Exhibit No.:

Issues: Normalization of

Uncollectibles Expense, Factor-Up for Proposed

Increase in Revenues

Witness: Erin M. Carle Sponsoring Party: MoPSC Staff

Type of Exhibit: Rebuttal Testimony
Case No.: WR-2015-0301

Date Testimony Prepared: February 11, 2016

# MISSOURI PUBLIC SERVICE COMMISSION COMMISSION STAFF DIVISION AUDITING

## REBUTTAL TESTIMONY OF

**ERIN M. CARLE** 

MISSOURI-AMERICAN WATER COMPANY
CASE NO. WR-2015-0301

Jefferson City, Missouri February, 2016

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#### 1 REBUTTAL TESTIMONY 2 OF **ERIN M. CARLE** 3 4 MISSOURI-AMERICAN WATER COMPANY 5 CASE NO. WR-2015-0301 Please state your name and business address. 6 Q. Erin M. Carle, 111 N. 7<sup>th</sup> Street, Suite 105, St. Louis, MO 63101. 7 A. 8 Q. By whom are you employed and in what capacity? 9 A. I am employed by the Missouri Public Service Commission ("Commission") as a 10 Utility Regulatory Auditor III with the Commission Staff Division in the Auditing Department. 11 0 Are you the same Erin M. Carle who contributed to the Missouri Public Service 12 Commission Staff's ("Staff") Revenue Requirement Cost of Service Report ("Staff Report")? A. Yes, I am. 13 14 What is the purpose of your rebuttal testimony in this proceeding? Q. 15 A. My rebuttal testimony will address Missouri-American Water Company's (MAWC) proposed adjustments to uncollectible expense as sponsored by MAWC witness 16 17 Jeanne M. Tinsley. I will address two separate proposed adjustments sponsored by MAWC 18 witness Tinsley in MAWC's attempt to address uncollectibles expense in the overall cost of 19 service calculation. I will also address differing test year levels of uncollectibles expense that 20 MAWC has provided to Staff in two separate documents as well as a correction to Staff's 21 calculation of the normalized level for uncollectibles expense. 22 The first uncollectibles adjustment I will address is MAWC witness Tinsley's proposed 23 normalization adjustment for uncollectibles expense. Next, I will address MAWC's proposed

inclusion of an uncollectibles component in MAWC's income tax factor-up calculation, also referred to as the "revenue conversion factor." By including an uncollectibles component in its income tax factor-up calculation, MAWC effectively assumes that MAWC will automatically incur a proportionately greater amount of this expense in connection with its proposed increase in revenue resulting from this case. MAWC calculated this uncollectibles tax factor-up separately from its proposed adjustment to normalize uncollectibles and did not separately account for it in MAWC's income statement adjustment summary. Staff opposes this proposed increase to uncollectibles expense recovery since there is not a demonstrated correlation between actual net write-offs and the amount of revenue that is billed.

#### **EXPLANATION OF STAFF CORRECTIONS**

- Q. How did Staff determine the test year level of uncollectibles expense?
- A. MAWC workpapers supporting its direct filing reflect a total company test year level of actual net write-offs of \$4,594,660. However, I was unable to verify this test year amount in the general ledgers supplied by MAWC. Instead, for Staff's direct filing, I relied upon MAWC's response to Staff Data Request (DR) No. 0070, but I inadvertently used the total actual write-off level of \$4,913,435 rather than the actual net write-off level of \$4,485,932 to determine the test year uncollectibles expense level. In my workpapers I developed the adjustments based upon the \$4.9 million level of total net write-offs. However, the test year level that was reflected in Staff's accounting schedules, filed with direct testimony, matched MAWC's test year level of \$4,594,660. As a result, my adjustments, when posted to Staff's accounting schedules incorrectly reflected a normalized adjusted level of approximately \$3.3 million instead of approximately \$3.6 million as the level Staff actually supports.

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Total write-offs do not reflect the netting of any recoveries that MAWC was able to collect subsequent to write-offs. The appropriate level to analyze and potentially adjust is the actual net write-offs amount, which reflect the netting of all bad debt recoveries. Per a conversation with MAWC on February 4, 2015, MAWC indicated to Staff that there was a mistake in the Company's filed test year level for uncollectibles expense as well. Staff and MAWC both agree now that the test year level of uncollectibles should be \$4,485,932. Later in this testimony, during the explanation of Staff's uncollectibles expense adjustment, the correction and change to both MAWC and Staff's adjustments to normalize uncollectibles will also be explained. This correction for test year will be reflected in Staff's uncollectibles expense adjustments and in the true-up accounting schedules that will be filed with Staff's surrebuttal testimony on March 4, 2016. By correcting the test year value in Staff's adjustment as filed in direct testimony, Staff's total company revenue requirement will not change since the normalized level of uncollectibles expense is based off of a historical average of net charge-offs, the new test year level will not change the normalized level of uncollectibles expense and is ultimately reflected in the cost of service calculation. However, at the time of this rebuttal testimony filing, Staff has increased the cost of service calculation by \$318,775 in order to correct the error that occurred when Staff posted the adjustments that resulted in a \$3.3 million normalized level instead of a \$3.6 million normalized level. Staff will continue to analyze actual net write-offs through the end of the January 31, 2016, true-up audit and may perform additional adjustments for this area, which would be explained in detail in Staff's surrebuttal testimony.

#### UNCOLLECTIBLES EXPENSE NORMALIZATION

Q. How did MAWC witness Tinsley adjust uncollectibles expense as part of MAWC's direct filed case?

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	Erin M. Carle
1	A. MAWC took the sum of three years of net charge-offs, for the period covering
2	January 1, 2012, through December 31, 2014, and divided that amount by the sum of three years
3	of billed revenues, for that same period, by district. This calculation provided the three-year
4	average charge-off percentage. MAWC then applied this percentage to its test year level of
5	billed revenues, assuming the current tariffed rates, for each district. The product of this
6	calculation is MAWC's proposed normalized level of uncollectibles, by district, that MAWC
7	estimates it will experience, with the assumption it receives the full amount of the rate increase
8	requested. The following chart summarizes the total company adjustment for uncollectible
9	expense that MAWC proposed in its direct filing on a total company basis:
10	MAWC Three Year Write-Offs to Revenues Ratio Normalization \$2,941,446
11	MAWC Test Year per Workpaper \$4,594,660
12	MAWC Adjustment (\$1,653,214)

- Q. Please summarize MAWC's adjustment based upon the corrected test year level.
- A. The following chart summarizes the MAWC total company adjustment based upon the corrected test year:

16	MAWC Three Year Write-Offs to Revenues Normalization	\$2,941,446
17	MAWC Test Year per Workpaper	<u>\$4,485,932</u>
18	MAWC Adjustment	(\$1,544,486)

- Q. How did Staff normalize uncollectibles expense?
- A. If possible, Staff normalized uncollectibles expense using a three-year average of actual net write-offs for the period covering October 1, 2012, through September 30, 2015. If a particular district did not have a three-year history of actual net write-offs, Staff used a shorter

1 period of history to normalize uncollectibles expense for that particular district. Staff intends 2 to examine updated actual net write-off amounts through January 31, 2016, as part of its 3 true-up audit. 4 Q. Please quantify Staff's normalized level of uncollectibles expense on a total 5 company basis and quantify the change in the adjustment amount based upon the test year correction as well as the error that occurred in reflecting Staff's adjustments at the time of its 6 7 direct testimony filing. Based on Staff's normalization method described above, the charts below 8 A. 9 summarize Staff's normalized level for uncollectibles expense and Staff's overall adjustment at 10 direct filing and as corrected for the test year difference and to reflect the \$3.6 million 11 normalized level that Staff continues to support. Staff will examine all actual net write-offs 12 through January 31, 2016, in order to determine whether additional adjustment to Staff's proposed normalized level is necessary: 13 14 Staff Uncollectibles Expense Adjustment at Direct Filing Staff Workpaper 15 Staff Three Year Normalized Level 9/30/15 \$3,622,568 16 Staff Test Year per DR No. 0070 \$4,913,435 17 Staff Adjustment (\$1,290,867) 18 Staff Uncollectible Expense Adjustment as Reflected in Staff's Accounting 19 **Schedules at Direct Filing** 20 Staff Test Year Level in Accounting Schedules \$4,594,660 21 Staff Adjustments that Were Posted \$1,290,867 Staff Normalized Level in Accounting Schedules 22 \$3,303,793

## **Staff Uncollectibles Expense Adjustment after Test Year Correction**

Staff Three Year Normalized Level 9/30/15 \$3,622,568

Staff Test Year per DR No. 0070 \$4,485,932

Staff Adjustment (\$863,365)

Q. Why is Staff's method to normalize uncollectibles more appropriate than the method used by MAWC?

A. Staff's method is more appropriate because it uses more current data than the calculation performed by MAWC. In addition, Staff's normalization method also uses the actual level of net-write-offs over a period of time to determine the normalized level of uncollectibles expense. MAWC's method of calculating a three-year average ratio of actual net write-offs to actual billed revenues and then applying this ratio to test year billed revenues erroneously emphasizes MAWC's assumption that actual net write-offs are always directly correlated with billed revenues. In addition, MAWC's calculation of the ratio between actual net write-offs and actual billed revenues is not synchronized with their policy of writing off uncollectibles starting at 110 days following actual billing. MAWC's ratio is determined by comparing actual netwrite-offs in the same month as actual billed revenues. This is an incorrect comparison since the actual net write-offs in any given month actually relate in some part to the revenues billed at least 110 days earlier. Furthermore, there are many other factors that can affect the level of actual net-write-offs in addition to the level of billed revenues, which Staff will explain in detail in the next section of this rebuttal testimony.

## UNCOLLECTIBLES INCOME TAX FACTOR UP ADJUSTMENT TO ADDRESS MAWC'S PROPOSED INCREASE IN REVENUES TO BE COLLECTED

- Q. Please quantify the revenue requirement impact of the separate income tax factor-up adjustment for uncollectibles that MAWC proposes to include in rates.
- A. MAWC proposes to include approximately \$573,096 for uncollectibles expense through application of its income tax factor-up calculation that represents an estimate of the amount of additional uncollectibles expense that MAWC assumes it will begin to incur following the implementation of rates that would include the full amount of the rate increase that MAWC is seeking in this case. This MAWC proposed adjustment is separate from the MAWC proposed normalization adjustment described earlier in this rebuttal testimony. Staff disagrees with this adjustment and has included no amount for uncollectibles expense in connection to any increased level of revenues that MAWC may collect as a result of this case.
- Q. Assuming that MAWC's hypothesis that increased levels of billed revenues automatically result in increased levels of uncollectibles expense is correct, when would MAWC first begin to experience a change in uncollectibles expense?
- A. The operation-of-law date for this rate case is June 28, 2016. Current MAWC policy dictates that it cannot write-off an uncollectible amount until at least 110 days after the billing date. Under MAWC's assumptions, with which Staff does not agree, MAWC would not even begin to experience this increased uncollectibles expense until after October 17, 2016, or 110 days following the effective date of rates in this rate case. These dates assume that a billing cycle would end on the day after the rate increase was enacted and that MAWC would prorate all bills. If MAWC did not prorate the impact of the rate increase, this assumed impact would be delayed until such time that MAWC completed its first billing cycle, subsequent to any rate

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A. Ms. Tinsley's second proposed adjustment for uncollectibles cannot be found in the summary of adjustments to the income statement nor is the calculation described in

receive the full amount of its requested rate increase in this case.

any significant detail in her direct testimony.

currently 38.3886%, as calculated by Staff.

increase granted by the Commission. MAWC's calculation also assumes MAWC will ultimately

Where did MAWC include this \$573,096 amount in their cost of service

Instead, MAWC includes an additional

Staff witness Kofi A. Boateng sponsored

normally applied to the overall revenue deficiency to appropriately factor up the cost of service calculation for additional federal and state income taxes that will result from additional anticipated revenues that would be collected as a result of the Commission's ruling on the proposed rate increase request. The appropriate stand-alone MAWC income tax factor-up to be applied to the overall revenue deficiency should be approximately 1.6231, as calculated by the traditional formula of 1 / (1 minus the effective tax rate). MAWC's overall effective tax rate is

component to the income tax factor-up calculation. The income tax factor-up calculation is

MAWC's calculation of the income tax factor-up includes an additional uncollectibles component that results in an approximate 1.6415 overall income tax factor-up percentage that MAWC applied to its calculated revenue deficiency. The approximate 0.0184 rounded percentage (derived by subtracting Staff's income tax factor-up calculation of 1.6231 from MAWC's proposed income tax factor-up calculation 1.6415) attributable to the uncollectibles

Staff's calculation of the effective tax rate as well as the tax factor-up calculation to be applied to

the overall revenue deficiency where applicable and addresses this calculation in his

- component was applied by MAWC to its proposed operating revenue deficiency amount of \$31,086,189. This approach results in MAWC's proposal to include an additional \$573,096 for estimated uncollectibles expense. At the earliest, MAWC assumes this expense will begin to occur approximately 110 days following the effective date of rates in this rate case, assuming it receives the full amount of the overall requested rate increase.
  - Q. Did Staff include any additional amount in its cost of service calculation for additional uncollectibles that might result from any amount of rate increase ultimately ordered by this Commission?
    - A. No.
  - Q. Does Staff agree that the actual level of net write-offs directly correlates to the level of revenues that MAWC collects as MAWC witness Tinsley's uncollectibles factor-up adjustment suggests?
  - A. No. Many other factors can affect the level of uncollectibles that a Company incurs. The state of the economy, the geographical location of the utility and its customers, the impacts of weather, the existence of low-income assistance programs and the nature of a utility's customer service policies, such as those regarding customer payment arrangements and use of debt collection agencies, are a few examples of factors that typically effect the level of uncollectibles expense. Any combination of the above listed factors can affect the level of uncollectibles expense that a Company may incur; there is no direct correlation that uncollectibles will increase as the level of revenues increases.
  - Q. Has Staff compared a history of MAWC billed revenues to the actual amount of net write-offs recorded by MAWC?

## Rebuttal Testimony of Erin M. Carle

continued on next page

1	A. Yes, please refer to the chart below that MAWC provided in response to the
2	Department of Energy's DR No. 1-220. It shows a total company ten-year history of
3	uncollectibles, customer numbers, water volumetric sales and total operating revenues, by year.
4	During this time, MAWC has filed four water rate cases, Case No. WR-2007-0216, Case No.
5	WR-2008-0311, Case No. WR-2011-0337, and the present case. Each of these cases also
6	involved sewer rate increase requests as well. According to the philosophy behind MAWC's
7	proposed adjustments, where revenues are increasing, uncollectibles should be increasing as
8	well. However, the chart it supplied clearly shows differently. The increased rates for the WR-
9	2007-0216 case went into effect on December 1, 2007, yet the level of uncollectibles in 2008
10	were lower than in 2005 and 2006, despite the lower level of operating revenues prior to the
11	2007 rate increase. The same can be said for the WR-2008-0311 rate case. The increased rates
12	became effective in that case on November 28, 2008. The level of uncollectibles in 2009, 2010,
13	2011 and 2012 were all lower than the level of uncollectibles in 2006. The level of
14	uncollectibles in 2006 is before two rate cases but shows substantially lower levels of operating
15	revenues.
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	2005	2006	2007	2008	2009
Uncollectible Expense	1,963,989	2,345,816	1,279,669	1,600,941	2,179,678
Customer Count @ 12/31	418,977	424,185	425,081	418,604	419,010
Water Volumetric Sales	67,253,448	72,180,104	68,764,885	60,992,457	58,145,236
Total Operating Revenues	164,047,256	170,853,331	179,899,724	181,050,984	203,781,530

	2010	2011	2012	2013	2014
Uncollectible Expense	2,288,961	2,113,584	2,334,542	3,504,740	4,594,659
Customer Count @ 12/31	418,855	420,796	422,518	427,639	427,791
Water Volumetric Sales	60,275,921	61,314,203	64,866,438	58,124,578	56,927,629
Total Operating Revenues	224,608,250	243,139,805	279,467,684	264,778,072	270,159,539

This chart clearly demonstrates that factors other than the amount of billed revenues can more than outweigh the impact of billed revenues alone on the level of uncollectible expense that MAWC may experience.

- Q. Per this analysis, is there a direct correlation between the level of billed revenues and the level of uncollectibles that the Company has had to write-off?
- A. No. Per this analysis, it is clear that the level of uncollectibles is not solely or even primarily based on the level of operating revenues that the Company is receiving. Therefore, the Commission should not apply an adjustment to uncollectibles based on the assumption that some correlation between the two factors exists.
- Q. Does Staff have any other concerns with MAWC's proposed inclusion of additional uncollectible expense to address its proposed increase in revenues?

## Rebuttal Testimony of Erin M. Carle

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- A. Yes. MAWC bases its proposed recovery amount upon the assumption that it will receive the entire amount of additional revenues it is requesting. The Staff does not recommend Commission acceptance of MAWC's proposed factoring-up of uncollectibles, but if the Commission does accept this concept, the calculation would need to be modified to reflect the actual Commission ordered increase in operating revenues.
  - Q. Does this conclude your rebuttal testimony?
  - A. Yes, it does.

## BEFORE THE PUBLIC SERVICE COMMISSION

### OF THE STATE OF MISSOURI

In the Matter of Missouri-American Water Company's Request for Authority to Implement a General Rate Increase for Water and Sewer Service Provided in Missouri Service Areas	) Case No. WR-2015-0301 )
AFFIDAVIT OF E	RIN M. CARLE
STATE OF MISSOURI )	
COUNTY OF ST. LOUIS ) ss.	
COMES NOW ERIN M. CARLE and on h lawful age; that she contributed to the foregoing h	er oath declares that she is of sound mind and
is true and correct according to her best knowledge	
Further the Affiant sayeth not.  Euclidean ERIN	n M. Caule NM. CARLE
JURA	AT
the County of St. Louis, State of Missouri, at my	office in St. Louis, on this day of
Ço	Notary Public  LARHONDA ELLIS Notary Public - Notary Seal State of Missouri ommissioned for St. Louis City mmission Expires: March 08, 2018 ommission Number: 14779965