribution multipliers are used to assess
18 average hourly usage by class and not applied anywhere else. This seems like a more than
19 reasonable amount of usage to account for. However, while I am not concerned, I think it
20 would be reasonable to include more customers in the distribution multiplier calculations
21 in future rate cases in order to account for more usage.

⁴⁸ Palmer DT/RT, p. 5, lines 17-18.

⁴⁹ Palmer DT/RT, pp. 5-6, lines 20-4.

⁵⁰ Palmer DT/RT, p. 7, lines 9-13.

1 **Q. Are you providing an updated COSS with your Rebuttal/Surrebuttal/Sur-surrebuttal**
2 **testimony?**

3 A. No. While there are certain aspects of the Company's COSS that are the subject of debate
4 in this case, including correction of the St. Louis County COSS's Rate J distribution
5 multiplier to 0.4392, a full update of the study would produce limited benefits.

6 **Q. Why is that?**

7 A. The Company has provided separate COSSs for its operating districts. There is no question
8 that the results of the COSSs have served to inform the Company's rate design but
9 ultimately the Company's rate design in this case is weighted more towards the objective
10 of achieving further consolidation of rates. In Case No WR-2017-0285, the Commission
11 approved consolidation of rates, and we believe the Commission should support further
12 consolidation in this case.

13 **V. SINGLE TARIFF PRICING**

14 **Q. Please summarize the Company's current water service rate design structure as it**
15 **pertains to the issue of single tariff pricing.**

16 A. The Company offers the following rates separately to St. Louis County and non-St. Louis
17 County customers:

- 18 • Rate A: Rate A is a volumetric rate with fixed monthly charges for residential and
19 most non-residential customers.
- 20 • Rate J: Rate J is a volumetric rate with fixed monthly charges for certain customer
21 types defined as large water users using more than 450,000 gallons per month.
- 22 • Rate B: Rate B is a volumetric rate with fixed monthly charge for customers that
23 are sales for resale customers.

1 For Rate A and Rate B, the monthly meter charges are the same. The meter charges for
 2 Rate A and Rate B are lower than those of Rate J. The volumetric charges are lower for St.
 3 Louis County customers than for other customers for Rate A and Rate J, but are identical
 4 for Rate B. The Company’s volumetric rates for Rate A, B, and J are shown below:

<i>Current Volumetric Rates</i>	St. Louis County	Other	Percentage Difference
Rate A	\$0.77604	\$0.83781	8.0%
Rate J	\$0.20012	\$0.29572	47.8%
Rate B	\$0.27176	\$0.27176	0.0%

5 **Q. Please summarize the Company’s rate design proposals regarding single tariff pricing**
 6 **in this proceeding.**

7 A. In this proceeding, the Company is proposing to equalize volumetric rates for Rate A
 8 between St. Louis County and non-St. Louis County customers and to move volumetric
 9 rates for St. Louis County and non-St. Louis County customers closer together in the Rate
 10 J offering. The Company is proposing to maintain equal rates for the Rate B volumetric
 11 charge for St. Louis County and non-St. Louis County customers and the Company is
 12 proposing to equalize monthly meter charges across all rate offerings. The Company’s
 13 proposed volumetric rates for Rate A, B, and J are shown below:

<i>Proposed Volumetric Rates</i>	St. Louis County	Other	Percentage Difference
Rate A	\$1.02544	\$1.02544	0.0%
Rate J Block 1	\$0.68363	\$0.68363	0.0%
Rate J Block 2	\$0.26583	\$0.36049	35.6%
Rate B	\$0.40440	\$0.40440	0.0%

The Company's proposal in this case eliminates the difference in volumetric rates for Rate A between St. Louis County and non-St. Louis County customers. The proposal also eliminates the difference in volumetric rates for Rate J between St. Louis County and non-St. Louis County customers for all volumes up to and including 450,000 gallons and cuts the percentage difference in Rate J volumetric rates for all volumes above 450,000 gallons by approximately one quarter.

1 **Q. Does Staff incorporate any elements of single tariff pricing in their proposed rate**
2 **design?**

3 A. Staff does not incorporate any elements of single tariff pricing in their proposed rate design.
4 Staff's proposed rate design incorporates separate volumetric charges for Rate A and Rate
5 J, and proposes separate volumetric charges for Rate B customers and separate sets of meter
6 charges for St. Louis County and non-St. Louis County customers, thus moving backward
7 from the partially consolidated rate design currently approved and in place to a completely
8 separate pricing structures for St. Louis County and non-St. Louis County customers.

9 **Q. Does Staff provide testimony on the Company's proposed continued movement**
10 **toward single tariff pricing?**

11 A. Yes. Staff Witness Marek states that Staff does not agree with aligning commodity rates
12 closer together. It also states that "Due to the numerous acquisitions of smaller water and
13 sewer systems over the past few years, the Commission has consolidated most of MAWC's
14 service areas. Further consolidation is not warranted at this time as the benefits of
15 consolidation are already taken into account, and there still needs to be some semblance of
16 keeping costs closer to the cost of providing service to the various service territories."⁵¹

⁵¹ Marek DT/RT pp. 4-5, lines 18-2.

1 She also states that maintaining the existing rate districts is more reasonable, stating
2 “Having multiple rate districts more closely aligns rates with the actual cost to provide
3 service. Unlike other utilities, such as electricity and natural gas, wastewater and drinking
4 water is not piped across state lines or subject to global market forces. Water and sewer
5 service, and their respective costs, are inherently local and subject to cost variations among
6 locations. An example would be the labor costs for an operator, the contract for which must
7 include time to drive to remote locations, whether a qualified operator lives anywhere near
8 the sewage treatment system or must travel a significant distance, what the expected wages
9 are in a given location, etc. Staff’s position is that the current level of consolidation already
10 dilutes cost causation, and further consolidation of rates is not recommended.”⁵²

11 **Q. Did MIEC provide testimony on the Company’s proposed continued movement**
12 **toward single tariff pricing?**

13 A. Yes. MIEC Witness York opposes the Company’s proposal to continue moving to single
14 tariff pricing and recommends that the Commission reject any further consolidation of the
15 Company’s districts and customer classes.⁵³

16 **Q. What policy issues does MIEC raise regarding single tariff pricing?**

17 A. Ms. York makes the following claims in support of MIEC’s position that no further
18 consolidation toward single tariff pricing be approved:

- 19 • St. Louis County customers would subsidize other customers outside of the county
20 because St. Louis County customers use significantly higher levels of water than

⁵² Marek DT/RT, p.5, lines 4-12.

⁵³ MIEC’s York DT/RT, p. 28, lines 3-4.

1 other customers which would lead to St. Louis customers paying a significant level
2 of fixed costs for services provided outside of the county.⁵⁴

3 • Consolidated tariff pricing (CTP) ignores the principle of cost causation because a
4 particular water district's rate should be based on the costs that the Company incurs
5 to provide that district with service⁵⁵ and that there could be significant differences
6 in the cost of providing service to different water districts such as water sources,
7 labor costs, varying hardness of soil, and other conditions that could dictate costs
8 being different from district to district that would justify different rates. Ms. York
9 claims that subsidies would occur from customers of a lower-cost district to
10 customers of a higher-cost district if these differences in costs are not recognized
11 in rates.

12 • Unjust cross subsidies created by CTP could erode the efficiency of the water
13 system.⁵⁶

14 • Economic incentives for customers in high-cost districts to be more efficient in
15 placing demands on the utility would be removed by CTP.⁵⁷

16 • Management teams in high-cost districts would have disincentives for cost
17 control.⁵⁸

18 • The Company's incentive to perform due diligence before acquiring new systems
19 would be reduced.⁵⁹

⁵⁴ MIEC's York DT/RT, p. 28, line 9–19.

⁵⁵ MIEC's York DT/RT, p. 29, lines 14-19.

⁵⁶ MIEC's York DT/RT, p. 31, lines 8-9.

⁵⁷ MIEC's York DT/RT, p. 31, lines 9-15.

⁵⁸ MIEC's York DT/RT, p. 31, lines 20-23.

⁵⁹ MIEC's York DT/RT, p. 32, lines 4-10.

1 **Q. Ms. York claims that the Company’s proposal for single tariff pricing ignores cost-**
2 **causation. Specifically, she states that a particular water district’s rates should be**
3 **based on the costs that the Company incurs to provide that district with service.⁶⁰**
4 **How do you respond to this argument?**

5 A. This argument is a very common argument against single tariff pricing. The argument
6 comes back to should water customers in different communities completely pay for, and
7 only pay for, the present and future costs of owning, operating, and maintaining the water
8 production and delivery systems in their communities, or should water customers across
9 the state help pay for all of the present and future costs of owning, operating, and in
10 maintaining the water production and delivery systems in all of the communities served in
11 the state?

12 There are two points to make here. The first is that the concept of single tariff
13 pricing has already been established in the Company's rate structure. As Witness York
14 acknowledges⁶¹, there are currently separate operating districts in the MAWC service
15 territory all taking service under a single consolidated rate structure that is the non-St. Louis
16 County rate. These districts all have different sizes, operating characteristics, customer
17 usage characteristics, investment histories and requirements, O&M requirements,
18 population densities, cost structures, etc. They are also independent and disconnected from
19 one another. Yet they are all taking service on the same rate structure as approved by the
20 Commission. The question before the Commission in this case is not whether single tariff
21 pricing is appropriate. That has already been established in the affirmative. The question
22 before the Commission is whether St. Louis County customers should be included in that

⁶⁰ MIEC’s York DT/RT, p. 29, lines 14-16.

⁶¹ MIEC’s York DT/RT, p. 30, lines 1-6.

1 single tariff pricing structure or continue to be withheld from that structure and considered
2 separately, and if so, why.

3 The second point to make is that it will always be the case that certain groups of
4 customers will be paying more or less than their absolute true cost to serve regardless of
5 whether single tariff pricing is in place or not. It is not possible to design rates in a way that
6 sends price signals to all customers that directly and precisely reflect the cost of providing
7 service to each customer. This is true when considering customers across different
8 operating districts and it is true when considering customers within a single operating
9 district. Also, the fact that particular water districts are physically separated from each other
10 and not connected to each other does not imply that their pricing structure should be
11 separate.

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

14 A. Yes. Ms. York mentions that water treatment plants, distribution networks, pumping
15 equipment, and electric rates can be distinct across the state and geographic characteristics
16 can impact costs related to storage, pressure, pumping, chemicals and other costs associated
17 with providing service.⁶² She also mentions an example where the cost to install water
18 pipe in a district with rocky soil may be higher than the cost to install water pipe in a district
19 without rocky soil and that non-rocky soil customers could end up subsidizing rocky soil
20 customers under a CPP pricing structure.⁶³

21 **Q. Are there other operating characteristics that can affect the cost of providing service**
22 **to different groups of customers?**

⁶² York DT/RT, p. 30, lines 16 – 20

⁶³ York DT/RT, p. 31, lines 4-7.

1 A. Yes. The average age of plant used to provide service in different communities can affect
2 the calculated cost of providing service in different communities. Communities with older
3 vintage plant tend to have a lower cost of service from a rate base perspective than
4 communities with newer plant. Customer groups located farther away from a water
5 treatment plant will have a higher cost of service than customer groups located closer to
6 water will have a lower cost of service because there is likely less delivery assets needed
7 to get water from the source to where it is used for customers closer to water treatment
8 plants than for customers farther away.

9 **Q. Are these differences in characteristics a valid reason to establish separate pricing**
10 **structures in areas that have these differences?**

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

1 **Q. How do you respond to Ms. York’s argument about subsidization based on the**
2 **relative sizes of customers?**

3 A. There are two important points to make regarding Ms. York’s claim regarding customer
4 usage. The first point is because a much higher majority of the Company's revenue
5 requirement is fixed than is proposed to be recovered through fixed charges (meaning that
6 a significant amount of fixed cost recovery comes from revenue collected through
7 volumetric rates), it is necessarily the case that bigger higher-volume customers will
8 contribute more toward the Company's fixed cost recovery than smaller customers. This
9 is by design, not my accident. If this condition is to be called a “subsidy”, it is caused by a
10 faulty rate design with fixed charges that are too low and don’t collect enough fixed
11 charges, and not by single tariff pricing. The remedy to this “subsidy” is to significantly
12 increase monthly fixed charges. It is also the case that even under the two-district pricing
13 scheme, this so-called subsidy will still exist where larger customers are contributing more
14 towards fixed costs than smaller customers.

15 The second point to make here is that under the “Base/Extra” cost allocation
16 methodologies used in cost of service studies, larger customers will automatically be
17 allocated more fixed cost than smaller customers in a cost of service study. Nobody would
18 suggest that the fixed costs associated with water treatment plants, pumping equipment,
19 and transmission and distribution mains should be allocated to customer classes in a cost
20 of service study based on the number of customers in each class, but that is the argument
21 that Ms. York is making when she says it is an unfair “subsidy” that larger customers would
22 be unfairly paying more fixed costs than smaller customers.⁶⁴

⁶⁴ MIEC’s York DT/RT, p. 28, lines 14-16.

1 **Q. Ms. York states that unjust cross subsidies created by CTP could erode the efficiency**
2 **of the water system by removing the economic incentive for customers and high-cost**
3 **districts to be more efficient in placing demands on the water utility.⁶⁵ How do you**
4 **respond?**

5 A. It is important to note that rate design is effectively a zero-sum game meaning that given a
6 fixed revenue requirement, every price decline given to a group of customers (in this case
7 a price decline due to single tariff pricing) means a price increase for a different group of
8 customers. If Ms. York’s claims were accepted as true, single tariff pricing would improve
9 economic incentives for the efficient use of water for far more customers in St. Louis
10 County whose average usage is already high, as Ms. York points out, than it would decrease
11 economic incentives for customers outside of St. Louis County.

12 **Q. Do you agree with Ms. York’s claim that consolidated tariff pricing could provide**
13 **management teams in high-cost districts disincentives for cost control because those**
14 **costs would be commingled with other lower cost districts across the state?⁶⁶**

15 A. No, I disagree. Over-investment in water systems is not generally seen as a problem today.
16 Rather, the opposite is true. It is well understood that underinvestment in water systems is
17 a significant problem in the industry, and a driving factor that exacerbates this problem is
18 an inability to adequately invest in smaller systems with relatively few customers because
19 the necessary rate increases in those systems would be untenable. Underspending in small
20 systems where rates are based solely on the revenue requirement associated with that
21 system is a far bigger problem in the industry than overspending in systems under single
22 tariff pricing.

⁶⁵ MIEC’s York DT/RT, p. 31, lines 8-11.

⁶⁶ MIEC’s York DT/RT, p. 31, lines 20-22.

1 **Q. Do you agree with Ms. York's claims that single tariff pricing reduces the Company's**
2 **incentive to perform due diligence before acquiring new water systems?**⁶⁷

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

16 **Q. MIEC and MECG raise many of the same concerns regarding the issues of Cost of**
17 **Service, Revenue Allocation, and Rate Design. Does MECG take a position on the**
18 **Company's proposed continued movement toward single tariff pricing?**

19 A. MECG does not take a position on continued movement toward single tariff pricing, and
20 so does not take a position on the consolidation of Rate J. This is unexpected as it would
21 be reasonable to consider the consolidation of Rate J as favorable to parties representing
22 the interests of primarily non-St. Louis County customers. The testimony of Ms. York

⁶⁷ MIEC's York DT/RT, p. 32, lines 4-5.

1 assumes the rejection of single tariff pricing without justification for that assumption.⁶⁸
2 MECG's proposed revenue spread differs from the Company's in that the MECG's total
3 proposed increase is much larger than the Company's due to basing rates on the non-St.
4 Louis County COSS. From Table JAY-1, the Company proposes a 39.8% total revenue
5 increase.⁶⁹ From Table JAY-2, the MECG proposes a 47.2% total revenue increase.⁷⁰

6 **Q What are your conclusions regarding the Company's single tariff pricing proposal in**
7 **this proceeding?** [OBJ]

8 A. The Commission should complete the process of consolidating tariffs across the
9 Company's service territory for Rate A and approve the Company's proposal to make
10 significant steps to consolidate the volumetric rates for Rate J. Single tariff pricing has been
11 shown to be in the long-term best interest of our customers and results in a rate design that
12 is logical and sensible from the customer's perspective. The principles of cost causation,
13 which are more commonly applied to allocation of revenue requirement to customer classes
14 than it is to differentiation of pricing by geography, is not destroyed through single tariff
15 pricing. Economic efficiencies are not destroyed, and "subsidies" are no more created
16 through single tariff pricing than they are through averaging rates for customers in other
17 ways that are deemed completely reasonable, such as the volumetric rate for Rate A which
18 applies to residential, commercial and some industrial customers, all of whom may have
19 different costs of service. The Commission has already adopted single tariff pricing in the
20 Company's service territory for a large number of independent operating districts, and the
21 Commission should continue to move toward consolidation of rates into a single tariff

⁶⁸ MECG's York DT/RT, p. 3, lines 7-8.

⁶⁹ MECG's York DT/RT, p. 4.

⁷⁰ MECG's York DT/RT, p. 5.

1 pricing structure in this proceeding.

2 **VI. REVENUE ALLOCATION TO CUSTOMER CLASS**

3 **Q. Please review the Company's approach to rate design in this proceeding as it pertains**
4 **to revenue allocation to customer class.**

5 A. The Company in this proposing to allocate its proposed increase in water service revenues
6 according to the following guidelines:

- 7 • Increases to St. Louis County Rate J customers for all usage above 450,000 gallons
8 are capped at 75% of the overall water revenue increase requested in this case.
9 Increases to Non-St. Louis County Rate J customers for all usage above 450,000
10 gallons are capped at approximately 50% of the overall revenue increase.
- 11 • Increases to Private Fire rates are capped at 125% of the overall water revenue
12 increase requested in this case to bring those customers gradually toward cost of
13 service.
- 14 • Rate B proposed revenues are set at cost of service with the volumetric rates for
15 Rate B for St. Louis County and non-St. Louis County being set equal to each other.
- 16 • The remaining revenue requirement, after calculation of specific contract rates, is
17 spread to Rate A and Rate J customers by increasing the volumetric rate for Rate A
18 service as well as the volumetric rate for Rate J service for all usage at or below
19 450,000 gallons. The volumetric rates for Rate A for St. Louis County and non-St.
20 Louis County are set equal to each other. The volumetric rates for Rate J for all
21 usage at or below 450,000 gallons for St. Louis County and non-St. Louis County
22 are set equal to each other at rates approximately 66.7% of the volumetric rate for
23 Rate A.

1 **Q. Did any other party directly address revenue allocation to customer class?**

2 A. Yes. MIEC directly addresses revenue allocation to customer class in Witness York's
3 Direct/Rebuttal Testimony. MECG also directly addresses revenue allocation to customer
4 class in Witness York's Direct/Rebuttal Testimony.

5 **Q. Have you reviewed Ms. York's Direct/Rebuttal Testimony on behalf of MIEC on this**
6 **issue?**

7 A. I have.

8 **Q. Please summarize MIEC's position on revenue allocation to customer class?**

9 A. It is important to note that MIEC only takes a position on the allocation of revenues to
10 customer class for St. Louis County customers. MIEC does not take a position on revenue
11 allocation to customer class for non-St. Louis County customers, other than to indirectly
12 infer that the total revenue increase allocated to non-St. Louis County customers should be
13 larger than the Company's proposal. This inference results from their position that the
14 revenue increase to St. Louis County customers should only be equal to the amount
15 indicated by cost of service for St. Louis County customers in keeping with their opposition
16 to single tariff pricing.

17 Having said that, MIEC proposes a much smaller revenue increase to Rate J
18 customers than the Company, driven largely by the cost of service analysis MIEC proposes
19 and MIEC's position on single tariff pricing which results in a lower revenue increase to
20 St. Louis County customers generally. The table below (values taken from MIEC's York
21 DT-RT Tables JAY-1 and JAY-2⁷¹) shows a comparison of the revenue increase for St.
22 Louis County customers proposed by the Company and MIEC:

⁷¹ York DT-RT, pp. 4 and 6.

<i>Customer Class</i>	Company	Percentage Increase	MIEC	Percentage Increase	Difference in Percentage Increase
Residential	\$102,303,614	46.7%	\$111,741,658	51.0%	4.3%
Non-Residential	\$28,497,902	41.6%	\$12,635,641	18.4%	-23.2%
Rate J	\$6,183,424	54.7%	\$3,325,766	29.4%	-25.3%
Rate B	\$2,406,715	48.8%	\$1,034,324	21.0%	-27.8%
Rate P	\$307,721	6.6%	\$2,213,218	47.2%	40.6%
Private Fire	\$2,644,649	52.9%	\$2,661,667	53.3%	0.4%
Total	\$142,344,025	45.4%	\$133,612,274	42.6%	-2.8%

1 **Q. Do you agree with MIEC Witness York’s position on revenue allocation to customer**
2 **class?**

3 A. I do not. MIEC's revenue increase allocation to Rate J customers is based on a cost of
4 service analysis that significantly understates the allocated cost of serving those customers.
5 The allocation of revenue increases to St. Louis County Rate J customers should be
6 significantly higher than proposed by MIEC, especially when considering the gap in rates
7 for Rate J customers between St. Louis County and non-St. Louis County customers.

8 **Q. Have you reviewed Ms. York's Direct/Rebuttal Testimony on behalf of MECG on this**
9 **issue?**

10 A. I have.

11 **Q. Please summarize MECG Witness York’s position on revenue allocation to customer**
12 **class?**

13 A. It is important to note that MECG only takes a position on the allocation of revenues to
14 customer class for non-St. Louis County customers. MECG does not take a position on
15 revenue allocation to customer class for St. Louis County customers, MECG proposes a
16 much smaller revenue increase to Rate J customers than the Company despite the fact that

1 they have proposed an overall revenue increase 7.4% larger than the Company. It appears
 2 that Rate A’s residential customers largely shoulder the impact of this as the Residential
 3 percentage increase is 16.1% larger than the Company’s proposal. The proposed lower
 4 percentage increases for the Non-Residential, Rate J, and Rate B classes are driven largely
 5 by the cost of service analysis MIEC proposes including their proposed changes to
 6 treatment of several costs as well as the rate J distribution multiplier. The Company objects
 7 to all of these changes except for a partial reduction to the rate J distribution multiplier.
 8 The table below (values taken from MIEC Witness York’s DT/RT Tables JAY-1 and
 9 JAY-2⁷²) shows a comparison of the revenue increase for non-St. Louis County customers
 10 proposed by the Company and MIEC:

<i>Customer Class</i>	Company	Percentage Increase	MECG	Percentage Increase	Change in Percentage Increase
Residential	\$29,517,175	42.9%	\$40,574,294	59.0%	16.1%
Non-Residential	\$10,707,712	34.5%	\$9,460,015	30.5%	-4.0%
Rate J	\$3,193,245	30.2%	\$1,942,711	18.4%	-11.8%
Rate B	\$2,189,493	49.7%	\$1,819,888	41.3%	-8.4%
Rate P	\$191,616	17.6%	\$643,736	59.0%	41.4%
Private Fire	\$1,045,705	54.3%	\$1,136,051	59.0%	4.7%
Total	\$46,844,946	39.8%	\$55,576,695	47.2%	7.4%

11

12 **Q. Does Staff also address the issue of revenue allocation to customer class?**

13 A. Staff indirectly addresses this issue. Ms. Marek states that Staff recommends an equal
 14 percent increase across all rates based on the Auditing Department’s proposed revenue
 15 requirement increase.⁷³

⁷² MIEC’s York DT/RT, pp. 4 and 6.
⁷³ Marek DT/RT, p. 6, lines 21-22.

1 **Q. Do you agree with Staff's revenue allocation to customer classes?**

2 A. I do not. This approach does not move customer classes closer to their cost of service.

3 **Q. What is your recommendation on the allocation of revenue increases to customer**
4 **class?**

5 A. My recommendation is that the Company's proposal for allocation of revenue increases to
6 customer classes be approved as it most closely aligns with an accurate allocation of the
7 cost of providing service to customers. If the Commission does not approve the Company's
8 proposal, I recommend that the percentage increase to St. Louis Rate J customers should
9 be at least 25% higher than the increase allocated to non-St. Louis County Rate J customers
10 in order to bring St. Louis County Rate J customers closer to the true allocated cost of
11 providing service and to reduce the significant gap in volumetric rate between St. Louis
12 County and non-St. Louis County Rate J customers.

13 **VII. GENERAL RATE DESIGN**

14 **Q. What intervenor witnesses in this proceeding address rate design?**

15 A. Staff Witness Marek presents Staff's proposed rate design in her Direct/Rebuttal
16 Testimony. CCM Witness Palmer and OPC Witness Marke also address residential
17 customer charges in their direct/rebuttal testimony. MIEC and MECG address the
18 Company's proposed modifications to Rate J.

19 **Q. Have you reviewed Ms. Marek's testimony regarding Staff's proposed rate design?**

20 A. I have.

21 **Q. Apart from your previous discussion on single tariff pricing where you point out that**
22 **Staff's rate design does not include any consolidation of rates between St. Louis**
23 **County and non-St. Louis County customers and even retreats from the current level**

1 **of consolidation, do you have any issues you would like to address regarding Staff's**
2 **proposed rate design?**

3 A. I do, as it relates to their overall rate design approach, monthly meter charges, and the
4 proposed declining block rate for Rate J customers.

5 **Q. What is Staff's proposed rate design?**

6 A. Ms. Marek states that Staff recommends an equal percent increase across all rates based on
7 the Auditing Department's proposed revenue requirement increase.⁷⁴

8 **Q. Do you agree with Staff's approach to rate design in which essentially all water rates**
9 **are increased by their district's revenue requirement increase?**

10 A. I do not agree. As stated earlier, Staff is proposing to move backward from the Commission
11 authorized partially consolidated rate design in place to a completely separate pricing
12 structures for St. Louis County and non-St. Louis County customers. It is also important to
13 recognize that Rate J customers in particular are significantly below cost of service in the
14 Company's cost of service analysis. In this proceeding, it is entirely justified to increase
15 rates for Rate J customers, particularly those in St. Louis County, at a percentage that is
16 significantly higher than the overall increase requested in this case in order to begin to
17 bring those customers toward a reasonable cost based revenue allocation and to narrow the
18 significant gap in volumetric rates for Rate J customers between St. Louis County and non-
19 St. Louis County customers.

20 **Q. Do you agree with Staff's approach to rate design in which essentially all wastewater**
21 **rates are increased by their district's revenue requirement increase?**

22 A. I do not agree with Staff's approach. The Company is proposing significant changes to

⁷⁴ Marek DT/RT, p. 6, lines 21-22.

1 Tariff RT 1.1, Tariff RT 2.1, and Tariff RT 3.1.

2 **Q. How does the Company’s wastewater rate design differ from the one Staff is**
3 **proposing?**

4 A. Within its rate design, the Company proposes to charge all Tariff RT 1.1 (City of Arnold
5 and Surrounding Area) residential customers a flat-bill, to consolidate all wastewater
6 customers outside of the City of Arnold and Surrounding Area onto Tariff RT 2.1, and to
7 implement a new, lower service charge for Tariff RT 2.1 customers that use less than or
8 equal to an average of 2,000 gallons of water during winter months.

9 **Q. What is Staff’s proposal for monthly meter charges?**

10 A. Staff is proposing to increase all rates by their districts’ respective revenue requirement
11 increase. For St. Louis County customers, this would be an increase in the current customer
12 charge for a 5/8” meter from \$10.00 per month to \$11.63. For non-St. Louis County water
13 customers, this would be an increase in the current customer charge for a 5/8” meter from
14 \$10.00 per month to \$11.35. Staff also proposes to maintain different rates for the 5/8”
15 meter and 3/4” meters.

16 **Q. Did any other party directly address monthly meter charges?**

17 A. Yes. CCM Witness Palmer and OPC Witness Marke address residential customer charges
18 in their testimony.

19 **Q. How did CCM Witness Palmer address monthly meter charges?**

20 A. CCM Witness Palmer’s concerns are that the proposed increases in the customer charges
21 violate the rate design principles of gradualism and efficiency, that higher fixed charges
22 will negatively impact low-usage, low-income customers, and that inclusion of lead service
23 line replacements (LSLR) within the fixed monthly charge would exacerbate rate impacts

1 on low-usage customers as well as reduce transparency.⁷⁵

2 **Q. Do you agree that the proposed increases in the customer charges violate the rate**
3 **design principles of gradualism?**

4 A. No. Proposing increases in the customer charges in a manner that results in the reallocation
5 of revenues from volumetric to fixed or vice versa is not necessarily a violation of the rate
6 design principle of gradualism. The average customer bill would be impacted similarly
7 regardless of whether costs are born by a fixed charge or volumetric rate.

8 **Q. Do you agree that the proposed increases in the customer charges violate the rate**
9 **design principle of efficiency?**

10 A. No. I do not consider aligning rates with costs by either increasing or decreasing customer
11 charges to be a violation of the rate design principle of efficiency. Having rates that are
12 aligned with the cost of service, as the Company is proposing to do, sends customers
13 appropriate price signals.

14 **Q. Do you agree that higher fixed charges will negatively impact low-usage, low-income**
15 **customers?**

16 A. I agree that any revenue allocated to fixed charges in lieu of volumetric charges would
17 directionally increase bills with lower usage. However, in this case, increasing fixed
18 charges would move each water district closer to their cost of service in terms of collecting
19 fixed costs and variable costs. With respect to low-income customers of any usage level,
20 the Company has performed affordability analyses and is proposing a low-income discount
21 tariff for economically vulnerable customers.

22 **Q. What is Ms. Palmer's rationale for stating that the Company should not include the**

⁷⁵ Palmer DT/RT, p.8, lines 6-12.

1 **cost of LSLR in its fixed monthly charges?**

2 A. Ms. Palmer states that the Commission has deemed the Company’s investments to be
3 extraordinary, public-policy-related costs that are not the result of normal utility policy or
4 practice.⁷⁶ She also states that inclusion of LSLR costs in the services revenue requirement
5 and collection of its costs through monthly customer charges contribute to burden and rate
6 shock of higher fixed charges on low-usage, low-income customers.⁷⁷

7 **Q. Do you agree with Ms. Palmer that the costs of LSLR should be collected through**
8 **volumetric rates?**

9 A. No. I do not see any reason that this cost should be collected volumetrically as I am not
10 aware of any correlation between how much water a customer consumes and the likelihood
11 that that customer will have a lead service line that needs replacement. I am also not aware
12 of any correlation between how much a customer consumes and the cost of replacing that
13 customer’s service line.

14 **Q. How did OPC Witness Marke address monthly meter charges?**

15 A. Dr. Marke states that he does not support the Company’s proposed increase to the monthly
16 customer charge.⁷⁸

17 **Q. What is Dr. Marke’s argument that monthly meter charges should remain the same?**

18 A. Dr. Marke states that raising fixed cost recovery diminishes the ability for customers to
19 control their bills.⁷⁹ He also indicates that the Company’s deployment of Advanced
20 Metering Infrastructure (“AMI”) as well as the Company’s continued emphasis on

⁷⁶ Palmer DT/RT, p. 11, lines 1-3.

⁷⁷ Palmer DT/RT, p. 12, lines 6-8.

⁷⁸ Marke DT/RT, p. 23, line 6.

⁷⁹ Marke DT/RT, p. 24, lines 10-11.

1 paperless billing both support a lower monthly customer charge.⁸⁰

2 **Q. What is Dr. Marke’s recommendation for monthly meter charges?**

3 A. Dr. Marke recommends maintaining the current monthly meter charges, but is not opposed
4 to the consolidation of 5/8 inch and 3/4 inch meters.⁸¹ He also makes a general
5 recommendation to consider customer charges that include the costs of the first 2,500
6 gallons of monthly water usage in future rate cases.⁸²

7 **Q. Do you agree with Staff’s recommendation to increase monthly meter charges by the**
8 **overall revenue increase (resulting in differentiated meter charges for St. Louis**
9 **County and non-St. Louis County), with Ms. Palmer’s recommendation to increase**
10 **the 5/8” monthly meter charges by \$1.00, or with Dr. Marke’s recommendation to**
11 **maintain the current monthly meter charge amounts?**

12 A. I do not agree with any of the three recommendations. With regards to Staff’s
13 recommendation, there is no reason for meter charges for St. Louis County and non-St.
14 Louis County customers to be different given that they are currently the same. With regards
15 to all three recommendations, the Company’s cost of service analysis supports a 5/8” meter
16 charge for both St. Louis County and non-St. Louis County customers well over \$11.63,
17 the highest charge proposed by the other parties.

18 **Q. What is your recommendation for monthly meter charges?**

19 A. The current level of fixed charges was set in Case No. WR-2022-0303, with the 5/8” meter
20 charge for both St. Louis County and non-St. Louis County customers increasing from
21 \$9.00 to \$10.00. The 5/8” meter charge should continue to be equal for St. Louis County

⁸⁰ Marke DT/RT, p. 24, lines 15-21.

⁸¹ Marke DT/RT, p. 24, lines 23-25.

⁸² Marke DT/RT, p. 25, lines 2-5.

1 and non-St. Louis County customers. The Commission should increase the 5/8" monthly
2 meter charge for all customers to a rate not less than \$15.00 per month, or a 50% increase,
3 in order to move fixed charges closer to the fixed cost of service.⁸³ The Commission should
4 also approve the Company's proposal to consolidate the 5/8" and 3/4" monthly meter
5 charges.

6 **Q. What is Staff's position on the Company's proposed rate structure for Rate J**
7 **customers?**

8 A. Staff opposes the use of declining block rates for Rate J customers citing a lack of
9 foreseeable benefit to customers as well as MAWC's Herbert Direct Testimony from WR-
10 2011-0337 that proposed a one-block uniform volumetric rate for Rates A, B, and J.⁸⁴ Staff
11 states that the rationale of the MAWC testimony's proposed one-block uniform volumetric
12 rate is that the revenues would be nearly aligned with the indicated cost of service. Staff
13 also states that the one-block uniform volumetric rate was a change from the existing block
14 rate structure that had been in effect.⁸⁵

15 **Q. Do you agree with Staff's position on the use of declining block rates for Rate J**
16 **customers?**

17 A. I do not agree with Staff's position and maintain that the proposed rate design for Rate J
18 should be accepted.

19 **Q. Do you agree with Staff's assessment that the use of declining block rates for Rate J**
20 **customers has a lack of foreseeable benefit to customers?**

21 A. I do not agree that the proposed Rate J design's use of declining block rates has a lack of

⁸³ The Company originally proposed for the 5/8" monthly meter charge to increase from \$10.00 to \$21.23 per month. The \$21.23 was based on a fully allocated fixed cost of service.

⁸⁴ Herbert DT, p. 13, lines 5-8.

⁸⁵ Marek DT/RT, p. 5, lines 15-20.

1 foreseeable benefit to customers. The proposed rate design for Rate J customers does have
2 two blocks where there is one rate for all usage up to and including 450,000 gallons with
3 another, lower rate for all usage above 450,000 gallons. However, it is important to note
4 the consumption of not less than 450,000 gallons a month is a requirement that must be
5 met to qualify for Rate J.

6 Several foreseeable benefits to customers are as follows:

- 7 • Avoidance of the risk of unintended customer discrimination between Rate J
8 customers, customers that do not qualify for Rate J, and customers who sometimes
9 qualify for Rate J.
- 10 • Reduction of the impacts of customers changing rate classes either voluntarily or non-
11 voluntarily, including customer rate shock after no longer qualifying for Rate J.
- 12 • Elimination of a perverse incentive for customers to increase monthly consumption to
13 qualify for Rate J, which has substantially lower volumetric rates than Rate A, resulting
14 in greater efficiency of use.

15 **Q. Do you agree with Staff's interpretation of the MAWC witness Herbert's Direct**
16 **Testimony from Case No. WR-2011-0337?**

17 A. No. I have reviewed the Herbert Direct Testimony from Case No. WR-2011-0337 and I do
18 not interpret the sentence "the rates were set so that proposed revenues would be nearly
19 aligned with the indicated cost of service" as being the rationale for a one-block uniform
20 volumetric rate. I interpret this as meaning that the rates were set in a manner so that class
21 revenues would approximate their respective class costs of service. This would have likely
22 been the case regardless of rate structure.

23 **Q. Do you agree with Staff's statement that the one-block uniform volumetric rate for**

1 **Rate J was a change from the existing declining block rate structure that had been in**
2 **effect?**

3 A. Yes. There were some Commercial, Industrial, and OPA declining block rates in place at
4 the time of filing of Case No. WR-2011-0337. However, Rate J has never had a declining
5 block rate structure. It would not be appropriate to say that a change in Rate J's rate design
6 from a uniform rate structure to a two-block declining block rate structure would be
7 reverting Rate J to a prior rate structure.

8 **Q. Did any other party directly address MAWC's proposed rate design for Rate J?**

9 A. Yes. MIEC and MECG directly addressed the proposed rate design for Rate J.

10 **Q. What were MIEC and MECG's positions on the Company's proposal to modify the**
11 **Rate J rate design?**

12 A. MIEC and MECG each testified that they did not oppose the Company's proposed
13 modification to the rate design for Rate J customers.⁸⁶⁸⁷

14 **Q. Does this conclude your Rebuttal/Surrebuttal/Sur-Surrebuttal Testimony?**

15 A. Yes.

⁸⁶ MIEC's York DT/RT, p. 33, lines 11-12.

⁸⁷ MECG's York DT/RT, p. 23, lines 17-18.