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February 19, 2019

VIA ELECTRONIC FILING

Hon. David Jones, Chairman c/o Tory Lawless Tennessee Public Utility Commission 502 Deaderick Street, 4th Floor Nashville, TN 37243

RE: Petition of Tennessee-American Water Company Regarding the 2019 Investment and Related Expenses Under the Qualified Infrastructure Investment Program Rider, the Economic Development Investment Rider and the Safety and Environmental Compliance Rider, TPUC Docket No. 18-00120

Dear Chairman Jones:

Attached for filing please find the *Direct Testimony of Elaine K. Chambers Adopting Testimony of Melissa Schwarzell* in the above-captioned matter.

As required, an original of this filing, along with four (4) hard copies, will follow. Should you have any questions concerning this filing, or require additional information, please do not hesitate to contact me.

Very truly yours,

BUTLER SNOW LLP

Melvin J. Malone

clw

Attachment

cc: Elaine K. Chambers, Tennessee-American Water Company

Vance Broemel, Assistant Attorney General, Consumer Protection and Advocate Division Daniel Whitaker, Assistant Attorney General, Consumer Protection and Advocate Division

BEFORE THE TENNESSEE PUBLIC UTILITY COMMISSION NASHVILLE, TENNESSEE

PETITION OF TENNESSEE-)	
AMERICAN WATER COMPANY)	
REGARDING THE 2019 INVESTMENT)	
AND RELATED EXPENSES UNDER)	
THE QUALIFIED INFRASTRUCTURE)	DOCKET NO. 18-00120
INVESTMENT PROGRAM RIDER,)	DOCKET NO. 16-00120
THE ECONOMIC DEVELOPMENT)	
INVESTMENT RIDER AND THE)	
SAFETY AND ENVIRONMENTAL)	
COMPLIANCE RIDER)	

DIRECT TESTIMONY OF ELAINE K. CHAMBERS ADOPTING TESTIMONY OF MELISSA SCHWARZELL

Q. PLEASE STATE YOUR NAME AND PLACE OF RESIDENCE.

A. My name is Elaine K. Chambers, and my business address is 2300 Richmond Road, Lexington, Kentucky 40502. I am employed by American Water Works Service Company, Inc. ("Service Company"). Service Company is a wholly owned subsidiary of American Water Works Company, Inc. ("American Water") that provides services to Tennessee-American Water Company ("TAWC" or "Company") and its affiliates. My current role is Director of Rates and Regulation for Tennessee and Kentucky.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY TODAY?

A. The purpose of my testimony is to adopt the testimony previously filed in this matter by Melissa Schwarzell supporting the Petition filed by TAWC regarding the 2019 Investment and Related Expenses Under the Qualified Infrastructure Investment Program Rider, the Economic Development Investment Rider and the Safety and Environmental Compliance Rider. A copy of Melissa Schwarzell's testimony is attached as Exhibit 1.

- Q. ARE YOU FAMILIAR WITH THE TESTIMONY OF MELISSA SCHWARZELL?
- A. Yes, I have reviewed the testimony of Melissa Schwarzell, including the exhibits, and I am familiar with its contents.
- Q. IF ASKED THE SAME QUESTIONS AS ARE IN THE DIRECT TESTIMONY OF MELISSA SCHWARZELL, WOULD YOU ANSWER EACH QUESTION THE SAME?
- A. Yes.
- Q. DO YOU WISH TO ADOPT THE TESTIMONY OF MELISSA SCHWARZELL WITHOUT CHANGES?
- A. Yes.

No further questions.

country of Fayette)

BEFORE ME, the undersigned authority, duly commissioned and qualified in and for the State and County aforesaid, personally came and appeared Elaine K. Chambers, being by me first duly sworn deposed and said that:

She is appearing as a witness on behalf of Tennessee-American Water Company before the Tennessee Public Utility Commission, and if present before the Commission and duly sworn, her testimony would be as set forth in her pre-filed testimony in this matter.

Claine K. Chambers

Sworn to and subscribed before me this 18 than day of November, 2019.

Votary Public

My Commission Expires: 7 25 2020

PETITIONER'S EXHIBIT MLS-1

TENNESSEE-AMERICAN WATER COMPANY, INC.

DOCKET NO. 18- <u>00/20</u>

DIRECT TESTIMONY

OF

MELISSA L. SCHWARZELL

ON

CHANGES TO THE QUALIFIED INFRASTRUCTURE INVESTMENT PROGRAM RIDER, THE ECONOMIC DEVELOPMENT INVESTMENT RIDER, AND THE SAFETY AND ENVIRONMENTAL COMPLIANCE RIDER

SPONSORING PETITIONER'S EXHIBITS:

<u>PETITIONER'S EXHIBIT SUMMARY – MLS</u> <u>PETITIONER'S EXHIBIT – AVG IMPACT – MLS</u>

PETITIONER'S EXHIBIT – QIIP 1 – MLS

PETITIONER'S EXHIBIT - QIIP 2 - MLS

PETITIONER'S EXHIBIT - EDI 1 - MLS

PETITIONER'S EXHIBIT - EDI 2 - MLS

PETITIONER'S EXHIBIT - SEC 1 - MLS

PETITIONER'S EXHIBIT - SEC 2 - MLS

PETITIONER'S EXHIBIT – ANNUAL APPROVED TARIFFS -- MLS

PETITIONER'S EXHIBIT - CURRENT TARIFF SHEET NO. 12 - CAPITAL RIDERS --

MLS

<u>PETITIONER'S EXHIBIT – CURRENT TARIFF SHEET NO. 12 – RIDERS – MLS PETITIONER'S EXHIBIT – PROPOSED TARIFF SHEET NO. 12 – RIDERS - MLS </u>

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1	().	PLEAS	E STATE	E YOUR NAME	AND BUSINESS	ADDRESS.

- 2 A. My name is Melissa L. Schwarzell, and my business address is 1 Water Street, Camden,
- 3 NJ, 08102.

4 Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

- 5 A. I am employed by American Water Works Service Company, Inc. ("Service Company").
- 6 Service Company is a wholly owned subsidiary of American Water Works Company, Inc.
- 7 ("American Water") that provides services to Tennessee-American Water Company
- 8 ("TAWC" of "Company") and its affiliates. My current role is Senior Director of
- 9 Regulatory Services.

10 Q. HAVE YOU PREVIOUSLY FILED TESTIMONY BEFORE THIS OR ANY

11 OTHER COMMISSION?

- 12 A. Yes. I have provided both oral and written testimony before the Kentucky Public Service
- 13 Commission. I have also sponsored testimony before the Public Utilities Commission of
- Ohio and the Tennessee Public Utility Commission ("TPUC" or "Commission") in Docket
- 15 No. 12-00049.

16 Q. PLEASE STATE YOUR EDUCATIONAL AND PROFESSIONAL

- 17 **BACKGROUND.**
- 18 A. I earned a Bachelor of Science degree from Ohio State University. I am enrolled in
- 19 Temple University's Master of Business Administration program. I have completed
- NARUC Utility Rate School and the IPU Advanced Regulatory Program.
- I have been employed by Service Company since 2009. Prior to my current role, I
- served as Director of Investor Relations from February 2016 to January 2017. In this role,
- I supported American Water's relationship with its shareholders, by developing public

disclosures and communicating with institutional investors and equity analysts. From December 2014 to February 2016, I served as Manager of Regulatory Policy, providing research, communication, and business support on key water service issues and policy solutions. From February 2011 to December 2014, I held increasing levels of responsibility for rates and regulatory service to American Water's subsidiaries as a Financial Analyst Rates I, Financial Analyst Rates II, and Rates and Regulatory Analyst III. Prior to this, I began my career at American Water working as Executive Assistant to the Eastern Division Vice President of Finance. In this role, I provided labor budgeting, as well as analysis of labor costs, Service Company, revenues, and the general ledger.

A.

Prior to joining American Water, I worked for the Bluegrass Area Agency on Aging, supporting social services programs for senior citizens in Central Kentucky. From 2001 to 2003, I worked as a Financial and Administrative Assistant, providing bookkeeping, as well as website and database development. In 2004 I was promoted to Program Specialist.

15 Q. WHAT ARE YOUR DUTIES AS SENIOR DIRECTOR OF REGULATORY 16 SERVICES?

My duties in this position consist of reviewing, preparing and assisting in regulatory filings and related activities for the regulated subsidiaries of American Water. My responsibilities and my team's responsibilities include the preparation of written testimony, exhibits and work papers in support of rate applications and other regulatory filings as well as responses to data requests for Tennessee-American and its regulated utility affiliates.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. The purpose of my testimony is to support the calculation of the 2019 Capital Recovery Riders described in TAWC's Petition. On April 14, 2014, the TPUC approved four new alternative rate mechanisms for TAWC, effective April 15, 2014, in TPUC Docket No. 13-00130. Three of these alternative rate mechanisms were capital program recovery riders, commonly referred to as the "Capital Recovery Riders," and one was for a rider for Production Costs and Other Pass-throughs ("PCOP"). The three Capital Recovery Riders are the only items included in this current Petition.

On June 29, 2015, the TPUC approved an adjustment to the three Capital Recovery Riders for 2015 in Docket No. 14-00121 with some modifications to one of the Capital Recovery Riders. Those modifications, set forth in the TPUC's February 1, 2016, *Order Granting, In Part, Denying, In Part, Petition*, have been incorporated into the current Petition for an adjustment for 2019. Additionally, TAWC has included the corrections made to the Capital Recovery Riders calculations in Docket No. 15-00111, Docket No. 16-00022 and Docket No. 17-00020.

16 Q. ARE YOU SPONSORING ANY EXHIBITS?

17 A. Yes I am. I am sponsoring the following exhibits:

18	Petitioner's Exhibit Summary - MLS
19	Petitioner's Exhibit – Average Impact – MLS
20	Petitioner's Exhibit – QIIP 1 – MLS
21	Petitioner's Exhibit – QIIP 2 – MLS
22	Petitioner's Exhibit – EDI 1 – MLS
23	Petitioner's Exhibit – EDI 2 – MLS
24	Petitioner's Exhibit – SEC 1 – MLS
25	Petitioner's Exhibit – SEC 2 – MLS

^{1 1} See Order Approving Petition As Amended, TPUC Docket No. 15-00111 (May 16, 2016); Pre-filed Testimony of TAWC Witness Linda C. Bridwell, TPUC Docket No. 16-00022; and TPUC Transcript of Proceedings, TPUC Docket No. 16-00022 (Oct. 10, 2016); Rebuttal Testimony of TAWC Witness Linda C. Bridwell, TPUC Docket No. 17-00020 and Order Approving Petition, TPUC Docket No. 17-00124 (June 29, 2018).

1		<u>Petitioner's Exhibit – Annual Approved Tariffs MLS</u> <u>Petitioner's Exhibit – Current Tariff Sheet No. 12 – Capital Riders MLS</u>
2		Petitioner's Exhibit - Current Tariff Sheet No. 12 - Capital Riders WLS Petitioner's Exhibit - Current Tariff Sheet No. 12 - Riders MLS
4		Petitioner's Exhibit – Proposed Tariff Sheet No. 12 – Riders - MLS
5 6		I will discuss these exhibits in further detail in my testimony below.
7	Q.	WERE THE PETITIONER'S EXHIBITS LISTED ABOVE PREPARED BY YOU
8		OR UNDER YOUR DIRECTION AND SUPERVISION?
9	A.	Yes.
10	Q.	WHAT WERE THE SOURCES OF THE DATA USED TO PREPARE THE
11		PETITIONER'S EXHIBITS LISTED ABOVE?
12	A.	The data used to prepare the exhibits was acquired from the books of account and business
13		records of Tennessee American, the officers and associates of Tennessee American with
14		knowledge of the facts based on their job responsibilities and activities, and other internal
15		sources which I examined in the course of my investigation of the matters addressed in this
16		testimony.
17	Q.	DO YOU CONSIDER THIS DATA TO BE RELIABLE AND OF A TYPE THAT IS
18		NORMALLY USED AND RELIED ON IN YOUR BUSINESS FOR SUCH
19		PURPOSES?
20	A.	Yes.
21	Q.	DO THE PETITIONER'S EXHIBITS LISTED ABOVE ACCURATELY
22		SUMMARIZE SUCH DATA AND THE RESULTS OF ANALYSIS USING SUCH
23		DATA?
24	A.	Yes, they do.

Q. WHAT ARE THE THREE CAPITAL RECOVERY RIDERS APPROVED BY THE

2 TPUC?

A.

Pursuant to Tennessee Code Annotated Section 65-5-103 et seq., the three Capital Recovery Riders authorized in Docket No. 13-00130 are based on certain categories of capital expenditures to cover the investment period of calendar year 2014. The first Capital Recovery Rider is the Qualified Infrastructure Investment Program ("QIIP") Rider. This rider is designed to recover the costs associated with the capital investment made between rate cases to replace aging infrastructure that is non-revenue producing. This means infrastructure that does not produce additional revenues. Examples of infrastructure that produces additional revenues are main extensions specifically for a new development, or new services or meters for new customers. As outlined in Docket No. 13-00130, aging water and wastewater infrastructure is a growing problem across the United States, including Tennessee, which will require significant investments over the next few decades to continue to provide clean and reliable water service. This rider helps TAWC address the replacement of this critical, aging infrastructure. The QIIP Rider includes replacement of existing infrastructure in the areas of mains, meters, services, hydrants, water treatment equipment, pumping equipment, and tank painting.

The second Capital Recovery Rider is the Economic Development Investment ("EDI") Rider. This rider is primarily for the recovery of investment made in infrastructure to assist in economic development in the communities and areas served by TAWC. Communities across the country are competing for economic development opportunities to provide growth in jobs, taxes, and overall quality of life for residents. This rider provides an opportunity for TAWC to partner with the communities it serves to assist in economic

development. Additionally, unlike the QIIP Rider, the EDI Rider may include operating expenses related specifically to economic development.

The third Capital Recovery Rider is the Safety and Environmental Compliance ("SEC") Rider. This rider is for the recovery of investment made to comply with safety and environmental regulations since the previous rate case. TAWC, like other utilities, is faced with increasing capital investment requirements to comply with safety and environmental regulations. This rider assists TAWC in addressing those requirements. Like the EDI Rider, the SEC Rider may include operating expenses that can be identified as specifically for the new infrastructure under this rider.

An adjustment to those three Capital Recovery Riders was authorized by the Commission in Docket No. 14-00121 to cover the investment period of the calendar year 2015. A second adjustment to the three Capital Recovery Riders was authorized in Docket No. 15-00111 to cover the investment period of the calendar year 2016. A third adjustment to the three Capital Recovery Riders was authorized in Docket No. 16-00126 to cover the investment period of the calendar year 2017. A fourth adjustment to the three Capital Recovery Riders was authorized in Docket No. 17-00124 to cover the investment period of the calendar year 2018. The purpose of this Petition is to comply with the tariffs approved in TPUC Docket No. 13-00130 and provide the required information and supporting documentation for each of the Capital Recovery Riders based on the projected investment period of 2019.

Attached to my testimony is Petitioner's Exhibit Current Tariff Sheet No. 12—Capital Riders – MLS, which is a copy of all three Capital Recovery Riders tariff sheets as approved in TPUC Docket No. 13-00130, and as modified in TPUC Docket No. 14-00121

- and as further clarified in TPUC Docket No. 15-00029, Docket No. 15-00111, Docket No.
- 2 16-00022, Docket No. 17-00020, and Docket No. 17-00124.
- 3 Q. HOW IS THE PROCESS UNDER THE APPROVED CAPITAL RECOVERY
- 4 RIDERS DIFFERENT FROM THE PREVIOUS AND HISTORICAL
- 5 REGULATORY APPROACH WITH RESPECT TO INVESTMENT METHODS?
- A. As far as the projects and the investment into those projects are concerned, there isn't any difference. The difference between the new riders and the future test year regulatory
- approach that has been used by TAWC in rate cases is largely in the method and procedure
- of filing, the deferral of full rate cases and the lessening of rate shock, and the multiple
- benefits of the streamlined alternative mechanisms. If it were not for the new alternative
- regulatory methods available to the Commission and the regulated community, TAWC
- would likely have had to file a rate case in 2018 or earlier. These new methods have deferred
- the need to file a full rate case, at least in the short term. These petitions should make the
- regulatory process much more streamlined and less burdensome, without reducing effective
- and meaningful regulatory oversight. As intended under the statute and approved by the
- 16 Commission, the whole process is more efficient, timely and much less expensive. There is
- no doubt but that the alternative rate adjustment methods are working.
- 18 Q. IN DOCKET NO. 14-00121, THE TPUC ORDERED CHANGES TO THE
- 19 ELIGIBLE ITEMS WITHIN THE EDI RIDER. ARE THE ITEMS EXCLUDED
- 20 BY THE COMMISSION EXCLUDED IN THIS PETITION?
- 21 A. Yes. In Docket No. 14-00121, the TPUC made modifications to the eligible items within
- the EDI Capital Recovery Rider, removing new services, new meters, and alternative fuel
- vehicles. These changes were recognized in Docket No. 15-00111 and are reflected fully

1	in this Petition. TAWC has removed those items from the EDI for not only the current
2	review period of 2019, but also removed the previously authorized cumulative amounts of
3	such items in the EDI Rider from all the review periods of 2014, 2015, 2016, 2017, and
4	2018.

- 5 Q. IN DOCKET 15-00029, THE TPUC ORDERED THAT GOING FORWARD, TAWC
 6 SHOULD FILE WORKPAPERS IN A FORMAT THAT DOESN'T USE ARRAY
 7 FORMULAS IN CALCULATIONS, AND FOLLOWS A CLEAR AUDIT TRAIL
 8 FOR CALCULATIONS. HAS TAWC DONE THAT IN THIS FILING?
- 9 A. Yes. TAWC prepared the files in an excel workbook similar to what was prepared in Docket No. 13-00130 and Docket No. 14-00121. TAWC then prepared a "Proof" 10 worksheet in the excel file of the tabs that utilized array formulas for calculation, but went 11 through the calculations without array formulas. In the electronic version, the "Proof" 12 worksheets are found at the end of the excel workbook. There are also four reconciliation 13 worksheets that demonstrate the total additions, removals and retirements and a total 14 15 reconciliation for 2014, 2015, 2016, 2017, and 2018. Consistent with the directive, this will provide a clear audit trail of the calculations. 16
- 17 Q. ARE THERE OTHER CHANGES TO THE EXCEL WORKBOOK OR
 18 CALCULATIONS FROM THE INITIAL FILES IN DOCKET NO. 17-00124?
- 19 A. Yes. In addition to any corrections that were carried forward from previous dockets,
 20 Tennessee American made three changes to the excel workbook to make it more user21 friendly. They are as follows:
- 1) Tennessee American updated the workbook for the 2019 forecasted numbers, actual 2017 capital expenditures from TPUC Docket No. 18-00022, and updated all formulas.

A.

2) In IPUC Docket No. 17-00124, IAWC revised the filing to include the federal tax
expense reduction that resulted from the 2017 Tax Cuts and Jobs Act. TAWC also revised
the filing to apply to the lower federal tax rate to Accumulated Deferred Income Taxes
forecasted in the Capital Recovery Riders. The revised federal income tax rates have been
utilized again in this filing for both the income tax expense generated and the forecasted
Accumulated Deferred Income Taxes

3) Tennessee American forecasted retirement and cost of removal amounts by NARUC account based on the average actual retirements and cost of removal by account in 2015 – 2017. In Docket No. 17-00124, TAWC proposed a revised methodology to utilize the actual retirements and cost of removal by account, using the most recent three year actual average. This eliminated an estimate of those amount. This was applied to the 2019 forecast

Although these three changes may not translate well in verbal testimony, they will aid any review of the Petition and the underlying supporting documentation.

Q. CAN YOU EXPLAIN HOW THE EXCEL SPREADSHEET FILED WITH THIS PETITION IS STRUCTURED TO PRESENT THE CALCULATIONS?

Certainly. In TPUC Docket No. 16-00126, Tennessee American made some organizational changes to improve the review process of the workpapers and exhibits. First, Tennessee American added a "Workbook Info" worksheet to the excel workbook that gives a general description of each worksheet in the workbook. This is the very first worksheet or tab in the left-most position. This tab lists the purpose of each worksheet in the file and essentially provides a table of contents.

Next, Tennessee American reorganized the tabs and color coded the tabs labelled at the bottom of the workbook. There is a blank, blue coded tab labelled "Exhibits" that is to the left of all of the exhibit tabs. The tabs for all of the exhibits are colored green in the label at the bottom. There is a second blank, blue coded tab labelled "Workpapers" to the left of all of the workpaper tabs which are color coded red. The workpaper tabs now start with the 2019 calculations in the left-most position of the "Workpapers" section, with 2018, 2017, 2016, 2015 and 2014 tabs consecutively to the right. A third blank, blue colored tab labelled "Reconciliations" is to the left and the start of all of the reconciliation tabs now colored purple. Finally, there is a fourth blank, blue coded tab labelled "Proofs" to the left of all of the proof tabs that are color coded yellow. This reorganization should help anyone looking in the excel workbook to more easily locate the information they are seeking. Third, any hard-coded numbers within the workbook are now colored in a blue font to enable a reviewer to identify them easily and quickly. On the same tab as any blue hard coded numbers, there will be a footnote at the bottom of the tab identifying the reference and source of the number. This should make comparisons to previous filings a much faster process.

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Finally, in an effort to improve quality control, Tennessee American implemented a process to audit the workbook. There are a number of places in the workpapers and exhibits that now have a "tie-point" to verify that numbers are calculating accurately. These tie-points will not be printed on the pdf pages but should streamline any review of the calculations.

HOW HAS THE APPLICATION OF THE EDI RIDER BEEN DIFFERENT FROM
THE PREVIOUS INVESTMENT REGULATORY METHODS UTILIZED BY

TAWC PRIOR TO THE APPROVAL OF THE RIDERS IN TPUC DOCKET NO.

2 13-00130?

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- In his testimony, Brent O'Neill discusses the individual projects included in the EDI Rider. A. Without the EDI Rider, these projects may not have been as successful or potentially would not have developed at all. Under its previous investment methods for development, TAWC would have required the developers to pay for the relocation and replacement of assets, thus increasing the upfront costs to them. Given the amount of the investment, coupled with the growth, jobs, and other positive attributes attached to these projects, losing one or more of the projects would have been a disappointment to the communities. These projects demonstrate that the EDI Rider is an extremely valuable tool that can enhance a community's ability to attract future economic development opportunities. Successes such as these will help the area gain an upper hand in the vigorous competition among communities, which ultimately benefits all of TAWC's customers. For instance, additional water sales have the potential to offset the ongoing declining use that TAWC has experienced, maintaining a water sales level close to authorized and thus contribute to cover a portion of the Company's fixed expenses. This helps maintain lower rates to all of our customers.
- 18 Q. HOW IS THE SEC RIDER ALSO DIFFERENT FROM PREVIOUS INVESTMENT

 19 METHODS THAT WERE AVAILABLE TO TAWC PRIOR TO THE APPROVAL

 20 OF THE RIDERS IN TPUC DOCKET NO. 13-00130?
- A. The overall strategy is similar, but an important difference is that the investment is made through a program that expressly delineates and highlights the reason needed for the investment. To the extent that additional investments are made for safety and

environmental compliance measures under the SEC Rider, the purpose of the investment will be more transparent to the customer and to the Commission.

3 O. DO THE CAPITAL RECOVERY RIDERS BENEFIT THE CUSTOMERS?

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A.

- Yes. The QIIP, the EDI and the SEC Riders are mutually beneficial to our customers, the general public, and TAWC. The Qualified Infrastructure Program Rider, the Economic Development Investment Rider, and the Safety and Environmental Compliance Rider, in part, reduce the need for general rate cases, lessen the occurrence of consumer "rate shock," support the maintenance and improvement of essential infrastructure, support opportunities for successful economic development, growth and job creation, ensure safety and reliability, and allow for more efficient, streamlined regulation. The customers and the public benefit from the safety and reliability components and from the more seamless and timely capital investment in infrastructure, coupled with the related support to economic development, growth and job creation. The Company benefits from a more efficient, streamlined regulatory process that presents TAWC with the opportunity to timely recover its expenses and earn a fair rate of return on its investments.
- 16 Q. YOU MENTIONED THAT THE COMPANY BENEFITS FROM THE RIDERS 17 BECAUSE THE RIDERS **PROVIDE** THE COMPANY WITH THE 18 OPPORTUNITY TO TIMELY RECOVER ITS EXPENSES AND EARN A FAIR 19 RATE OF RETURN ON ITS INVESTMENTS. CAN YOU ELABORATE ON 20 THIS?
- A. Certainly. The Capital Recovery Riders permit TAWC to recover the cost of capital investment between rate cases in an efficient, streamlined regulatory process. As outlined in my testimony, each year Tennessee American estimates or forecasts the amount of

qualified capital investment (QIIP), infrastructure investment and eligible expenses (EDI) and safety and environmental compliance investment and eligible expense (SEC) that it expects to spend for the upcoming calendar year, in this Petition for 2019. The Company will then calculate what it costs to recover the expenditures associated with such forecasted capital investment and expenses. For example, if the Company were to invest \$1 million dollars on a QIIP project in the forecast year, the Company would not recover that entire \$1 million that year. Rather, it will only recover a return on that investment (which includes a weighted return on equity and interest on debt as authorized in the most recent rate case), as well as depreciation expense and taxes. After it calculates what it costs to recover the expenditures associated with the forecasted capital investment and expenses, Tennessee American then determines – through a second calculation – the percentage of the costs to recover those expenditures as an amount of the overall revenue authorized in the last rate case. This is the surcharge amount. The surcharge then represents recovery for the costs to support the capital investments. So, under the Capital Recovery Rider tariffs as approved, the monthly surcharge over 12 months in the forecasted year would represent the annual recovery of the cost to support the capital investment.

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- Q. BEFORE THE TPUC APPROVED THE CAPITAL RECOVERY RIDERS, WHAT PROCESS DID TAWC USE TO RECOVER THE EXPENSES ASSOCIATED WITH CAPITAL INVESTMENT AND HAVE THE OPPORTUNITY TO EARN A FAIR RETURN?
- A. Regulated utilities cannot increase their rates in Tennessee without approval of the TPUC, which prior to the passage of the alternative regulation statute required a full rate case filing. So, TAWC employed rate cases for appropriate recovery.

Q. IS THERE A DRAWBACK TO RATE CASES?

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2 In part, this goes back to my earlier testimony concerning the benefits of the Capital Recovery Riders to the public. Further, regulated utilities continue to invest money in infrastructure (utility plant) and expenses may continue to increase in between rate cases. This "regulatory lag" lessens the opportunity for the Company to earn its authorized return on equity.

7 Q. CAN YOU EXPLAIN THE CALCULATION OF THE CAPITAL RECOVERY 8 RIDERS?

Certainly. As set forth in the approved tariffs, all three Capital Recovery Riders are established on an annual prospective basis utilizing average end-of-month balances and should reflect only those qualified plant additions installed after the conclusion of the initial rate year in Docket No. 12-00049. Consistent with the tariffs, the qualified plant additions are reduced by the projected retirements associated with the Capital Recovery Rider additions in the calculation of applicable depreciation and property tax expense. As discussed earlier in my testimony, the EDI and SEC Riders can be increased by the appropriate operating expenses. However, TAWC has not included any operating expenses for the EDI or SEC riders in this Petition. In this case, Tennessee American has proposed to begin the attrition period for each of the Capital Recovery Riders on January 1, 2019, ending December 31, 2019. This annual review period was established in the tariffs submitted on March 25, 2014, and approved in Docket No. 13-00130 on April 14, 2014.

The tariffs also established a reconciliation period for each of the Capital Recovery Riders, which will occur 60 days after the close of the attrition period. The attrition period in Docket No. 13-00130 was for January 1, 2014 through December 31, 2014. The reconciliation for that filing was made in Docket 15-00029 on March 1, 2015. The attrition period in Docket No. 14-00121 is for January 1, 2015 through December 31, 2015, and the reconciliations were filed on March 1, 2016 in Docket No. 16-00022. The attrition period in Docket No. 15-00111 was for January 1, 2016 through December 31, 2016 and the reconciliations were filed on March 1, 2017 in Docket No. 17-00020. The attrition period in Docket No. 16-00126 was for January 1, 2017 through December 31, 2017 and the reconciliation was filed by March 1, 2018 in Docket No. 18-00022. The attrition period in Docket No. 17-00124 was for January 1, 2018 through December 31, 2018 and the reconciliation will be filed by March 1, 2019. Based upon the process outlined in the tariffs and clarified in Docket No. 14-00121, the reconciliations are not, and were not intended to be, a part of this Petition.

A.

As approved, the Capital Recovery Riders are cumulative and remain in place until reset back to zero at the conclusion of the Company's next rate case filing, at which point the capital costs, depreciation and taxes, and any other operating expenses approved and previously recovered through the Capital Recovery Riders are then subsumed within Base Rates.

Q. CAN YOU DISCUSS DETAILS OF THE OPERATION OF THE CAPITAL RECOVERY RIDERS NOT ADDRESSED ABOVE?

Yes. TAWC utilizes an annual prospective approach to the utility plant additions that qualify for recovery through the Capital Recovery Riders. The Capital Recovery Riders provide for the recovery of revenue sufficient to cover the capital cost, depreciation and tax expense related to the projected investment in qualified utility plant. These costs consider the effects of associated retirements ("Net Plant"), Contributions in Aid of

Construction ("CIAC"), and Cost of Removal Spending net of Salvage value for the attrition period. To determine the rate of return recovery, an average of the month-end balances of new utility plant in service is calculated, less ½ of the anticipated annual associated CIAC, plus ½ of the anticipated annual associated cost of removal net of salvage spending, to derive the "Net Plant" amount. As discussed in Docket No. 16-00022, in the first year TAWC used a 12-month average to calculate the Capital Recovery Riders, representing all of the activity within the 12 months of the attrition period. Beginning in the second year, TAWC used a 13-month average from the end of the previous year through the end of the attrition period. The current approved pre-tax rate of return ("PTR") is applied to this net amount to determine the revenue requirement of the rate base portion. The PTR is calculated from the weighted common equity and preferred equity, grossed up to include state and federal taxes, plus the weighted cost of long-term debt and the weighted cost of short-term debt. Next, the annual depreciation expense of the additional Net Plant is calculated ("NetDep"), utilizing the current TPUC approved depreciation rates by account and then added. From there, incremental new property and Franchise taxes ("PFT") is added. For the EDI Rider and SEC Rider, additional operating expenses would be added as appropriate. The sum of these components are grossed up to include the recovery of the associated additional Gross Receipts taxes, Uncollectible expense, and forfeited discounts ("RT") to derive the final revenue requirement. Then, any over or under Capital Recovery Rider collection of prior periods would be added or subtracted as applicable ("R"). The over or under Capital Recovery Rider adjustment is pending in Docket No. 18-00022 and is not included as part of this Petition. This total is then divided by the authorized annual level of general metered service and private fire service customer

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revenues ("PAR") from the prior docket (Docket No. 12-00049), i.e. not including any other revenues, to render each of the new Capital Recovery Rider percentages.

Q. YOU MENTION THAT THE OVER/UNDER RECONCILIATION IS NOT INCLUDED IN THIS PETITION. CAN YOU EXPLAIN WHY NOT?

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Yes. The authorized tariff specifies the forecasted adjustments for new investment, by December 1, to be effective January 1. The reconciliation factor is to be filed by March 1, to be effective April 1 to December 31 only each calendar year. The first reconciliation adjustment was authorized on October 19, 2015 to be effective November 1 through December 31, 2015 in Docket No. 15-00029. The second reconciliation adjustment was authorized on October 10, 2016 in Docket No. 16-00022 to be effective October 11, 2016 through December 31, 2016. The third reconciliation adjustment was authorized on August 15, 2017 in Docket No. 17-00020 to be effective August 16, 2017 through December 31, 2017. The fourth reconciliation adjustment was filed in Docket No. 18-00022 and is pending before the TPUC. This petition is intended to adjust the Capital Recovery Riders for investment in 2019. The calculation includes the cumulative investment for rider for 2014, 2015, 2016, 2017, and 2018. In this petition, TAWC has included the actual investment for each rider in 2014, 2015, 2016 and 2017. The reconciliation to be filed by March 1, 2019 will apply as a true-up for the actual 2018 calendar year investment and revenues, including any over/under collection of the reconciliation approved in 18-00022. Therefore, it is not appropriate or necessary to include a reconciliation in the calculation included in this Petition.

- Q. HAVE YOU INCLUDED THE CALCULATION OF THE THREE CAPITAL 1 RECOVERY RIDERS IN THE PETITION? 2
- 3 A. Yes. I have attached an exhibit that reflects the calculation of each of the three Capital Recovery Riders by project. A summary is attached to my testimony as Petitioner's 4 Exhibit Summary - MLS. The detailed calculations are attached in six exhibits to my 5 testimony as Petitioner's Exhibit QIIP 1 – MLS, Petitioner's Exhibit QIIP 2 – MLS, 6 Petitioner's Exhibit EDI 1 - MLS, Petitioner's Exhibit EDI 2 - MLS, Petitioner's 7 Exhibit SEC 1 – MLS, and Petitioner's Exhibit SEC 2 – MLS. The calculations are 8 9 consistent with the calculations that were made in the approved tariff in Docket No. 13-00130, Docket No. 14-00121, Docket No. 15-00111, Docket No. 16-00126 and Docket 10 No. 17-00124. Further, to assist in the streamlined regulatory process, TAWC is including 11 with the Petition its detailed work-papers supporting the calculation of the three Capital 12 Recovery Riders. Again, these work-papers are consistent with the calculations made to 13 support the approved tariff in Docket No. 13-00130, Docket No. 14-00121, Docket No. 15-14 00111. Docket No. 16-00126, and again in Docket No. 17-00124. The workpapers are also 15 16 consistent with the calculations made to support the reconciliations in TPUC Docket No. 17 15-00029, TPUC Docket No. 16-00022, TPUC Docket No. 17-00020 and TPUC Docket No. 18-00022.
- HAS TAWC INCLUDED DETAILED INFORMATION REGARDING THE 19 Q. PROJECTS THAT MAKE UP EACH OF THE PROPOSED CAPITAL 20 **RECOVERY RIDERS?** 21

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A. Yes. Company Witness Brent O'Neill and Kurt Stafford will discuss the details regarding 22 23 the proposed capital expenditures included in the QIIP, EDI and SEC Riders for 2019.

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la la	V.	HUWP	ARE THE OHP.	EDI. AND	SEC KIDEK	KEVENUES	RECUVERED?

- 2 A. The QIIP, EDI and SEC Riders are expressed as a percentage. The current tariff Ninth 3 Revised Sheet No. 12 – Riders – 1 is attached to my testimony as **Petitioner's Exhibit** Current Tariff Sheet No. 12 - Riders - MLS, and the proposed tariff sheet Tenth 5 Revised Sheet No. 12 – Riders - 1 is attached to my testimony as **Petitioner's Exhibit Proposed Sheet No. 12 – Riders – MLS.** They are each applied to the total amount billed 6 7 to each customer under the otherwise applicable rates and charges for basic service, metered usage charges, and private fire charges, and are applied prior to the inclusion of 9 any other taxes, charges, or surcharges. All three Capital Recovery Riders are combined 10 into one line item on the bill of each customer.
- 11 Q. HAS TAWC INCLUDED A CHART SHOWING THE PROGRESSION OF THE
 12 APPROVED RIDERS IN EACH DOCKET SINCE THE LAST RATE CASE?
- 13 A. Yes. I have included a chart reflecting each of the annual approvals with its filing. This is
 14 shown as <u>Petitioner's Exhibit Annual Approved Tariffs MLS</u>.
- 16 Q. WHAT WILL HAPPEN TO THE CAPITAL RECOVERY RIDERS UPON
 17 APPROVAL OF NEW RATES IN A RATE CASE PROCEEDING?

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18 A. The QIIP, EDI, and SEC Riders will all be reset to zero as of the effective date of the new
19 Base Rates, which Base Rates then provide for the recovery of the annual costs that had
20 theretofore been recovered through the Capital Recovery Riders. Thereafter, and
21 consistent with the tariffs, only the new QIIP, EDI, and SEC Rider qualified plant additions
22 and expenses not previously included in rate base and Base Rates will be reflected in the
23 future filings subject to TPUC Approval.

- Q. WHAT COST OF CAPITAL IS UTILIZED IN THE FORMULA OF THE
 CAPITAL RECOVERY RIDERS?
- A. The cost of capital is the established rate of return (on a pre-tax basis) in the Company's immediately preceding Base Rate case Order, currently TPUC Docket No. 12-00049.
- 5 Q. WHAT DEPRECIATION RATES ARE USED TO DETERMINE THE
 6 DEPRECIATION EXPENSE RECOVERED BY THE QIIP, EDI AND SEC
 7 RIDERS?
- A. The depreciation rates last approved by the TPUC in Docket 12-00049 for the respective plant accounts in which the specific items of qualified infrastructure under each rider are recorded are the depreciation rates used to determine the depreciation expense. New depreciation rates would be used only after depreciation rates are changed during a general rate proceeding. These are the rates that were used in Docket Nos. 13-00130, 14-00121, 15-00029, 15-00111, 16-00022, 16-00126, 17-0020, 17-00124 and 18-00022.
- 14 Q. WHAT PROPERTY TAX RATE IS USED TO DETERMINE THE PROPERTY
 15 TAX EXPENSE RELATED TO THE ADDITIONAL INVESTMENT TO BE
 16 RECOVERED BY THE QIIP, EDI AND SEC RIDERS?
- A. The property tax rate is based on the proportion of property taxes authorized in Docket No.

 12-00049 to the utility plant in service, multiplied by the additional utility plant less
 retirements. This is the same rate used in Docket Nos. 13-00130, 14-00121, 15-00029, 1500111, 16-00022, 16-00126, 17-00020, 17-00124 and 18-00022.

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- 2 APPROPRIATE INCOME TAX EXPENSE RELATED TO THE ADDITIONAL
- 3 REVENUES GENERATED BY THE OIIP, EDI AND SEC RIDERS?
- 4 A. As noted previously, TAWC has revised the federal income tax rate to 21% based on the
- 5 2017 Tax Cuts and Jobs Act.
- 6 Q. HOW ARE BASE RATE ANNUAL REVENUES DETERMINED FOR THE QIIP,
- 7 EDI AND SEC RIDERS?
- 8 A. The projected annual revenues will be the authorized water services revenues from the last
- 9 case, Docket No. 12-00049, including all service charges and volumetric charges for all
- classes that are subject to the Capital Recovery Riders. These are the same annual revenues
- used in Docket Nos. 13-00130, 14-00121, 15-00029, 15-00111, 16-00022, 16-00126, 17-
- 12 00020, 17-00124 and 18-00022.
- 13 Q. HAS TENNESSEE AMERICAN INCLUDED ANY OPERATING EXPENSES IN
- 14 THE CURRENTLY PROPOSED EDI RIDER OTHER THAN THE
- 15 **DEPRECIATION AND TAX EXPENSES?**
- 16 A. No. In the tariffs approved in Docket No. 13-00130, TAWC included expenses related to
- specific economic development within the community as a component of the EDI Rider
- and operating expenses related to specific investment in the SEC Rider. However, in
- Docket No. 14-00121, the operating expenses related specifically to TAWC contributions
- 20 to economic development agencies were not approved by the TPUC. In that same Docket,
- TAWC removed proposed SEC Rider operating expenses, as those expenses would be
- captured in the PCOP. Other types of operating expenses related to economic development
- or the SEC Rider are not included in this current Petition, but TAWC will continue to

1 review and evaluate	potential and	appropriate	operating	expenses	for the	EDI	and	SEC
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- 2 Riders and submit them for consideration as appropriate.
- 3 Q. HAS TENNESSEE AMERICAN INCLUDED ANY OPERATING EXPENSES IN
- 4 THE CURRENTLY PROPOSED SEC RIDER OTHER THAN THE
- 5 DEPRECIATION AND TAX EXPENSES?
- 6 No.
- 7 Q. COULD THE AMOUNT OF INVESTMENT RIDER REVENUES COLLECTED
- FROM TENNESSEE AMERICAN'S CUSTOMERS VARY FROM THE ACTUAL
- 9 AMOUNT OF REVENUE NEEDED TO COVER A RETURN OF AND A RETURN
- 10 ON THE COMPANY'S QIIP, EDI AND SEC RIDER INFRASTRUCTURE
- 11 INVESTMENT AND TAXES?
- 12 A. Yes. This would occur as a result of a difference between the actual and the allowed water
- operating revenues upon which the Capital Recovery Riders are based.
- 14 Q. AS A REGULATORY SAFEGUARD TO CONSUMERS AND TO SERVE THE
- 15 PUBLIC INTEREST, DOES EACH OF THE CAPITAL RECOVERY RIDERS
- 16 INCLUDE A RECONCILIATION MECHANISM IN THE EVENT THAT THE
- 17 LEVEL OF INVESTMENT, EXPENSE, OR REVENUE APPROVED VARIES
- 18 FROM THE ACTUAL COSTS?
- 19 A. Yes. As discussed earlier, the QIIP, EDI and SEC Riders are all subject to an annual
- 20 reconciliation or true-up in which the revenue received under each of the Capital Recovery
- 21 Riders for the reconciliation period will be compared to the revenue necessary for the
- 22 Company to recover its return of and return on investment plus taxes, for that QIIP, EDI
- and SEC Rider year. Any over or under recovery will be included in the calculation of the

next adjustment to the QIIP, EDI and SEC Riders. For the reason I stated earlier, the reconciliation is not part of the currently proposed change to the QIIP, EDI or SEC Riders. The Capital Recovery Rider reconciliations for the period ending December 31, 2018, will be submitted on March 1, 2019.

Q. HOW DOES THE RECONCILIATION WORK?

A.

Consistent with the approved tariffs, Tennessee American will file a reconciliation for all three Capital Recovery Riders no later than March 1, 2019. There are actually two steps to the reconciliation. The first is an adjustment for budget to actual investment. This is a regulatory oversight and public interest component of the mechanism that results in a true-up if the investment does not occur (up or down) as forecasted. The second is an adjustment for the over or under recovery of revenues as projected, including interest. In this way, the consumers are protected if sales exceed the amount authorized in the previous rate case proceeding. This could occur if there is a significant amount of customer growth, or if dry and hot conditions occur in any given year. This second adjustment also allows TAWC to adjust if sales are less than the amount authorized in the last case, as could occur with declining usage that TAWC has experienced in recent years. The reconciliation percentage, pending approval by April 1, 2019, as contemplated in the tariffs, will be applied to customer bills for 9 months in 2019.

Finally, there is also a consumer safeguard in the reconciliation process that reviews the earnings for Tennessee American during the attrition period. If it is determined that Tennessee American earned a rate of return above the authorized amount from the previous rate case during the attrition period, the amount above the authorized is an adjustment to

the customers, with interest.	This could occur if sales exceed the amount authorized in the
previous rate case as well.	

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A.

YOU ALSO INDICATED THAT TAWC HAS NOT FILED ANYTHING IN THIS PETITION TO INCLUDE THE RECONCILIATION OF THE PRODUCTION COSTS AND OTHER PASS-THROUGHS RIDER. WHY IS TAWC NOT INCLUDING THE PCOP RECONCILIATION IN THIS PETITION?

The PCOP differs from the Capital Recovery Riders, in that at the end of a year, it looks at the historical period and compares the actual production expenses to the amount of production expenses authorized in the previous rate case. It then applies an adjustment over the next year to account for any differences between the two amounts, either over or under the authorized amount. The first review period for the approved PCOP analyzed the amount of production expenses in the attrition year from the previous rate case, which was December 1, 2012 to November 30, 2013 compared to the actual amount of production expenses that occurred between December 1, 2012 and November 30, 2013. The expenses in the attrition period were actually less than authorized in the case, so under the approved PCOP, TAWC applied a credit adjustment to customers.

The subsequent period approved for review in the tariff is defined as the twelve months subsequent to the attrition period, and every twelve-month period after that. Docket No. 15-00001 looked at the review period for the PCOP from December 1, 2013 through November 30, 2014. Docket No. 15-00131 looked at the review period for the PCOP from December 1, 2014 through November 30, 2015. Docket No. 16-00148 looked at the review period for the PCOP from December 1, 2015 through November 30, 2016. Docket No. 18-00009 looked at the review period for the PCOP from December 1, 2016

through November 30, 2017. The next review period for the PCOP will be December 1,

2 2017 through November 30, 2018. Because that review period is not complete, there is

nothing regarding the PCOP in this Petition. TAWC anticipates filing the reconciliation

of the PCOP in a separate petition.

5 Q. WILL THE PCOP HAVE A TWO-STEP RECONCILIATION PROCESS?

A. Yes. Similar to the Capital Recovery Riders, the PCOP reconciliation has 1) a reconciliation of the actual expenses in the historical review period to the authorized levels in the previous rate case; and 2) a reconciliation of the implementation of the PCOP during that same historical review period. In Docket No. 15-00001, the TPUC approved a single reconciliation of the PCOP.

11 Q. WHEN DOES TAWC ANTICIPATE FILING THE PCOP RECONCILIATION?

12 A. TAWC anticipates filing the reconciliation on the PCOP Rider by January 15, 2018. As
13 set forth in the tariffs, new PCOP rates are anticipated to be effective by February 14, 2019.
14 TAWC recently requested a tariff change to allow 15 more days to the filing date and
15 effective date than was originally approved in 13-000130. This request was accepted by
16 the Commission.

Q. WHAT IS THE PROPOSED ADJUSTED QIIP RIDER?

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A. TAWC is proposing a QIIP Rider that would result in an annualized revenue recovery of \$6,024,341 for the 2019 calendar year or a surcharge of 12.80%. The surcharge is a cumulative amount since 2014. Again, the annualized revenue recovery is the monthly surcharge, times 12 months, to cover the cost to support all of the QIIP capital investment. This is an increase of requested QIIP Riders surcharge recovery from the previous year of

- \$1,293,703 and an increase in the total QIIP Rider surcharge from the previous year of 1 2.75%. 2
- 3 Q. HAS TENNESSEE AMERICAN FILED A TARIFF ADDRESSING THE PROPOSED QIIP RIDER? 4
- Yes. A new tariff Thirteenth Revised Sheet No. 12 Riders 1 reflects all three Capital 5 A.
- Recovery Riders and is attached to my testimony as Petitioner's Exhibit Proposed Sheet 6
- No. 12- Riders MLS. 7
- Q. WHAT IS THE PROPOSED EDI RIDER? 8
- 9 A. TAWC is proposing an EDI Rider that would result in an annualized revenue recovery of 10 \$320,794 for the 2019 calendar year or a surcharge of 0.68%. The surcharge is a cumulative amount. Again, the annualized revenue recovery is the monthly surcharge, 11 12 times 12 months, to cover the cost to support all of the EDI capital investment. This is an increase in the requested EDI Rider surcharge recovery from the previous year of \$126,249 13 and an increase in the total EDI Riders surcharge over the previous year of 0.27%. Again, 14 15 this is shown on the new tariff Thirteenth Revised Sheet No. 12 – Riders – 1 which reflects 16 all three Capital Recovery Riders and is attached to my testimony as Petitioner's Exhibit 17
 - Proposed Sheet No. 12- Riders MLS.

Q. WHAT IS PROPOSED SEC RIDER? 18

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TAWC is proposing a SEC Rider that would result in an annualized revenue recovery of \$3,537,646 for the 2019 calendar year or a surcharge of 7.52%. Again, the annualized revenue recovery is the monthly surcharge, times 12 months, to cover the cost to support all of the SEC capital investment. This is an increase in the requested SEC Rider surcharge recovery from the previous year of \$728,261 and an increase in the total SEC Rider

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- Revised Sheet No. 12 Riders 1 which reflects all three Capital Recovery Riders and is
- attached to my testimony as <u>Petitioner's Exhibit Proposed Sheet No. 12- Riders MLS</u>.
- The sum of the three riders is an increase of 4.57% on the current base bill.
- 5 Q. IN DOCKET NO. 18-00039, TAWC WAS ORDERED TO "TRACK AND
- 6 ACCUMULATE MONTHLY IN A DEFERRED ACCOUNT THE PORTION OF
- 7 ITS REVENUE REPRESENTING THE DIFFERENCE BETWEEN THE COST OF
- 8 SERVICE APPROVED BY THE COMMISSION IN ITS MOST RECENT RATE
- 9 CASE AND THE COST OF SERVICE THAT WOULD HAVE RESULTED HAD
- THE PROVISION FOR FEDERAL INCOME TAXES BEEN BASED ON 21%
- 11 RATHER THAN 35%." DID TAWC COMPLY WITH THE ORDER?
- 12 A. Yes, the Company has been tracking and accumulating monthly, in a deferred account, the
- revenue authorized in its most recent rate case that was associated with a 35%, rather than
- a 21% federal income tax rate. I'll refer to this as "TCJA Deferred Revenue"
- 15 Q. IN DOCKET 18-00039, TAWC RECOMMENDED UTILIZING THE TCJA
- 16 DEFERRED REVENUE AS AN OFFSET TO INCREASES IN THE CAPITAL
- 17 RECOVERY RIDERS. DOES TAWC STILL RECOMMEND THAT?
- 18 A. Yes we do.
- 19 O. WHAT IS THE CURRENT BALANCE OF TCJA DEFERRED REVENUE?
- 20 A. As of October 31, 2018 the balance was \$1,599,454.

1	Q.	WHAT DOES TAWC PROJECT THE BALANCE TO BE FOR A FULL YEAR OF
2		TCJA DEFERRED REVENUE?

- A. TAWC is deferring 4.32% of billed base rate revenue, so the total amount to be deferred each year will vary depending upon billed base rate revenue. However, if billed base rate revenue were consistent with those authorized in Docket No. 12-0049, the total annual deferral would be just over \$2 million
- 7 Q. DOES TAWC PROPOSE TO REVIEW THE METHODOLOGY FOR THE 8 CALCULATIONS OF THE DEFERRED AMOUNT IN THIS PROCEEDING?
- 9 A. No, it does not. There is a separate Docket No. 18-00039 that has been established to
 10 review and investigate the impact of lowering the corporate tax rate from 35% to 21%.
 11 TAWC recommends that the methodology for calculating the amount of tax savings
 12 continue in that Docket. TAWC is simply proposing at this time a method for allowing
 13 customers to begin to realize the benefit of those savings.
- 14 Q. IN DOCKET 18-00039, TAWC ALSO RECOMMENDED USING EXCESS
 15 ACCUMULATED DEFERRED INCOME TAX ("ADIT") NORMALIZATION
 16 RESULTING FROM THE TCJA TO OFFSET THE CAPITAL RECOVERY
 17 RIDERS. DOES TAWC STILL RECOMMEND THAT?
- A. TAWC still recommends that excess ADIT normalization, once reliably calculated, be used as an offset to Capital Recovery Rider increases or reconciliations. However, at this time, the TCJA Deferred Revenue is estimated to be adequate to offset the \$2.1 million 2019 Capital Recovery Rider increase, and thus the excess ADIT can continue to be deferred for the customers' benefit.

Q. WHY DID TAWC MAKE A RECOMMENDATION TO USE TCJA DEFERRED REVENUE TO OFFSET THE CAPITAL RECOVERY RIDERS?

As discussed in TAWC's testimony in Docket No. 18-00039, TAWC identifies three primary benefits to this plan (in addition to the Capital Recovery Rider tax expense savings already provided in 2018). First, customers can enjoy more than \$19 million of Rider eligible infrastructure improvements without any bill increase in 2019, a savings of \$2.1 million for our customers. Second, by allowing TCJA Revenue Deferral throughout 2018 for base rate tax expense savings, the Commission has enabled TAWC to maintain cash flows and financial stability, thus preserving lower cost capital for customers and protecting TAWC's ability to make essential infrastructure improvements. And third, TAWC's customers have not been subject to a whipsaw effect, by having rates lowered only to be raised again in short order.

Q. HOW WOULD THE TCJA OFFSET PROCESS WORK?

A.

As noted above, TAWC has been deferring revenue since January 1, 2018. TAWC would continue to defer revenue monthly. However, in order to start flowing back the benefits of this deferral, TAWC would simply offset the amount that would have been billed to customers for the 2019 Capital Recovery Riders increase through a surcharge credit. The surcharge credit would not need to be a separate line item on the bill, but rather could simply roll up to the Capital Recovery Riders line. Therefore, customers would not see a change in their bill. However, by creating a separate surcharge credit, the accounting for the foregone Capital Recovery Rider revenue could be tracked, and a corresponding amount of TCJA Deferred Revenue could be amortized.

If approved, TAWC will run a notice on the bill that informs customers that the Capital Recovery Riders for 2019 are being offset by savings from the 2017 TCJA.

Q. WHAT IS THE IMPACT TO THE AVERAGE CUSTOMER BILL?

If the TPUC authorized the proposed offset, the impact to the average customer bill from the Capital Recovery Riders proposed in this docket will be zero. For a typical residential customer living in the City of Chattanooga, and using an average of 4,154 gallons per month, the current increase in the proposed Capital Recovery Riders would represent an increase in their bill of \$0.99 per month, or \$11.88 per year. The TCJA offset would decrease the bill by the same amounts, so no net increase would be charged. While the overall sum of the three riders, before offset, is 4.57% as noted above, this is a total increase of 3.93% over the current monthly average bill that includes the previously approved Capital Recovery Riders. This is because the overall sum of the three riders of 4.57% continues to be calculated on the revenues authorized in 2012. The cumulative impact on

customer's bills are summarized in Table 1:

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Table 1
Cumulative Impact of Capital Recovery Riders
Tennessee American Water Company

TPUC Docket No.	Effective Date	Annual Percentage Increase in Capital Recovery Riders	Capital Recovery Riders Cumulative Total	Chat Av	Increase to tanooga erage nual Bill	Chat	verage tanooga ual Bill*	Inc in	nnual crease Total Bill	Annual Increase from Previous Bill
12-00049	11/1/2012					\$	21.56			
13-00130	4/15/2014	1.080%	1.080%	\$	0.23	\$	21.79	\$	0.23	1.080%
14-00121	6/30/2015	4.640%	5.720%	\$	1.23	\$	22.79	\$	1.00	4.590%
15-00111	3/15/2016	4.660%	10.380%	\$	2.24	\$	23.79	\$	1.00	4.408%
16-00126	3/14/2017	3.570%	13.950%	\$	3.01	\$	24.56	\$	0.77	3.234%
17-00124	4/10/2018	2.480%	16.430%	\$	3.54	\$	25.10	\$	0.53	2.18%
Proposed TCJA Offset	1/1/2019 1/1/2019	4.570% -4.570%	21.000% 16.430%	\$ \$	4.53 3.54	\$ \$	26.08 25.10	\$ \$	0.99	3.93% 0.00%

^{*} The purpose of this table is to aid in the the overall view of the impact of the Capital Recovery Riders and does not include reconciliaitions and the PCOP.

I am also providing a table reflecting the detailed changes for each Capital Recovery Rider, including the reconciliations. This is attached to my testimony as <u>Petitioner's Exhibit – Annual Approved Tariffs – MLS</u>. A summary of the impact for the average residential customer for each of Tennessee American's water rates is attached to my testimony as <u>Petitioner's Exhibit Average Impact – MLS</u>.

8 Q. ARE THE QIIP RIDER, THE EDI RIDER AND THE SEC RIDER STILL IN THE 9 PUBLIC INTEREST?

10 A. Yes. As I noted at the outset herein, and as outlined by TAWC in much detail and with 11 supporting documentation TPUC Docket No. 13-00130, the QIIP, the EDI and the SEC

Riders are mutually beneficial to the ratepayers, the public, and TAWC. Among other things, the Capital Recovery Riders reduce the need for general rate cases, lessen the occurrence of consumer "rate shock," support the maintenance and improvement of essential infrastructure, support opportunities for successful economic development, growth and job creation, ensure safety and reliability, and allow for more efficient, streamlined regulation. The ratepayers and the public benefit from the safety and reliability components and from the more seamless and timely capital investment in infrastructure, coupled with the related support to economic development, growth and job creation. The Company benefits from a more efficient, streamlined regulatory process that presents TAWC with the opportunity to timely recover its expenses and earn a fair rate of return on its investments. Without the approved alternative rate mechanisms pursuant to Tenn. Code Ann. Section 65-5-103 et. seq., and specifically without the Capital Recovery Riders, TAWC would be preparing another general rate case. Tennessee American understands that the purpose of the new legislation — Tenn. Code Ann. § 65-5-103 et. seq., — was, in part, to encourage an increase in certain types of infrastructure investment and recovery by utilities, while reducing the costs to consumers and utilities for regulatory review and implementation, and promoting rate gradualism for consumers. TAWC believes the approved Capital Recovery Riders are achieving that goal.

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As reflected in the evidentiary record in TPUC Docket No. 13-00130, the US Environmental Protection Agency and the American Society of Civil Engineers have published reports regarding the significant capital needs for water and wastewater infrastructure in the United States, including here in Tennessee. A substantial portion of TAWC's distribution infrastructure is between 50 and 100 years old, and TAWC needs to

continue to invest in replacing its infrastructure in order to meet its obligation to provide safe, reliable drinking water to its customers. The QIIP Rider is assisting TAWC in responsibly and strategically addressing the systems' infrastructure replacement needs, while helping to increase the time between rate cases and reducing the cost of rate cases to its Customers. As testified to by Company Witness Brent O'Neill, TAWC has strategically focused its efforts on mains with the highest maintenance concerns.

As reflected in the evidentiary record in TPUC Docket No. 14-00121, the presence of the new Coca Cola facility in Chattanooga, along with the accompanying jobs and other associated community and public benefits, shows that the EDI Rider is working as intended by the Tennessee General Assembly. Moreover, the Company's cooperative and coordinated efforts with the City of Chattanooga to timely address crucial safety, health and reliability issues, including those identified in the US Environmental Protection Agency's April 2013 Consent Decree issued to the City of Chattanooga requiring improvements to the City's sanitary sewer system, demonstrates that the SEC Rider is serving our Customers and the public interest as anticipated.

As it pledged to do when it first submitted the Capital Recovery Riders for review and consideration by the agency in TPUC Docket No. 13-00130, TAWC has been able to partner with the community to promote economic development, which we believe to be consistent with Tenn. Code Ann. § 65-5-103 et. seq., consistent with the approved QIIP Rider, EDI Rider, and SEC Rider, and in the public interest. Under the Commission's oversight and within the safeguards set forth in the approved tariffs, TAWC has been able to increase infrastructure replacement and meet environmental compliance needs on a timely basis, which we believe to be in the public interest.

- 1 Q. ARE YOU AWARE OF ANY CHANGES IN MARKET CONDITION OR OTHER
- 2 FACTORS THAT MAY AFFECT WHETHER THESE RIDERS ARE STILL IN
- 3 THE PUBLIC INTEREST?
- 4 A. No, I am not.
- 5 Q. WHAT DO YOU RECOMMEND WITH REGARD TO THIS PETITION?
- 6 A. I recommend that the Petition be approved for the increase in the QIIP, EDI and SEC
- 7 Riders, effective January 1, 2019.
- **8 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**
- 9 A. Yes. I reserve the ability to submit further testimony as is appropriate.

Tennessee American Water Company Qualified Infrastructure Improvement Program (QIIP) Economic Development Investment Rider (EDI) Safety and Environmental Compliance Rider (SEC) Summary Page

Line Number	Rate Mechanism	Proposed Revenue quirement*	a Percentage Applied to Bill*	Rec	Revenue quirement as norized - 2018 (1)	Percentage Applied to Bill as Authorized (1)	Adj	Impact of Proposed ustments on Revenue equirement	b Impact of Proposed Adjustments on Bill Percentage	2019 TCJA Credit at -4.57%	d = b+c Total Impact of Proposed Adjustments and TCJA Credit on Bill	e = a+c Total Percentage Applied to Bill After TCJA Credit
2	QIIP	\$ 6,024,341	12.80%	\$	4,730,639	10.05%	\$	1,293,703	2.75%	-2.75%	0.00%	10.05%
3 4	EDI	320,794	0.68%		194,545	0.41%		126,249	0.27%	-0.27%	0.00%	0.41%
5 6	SEC	3,537,646	7.52%		2,809,385	5.97%		728,261	1.55%	-1.55%	0.00%	5.97%
7 8	Total	\$ 9,882,782	21.00%	\$	7,734,569	16.43%	\$	2,148,212	4.57%	-4.57%	0.00%	16.43%
9			1.2			·		· · · · · · · · · · · · · · · · · · ·		0	V	· · · · · · · · · · · · · · · · · · ·

^{*}Includes Def. Tax, Accum. Depreciation, Forfeited Discount Gross Up

10

⁽¹⁾ From prior docket #17-00124 order that approved the capital rider surcharges

Petitioner's Exhibit -- Average Impact -- MLS Page 1 of 1

Tennessee American Water Company Qualified Infrastructure Improvement Program (QIIP) Economic Development Rider (EDI) Safety and Environmental Compliance Rider (SEC) Average Residential Bill Impact

5/8" Meter and Usage of 5.55 CCF (or 41.54 100 Gallons)

Line Number	Area	Ch	ervice narge - " Meter		lumetric Charge		Before harges	Surc	Authorized Capital Charges at 16.43%	20	17 PCOP at -1.25%	A	otal 2018 uthorized urcharges		2019 QIIP urcharge at 2.75%		2019 EDI ircharge at 0.27%		2019 SEC urcharge at 1.55%	Cap	Proposed pital Rider justments		l Proposed rcharges
2	Chattanooga	\$	13.96	\$	7.60	\$	21.56	\$	3.54	\$	(0.27)	\$	3.27	\$	0.59	\$	0.06	\$	0.33	\$	0.98	\$	4.25
3 4	Lookout Mountain	\$	15.66	\$	12.39	\$	28.05	\$	4.61	\$	(0.35)	\$	4.26	\$	0.77	\$	0.08	\$	0.43	\$	1.28	\$	5.54
5 6	Lakeview	\$	15.66	\$	9.16	\$	24.82	\$	4.08	\$	(0.31)	\$	3.77	\$	0.68	\$	0.07	\$	0.38	\$	1.13	\$	4.90
7 8	Suck Creek	\$	30.60	\$	16.12	\$	46.72	\$	7.68	\$	(0.58)	\$	7.09	\$	1.28	\$	0.13	\$	0.72	\$	2.13	s	9.22
9 10	Whitwell	Ś	42.03	s	35.68	٠,	77.71	¢	12.77	¢	(0.97)	\$	11.80	\$	2.14	\$	0.21	\$	1.20	<u> </u>	3.55	<u>.</u>	15.35
11	Willewell	,	42.03	7	33.00		77.71	Ÿ	12.77	7	(0.57)	<u>~</u>	11.00	,	2.14	Ÿ	0.21	Ţ	1.20		3.33		13.33
12 13																							

Tennessee American Water Qualified Infrastructure Improvement Program (QIIP) Calculation of QIIP Revenue Requirement

		QIIP
Line Number	Description	Company Totals
1	Additions Subject to QIIP:	\$ 49,542,272
2	Plus: Cost of Removal less Salvage	6,795,685
3	Less: Contributions in Aid to Construction (CIAC)	2,284,346
4	Less: Deferred Income Taxes	565,451
5	Less: Accumulated Depreciation	2,575,012
6	Net Investment Supplied QIIP Additions:	\$ 50,913,147
7		
8	Pre-Tax Rate of Return:	8.45145%
9	Pre-Tax Return on Additions:	\$ 4,302,900
10		
11	Depreciation Expense on QIIP Additions:	959,335
12		
13	Operational Expenses Related to QIIP	w
14		
15	Property and Franchise Taxes Associated with QIIP:	574,282
16		
17	QIIP Revenues:	\$ 5,836,517
18		
19	Revenue Taxes	3.191%
20	QIIP Revenues with Revenue Taxes	\$ 6,028,900
21		
22	QIIP APP Revenue Reduction	(4,558)
23		
24	Total QIIP Revenues with Revenue Taxes & APP Reduction	\$ 6,024,341
25		-
26	Service Charge and Volumetric Revenues as Per Docket No. 12-00049	\$ 47,073,724
27		
28	QIIP Percentage to Apply to Bill:	12.80%
29		

____1 ___ 2 ___ 3 ___ 4 ___ 5 ___ B ___ C

QIIP =Col 1 + Col 2

Line # 1 2	Investment by Plant Account 304300 Recurring Projects	Account Description Struct & Imp-Treatment	s	Additions	Re	etirements (94,900)	\$ CIAC -	(fo	t Investments r Property Tax Calculation)	t of Removal et of Salvage	cumulated erred Income Taxes (5,995)	 ecumulated epreciation
3	Investment Projects		12.50	6,263,393		(180,782)	-		6,082,611	1,373,729	96,056	(770,644)
4	Total QIP		\$	6,263,393	\$	(275,681)	\$ -	\$	5,987,711	\$ 1,373,729	\$ 90,061	\$ (753,387)
5			-				-					
6	304301	Struct & Imp-Treatment-Dpr Paint										
7	Recurring Projects		\$	1,250,689	\$	(170,157)	\$ -	\$	1,080,532	\$ 661,770	\$ 120,130	\$ (451,641)
8	Investment Projects			-			3-82	24	(*			-
9	Total QIP		\$	1,250,689	\$	(170,157)	\$ -	\$	1,080,532	\$ 661,770	\$ 120,130	\$ (451,641)
10												
11	320100	WT Equip Non-Media										
12	Recurring Projects		\$	259,932	\$	(123,785)	\$ -	\$	136,147	\$ 89,500	\$ (55,945)	\$ (43,061)
13	Investment Projects			2,493,903		(366,075)	-		2,127,828	53,846	(66,650)	(68,572)
14	Total QIP		\$	2,753,835	\$	(489,860)	\$ -	\$	2,263,976	\$ 143,346	\$ (122,596)	\$ (111,633)
15												
16	320200	Water Trmt Equip Filter Media										
17	Recurring Projects		\$	52,740	\$	(36,378)	\$: - :	\$	16,362	\$ 206,460	\$ 4,084	\$ (18,445)
18	Investment Projects						-			(18)	-	-
19	Total QIP		\$	52,740	\$	(36,378)	\$ 750	\$	16,362	\$ 206,460	\$ 4,084	\$ (18,445)
20										-		
21	330000	Dist Reservoirs & Standpipes										
22	Recurring Projects		\$	23,274	\$		\$ -	\$	23,274	\$ 0	\$ (5,888)	\$ (10,917)
23	Investment Projects						-		-	-		
24	Total QIP		\$	23,274	\$	-	\$ -	\$	23,274	\$ 0	\$ (5,888)	\$ (10,917)
25												
26	330003	Tank Repainting										
27	Recurring Projects		\$	1,948,111	\$	(222,583)	\$ 180	\$	1,725,527	\$ 418,192	\$ 37,752	\$ (261,410)
28	Investment Projects		-	-		-	180		•	 	=	
29	Total QIP		\$	1,948,111	\$	(222,583)	\$ -	\$	1,725,527	\$ 418,192	\$ 37,752	\$ (261,410)
30					01							
31	330100	Elevated Tanks & Standpipes										
32	Recurring Projects		\$	187,700	\$	-	\$ -	\$	187,700	\$, -	\$ (1,555)	\$ (9,080)
33	Investment Projects					2	(2)		-	1729	-	
34	Total QIP		\$	187,700	\$	-	\$ -	\$	187,700	\$ -	\$ (1,555)	\$ (9,080)
35												
36	330200	Ground Level Tanks										
37	Recurring Projects		\$	1,004,940	\$	(446)	\$ -	\$	1,004,494	\$ 977	\$ (7,152)	\$ (32,197)
38	Investment Projects					-	 			 8,51	= =	 -
39	Total QIP		\$	1,004,940	\$	(446)	\$ -	\$	1,004,494	\$ 977	\$ (7,152)	\$ (32,197)
40			3									

____1 ___ 2 ___ 3 ___ 4 ___ 5 ___ B ___ C

=Col 1 + Col 2

QIIP

Line #	investment by Plant Account	Account Description		Additions	R	etirements		CIAC	(fo	et Investments r Property Tax Calculation)		t of Removal		cumulated erred Income Taxes		ccumulated epreciation
41	331001	Transmission & Distribution Mains														
42	Recurring Projects		\$	19,453,797	\$	(1,171,172)	\$	(2,133,047)	\$	18,282,626	\$	1,228,731	\$	(428, 242)	\$	(501,342)
43	Investment Projects			2,414,209				-		2,414,209	_			(20,688)		(17,410)
44	Total QIP		\$	21,868,006	\$	(1,171,172)	\$	(2,133,047)	\$	20,696,835	\$	1,228,731	\$	(448,930)	\$	(518,752)
45																
46	333000	Services														
47	Recurring Projects		\$	3,638,217	\$	(122,451)	\$	(29,876.59)	\$	3,515,766	\$	908,872	\$	(81,262)	\$	(93,389)
48	Investment Projects					(*)										140
49	Total QIP		\$	3,638,217	\$	(122,451)	\$	(29,877)	\$	3,515,766	\$	908,872	\$	(81,262)	\$	(93,389)
50									·							
51	334100	Meters														
52	Recurring Projects		\$	1,288,164	\$	(3,421,270)	\$		\$	(2,133,106)	\$	410,752	\$	(55,613)	\$	125,183
53	Investment Projects			-		-		-	-			-		-		-
54	Total QIP		\$	1,288,164	\$	(3,421,270)	\$		\$	(2,133,106)	\$	410,752	\$	(55,613)	\$	125,183
55													id —			
56	334200	Meter Installations														
57	Recurring Projects		\$	7,629,951	\$	(957,191)	\$	23	\$	6,672,761	\$	1,392,981	\$	(72,343)	\$	(358,513)
58	Investment Projects			(*)						-		-				(=)
59	Total QIP		\$	7,629,951	\$	(957,191)	\$		\$	6,672,761	\$	1,392,981	\$	(72,343)	\$	(358,513)
60			-													
61	335000	Hydrants														
62	Recurring Projects	200	\$	1,425,916	\$	(169,414)	\$	(121,423)	\$	1,256,502	\$	49,875	\$	(22,311)	\$	(63,700)
63	Investment Projects			-						_						
64	Total QIP		\$	1,425,916	\$	(169,414)	\$	(121,423)	\$	1,256,502	\$	49,875	Ś	(22,311)	\$	(63,700)
65																,
66	346190	Hydrants														
67	Recurring Projects		\$	_	\$		Ś		\$	2	Ś	2	Ś	-	Ś	19.1
68	Investment Projects		: 5 33	207,335	•	7-1		-	11701	207,335	T.		*	171	300	(17,131)
69	Total QIP		Ś	207,335	\$	-	\$		\$	207,335	\$		\$	171	\$	(17,131)
70			_		<u> </u>		<u> </u>		<u> </u>		<u> </u>		<u> </u>		<u> </u>	(27,252)
71	Expense:															
72			\$		\$		\$		\$		\$		\$		Ś	
73			~		7		*		7	-	*		~	-	~	
74				100		1.5		D 20								100
75	Total		Ś		Ś		Ś		Ś		Ś		Ś		Ś	
76							<u> </u>		_		Ť		<u> </u>		_	
77	Total		\$	49,542,272	\$	(7,036,604)	\$	(2,284,346)	\$	42,505,668	\$	6,795,685	\$	(565,451)	\$	(2,575,012)

				6		7		8		9		10		11	-	12
		QIIP	=Co	ls 1 + 3 + 5 + B + C		=Col 6 x .451452%		Col 1+2+3)x reciation Rate	Rate	4 x Prop Tax e) + (Col 4 x chise Rate)			=Col	s 7 + 8 + 9 + 10		col 11 / (1 - 3.191%)
Line#	Investment by Plant Account	Account Description		ings Basis Net stment (Rate Base)		nings Basis x -Tax Return (PTR)		epreciation Expense	2000	erty Tax &	- C	erational penses		tal Before venue Tax		otal With venue Tax
1	304300	Struct & Imp-Treatment							11							
2	Recurring Projects		\$	11,261	\$	952	\$	(3,900)	\$	(1,282)	\$		\$	(4,231)	\$	(4,370)
3	Investment Projects			6,962,533		588,435		249,995		82,180	100			920,611	200	950,956
4	Total QIP		\$	6,973,794	\$	589,387	\$	246,095	\$	80,898	\$		\$	916,380	\$	946,586
5								.,					218		81	
6	304301	Struct & Imp-Treatment-Dpr Paint														
7	Recurring Projects		\$	1,580,948	\$	133,613	\$	130,312	\$	14,599	\$		\$	278,524	\$	287,705
8	Investment Projects					-										-
9	Total QIP		\$	1,580,948	\$	133,613	\$	130,312	\$	14,599	\$		\$	278,524	\$	287,705
10																
11	320100	WT Equip Non-Media														
12	Recurring Projects		\$	250,425	\$	21,165	\$	1,484	\$	1,839	\$		\$	24,488	\$	25,295
13	Investment Projects		_	2,412,527		203,894	_	23,193	-	28,748				255,835		264,268
14	Total QIP		\$	2,662,952	\$	225,058	\$	24,677	\$	30,588	\$		\$	280,323	\$	289,563
15	10.00.2000															
16	320200	Water Trmt Equip Filter Media	-	12.5.0122.23	0.20						10		0.		2	
17	Recurring Projects		\$	244,839	\$	20,692	\$	5,512	\$	221	\$	-	\$	26,426	\$	27,297
18	Investment Projects		_				_									
19	Total QIP		\$	244,839	\$	20,692	\$	5,512	\$	221	\$	•	\$	26,426	\$	27,297
20																
21	330000	Dist Reservoirs & Standpipes						114414					1201			
22	Recurring Projects		\$	6,470	\$	547	\$	484	\$	314	\$		\$	1,345	\$	1,390
23 24	Investment Projects		\$	6 470	_	547	_		_		_					
	Total QIP		<u> </u>	6,470	\$	547	\$	484	\$	314	\$	-	\$	1,345	\$	1,390
25 26	330003	Tools Domainsing														
27	Recurring Projects	Tank Repainting	\$	2,142,645	\$	181,085	\$	191,188	\$	22.212	Ś		\$	205 506		400 525
28	Investment Projects		Þ	2,142,045	Þ	181,085	Þ	191,188	Þ	23,313	>		Þ	395,586	\$	408,625
29	Total QIP		\$	2,142,645	\$	181,085	\$	191,188	\$	23,313	\$		Ś	395,586	\$	408,625
30	Total Qii		<u> </u>	2,142,043	<u> </u>	181,003	<u> </u>	131,100	<u> </u>	25,515	<u> </u>		-	333,360	<u> </u>	408,023
31	330100	Elevated Tanks & Standpipes														
32	Recurring Projects	Lievated falls a Stallapipes	\$	177,065	\$	14,965	\$	5,143	\$	2,536	Ś		\$	22,643	\$	23,390
33	Investment Projects		¥	177,005	7	14,505	7	5,145	•	2,550	3	- 0	•	22,043	J	23,390
34	Total QIP		\$	177,065	\$	14,965	\$	5,143	\$	2,536	\$		\$	22,643	\$	23,390
35			<u> </u>	177,005	<u> </u>	1,,505	Ť	3,213		2,550				22,015	<u> </u>	23,330
36	330200	Ground Level Tanks														
37	Recurring Projects	Ground Level rains	\$	966,568	\$	81,689	\$	27,523	\$	13,571	\$		\$	122,784	\$	126,831
38	Investment Projects		*	500,500	~	-	~		~	13,3,1	~	-	~	-	~	120,831
39	Total QIP		\$	966,568	\$	81,689	\$	27,523	Ś	13,571	\$	-	\$	122,784	Ś	126,831
40	•			,-	_		_		_				_		_	

				6	_	7		8		9		10		11		12
		QIIP	=Co	ols 1 + 3 + 5 + B + C		=Col 6 x 8.451452%		Col 1+2+3)x reciation Rate	Rate	l 4 x Prop Tax e) + (Col 4 x nchise Rate)			=Co	ols 7 + 8 + 9 + 10		Col 11 / (1 - 3.191%)
Line #	Investment by Plant Account	Account Description		nings Basis Net estment (Rate Base)		rnings Basis x e-Tax Return (PTR)	De	epreciation Expense		perty Tax & nchise Fees		perational expenses		otal Before evenue Tax		otal With
41	331001	Transmission & Distribution Mains	_	10000000		***************************************								_		
42	Recurring Projects		\$	17,619,898	\$	1,489,137	\$	201,870	\$	247,011	\$	-	\$	1,938,018	\$	2,001,899
43	Investment Projects			2,376,111		200,816	3-34	30,178		32,618	30///			263,611	*	272,300
44	Total QIP		\$	19,996,009	\$	1,689,953	\$	232,047	\$	279,629	\$		\$	2,201,630	\$	2,274,199
45																
46	333000	Services														
47	Recurring Projects		\$	4,342,563	\$	367,010	\$	38,693	\$	47,501	\$		\$	453,204	\$	468,142
48	Investment Projects		250	23 1923		-		-				-				•
49	Total QIP		\$	4,342,563	\$	367,010	\$	38,693	\$	47,501	\$		\$	453,204	\$	468,142
50																
51	334100	Meters														
52	Recurring Projects		\$	1,768,486	\$	149,463	\$	(159,343)	\$	(28,820)	\$	-	\$	(38,700)	\$	(39,976)
53	Investment Projects		a.c	-						14				120		-
54	Total QIP		\$	1,768,486	\$	149,463	\$	(159,343)	\$	(28,820)	\$	-	\$	(38,700)	\$	(39,976)
55			M					-								
56	334200	Meter Installations														
57	Recurring Projects		\$	8,592,076	\$	726,155	\$	182,166	\$	90,154	\$		\$	998,475	\$	1,031,387
58	Investment Projects			-	_											
59	Total QIP		\$	8,592,076	\$	726,155	\$	182,166	\$	90,154	\$	-	\$	998,475	\$	1,031,387
60												_				
61	335000	Hydrants														
62	Recurring Projects		\$	1,268,357	\$	107,195	\$	26,107	\$	16,976	\$	-	\$	150,278	\$	155,231
63	Investment Projects			-						-				42.		- 2
64	Total QIP		\$	1,268,357	\$	107,195	\$	26,107	\$	16,976	\$		\$	150,278	\$	155,231
65													20.00			
66	346190	Hydrants														
67	Recurring Projects		\$. *	\$		\$	-	\$		\$		\$	(# 1)	\$	
68	Investment Projects			190,375	-	16,089		8,729		2,801		-		27,620		28,530
69	Total QIP		\$	190,375	\$	16,089	\$	8,729	\$	2,801	\$		\$	27,620	\$	28,530
70																
71	Expense:				12		2		9		4		-		4	
72			\$	-	\$	-	\$	-	\$	•	\$	-	\$	-	\$	-
73				-		*		-		•		*		:#X		-
74 75	Total		Ċ	-	\$		\$		\$		\$		-	•	_	
	Total		\$		-		-		-		-		\$	-	\$	
76 77	Total		\$	E0 013 147	\$	4 303 000	\$	050 335	\$	E74 303	-		\$	E 936 E17	\$	6.039.000
//	IUlai		-	50,913,147	-	4,302,900	-	959,335	-	574,282	\$		<u> </u>	5,836,517	-	6,028,900

Tennessee American Water Economic Development Investment (EDI) Calculation of EDI Revenue Requirement

			EDI
Line Number	Description	Com	pany Totals
1	Additions Subject to EDI:	\$	2,893,001
2	Plus: Cost of Removal less Salvage		1,904
3	Less: Contributions in Aid to Construction (CIAC)		22,345
4	Less: Deferred Income Taxes	-	44,119
5	Less: Accumulated Depreciation		72,280
6	Net Investment Supplied EDI Additions:	\$	2,756,162
7	2	·	
8	Pre-Tax Rate of Return:		8.45145%
9	Pre-Tax Return on Additions:	\$	232,936
10		68	
11	Depreciation Expense on EDI Additions:		38,723
12			
13	Operational Expenses Related to EDI		-
14			
15	Property and Franchise Taxes Associated with EDI:		39,062
16		18-	<u>-</u>
17	EDI Revenues:	\$	310,721
18			
19	Revenue Taxes		3.191%
20	EDI Revenues with Revenue Taxes	\$	320,963
21			
22	EDI APP Revenue Reduction		(168)
23			
24	Total EDI Revenues with Revenue Taxes & APP Reduction	\$	320,794
25			
26	Service Charge and Volumetric Revenues as Per Docket No. 12-00049	\$	47,073,724
27			
28	EDI Percentage to Apply to Bill:	<u></u>	0.68%
29			

Tennessee American Water Company Economic Development Investment (EDI) Investment Worksheet

____1 ___ 2 ___ 3 ___ 4 ___ 5 ___ B ___ C

EDI =Col 1 + Col 2

29

Line #	Investment by Plant Account	Account Description		Additions	Re	tirements		CIAC	(for	Investments Property Tax Calculation)		et of Removal	cumulated rred Income Taxes		cumulated preciation
1	331001	Transmission & Distribution Mains													
2	Recurring Projects		\$	2,593,798	\$		\$	-	\$	2,593,798	\$	1.5	\$ (41,246)	\$	(59,032)
3	Investment Projects					-		-				-	 -		-
4	Total QIP		\$	2,593,798	\$	-	\$	-	\$	2,593,798	\$	-	\$ (41,246)	\$	(59,032)
5										-				121	
6	333000	Services													
7	Recurring Projects		\$	18,398	\$	-	\$	2 .	\$	18,398	\$		\$ (295)	\$	(373)
8	Investment Projects											-			
9	Total QIP		\$	18,398	\$	-	\$		\$	18,398	\$	(=)	\$ (295)	\$	(373)
10										\.	761				
11	334300	Meter Vaults													
12	Recurring Projects		\$	44,848	\$	2	\$	-	\$	44,848	\$	-	\$ (237)	\$	(2,257)
13	Investment Projects			172		2		-		2		-	-		-
14	Total QIP		\$	44,848	\$	-	\$	-	\$	44,848	\$	-	\$ (237)	\$	(2,257)
15															
16	335000	Hydrants													
17	Recurring Projects	00 € 00 A-00580	\$	235,957	\$	(1,799)	\$	(22,345)	\$	234,158	\$	1,904	\$ (2,341)	\$	(10,618)
18	Investment Projects			(=		4		-				-	-	137.6	-
19	Total QIP		\$	235,957	\$	(1,799)	\$	(22,345)	\$	234,158	\$	1,904	\$ (2,341)	\$	(10,618)
20															
21	Expense:														
22			\$	-	Ś		\$	-	Ś	-	Ś	-	\$ -	\$	-
23			1.51			-	11751	0.00		-			-		(*)
24				-		_		-		2		-			-
25	Total		\$		\$	-	\$		\$		\$		\$ 	\$	1.0
26													 		
27	Total		\$	2,893,001	\$	(1,799)	\$	(22,345)	\$	2,891,202	\$	1,904	\$ (44,119)	\$	(72,280)
28															

Tennessee American Water Company Economic Development Investment (EDI) Investment Worksheet

				6		7	_	8	N	9		10		11		12
		EDI	=Co	ls 1 + 3 + 5 + B + C		=Col 6 x .451452%	1000	Col 1+2+3)x reciation Rate	Tax	Col 4 x Prop Rate) + (Col 4 anchise Rate)			=Cols	57+8+9+ 10		ol 11 / (1 - 3.191%)
	Investment by Plant			nings Basis Investment		nings Basis x -Tax Return	De	epreciation	Dro	perty Tax &	Or	perational	Tot	al Before	T	tal With
Line#	Account	Account Description		Rate Base)		(PTR)		Expense		nchise Fees	2.5	xpenses		enue Tax		enue Tax
1	331001	Transmission & Distribution Mains				, ,										-
2	Recurring Projects		\$	2,493,520	\$	210,739	\$	32,422	\$	35,044	\$	-	\$	278,205	\$	287,375
3	Investment Projects			-		-		-		-		-		-		-
4	Total QIP		\$	2,493,520	\$	210,739	\$	32,422	\$	35,044	\$		\$	278,205	\$	287,375
5																
6	333000	Services														
7	Recurring Projects		\$	17,730	\$	1,498	\$	204	\$	249	\$		\$	1,951	\$	2,016
8	Investment Projects							-		1=0						. - :
9	Total QIP		\$	17,730	\$	1,498	\$	204	\$	249	\$		\$	1,951	\$	2,016
10																
11	334300	Meter Vaults														
12	Recurring Projects		\$	42,354	\$	3,579	\$	1,224	\$	606	\$	-	\$	5,410	\$	5,588
13	Investment Projects									172						·=:
14	Total QIP		\$	42,354	\$	3,579	\$	1,224	\$	606	\$		\$	5,410	\$	5,588
15																
16	335000	Hydrants	SHIDA													
17	Recurring Projects		\$	202,558	\$	17,119	\$	4,872	\$	3,164	\$	-	\$	25,154	\$	25,984
18	Investment Projects		_				_		_				_			
19	Total QIP		\$	202,558	\$	17,119	\$	4,872	\$	3,164	\$		\$	25,154	\$	25,984
20	3_300000000000000000000000000000000000															
21	Expense:															
22			\$	-	\$: <u>*</u>	\$	-	\$	-	\$	-	\$		\$	((●))
23				-				-		*		-		-		-
24	Total		\$		-		_	— <u> </u>	Ś		\$		\$		<u> </u>	-
25	IULdi		-		\$		\$		Þ		<u>></u>		<u> </u>		\$	
26 27	Total		-	2,756,162	\$	222.025	\$	20 722	\$	30.063	\$		\$	210 721	-	220.062
	Total		<u>></u>	2,750,162	<u> </u>	232,936	->	38,723	>	39,062	-		<u> </u>	310,721	\$	320,963
28																

29

Tennessee American Water Safety and Environmental Compliance (SEC) Calculation of SEC Revenue Requirement

		SEC
Line Number	Description	Company Totals
1	Additions Subject to SEC:	\$ 27,467,267
2	Plus: Cost of Removal less Salvage	2,974,425
3	Less: Contributions in Aid to Construction (CIAC)	2,374,423
4	Less: Deferred Income Taxes	594,534
5	Less: Accumulated Depreciation	2,095,219
6	Net Investment Supplied SEC Additions:	\$ 27,751,939
7	Het mestment supplied see Additions.	
8	Pre-Tax Rate of Return:	8.45145%
9	Pre-Tax Return on Additions:	\$ 2,345,442
10		
11	Depreciation Expense on SEC Additions:	736,617
12		*
13	Operational Expenses Related to SEC	₽
14		
15	Property and Franchise Taxes Associated with SEC:	347,250
16		·
17	SEC Revenues:	\$ 3,429,309
18		
19	Revenue Taxes	3.191%
20	SEC Revenues with Revenue Taxes	\$ 3,542,345
21		
22	SEC APP Revenue Reduction	(4,700)
23		
24	SEC Revenues with Revenue Taxes & APP Reduction	\$ 3,537,646
25		***************************************
26	Service Charge and Volumetric Revenues as Per Docket No. 12-00049	\$ 47,073,724
27		***************************************
28	SEC Percentage to Apply to Bill:	7.52%
29		

____1___2___3___4___5__B___C

12

=Col 1 + Col 2

Line #	Investment by Plant Account	Account Description		Additions	Re	tirements		CIAC	(for	Investments Property Tax alculation)		et of Removal		ccumulated erred Income Taxes		cumulated preciation
1	304100	Structures & Improvement-Supply	- 12										2		8	-
2	Recurring Projects		\$	890,561	\$	-	\$	-	\$	890,561	\$	874	\$	(5,161)	\$	(35,573)
3	Investment Projects		_					-		-	_	-		-		-
4	Total QIP		\$	890,561	\$		\$		\$	890,561	\$	874	\$	(5,161)	\$	(35,573)
5																
6	304200	Structures & Improvement-Pump	ŭ.,				1				14.					
7 8	Recurring Projects Investment Projects		\$	1,044,136	\$	(38,642)	\$		\$	1,005,494	\$	40,720	\$	(6,128)	\$	(37,919)
9	Total QIP		Ś	1,044,136	\$	(53,264)	\$		•	(14,622)	\$	243,354	_	(330)	_	613
10	Total Qil		-	1,044,130	7	(33,204)	-		\$	990,872		284,074	\$	(6,458)	\$	(37,306)
11	304300	Structures & Improvement-WT														
12	Recurring Projects	Structures & Improvement-wi	\$	687,978	\$	(27,649)	\$		\$	660,329	\$	18,410	\$	4.364	\$	(52.470)
13	Investment Projects		Þ	4,141,710	Þ	(54,346)	Þ		>	4,087,363	Þ	1,535,662	>	4,264	>	(52,479)
14	Total QIP		Ś	4,829,688	Ś	(81,996)	\$		Ś	4,747,693	Ś	1,555,662	\$	62,919 67,183	\$	(413,844)
15	Total Qii		7	4,023,000	3	(81,990)	4		2	4,747,093	2	1,534,072	ş	67,163	3	(466,323)
16	304400	Structures & Improvement-T&D														
17	Recurring Projects	Structures & Improvement-1&D	\$	109,284	\$		\$		\$	109,284	Ś		\$	(637)	Ś	(5,165)
18	Investment Projects		7	103,204	7	8	Þ	- 0	7	105,264	÷.		Þ	(637)	2	(2,103)
19	Total QIP		\$	109,284	\$		\$		\$	109,284	\$		\$	(637)	\$	(5,165)
20	7010100		_	105,204	_		_			103,204			7	(037)		(3,103)
21	304500	Structures & Improvement - General														
22	Recurring Projects	Structures & Improvement - General	Ś	82,913	Ś	_	\$		\$	82,913	\$	277	\$	(943)	\$	(2,639)
23	Investment Projects		7	1,062,411	•	-	,		7	1,062,411	7	-	7	(138,237)	7	(168,211)
24	Total QIP		\$	1,145,324	\$		\$		Ś	1,145,324	\$	277	\$	(139,179)	\$	(170,850)
25			,	-,,					<u>, </u>	2,210,021	<u> </u>		<u> </u>	(133,173)		(170,030)
26	304600	Struc &Imp-Offices														
27	Recurring Projects		\$	9.417	\$	-	\$	_	\$	9,417	\$		\$	-	Ś	-
28	Investment Projects		ō.	-,	ā	2	18	2	0.0	-,	*	2	*	-	*	-
29	Total QIP		\$	9,417	\$	-	\$		\$	9,417	\$	-	\$	-	\$	640
30									_		_				_	
31	304700	Struct & Imp-Store, Shop, Garage														
32	Recurring Projects	Bir 93 Nadamy Tober (1964 - 1950 - 1970 - 19	\$		\$	(7,869)	\$	-	\$	(7,869)	\$	1	\$	(81)	\$	235
33	Investment Projects			-	6	-		-		************	180	-	100	50 5 00000	0080	127 TOTAL
34	Total QIP		\$	-	\$	(7,869)	\$	¥	\$	(7,869)	\$	1	\$	(81)	\$	235
35					0) !				
36	306000	Lake, River & Other Intakes														
37	Recurring Projects		\$	30,376	\$	-	\$	- u	\$	30,376	\$	313	\$	(778)	\$	(681)
38	Investment Projects		925	-	000			-		5		5		15		27 1 2
39	Total QIP		\$	30,376	\$		\$		\$	30,376	\$	313	\$	(778)	\$	(681)
40					116											
41	309000	Supply Mains														
42	Recurring Projects		\$	9,862	\$	×	\$	¥	\$	9,862	\$	2	\$	(299)	\$	(907)
43	Investment Projects			-												-
44	Total QIP		\$	9,862	\$	-	\$		\$	9,862	\$	2 ,	\$	(299)	\$	(907)
45																

____1 ___2 ___3 ___4 ___5 ___B ___C

SEC

=Col 1 + Col 2

Line#	Investment by Plant Account	Account Description		Additions	Re	etirements	·	CIAC	(for	Investments Property Tax Calculation)		of Removal		ccumulated erred Income Taxes		cumulated preciation
46 47	310000	Power Generation Equip		40 470			-			552762527	628		10.20	500,000	82	X2375.00-550.50
48	Recurring Projects Investment Projects		\$	43,178	\$	-	\$	-	\$	43,178	\$	115	\$	3,779	\$	(20,509)
49	Total QIP		\$	43,178	\$		\$	- 57/L	\$	43,178	\$	115	_	3,779	_	(20.500)
50	Total QIF		-	43,176	<u> </u>	<u>_</u>	<u>~</u>		<u></u>	43,178	-	115	\$	3,779	\$	(20,509)
51	311200	Pump Eqp Electric														
52	Recurring Projects	rump Eqp Electric	\$	51,831	\$	(165,004)			s	(113,173)	Ś	49,517	\$	(3,565)	Ś	
53	Investment Projects		7	31,831	2	(103,004)	P	-	Þ	(113,173)	Þ	49,517	Þ	(3,565)	>	6,110
54	Total QIP		\$	51,831	\$	(165,004)	\$		\$	(113,173)	\$	49,517	\$	(3,565)	\$	6,110
55				51,031	_	(103,004)	_		Ť	(113,173)		49,317		(5,562)	3	0,110
56	311520	Pumping Equipment SOS														
57	Recurring Projects	Tamping Equipment 505	\$	2,145,484	\$	(74,947)	\$		\$	2,070,537	s	41,384	\$	(37,893)	\$	(89,482)
58	Investment Projects			-,,		-	•		*	-	~		~	(57,655)	~	(03,402)
59	Total QIP		\$	2,145,484	\$	(74,947)	\$	-	Ś	2,070,537	Ś	41,384	\$	(37,893)	Ś	(89,482)
60						, , , ,	_				_		_	(0.7050)	<u> </u>	(05) 102)
61	320100	WT Equip Non-Media														
62	Recurring Projects		\$	3,485,150	\$	(616,837)	\$	2.0	\$	2,868,313	\$	395,663	\$	(110,827)	\$	(103,474)
63	Investment Projects			10,675,325		(31,111)		-		10,644,214		-34,423		(323,362)	•	(342,818)
64	Total QIP		\$	14,160,475	\$	(647,948)	\$		\$	13,512,527	\$	430,086	\$	(434,189)	\$	(446,291)
65																
66	320200	Water Trmt Equip Filter Media														
67	Recurring Projects		\$	1,156,745	\$	(449,717)	\$	14	\$	707,028	\$	489,873	\$	177,931	\$	(677,142)
68	Investment Projects					-						(4)		-		
69	Total QIP		\$	1,156,745	\$	(449,717)	\$	-	\$	707,028	\$	489,873	\$	177,931	\$	(677,142)
70																
76	330200	Ground Level Tanks														
77	Recurring Projects		\$		\$		\$	-	\$		\$	(3)	\$	*	\$	-
78	Investment Projects			254,153		(1,500)		- 2	W-	252,653		50,000		(851)	-	(11,579)
79	Total QIP		\$	254,153	\$	(1,500)	\$	-	\$	252,653	\$	50,000	\$	(851)	\$	(11,579)
80																
91	340200	Computer & Peripheral Equipment														
92	Recurring Projects		\$	78,567	\$	(0)	\$		\$	78,567	\$	2,554	\$	(14,113)	\$	(3,541)
93	Investment Projects		_		_	-	_									-
94	Total QIP		\$	78,567	\$	(0)	\$		\$	78,567	\$	2,554	\$	(14,113)	\$	(3,541)
95	7454555	15 A 1212														
96	340300	Computer Software	1920							V-989080 V-0905	1000		1027			
97	Recurring Projects		\$	124,563	\$		\$		\$	124,563	\$	3-07	\$		\$	-
98 99	Investment Projects Total QIP		_	404.550	_		_		_				_			
	lotal QIP		\$	124,563	\$	-	\$		\$	124,563	\$		\$		\$	
100	340330															
101 102		Computer Software Other					4		-	1212-212	-					
102	Recurring Projects Investment Projects		\$	1,224	\$	*	\$		\$	1,224	\$		\$	-	\$	-
103	Total QIP		\$	1,224	\$		\$		\$	1,224	\$		\$		\$	
104	rotal QII		-	1,224	-		-		-	1,224	<u> </u>		<u> </u>		-	
103																

_____1 ____2 ____3 ___4 ____5 ___B ____C

SEC

=Col 1 + Col 2

Line #	Investment by Plant Account	Account Description		Additions	R	etirements		CIAC	(for	Investments Property Tax Calculation)		et of Removal		Accumulated eferred Income Taxes		cumulated
106	343000	Tools, Shop, Garage Equipment		_												
107	Recurring Projects		\$	4,127	\$	(3,416)	\$		\$	711	\$	12	\$	(90)	\$	(140)
108	Investment Projects					-				-		-				
109	Total QIP		\$	4,127	\$	(3,416)	\$	-	\$	711	\$		\$	(90)	\$	(140)
110									-							
111	344000	Laboratory Equipment														
112	Recurring Projects		\$	6,138	\$	(150,505)	\$		\$	(144,367)	Ś	1,535	\$	(2,421)	\$	6,775
113	Investment Projects										10 5 (0)		1900		0.00	1.0
114	Total QIP		\$	6,138	\$	(150,505)	\$	-	\$	(144,367)	\$	1,535	\$	(2,421)	\$	6,775
115			_								_				_	
116	345000	Power Operated Equipment														
117	Recurring Projects	, , , , , , , , , , , , , , , , , , , ,	\$	51,973	Ś	(14,251)	\$		\$	37,722	\$	2,117	\$	1.080	Ś	(9,977)
118	Investment Projects		•	,	*			2	•	-	~	-,,	~	1,000	~	(5,511)
119	Total QIP		Ś	51,973	\$	(14,251)	\$		\$	37,722	\$	2,117	\$	1,080	\$	(9,977)
120			_		-	(=-,==-,		-	_	21,7.22		-,	Ť	2,000	Ť	(3,317)
121	346100	Comm Equip Non-Telephone														
122	Recurring Projects	M N	\$	35,018	\$		\$	2	\$	35,018	\$	-	\$	(8,601)	\$	(8,556)
123	Investment Projects		•					-		-	•	i i	~	(0,001)	~	(0,550)
124	Total QIP		\$	35,018	\$	-	\$		\$	35,018	\$		\$	(8,601)	\$	(8,556)
125			_		_		÷		_		_			(-//	<u> </u>	(4,555)
126	346190	Remote Control & Instrument														
127	Recurring Projects		\$	953,473	\$	(109,284)	Ś	2	\$	844.189	\$	63,645	Ś	(190,507)	\$	(99,979)
128	Investment Projects		***	286,295	***	-		-	•	286,295	**	-	~	236	*	(19,007)
129	Total		Ś	1,239,768	\$	(109,284)	\$		Ś	1,130,484	\$	63,645	Ś	(190,271)	\$	(118,986)
130				-//	_	(,,	_		-		_			(220)212)	_	(110,500)
131	347000	Misc Equipment														
132	Recurring Projects	wise Equipment	\$	9,763	\$	(4,756)	Ś		Ś	5,007	s	3,990	\$	119	\$	(1,578)
133	Investment Projects		3	5,946	7	(4,730)	7		4	5,946	7	3,990	2	174	P	(2,478)
134	Total		\$	15,709	\$	(4,756)	\$		\$	10,953	\$	3,990	\$	293	\$	(4,057)
135	Total			13,703		(4,730)			<u>~</u>	10,955	<u> </u>	3,550	_	293	<u>~</u>	(4,037)
136	Expense:															
137	Chemical Expense for Wast	eWater handling:	\$		\$		\$		\$		\$		\$			
138	Electric Power Expense for		Þ		Þ	-	>	-	>		>		>	-	\$	-
139	Hauling Expense for Waster			5				-		Ø.		-		1,77		115
140	Total	water nanunng.	Ś		Ś		Ś		Ś		Ś		Ś		Ś	
	TOTAL		-		-		ð		2		-		2		->	1/51
141 142	Total		Ś	27,467,267	\$	(1,765,469)	\$		Ś	25,701,798	\$	2,974,425	\$	(594,534)	\$	(3.00F.31C)
142	Iotal		3	27,407,207	•	(1,/03,409)	-	<u>_</u>	→	23,/01,/98	->	2,974,425	<u> </u>	(394,334)	-	(2,095,219)

			_	6		7		8	_	9		10	_	11	_	12
		SEC	=Col	s1+3+5+B +C		=Col 6 x 451452%		Col 1+2+3)x reciation Rate	Rati	l 4 x Prop Tax e) + (Col 4 x nchise Rate)			=Co	ls 7 + 8 + 9 + 10		Col 11 / (1 - 3.191%)
Line #	Investment by Plant Account 304100	Account Description Structures & Improvement-Supply		ings Basis Net stment (Rate Base)		ings Basis x Tax Return (PTR)		epreciation Expense		perty Tax & nchise Fees	0.000	erational spenses		otal Before evenue Tax		otal With venue Tax
2	Recurring Projects	Structures & Improvement-Supply	\$	850,701	\$	71,897	\$	17,633	\$	12,032	Ś		\$	101,562	\$	104 000
3	Investment Projects		~	050,701	•	71,037	7		7	12,032	Þ		7	101,362	Þ	104,909
4	Total QIP		\$	850,701	\$	71,897	\$	17,633	\$	12,032	\$	— <u>:</u>	\$	101,562	\$	104,909
5	3					72,027	_	27,000	_	12,002				101,502		104,303
6	304200	Structures & Improvement-Pump														
7	Recurring Projects	 - 1.00 (2000) (2.00 (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) - 2.00 (2000) (2000) (2000) (2000) (2000) - 2.00 (2000) (2000) (2000) - 2.00 (2000) (2000) (2000) - 2.00 (2000) (2000) - 2.00 (2000) (2000) - 2.00 (2000)<td>\$</td><td>1,040,810</td><td>\$</td><td>87,964</td><td>\$</td><td>19,909</td><td>\$</td><td>13,585</td><td>\$</td><td>2</td><td>\$</td><td>121,457</td><td>Ś</td><td>125,461</td>	\$	1,040,810	\$	87,964	\$	19,909	\$	13,585	\$	2	\$	121,457	Ś	125,461
8	Investment Projects			243,636		20,591		(290)		(198)	0.50			20,104		20,766
9	Total QIP		\$	1,284,446	\$	108,554	\$	19,619	\$	13,387	\$		\$	141,561	\$	146,227
10																
11	304300	Structures & Improvement-WT														
12	Recurring Projects		\$	658,173	\$	55,625	\$	27,140	\$	8,922	\$		\$	91,686	\$	94,708
13	Investment Projects			5,326,447		450,162		167,991		55,223				673,376		695,572
14	Total QIP		\$	5,984,620	\$	505,787	\$	195,130	\$	64,145	\$		\$	765,062	\$	790,280
15	*****															
16	304400	Structures & Improvement-T&D		400 400												
17 18	Recurring Projects		\$	103,482	\$	8,746	\$	2,328	\$	1,477	\$	-	\$	12,550	\$	12,964
19	Investment Projects Total QIP		\$	103,482	\$	8,746	\$	2,328	_	1,477	\$		\$	12.550	_	12.054
20	Total Qir		3	103,462	2	0,740	-	2,328	\$	1,477	-		<u> </u>	12,550	\$	12,964
21	304500	Structures & Improvement - General														
22	Recurring Projects	Structures & Improvement - General	\$	79,609	\$	6,728	\$	937	\$	1,120	\$		\$	8,785	\$	9,075
23	Investment Projects		7	755,963	*	63,890	7	12,005	7	14,354	÷.		7	90,249	÷	93,224
24	Total QIP		\$	835,572	\$	70,618	\$	12,942	\$	15,474	\$		\$	99,034	\$	102,299
25							_								_	
26	304600	Struc &Imp-Offices														
27	Recurring Projects	2	\$	9,417	\$	796	\$	106	\$	127	\$		\$	1,030	\$	1,063
28	Investment Projects									12				-		- 2
29	Total QIP		\$	9,417	\$	796	\$	106	\$	127	\$		\$	1,030	\$	1,063
30																
31	304700	Struct & Imp-Store, Shop, Garage														
32	Recurring Projects		\$	155	\$	13	\$	(57)	\$	(106)	\$		\$	(151)	\$	(156)
33	Investment Projects		_	-	_		_	-	_	- (105)			_			
34	Total QIP		\$	155	\$	13	\$	(57)	\$	(106)	\$		\$	(151)	\$	(156)
35	205000															
36 37	Recurring Projects	Lake, River & Other Intakes	\$	20 220		2 470		252		***				2 4 2 2		2 225
38	Investment Projects		>	29,229	\$	2,470	\$	252	\$	410	\$		\$	3,133	\$	3,236
39	Total QIP		\$	29,229	\$	2,470	\$	252	\$	410	\$	— <u>:</u>	\$	3,133	\$	3,236
40				23,223	-	2,470		LJL	7	410				3,133		3,230
41	309000	Supply Mains														
42	Recurring Projects		\$	8,656	\$	732	\$	184	\$	133	\$		\$	1,049	\$	1,084
43	Investment Projects						5."		85	-			3.	7.	107	
44	Total QIP		\$	8,656	\$	732	\$	184	\$	133	\$	-	\$	1,049	\$	1,084
45																

				6		7		8		9		10	_	11		12
		SEC	=Col	ls 1 + 3 + 5 + B + C		=Col 6 x .451452%		(Col 1+2+3)x preciation Rate	Rat	ol 4 x Prop Tax te) + (Col 4 x nchise Rate)			=Col	s 7 + 8 + 9 + 10		Col 11 / (1 - 3.191%)
Line #	Investment by Plant Account	Account Description		ings Basis Net stment (Rate Base)		nings Basis x -Tax Return (PTR)		Depreciation Expense		perty Tax & inchise Fees	500	erational xpenses		tal Before venue Tax		otal With venue Tax
46 47	Recurring Projects	Power Generation Equip	\$	26,563	s	2,245	\$	5,324	\$	583	\$		\$	0.453		0.424
48	Investment Projects		ş	20,303	?	2,243	Þ	3,324	þ	583	>		>	8,152	\$	8,421
49	Total QIP		\$	26,563	\$	2,245	\$	5,324	\$	583	\$		\$	8,152	\$	8,421
50					_						_			0,132	<u> </u>	0,421
51	311200	Pump Eqp Electric														
52	Recurring Projects		\$	103,893	\$	8,780	\$	(2,773)	\$	(1,529)	\$		\$	4,479	\$	4,626
53	Investment Projects		-	1.5		-5		5	107	7	200.0			-		
54	Total QIP		\$	103,893	\$	8,780	\$	(2,773)	\$	(1,529)	\$	¥.	\$	4,479	\$	4,626
55			0													
56	311520	Pumping Equipment SOS														
57	Recurring Projects		\$	2,059,493	\$	174,057	\$	37,891	\$	27,974	\$		\$	239,922	\$	247,831
58	Investment Projects		s 			-						- v				
59	Total QIP		\$	2,059,493	\$	174,057	\$	37,891	\$	27,974	\$		\$	239,922	\$	247,831
60																
61	320100	WT Equip Non-Media														
62	Recurring Projects		\$	3,666,513	\$	309,874	\$	31,265	\$	38,753	\$	75	\$	379,891	\$	392,413
63 64	Investment Projects Total QIP		Ś	10,043,568		848,827	-	116,022	_	143,811	_		_	1,108,660		1,145,204
65	Total QIP		2	13,710,081	\$	1,158,701	\$	147,287	\$	182,564	\$		\$	1,488,551	\$	1,537,617
66	320200	Water Trmt Equip Filter Media														
67	Recurring Projects	water irmt Equip Filter Media	\$	1,147,408	\$	96,973	\$	238,198	Ś	9,552	\$		\$	244 722	Ś	256.006
68	Investment Projects		,	1,147,400	Þ	50,573	Þ	230,130	ş	9,552	Þ	- To	Þ	344,723	Þ	356,086
69	Total QIP		\$	1,147,408	\$	96,973	\$	238,198	Ś	9,552	\$	<u>_</u>	\$	344,723	Ś	356,086
70	335.351.351			1,1-17,100		30,373	<u> </u>	230,130	_	5,552	7		7	344,723	7	330,080
76	330200	Ground Level Tanks														
77	Recurring Projects		\$		\$		\$		\$	-	\$	_	\$	_	\$	-
78	Investment Projects			291,723		24,655		6,923	•	3,414	Ť			34,991	Ĭ.	36,144
79	Total QIP		\$	291,723	\$	24,655	\$	6,923	\$	3,414	\$		\$	34,991	\$	36,144
80					3											***************************************
91	340200	Computer & Peripheral Equipment														
92	Recurring Projects		\$	63,467	\$	5,364	\$	1,721	\$	1,061	\$		\$	8,146	\$	8,414
93	Investment Projects					-									10	
94	Total QIP		\$	63,467	\$	5,364	\$	1,721	\$	1,061	\$		\$	8,146	\$	8,414
95	6.0200	12 W PANNER														
96	340300	Computer Software	0.00													
97	Recurring Projects		\$	124,563	\$	10,527	\$	2,279	\$	1,683	\$		\$	14,490	\$	14,967
98 99	Investment Projects Total QIP		\$	124 552	_	10.527	_	2 270	_	4 500	_		_			
	Total QIP		\$	124,563	\$	10,527	\$	2,279	\$	1,683	\$		\$	14,490	\$	14,967
100 101	340330	Computer Software Other														
101	Recurring Projects	Computer Software Other	\$	1,224	\$	103	\$	22	\$	17	ċ		ė	142	¢	147
103	Investment Projects		7	1,224	7	103	7	- 22	3	1/	\$	-	\$	142	\$	147
104	Total QIP		\$	1,224	\$	103	\$	22	\$	17	\$		\$	142	\$	147
105					_				Ť				_	/-	_	

				6		7		8		9		10		11		12
		SEC	=Cols	1+3+5+B +C	8	=Col 6 x 3.451452%		(Col 1+2+3)x reciation Rate	Rate	4 x Prop Tax e) + (Col 4 x echise Rate)			=Co	ls 7 + 8 + 9 + 10		Col 11 / (1 - 3.191%)
Line#	Investment by Plant	Account Description	Inves	ngs Basis Net tment (Rate Base)		nings Basis x e-Tax Return (PTR)	D	epreciation Expense		perty Tax &		erational spenses		tal Before venue Tax		otal With venue Tax
106 107	343000	Tools, Shop, Garage Equipment	2	2 202					1		4					
107	Recurring Projects Investment Projects		\$	3,897	\$	329	\$	49	\$	10	\$	-	\$	388	\$	401
109	Total QIP		Ś	3,897	\$	329	\$	49	\$	10	\$		\$	388	_	401
110	Total QIF		3	3,697	3	329	2	49	-	10	-		>	388	\$	401
111	344000	Laboratory Equipment														
112	Recurring Projects	capotatory Equipment	\$	12,027	\$	1,016	\$	(1,458)	\$	(1,951)	\$	3	\$	(2,392)	¢	(2,471)
113	Investment Projects		7	-	*	-	7	(1,450)	~	(1,551)	Y		7	(2,332)	÷	(2,4/1)
114	Total QIP		\$	12,027	\$	1,016	\$	(1,458)	\$	(1,951)	\$		\$	(2,392)	\$	(2,471)
115					_		_	.,,,,		1-//			-	(-,)		(=,)
116	345000	Power Operated Equipment														
117	Recurring Projects	25 25	\$	45,193	\$	3,819	\$	2,652	\$	510	\$		\$	6,981	\$	7,211
118	Investment Projects			=1		=		-		=				-		-
119	Total QIP		\$	45,193	\$	3,819	\$	2,652	\$	510	\$		\$	6,981	\$	7,211
120																
121	346100	Comm Equip Non-Telephone														
122	Recurring Projects	(00) (0)	\$	17,860	\$	1,509	\$	1,474	\$	473	\$		\$	3,457	\$	3,571
123	Investment Projects			-							2			1		
124	Total QIP		\$	17,860	\$	1,509	\$	1,474	\$	473	\$		\$	3,457	\$	3,571
125													-			
126	346190	Remote Control & Instrument														
127	Recurring Projects		\$	726,632	\$	61,411	\$	35,540	\$	11,406	\$		\$	108,357	\$	111,929
128	Investment Projects			267,524		22,610		12,053		3,868				38,531		39,801
129	Total		\$	994,156	\$	84,021	\$	47,593	\$	15,274	\$		\$	146,888	\$	151,729
130																
131	347000	Misc Equipment														
132	Recurring Projects		\$	12,294	\$	1,039	\$	317	\$	68	\$	*	\$	1,424	\$	1,470
133	Investment Projects			3,641		308	0.00	376	_	80				764		790
134	Total		\$	15,935	\$	1,347	\$	693	\$	148	\$	-	\$	2,188	\$	2,260
135																
136	Expense:															
137	Chemical Expense for Wast		\$	*)	\$	7.	\$		\$	-	\$		\$		\$	-
138	Electric Power Expense for					8				*		-		9		8
139	Hauling Expense for Waster	water handling:	-				-		-			-		-		
140	Total		\$		\$	-	\$	-	\$		\$	-	\$		\$	
141																
142	Total		\$	27,751,939	\$	2,345,442	\$	736,617	\$	347,250	\$	<u> </u>	\$	3,429,309	\$	3,542,345

Authorization of Tennessee American Water Capital Recovery Riders Since Last Rate Case (Docket No. 12-00049)

TPUC Docket No.	Effective Date	Rider	Authorized Annual Change	Total Cumulative Rider	Reconciliation Authorized	Individual Authorized Rider Total	Capital Riders Cumulative Total	TCJA Offset	Impact to
13-00130	4/15/2014	QIIP	0.790%	0.790%	0.000%	0.790%			
13-00130	4/13/2014	EDI	0.180%	0.180%	0.000%	0.180%			
		SEC	0.110%	0.110%	0.000%	0.110%			
		Total	1.080%	0.110%	0.000%	0.110%	1.080%	0.00%	1.080%
		Total	1.00070		0.000%		1.00070	0.0070	1.00070
14-00121	6/30/2015	QIIP	1.340%	2.130%	0.000%	2.130%			
		EDI	-0.130%	0.050%	0.000%	0.050%			
		SEC	3.430%	3.540%	0.000%	3.540%			
		Total	4.640%		0.000%		5.720%	0.00%	5.720%
15-00029*	11/1/2015	QIIP	0.000%	2.130%	0.254%	2.384%			
15 00025	11,1,2015	EDI	0.000%	0.050%	-0.150%	-0.100%			
		SEC	0.000%	3.540%	0.064%	3.604%			
		Total	0.000%	5.720%	0.168%		5.888%	0.00%	5.888%
15-00111	3/15/2016	QIIP	2.430%	4.560%	0.000%	4.560%			
		EDI	0.050%	0.100%	0.000%	0.100%			
		SEC	2.180%	5.720%	0.000%	5.720%			
		Total	4.660%		0.000%		10.380%	0.00%	10.380%
16-00022*	10/11/2016	QIIP	0.000%	4.560%	1.166%	5.726%			
		EDI	0.000%	0.100%	-0.178%	-0.078%			
		SEC	0.000%	5.720%	-0.118%	5.602%			
		Total	0.000%		0.870%		11.250%	0.00%	11.250%
16-00126	2/14/2017	OUD	2.060%	7 5209/	0.000%	7 5200/			
10-00120	3/14/2017	QIIP EDI	2.960% 0.240%	7.520% 0.340%	0.000%	7.520% 0.340%			
		SEC	0.370%	6.090%	0.000%	6.090%			
		Total	3.570%	0.03076	0.000%	0.030%	13.950%	0.00%	13.950%
		Total	3.37070		0.00070		13.33070	0.0070	13.55070
17-00020*	8/16/2017	QIIP	0.000%	7.520%	1.763%	9.283%			
		EDI	0.000%	0.340%	-0.031%	0.309%			
		SEC	0.000%	6.090%	-0.826%	5.264%			
		Total	0.000%		0.906%		14.856%	0.00%	14.856%
17-00124	4/10/2018	QIIP	2.530%	10.050%	0.000%	10.050%			
	,,	EDI	0.070%	0.410%	0.000%	0.410%			
		SEC	-0.120%	5.970%	0.000%	5.970%			
		Total	2.480%		0.000%		16.430%	0.00%	16.430%
10.00022*	D 1"	CUD	0.0000/	10.0500/	2.7400/	42.7000			
18-00022*	Pending	QIIP	0.000%	10.050%	2.718%	12.768%			
		EDI	0.000%	0.410% 5.970%	-0.045%	0.365%			
		SEC	0.000%	3.970%	0.121% 2.794%	6.091%	10 22/0/	0.00%	10 22/19/
		Total	0.000%		2./94%		19.224%	0.00%	19.224%
Proposed	1/1/2019	QIIP	2.750%	12.800%	0.000%	12.800%			
		EDI	0.270%	0.680%	0.000%	0.680%			
		SEC	1.550%	7.520%	0.000%	7.520%			
		Total	4.570%		0.000%		21.000%	-4.57%	16.430%

 $^{{}^{*}}$ Reconciliations are only effective until December 31 of the year authorized by the TPUC.

CLASSIFICATION OF SERVICE

ECONOMIC DEVELOPMENT INVESTMENT PROGRAM - RIDER

1. Applicability

In addition to the other charges provided for in this Tariff under Service Classifications Residential, Commercial, Industrial, Other Public Authority, Sales for Resale, and Private Fire, a Economic Development Investment Program ("EDI") Rider will apply to customers in all service areas.

The above rider will be recomputed annually and be adjusted periodically to incorporate the Annual Reconciliation Factor.

2. Definitions

For the purposes of this Rider:

- "Actual EDI Investment Amount" means the amount of actual capital investment and associated operating expenses of the Company for the Economic Development Investment Program and not otherwise included in current base rates. At the time of the Company's next general rate case proceeding, all prudently incurred Actual EDI Investment Amounts associated with this Rider shall be included in base rates.
- "Annual Reconciliation Factor" means an adjustment factor to true-up rates from forecasted costs to the actual costs incurred through application of 1) the Budget-to-Actual Adjustment and 2) the Over-Under Collection Adjustment, and the 3) Earnings Test Adjustment, as adjusted for Interest.
- "Annual Review Period" means the twelve-month period between the annual adjustments of the EDI Percentage Rate. For the first year beyond the attrition year of the base rate case, this review period may be shorter or longer than a twelve-month period to cover expenditures between the attrition year and the start of the subsequent calendar year.
- "Commission" means the Tennessee Public Utility Commission.
- "Budget-to-Actual Adjustment" means the adjustment to EDI for the applicable coming annual period due to the difference between the Forecasted EDI Investment and Expense Amount and the Actual EDI Investment and Expense Amount.

100	D .	01	•	COMPANY CONTRACTOR
(T)	Denotes	Change	ın	tex
(* /	Donotos	CHALLE		LOIL

ISSUED:

October 3, 2017

EFFECTIVE: November 2, 2017

BY:

Valoria V. Armstrong

PRESIDENT

109 Wiehl Street

"Consumer Advocate" means the Consumer Advocate and Protection Division of the Office of the Tennessee Attorney General.

"Forecasted EDI Investment Amount" means the amount of forecasted capital investment of the Company for the Economic Development Investment Program and not otherwise included in current base rates.

"Over-Under Collection Adjustment" means the adjustment to EDI for the applicable coming annual period due to the net amount of over or under collections. This will include over-under collections from the annual review period EDI and any remaining balance of the over-under collection from the prior reconciliation of the EDI.

"Relevant Rate Order" means the final order of the Commission in the most recent rate case of the Company fixing the rates of the Company or the most recent final order of the Commission specifically prescribing or fixing the factors and procedures to be used in the application of this Rider.

3. General Description

EDI allows the Company to recover outside of a rate case its qualifying incremental non-revenue producing plant infrastructure investment and expenses. For purposes of this Rider, qualifying EDI investment includes the following:

Distribution, Production, and Other Infrastructure – Distribution, production, and other infrastructure that may be identified as being for the purpose of economic development.

Economic Development Expenses – Operational expenses that are specifically to support economic development and economic development investment utility plant.

EDI Investment is to be identifiable on the Company's books and segregated into the following general accounts:

Account 331 - Transmission & Distribution Mains;

Account 333 - Services;

Account 334 - Meters & Meter Installations;

Account 335 – Hydrants;

Account 320 - Water Treatment Equipment, Non-Media;

Account 311 – Pumping Equipment;

Account 303 - Land and Land Rights;

Account 304 - Structures and Improvements;

(T) Denotes Change in text

ISSUED: October 3, 2017

EFFECTIVE: November 2, 2017

BY:

Valoria V. Armstrong

PRESIDENT

109 Wiehl Street

Third Revised Sheet No. 12-EDI-3

Account 306 - Lake, River and Other Intakes;

Account 307 - Wells and Springs;

Account 309 - Supply Mains;

Account 310 - Power Generation Equipment;

Account 330 - Distribution Reservoirs and Standpipes; and

Account 330003 - Capitalized Tank Painting.

4. Determination of the Economic Development Investment Program Percentage Rate

- (A) The EDI percentage shall be expressed as a percentage carried to two (2) decimal places. The EDI percentage shall be applied to the total amount billed to each Customer based on the Company's otherwise applicable rates and charges.
- (B) The EDI percentage shall be calculated on an annual prospective basis as follows:

FORECASTED EDI Investment Amount

Less EDI Plant Retirements (Net of Cost of Removal & Salvage)

Less Contributions in Aid of Construction

Less Accumulated Depreciation

Less Accumulated Deferred Income Taxes

Net Forecasted EDI Qualifying Investment

Multiplied by the Pre-Tax ROR set forth in the Relevant Rate Order

Allowed Forecasted EDI Pre-Tax Return

Plus Depreciation Expense

Plus Property Taxes

Plus Franchise Taxes

Plus Economic Development Operational Expenses

Subtotal Forecasted EDI Revenue Requirement Before Revenue Tax

Divided by 1 minus the following:

Forfeited Discounts Rate

Plus Uncollectible Expense Rate

Plus Gross Receipts Tax Rate

Total Forecasted EDI Revenue Requirement

(T) Denotes Change in text

ISSUED: October 3, 2017

EFFECTIVE: November 2, 2017

BY:

Valoria V. Armstrong

PRESIDENT

109 Wiehl Street

Divided by Relevant Rate Order Volumetric & Metered Revenue

EDI Percentage Rate

Where:

Accumulated Depreciation = Accumulated depreciation calculated by debiting for Forecasted EDI plant removed from service, and crediting for new accumulations using rates approved in the Relevant Rate Order on new investments, less retirements and CIAC.

Accumulated Deferred Income Taxes = An average of the forecasted accumulated deferred income taxes related to qualified forecasted EDI investment at the beginning and end of the year.

Contributions in Aid of Construction = Non-investor supplied funds used in the construction of forecasted EDI infrastructure.

Depreciation Expense = Forecasted cumulative qualified EDI investment net of retirements and CIAC, multiplied by depreciation rates approved in the Relevant Rate Order.

Forfeited Discount Rate = Forecasted EDI Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite forfeited discount factor approved in the Relevant Rate Order.

Franchise Taxes = Forecasted cumulative qualified EDI investment multiplied by composite franchise tax rate approved in the Relevant Rate Order.

Gross Receipts Tax Rate = Forecasted EDI Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite gross receipts tax rate approved in the Relevant Rate Order.

Property Taxes = Forecasted cumulative qualified EDI investment multiplied by composite property tax rate approved in the Relevant Rate Order.

EDI Plant Retirements = Forecasted EDI plant removed from service net of any associated cost of removal and salvage.

(T) Denotes Change in text

ISSUED:

October 3, 2017

EFFECTIVE: November 2, 2017

BY:

Valoria V. Armstrong

PRESIDENT

109 Wiehl Street

Forecasted EDI Investment Amount = Average forecasted EDI additions to plant infrastructure as described in Section 3, computed by use of average of 12 end-of-month balances.

Economic Development Expenses = the incremental operational expenses that are specifically to support economic development or economic development utility plant.

Uncollectible Expense = Forecasted EDI Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite uncollectible factor approved in the Relevant Rate Order.

Volumetric & Metered Revenue = the revenues authorized in the Relevant Rate Order for volumetric water sales, meter charges, and private fire service charges.

(C) The total amount to be recovered through the EDI is the EDI Percentage Rate as adjusted for the Annual Reconciliation Factor Percentage Rate.

5. Determination of the Annual Reconciliation Factor Percentage Rate

- (A) The Annual Reconciliation Factor Percentage shall be expressed as a percentage carried to two (2) decimal places. The Annual Reconciliation Factor Percentage shall be applied to the total amount billed to each Customer based on the Company's otherwise applicable rates and charges.
- (B) The Annual Reconciliation Factor Percentage Rate will be computed as follows:

Budget-to-Actual Adjustment

Plus Over-Under Collection Adjustment

Plus Earnings Test Adjustment

Plus Interest

Annual Reconciliation Amount

Divided by 9/12 of the Relevant Rate Order Volumetric & Metered Revenue

Annual Reconciliation Factor Percentage Rate

- (C) Computation of the Budget-to-Actual Adjustment.
- (T) Denotes Change in text

ISSUED:

October 3, 2017

EFFECTIVE: November 2, 2017

BY:

Valoria V. Armstrong

PRESIDENT

109 Wiehl Street

The Budget-to-Actual Adjustment will be computed as follows:

ACTUAL EDI Investment Amount for the Annual Review Period

Less EDI Plant Retirements (Net of Cost of Removal & Salvage)

Less Contributions in Aid of Construction

Less Accumulated Depreciation

Less Accumulated Deferred Income Taxes

Net Actual EDI Qualifying Investment

Multiplied by the Pre-Tax ROR set forth in the Relevant Rate Order

Allowed Actual EDI Pre-Tax Return

Plus Depreciation Expense

Plus Property Taxes

Plus Franchise Taxes

Plus Economic Development Operational Expenses

Subtotal Actual EDI Revenue Requirement Before Revenue Tax

Divided by 1 minus the following:

Forfeited Discounts Rate

Plus Uncollectible Expense Rate

Plus Gross Receipts Tax Rate

Total Actual EDI Revenue Requirement

Less Total Forecasted EDI Revenue Requirement

Budget-to-Actual Adjustment

Where:

Accumulated Depreciation = Accumulated depreciation calculated by debiting for Forecasted EDI plant removed from service, and crediting for new accumulations using rates approved in the Relevant Rate Order on new investments, less retirements and CIAC

Accumulated Deferred Income Taxes = An average of the actual accumulated deferred income taxes related to actual EDI investment at the beginning and end of the year.

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PRESIDENT

109 Wiehl Street

Contributions in Aid of Construction = Non-investor supplied funds used in the construction of actual EDI infrastructure.

Depreciation Expense = Actual cumulative qualified EDI investment net of retirements and CIAC multiplied by depreciation rates approved in the Relevant Rate Order.

Forfeited Discount Rate = Actual EDI Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite forfeited discount factor approved in the Relevant Rate Order.

Franchise Taxes = Actual cumulative qualified EDI investment multiplied by composite franchise tax rate approved in the Relevant Rate Order.

Gross Receipts Tax Rate = Actual EDI Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite gross receipts tax rate approved in the Relevant Rate Order.

Property Taxes = Actual cumulative qualified EDI investment multiplied by composite property tax rate approved in the Relevant Rate Order.

EDI Plant Retirements = Actual EDI plant removed from service net of any associated cost of removal and salvage.

Actual EDI Investment Amount = Average actual EDI additions to plant infrastructure as described in Section 3, computed by use of average of 12 end-of-month balances.

Economic Development Expenses = the incremental operational expenses that are specifically to support economic development or economic development utility plant.

Uncollectible Expense = Actual EDI Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite uncollectible factor approved in the Relevant Rate Order.

Volumetric & Metered Revenue = the revenues authorized in the Relevant Rate Order for volumetric water sales, meter charges, and private fire service charges.

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109 Wiehl Street Chattanooga, Tennessee 37403 (D) Computation of the Over-Under Collection Adjustment.

The Company will identify and record the total amount of the EDI Collected from Customers for the Annual Review Period. The difference between the Total EDI Collected from Customers and the Total Budgeted EDI Revenue Requirement shall constitute the Over-Under Collection Adjustment. This adjustment shall include any remaining Over-Under amount from the prior period reconciliation during the Annual Review Period in addition to the Over-Under collection amount for the EDI during the Annual Review Period.

(E) Computation of the Earnings Test Adjustment.

If the earnings attained by the Company for the Annual Review Period exceed the earnings allowed for the Annual Review Period by applying the overall rate of return authorized in the Relevant Rate Order, then any such earnings difference shall constitute the Earnings Test Adjustment. If the earnings attained by the Company for the Annual Review Period are less than the earnings allowed for the Annual Review Period by applying the overall rate of return authorized in the Relevant Rate Order, then no Earnings Test Adjustment shall be recognized.

Any Earnings Test Adjustment shall be allocated among the Qualified Infrastructure Improvement Program Rider, the Economic Development Investment Rider, and the Safety and Environmental Compliance Rider based on the pro-rata revenues collected under these riders for the Annual Review Period for purposes of computing new rate adjustments.

(F) Computation of Interest.

Interest will be computed as follows:

Budget-to-Actual Adjustment Plus Over-Under Collection Adjustment Plus Earnings Test Adjustment

Total Amount Subject to Interest Interest Rate Multiplied by 50%

Total Interest

Where "Interest Rate" equals the prime rate value published in the "Federal Reserve Bulletin" or in the Federal Reserve's "Selected Interest Rates" for the most recent preceding month.

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PRESIDENT

109 Wiehl Street Chattanooga, Tennessee 37403

TENNESSEE-AMERICAN WATER COMPANY

Third Revised Sheet No. 12-EDI-9

6. New Base Rates

The EDI rider will be reset at zero upon the establishment of new base rates to customer billings that provide for the prospective recovery of the annual costs that had theretofore been recovered under the EDI. Thereafter, only the costs of new EDI eligible plant additions that have not previously been reflected in the Company's rate base, would be reflected in new annual prospective EDI filings.

7. Annual EDI Percentage Rate Filing

On or before December 1 of each year, the Company shall submit to the Commission a calculation of the EDI Percentage Rate for the following calendar year. The Annual EDI Percentage Rate Filing shall be verified by an officer of the Company. The Annual EDI Percentage Rate Filing shall include a calculation to adjust revenue to recover costs related to the Forecasted EDI Investment Amount, with such revenue adjustment applied through the EDI Percentage Rate. The EDI Percentage Rate shall become effective on January 1 of each year and be applied as an adjustment to Customers' bills for the remainder of the calendar year.

The Company will include in its Annual EDI Percentage Rate Filing the following information at a minimum: (a) computation of the EDI Percentage Rate, including the detailed calculation of each component, (b) a budget of the Forecasted EDI Investment Amount and Forecasted Economic Development Operational Expenses adopted by the Company's Board of Directors, (c) any related Strategic Capital Expenditures Plans, (d) statements demonstrating how each projected capital investment comprising the Forecasted EDI Investment Amount and each projected operational expense comprising the Forecasted Economic Development Operational Expenses meet the requirements for recovery under this Rider set forth in Section 3, and (e) such other information as the Commission may direct.

The Company will simultaneously copy the Consumer Advocate on its Annual EDI Percentage Rate Filing.

8. Annual Reconciliation Filing with the Commission

On or before March 1 of each year, the Company shall submit to the Commission a reconciliation of the results of the operation of the EDI for the previous Annual Review Period. The Annual Reconciliation Filing shall be verified by an officer of the Company. The annual reconciliation shall include a calculation to adjust revenue collected under this EDI Rider in effect for the prior Annual Review Period to an amount equivalent to the actual level of prudently-incurred EDI cost for the prior Annual Review Period, with such revenue adjustment applied through the Annual Reconciliation Factor Percentage Rate. The Annual Reconciliation Factor Percentage Rate shall become effective on

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April 1 of each year and be applied as an adjustment to Customers' bills for the remainder of the calendar year.

The Company will include in its Annual Reconciliation Filing the following information at a minimum: (a) a schedule of all journal entries made related to this Rider for the Annual Review Period, including any related general ledger support, (b) actual billing determinants by month as used in the computation of the Total EDI Collected from Customers for the Annual Review Period, (c) capitalization policy effective for the Annual Review Period, (d) computation of the Annual Reconciliation Factor Percentage Rate, including the detailed calculation of each component, (e) schedules of the Actual EDI Investment Amount and Actual Economic Development Operational Expenses, including related general ledger support, (f) a schedule of any proposed prior period adjustments, (g) an affirmative statement of whether the Company is aware of any changes in market conditions or other factors that may affect whether the Rider is still in the public interest, including the identification of such factors if they exist, (h) the cumulative amount of EDI collected from customers under this Rider, and (i) such other information as the Commission may direct.

The Company will simultaneously copy the Consumer Advocate on its Annual Reconciliation Filing.

9. Notice Requirements

The Company will file revised tariffs for Commission approval upon 30 days' notice to implement a decrement or an increment each January 1 and April 1. Along with the tariff filing, the Company will include a copy of the computation of the new rate adjustment. The Company will simultaneously copy the Consumer Advocate on this filing.

10. Public Interest Review

Nothing herein shall be construed to eliminate or otherwise restrict the opportunity of the Consumer Advocate or any other interested party from seeking a review of this Rider, as permitted by law and the rules and regulations of the Commission, for a reconsideration of whether it remains in the public interest.

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PRESIDENT

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CLASSIFICATION OF SERVICE

QUALIFIED INFRASTRUCTURE IMPROVEMENT PROGRAM - RIDER

1. Applicability

In addition to the other charges provided for in this Tariff under Service Classifications Residential, Commercial, Industrial, Other Public Authority, Sales for Resale, and Private Fire, a Qualified Infrastructure Improvement Program ("QIIP") Rider will apply to customers in all service areas.

The above rider will be recomputed annually and be adjusted periodically to incorporate the Annual Reconciliation Factor.

2. Definitions

For the purposes of this Rider:

- "Actual QIIP Investment Amount" means the amount of actual capital investment of the Company for the Qualified Infrastructure Improvement Program and not otherwise included in current base rates. At the time of the Company's next general rate case proceeding, all prudently incurred Actual QIIP Investment Amounts associated with this Rider shall be included in base rates.
- "Annual Reconciliation Factor" means an adjustment factor to true-up rates from forecasted costs to the actual costs incurred through application of 1) the Budget-to-Actual Adjustment and 2) the Over-Under Collection Adjustment, and the 3) Earnings Test Adjustment, as adjusted for Interest.
- "Annual Review Period" means the twelve-month period between the annual adjustments of the QIIP Percentage Rate.
- "Commission" means the Tennessee Public Utility Commission.
- **"Budget-to-Actual Adjustment"** means the adjustment to QIIP for the applicable coming annual period due to the difference between the Forecasted QIIP Investment Amount and the Actual QIIP Investment Amount.

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109 Wiehl Street Chattanooga, Tennessee 37403 "Consumer Advocate" means the Consumer Advocate and Protection Division of the Office of the Tennessee Attorney General.

"Forecasted QIIP Investment Amount" means the amount of forecasted capital investment of the Company for the Qualified Infrastructure and Investment Program and not otherwise included in current base rates.

- "Over-Under Collection Adjustment" means the adjustment to QIIP for the applicable coming annual period due to the net amount of over or under collections. This will include over-under collections from the annual review period EDI and any remaining balance of the over-under collection from the prior reconciliation of the EDI.
 - "Relevant Rate Order" means the final order of the Commission in the most recent rate case of the Company fixing the rates of the Company or the most recent final order of the Commission specifically prescribing or fixing the factors and procedures to be used in the application of this Rider.

3. General Description

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QIIP allows the Company to recover outside of a rate case its qualifying incremental non-revenue producing plant infrastructure investment. For purposes of this Rider, qualifying QIIP investment includes the following:

Distribution Infrastructure – Replacement distribution and transmission mains and valves installed as replacements for existing facilities, reinforcement of existing facilities or otherwise insuring reliability of existing facilities; Hydrants, Services, Meters and Meter Installations – installed as in-kind replacements, reinforcements or insuring reliability of existing facilities; Unreimbursed funds related to capital projects to relocate facilities required by governmental highway projects; Capitalized tank repairs and maintenance that serve to replace, reinforce, or otherwise insure reliability of existing facilities.

Production and Pumping Infrastructure – Replacement of water treatment facilities and equipment installed as replacements for existing facilities, reinforcement of existing facilities or otherwise insuring reliability of existing facilities; Raw Water and Finished Water pumping equipment and structures installed as replacements, reinforcements or otherwise insuring reliability of existing facilities.

Other Infrastructure – Infrastructure designed to utilize alternative fuels.

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109 Wiehl Street Chattanooga, Tennessee 37403 QIIP Investment is to be identifiable on the Company's books and segregated into the following general accounts:

Account 331 – Transmission & Distribution Mains;

Account 333 – Services;

Account 334 - Meters & Meter Installations;

Account 335 - Hydrants;

Account 320 - Water Treatment Equipment, Non-Media;

Account 311 – Pumping Equipment;

Account 303 – Land and Land Rights;

Account 304 – Structures and Improvements;

Account 306 - Lake, River and Other Intakes;

Account 307 – Wells and Springs;

Account 309 - Supply Mains;

Account 310 - Power Generation Equipment

Account 330 – Distribution Reservoirs and Standpipes;

Account 341 - Transportation Equipment; and

Account 330003 - Capitalized Tank Painting.

4. Determination of the Qualified Infrastructure Improvement Program Percentage Rate

- (A) The QIIP percentage shall be expressed as a percentage carried to two (2) decimal places. The QIIP percentage shall be applied to the total amount billed to each Customer based on the Company's otherwise applicable rates and charges.
- (B) The QIIP percentage shall be calculated on an annual prospective basis as follows:

FORECASTED QIIP Investment Amount

Less OIIP Plant Retirements (Net of Cost of Removal & Salvage)

Less Contributions in Aid of Construction

Less Accumulated Depreciation

Less Accumulated Deferred Income Taxes

Net Forecasted QIIP Qualifying Investment

Multiplied by the Pre-Tax ROR set forth in the Relevant Rate Order

Allowed Forecasted QIIP Pre-Tax Return
Plus Depreciation Expense

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Plus Property Taxes
Plus Franchise Taxes

Subtotal Forecasted QIIP Revenue Requirement Before Revenue Tax

Divided by 1 minus the following:

Forfeited Discounts Rate

Plus Uncollectible Expense Rate

Plus Gross Receipts Tax Rate

Total Forecasted QIIP Revenue Requirement

Divided by Relevant Rate Order Volumetric & Metered Revenue

QIIP Percentage Rate

Where:

Accumulated Depreciation = Accumulated depreciation calculated by debiting for Forecasted QIIP plant removed from service, and crediting for new accumulations using rates approved in the Relevant Rate Order on new investments, less retirements and CIAC.

Accumulated Deferred Income Taxes = An average of the forecasted accumulated deferred income taxes related to qualified forecasted QIIP investment at the beginning and end of the year.

Contributions in Aid of Construction = Non-investor supplied funds used in the construction of forecasted QIIP infrastructure.

Depreciation Expense = Forecasted cumulative qualified QIIP investment net of retirements and CIAC, multiplied by depreciation rates approved in the Relevant Rate Order.

Forfeited Discount Rate = Forecasted QIIP Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite forfeited discount factor approved in the Relevant Rate Order.

Franchise Taxes = Forecasted cumulative qualified QIIP investment multiplied by composite franchise tax rate approved in the Relevant Rate Order.

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109 Wiehl Street Chattanooga, Tennessee 37403 **Gross Receipts Tax Rate** = Forecasted QIIP Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite gross receipts tax rate approved in the Relevant Rate Order.

Property Taxes = Forecasted cumulative qualified QIIP investment multiplied by composite property tax rate approved in the Relevant Rate Order.

QIIP Plant Retirements = Forecasted QIIP plant removed from service net of any associated cost of removal and salvage.

Forecasted QIIP Investment Amount = Average forecasted QIIP additions to plant infrastructure as described in Section 3, computed by use of average of 12 end-of-month balances.

Uncollectible Expense = Forecasted QIIP Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite uncollectible factor approved in the Relevant Rate Order.

Volumetric & Metered Revenue = the revenues authorized in the Relevant Rate Order for volumetric water sales, meter charges, and private fire service charges.

(C) The total amount to be recovered through the QIIP is the QIIP Percentage Rate as adjusted for the Annual Reconciliation Factor Percentage Rate.

5. Determination of the Annual Reconciliation Factor Percentage Rate

- (A) The Annual Reconciliation Factor Percentage shall be expressed as a percentage carried to two (2) decimal places. The Annual Reconciliation Factor Percentage shall be applied to the total amount billed to each Customer based on the Company's otherwise applicable rates and charges.
- (B) The Annual Reconciliation Factor Percentage Rate will be computed as follows:

Budget-to-Actual Adjustment Plus Over-Under Collection Adjustment

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TENNESSEE-AMERICAN WATER COMPANY

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Plus Earnings Test Adjustment

Plus Interest

Annual Reconciliation Amount

Divided by 9/12 of the Relevant Rate Order Volumetric & Metered Revenue

Annual Reconciliation Factor Percentage Rate

(C) Computation of the Budget-to-Actual Adjustment.

The Budget-to-Actual Adjustment will be computed as follows:

ACTUAL QIIP Investment Amount for the Annual Review Period

Less QIIP Plant Retirements (Net of Cost of Removal & Salvage)

Less Contributions in Aid of Construction

Less Accumulated Depreciation

Less Accumulated Deferred Income Taxes

Net Actual QIIP Qualifying Investment

Multiplied by the Pre-Tax ROR set forth in the Relevant Rate Order

Allowed Actual QIIP Pre-Tax Return

Plus Depreciation Expense

Plus Property Taxes

Plus Franchise Taxes

Subtotal Actual QIIP Revenue Requirement Before Revenue Tax

Divided by 1 minus the following:

Forfeited Discounts Rate

Plus Uncollectible Expense Rate

Plus Gross Receipts Tax Rate

Total Actual QIIP Revenue Requirement

Less Total Forecasted QIIP Revenue Requirement

Budget-to-Actual Adjustment

Where:

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Accumulated Depreciation = Accumulated depreciation calculated by debiting for Forecasted QIIP plant removed from service, and crediting for new accumulations using rates approved in the Relevant Rate Order on new investments, less retirements and CIAC

Accumulated Deferred Income Taxes = An average of the actual accumulated deferred income taxes related to actual QIIP investment at the beginning and end of the year.

Contributions in Aid of Construction = Non-investor supplied funds used in the construction of actual QIIP infrastructure.

Depreciation Expense = Actual cumulative qualified QIIP investment net of retirements and CIAC multiplied by depreciation rates approved in the Relevant Rate Order.

Forfeited Discount Rate = Actual QIIP Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite forfeited discount factor approved in the Relevant Rate Order.

Franchise Taxes = Actual cumulative qualified QIIP investment multiplied by composite franchise tax rate approved in the Relevant Rate Order.

Gross Receipts Tax Rate = Actual QIIP Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite gross receipts tax rate approved in the Relevant Rate Order.

Property Taxes = Actual cumulative qualified QIIP investment multiplied by composite property tax rate approved in the Relevant Rate Order.

QIIP Plant Retirements = Actual QIIP plant removed from service net of any associated cost of removal and salvage.

Actual QIIP Investment Amount = Average actual QIIP additions to plant infrastructure as described in Section 3, computed by use of average of 12 end-of-month balances.

Uncollectible Expense = Actual QIIP Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite uncollectible factor approved in the Relevant Rate Order.

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Volumetric & Metered Revenue = the revenues authorized in the Relevant Rate Order for volumetric water sales, meter charges, and private fire service charges.

(D) Computation of the Over-Under Collection Adjustment.

The Company will identify and record the total amount of the QIIP Collected from Customers for the Annual Review Period. The difference between the Total QIIP Collected from Customers and the Total Budgeted QIIP Revenue Requirement shall constitute the Over-Under Collection Adjustment. This adjustment shall include any remaining Over-Under amount from the prior period reconciliation during the Annual Review Period in addition to the Over-Under collection amount for the EDI during the Annual Review Period.

(E) Computation of the Earnings Test Adjustment.

If the earnings attained by the Company for the Annual Review Period exceed the earnings allowed for the Annual Review Period by applying the overall rate of return authorized in the Relevant Rate Order, then any such earnings difference shall constitute the Earnings Test Adjustment. If the earnings attained by the Company for the Annual Review Period are less than the earnings allowed for the Annual Review Period by applying the overall rate of return authorized in the Relevant Rate Order, then no Earnings Test Adjustment shall be recognized.

Any Earnings Test Adjustment shall be allocated among the Qualified Infrastructure Improvement Program Rider, the Economic Development Investment Rider, and the Safety and Environmental Compliance Rider based on the pro-rata revenues collected under these riders for the Annual Review Period for purposes of computing new rate adjustments.

(F) Computation of Interest.

Interest will be computed as follows:

Budget-to-Actual Adjustment Plus Over-Under Collection Adjustment Plus Earnings Test Adjustment

Total Amount Subject to Interest Interest Rate Multiplied by 50%

Total Interest

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Where "Interest Rate" equals the prime rate value published in the "Federal Reserve Bulletin" or in the Federal Reserve's "Selected Interest Rates" for the most recent preceding month.

6. New Base Rates

The QIIP rider will be reset at zero upon the establishment of new base rates to customer billings that provide for the prospective recovery of the annual costs that had theretofore been recovered under the QIIP. Thereafter, only the costs of new QIIP eligible plant additions that have not previously been reflected in the Company's rate base, would be reflected in new annual prospective QIIP filings.

7. Annual QIIP Percentage Rate Filing

On or before December 1 of each year, the Company shall submit to the Commission a calculation of the QIIP Percentage Rate for the following calendar year. The Annual QIIP Percentage Rate Filing shall be verified by an officer of the Company. The Annual QIIP Percentage Rate Filing shall include a calculation to adjust revenue to recover costs related to the Forecasted QIIP Investment Amount, with such revenue adjustment applied through the QIIP Percentage Rate. The QIIP Percentage Rate shall become effective on January 1 of each year and be applied as an adjustment to Customers' bills for the remainder of the calendar year.

The Company will include in its Annual QIIP Percentage Rate Filing the following information at a minimum: (a) computation of the QIIP Percentage Rate, including the detailed calculation of each component, (b) a budget of the Forecasted QIIP Investment Amount adopted by the Company's Board of Directors, (c) any related Strategic Capital Expenditures Plans, (d) a statement demonstrating how each projected capital investment comprising the Forecasted QIIP Investment Amount meets the requirements for recovery under this Rider set forth in Section 3, and (e) such other information as the Commission may direct.

The Company will simultaneously copy the Consumer Advocate on its Annual QIIP Percentage Rate Filing.

8. Annual Reconciliation Filing with the Commission

On or before March 1 of each year, the Company shall submit to the Commission a reconciliation of the results of the operation of the QIIP for the previous Annual Review Period. The Annual Reconciliation Filing shall be verified by an officer of the Company. The annual reconciliation shall include a calculation to adjust revenue collected under this QIIP Rider in effect for the prior Annual Review Period to an amount equivalent to the actual level of prudently-incurred QIIP cost for the prior Annual Review Period, with such revenue adjustment applied through the Annual Reconciliation Factor Percentage Rate. The Annual Reconciliation Factor Percentage Rate shall become effective on

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April 1 of each year and be applied as an adjustment to Customers' bills for the remainder of the calendar year.

The Company will include in its Annual Reconciliation Filing the following information at a minimum: (a) a schedule of all journal entries made related to this Rider for the Annual Review Period, including any related general ledger support, (b) actual billing determinants by month as used in the computation of the Total QIIP Collected from Customers for the Annual Review Period, (c) capitalization policy effective for the Annual Review Period, (d) computation of the Annual Reconciliation Factor Percentage Rate, including the detailed calculation of each component, (e) a schedule of any proposed prior period adjustments, (f) an affirmative statement of whether the Company is aware of any changes in market conditions or other factors that may affect whether the Rider is still in the public interest, including the identification of such factors if they exist, (g) the cumulative amount of QIIP collected from customers under this Rider, and (h) such other information as the Commission may direct.

The Company will simultaneously copy the Consumer Advocate on its Annual Reconciliation Filing.

9. Notice Requirements

The Company will file revised tariffs for Commission approval upon 30 days' notice to implement a decrement or an increment each January 1 and April 1. Along with the tariff filing, the Company will include a copy of the computation of the new rate adjustment. The Company will simultaneously copy the Consumer Advocate on this filing.

10. Public Interest Review

Nothing herein shall be construed to eliminate or otherwise restrict the opportunity of the Consumer Advocate or any other interested party from seeking a review of this Rider, as permitted by law and the rules and regulations of the Commission, for a reconsideration of whether it remains in the public interest.

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CLASSIFICATION OF SERVICE

SAFETY AND ENVIRONMENTAL COMPLIANCE - RIDER

1. Applicability

In addition to the other charges provided for in this Tariff under Service Classifications Residential, Commercial, Industrial, Other Public Authority, Sales for Resale, and Private Fire, a Safety and Environmental Compliance Program ("SEC") Rider will apply to customers in all service areas.

The above rider will be recomputed annually and be adjusted periodically to incorporate the Annual Reconciliation Factor.

2. Definitions

For the purposes of this Rider:

- "Actual SEC Investment Amount" means the amount of actual capital investment and associated operating expenses of the Company for the Safety and Environmental Compliance Program and not otherwise included in current base rates. At the time of the Company's next general rate case proceeding, all prudently incurred Actual SEC Investment Amounts associated with this Rider shall be included in base rates.
- "Annual Reconciliation Factor" means an adjustment factor to true-up rates from forecasted costs to the actual costs incurred through application of 1) the Budget-to-Actual Adjustment and 2) the Over-Under Collection Adjustment, and the 3) Earnings Test Adjustment, as adjusted for Interest.
- "Annual Review Period" means the twelve-month period between the annual adjustments of the SEC Percentage Rate. For the first year beyond the attrition year of the base rate case, this review period may be shorter or longer than a twelve-month period to cover expenditures between the attrition year and the start of the subsequent calendar year.

"Commission" means the Tennessee Public Utility Commission.

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"Budget-to-Actual Adjustment" means the adjustment to SEC for the applicable coming annual period due to the difference between the Forecasted SEC Investment and Expense Amount and the Actual SEC Investment and Expense Amount.

"Consumer Advocate" means the Consumer Advocate and Protection Division of the Office of the Tennessee Attorney General.

"Forecasted SEC Investment Amount" means the amount of forecasted capital investment of the Company for the Safety and Environmental Compliance Program and not otherwise included in current base rates.

- "Over-Under Collection Adjustment" means the adjustment to SEC for the applicable coming annual period due to the net amount of over or under collections. This will include over-under collections from the annual review period EDI and any remaining balance of the over-under collection from the prior reconciliation of the EDI.
 - "Relevant Rate Order" means the final order of the Commission in the most recent rate case of the Company fixing the rates of the Company or the most recent final order of the Commission specifically prescribing or fixing the factors and procedures to be used in the application of this Rider.

3. General Description

SEC allows the Company to recover outside of a rate case its qualifying incremental non-revenue producing plant infrastructure investment and expenses. For purposes of this Rider, qualifying SEC investment includes the following:

Distribution and Production Infrastructure – Distribution, production, and other infrastructure that may be identified as being for the purpose of safety and environmental compliance.

Safety and Environmental Expenses – Operational expenses similar to other expenses authorized in previous rate cases that are specifically new expenses for safety and environmental compliance or to support safety and environmental compliance utility plant.

SEC Investment is to be identifiable on the Company's books and segregated into the following general accounts:

Account 331 - Transmission & Distribution Mains;

Account 333 - Services;

Account 334 – Meters & Meter Installations;

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PRESIDENT

Account 335 - Hydrants;

Account 320 - Water Treatment Equipment, Non-Media;

Account 311 - Pumping Equipment;

Account 303 - Land and Land Rights;

Account 304 – Structures and Improvements;

Account 306 - Lake, River and Other Intakes;

Account 307 - Wells and Springs;

Account 309 - Supply Mains;

Account 310 – Power Generation Equipment

Account 330 - Distribution Reservoirs and Standpipes; and

Account 330003 - Capitalized Tank Painting.

4. Determination of the Safety and Environmental Compliance Program Percentage Rate

- (A) The SEC percentage shall be expressed as a percentage carried to two (2) decimal places. The SEC percentage shall be applied to the total amount billed to each Customer based on the Company's otherwise applicable rates and charges.
- (B) The SEC percentage shall be calculated on an annual prospective basis as follows:

FORECASTED SEC Investment Amount

Less SEC Plant Retirements (Net of Cost of Removal & Salvage)

Less Contributions in Aid of Construction

Less Accumulated Depreciation

Less Accumulated Deferred Income Taxes

Net Forecasted SEC Qualifying Investment

Multiplied by the Pre-Tax ROR set forth in the Relevant Rate Order

Allowed Forecasted SEC Pre-Tax Return

Plus Depreciation Expense

Plus Property Taxes

Plus Franchise Taxes

Plus Safety and Environmental Compliance Operational Expenses

Subtotal Forecasted SEC Revenue Requirement Before Revenue Tax

Divided by 1 minus the following:

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Forfeited Discounts Rate
Plus Uncollectible Expense Rate
Plus Gross Receipts Tax Rate
Total Forecasted SEC Revenue Requirement

Divided by Relevant Rate Order Volumetric & Metered Revenue

SEC Percentage Rate

Where:

Accumulated Depreciation = Accumulated depreciation calculated by debiting for Forecasted SEC plant removed from service, and crediting for new accumulations using rates approved in the Relevant Rate Order on new investments, less retirements and CIAC.

Accumulated Deferred Income Taxes = An average of the forecasted accumulated deferred income taxes related to qualified forecasted SEC investment at the beginning and end of the year.

Contributions in Aid of Construction = Non-investor supplied funds used in the construction of forecasted SEC infrastructure.

Depreciation Expense = Forecasted cumulative qualified SEC investment net of retirements and CIAC, multiplied by depreciation rates approved in the Relevant Rate Order.

Forfeited Discount Rate = Forecasted SEC Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite forfeited discount factor approved in the Relevant Rate Order.

Franchise Taxes = Forecasted cumulative qualified SEC investment multiplied by composite franchise tax rate approved in the Relevant Rate Order.

Gross Receipts Tax Rate = Forecasted SEC Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite gross receipts tax rate approved in the Relevant Rate Order.

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BY:

Valoria V. Armstrong

PRESIDENT

Property Taxes = Forecasted cumulative qualified SEC investment multiplied by composite property tax rate approved in the Relevant Rate Order.

SEC Plant Retirements = Forecasted SEC plant removed from service net of any associated cost of removal and salvage.

Forecasted SEC Investment Amount = Average forecasted SEC additions to plant infrastructure as described in Section 3, computed by use of average of 12 end-of-month balances.

Safety and Environmental Compliance Expenses = the incremental operational expenses similar to other expenses authorized in previous rate cases that are specifically for safety and environmental compliance or to support safety and environmental compliance utility plant.

Uncollectible Expense = Forecasted SEC Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite uncollectible factor approved in the Relevant Rate Order.

Volumetric & Metered Revenue = the revenues authorized in the Relevant Rate Order for volumetric water sales, meter charges, and private fire service charges.

(C) The total amount to be recovered through the SEC is the SEC Percentage Rate as adjusted for the Annual Reconciliation Factor Percentage Rate.

5. <u>Determination of the Annual Reconciliation Factor Percentage Rate</u>

- (A) The Annual Reconciliation Factor Percentage shall be expressed as a percentage carried to two (2) decimal places. The Annual Reconciliation Factor Percentage shall be applied to the total amount billed to each Customer based on the Company's otherwise applicable rates and charges.
- (B) The Annual Reconciliation Factor Percentage Rate will be computed as follows:

Budget-to-Actual Adjustment
Plus Over-Under Collection Adjustment

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ISSUED: October 3, 2017

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Valoria V. Armstrong

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109 Wiehl Street

Plus Earnings Test Adjustment
Plus Interest
Annual Reconciliation Amount

Divided by 9/12 of the Relevant Rate Order Volumetric & Metered Revenue

Annual Reconciliation Factor Percentage Rate

(C) Computation of the Budget-to-Actual Adjustment.

The Budget-to-Actual Adjustment will be computed as follows:

ACTUAL SEC Investment Amount for the Annual Review Period

Less SEC Plant Retirements (Net of Cost of Removal & Salvage)

Less Contributions in Aid of Construction

Less Accumulated Depreciation

Less Accumulated Deferred Income Taxes

Net Actual SEC Qualifying Investment

Multiplied by the Pre-Tax ROR set forth in the Relevant Rate Order

Allowed Actual SEC Pre-Tax Return

Plus Depreciation Expense

Plus Property Taxes

Plus Franchise Taxes

Plus Safety and Environmental Compliance Operational Expenses

Subtotal Actual SEC Revenue Requirement Before Revenue Tax

Divided by 1 minus the following:

Forfeited Discounts Rate

Plus Uncollectible Expense Rate

Plus Gross Receipts Tax Rate

Total Actual SEC Revenue Requirement

Less Total Forecasted SEC Revenue Requirement

Budget-to-Actual Adjustment

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Where:

Accumulated Depreciation = Accumulated depreciation calculated by debiting for Forecasted SEC plant removed from service, and crediting for new accumulations using rates approved in the Relevant Rate Order on new investments, less retirements and CIAC

Accumulated Deferred Income Taxes = An average of the actual accumulated deferred income taxes related to actual SEC investment at the beginning and end of the year.

Contributions in Aid of Construction = Non-investor supplied funds used in the construction of actual SEC infrastructure.

Depreciation Expense = Actual cumulative qualified SEC investment net of retirements and CIAC multiplied by depreciation rates approved in the Relevant Rate Order.

Forfeited Discount Rate = Actual SEC Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite forfeited discount factor approved in the Relevant Rate Order.

Franchise Taxes = Actual cumulative qualified SEC investment multiplied by composite franchise tax rate approved in the Relevant Rate Order.

Gross Receipts Tax Rate = Actual SEC Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite gross receipts tax rate approved in the Relevant Rate Order.

Property Taxes = Actual cumulative qualified SEC investment multiplied by composite property tax rate approved in the Relevant Rate Order.

SEC Plant Retirements = Actual SEC plant removed from service net of any associated cost of removal and salvage.

Actual SEC Investment Amount = Average actual SEC additions to plant infrastructure as described in Section 3, computed by use of average of 12 end-of-month balances.

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Valoria V. Armstrong

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Safety and Environmental Compliance Expenses = the incremental operational expenses similar to other expenses authorized in previous rate cases that are specifically for safety and environmental compliance or to support safety and environmental compliance utility plant.

Uncollectible Expense = Actual SEC Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite uncollectible factor approved in the Relevant Rate Order.

Volumetric & Metered Revenue = the revenues authorized in the Relevant Rate Order for volumetric water sales, meter charges, and private fire service charges.

(D) Computation of the Over-Under Collection Adjustment.

The Company will identify and record the total amount of the SEC Collected from Customers for the Annual Review Period. The difference between the Total SEC Collected from Customers and the Total Budgeted SEC Revenue Requirement shall constitute the Over-Under Collection Adjustment. This adjustment shall include any remaining Over-Under

- (T) amount from the prior period reconciliation during the Annual Review Period in addition to
 (T) the Over-Under collection amount for the EDI during the Annual Review Period.
 - (E) Computation of the Earnings Test Adjustment.

If the earnings attained by the Company for the Annual Review Period exceed the earnings allowed for the Annual Review Period by applying the overall rate of return authorized in the Relevant Rate Order, then any such earnings difference shall constitute the Earnings Test Adjustment. If the earnings attained by the Company for the Annual Review Period are less than the earnings allowed for the Annual Review Period by applying the overall rate of return authorized in the Relevant Rate Order, then no Earnings Test Adjustment shall be recognized.

Any Earnings Test Adjustment shall be allocated among the Qualified Infrastructure Improvement Program Rider, the Economic Development Investment Rider, and the Safety and Environmental Compliance Rider based on the pro-rata revenues collected under these riders for the Annual Review Period for purposes of computing new rate adjustments.

(F) Computation of Interest.

Interest will be computed as follows:

(T) Denotes Change in Text

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EFFECTIVE: November 2, 2017

BY:

(T)

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Budget-to-Actual Adjustment Plus Over-Under Collection Adjustment Plus Earnings Test Adjustment

Total Amount Subject to Interest Interest Rate Multiplied by 50%

Total Interest

Where "Interest Rate" equals the prime rate value published in the "Federal Reserve Bulletin" or in the Federal Reserve's "Selected Interest Rates" for the most recent preceding month.

6. New Base Rates

The SEC rider will be reset at zero upon the establishment of new base rates to customer billings that provide for the prospective recovery of the annual costs that had theretofore been recovered under the SEC. Thereafter, only the costs of new SEC eligible plant additions that have not previously been reflected in the Company's rate base, would be reflected in new annual prospective SEC filings.

7. Annual SEC Percentage Rate Filing

On or before December 1 of each year, the Company shall submit to the Commission a calculation of the SEC Percentage Rate for the following calendar year. The Annual SEC Percentage Rate Filing shall be verified by an officer of the Company. The Annual SEC Percentage Rate Filing shall include a calculation to adjust revenue to recover costs related to the Forecasted SEC Investment Amount, with such revenue adjustment applied through the SEC Percentage Rate. The SEC Percentage Rate shall become effective on January 1 of each year and be applied as an adjustment to Customers' bills for the remainder of the calendar year.

The Company will include in its Annual SEC Percentage Rate Filing the following information at a minimum: (a) computation of the SEC Percentage Rate, including the detailed calculation of each component, (b) a budget of the Forecasted SEC Investment Amount and Forecasted Safety and Environmental Compliance Operational Expenses adopted by the Company's Board of Directors, (c) any related Strategic Capital Expenditures Plans, (d) statements demonstrating how each projected capital investment comprising the Forecasted SEC Investment Amount and each projected operational expense comprising the Forecasted Safety and Environmental Compliance Operational Expenses meet the requirements for recovery under this Rider set forth in Section 3, and (e) such other information as the Commission may direct.

(T) Denotes Change in Text

ISSUED: October 3, 2017

EFFECTIVE: November 2, 2017

BY:

Valoria V. Armstrong

PRESIDENT

The Company will simultaneously copy the Consumer Advocate on its Annual SEC Percentage Rate Filing.

8. Annual Reconciliation Filing with the Commission

On or before March 1 of each year, the Company shall submit to the Commission a reconciliation of the results of the operation of the SEC for the previous Annual Review Period. The Annual Reconciliation Filing shall be verified by an officer of the Company. The annual reconciliation shall include a calculation to adjust revenue collected under this SEC Rider in effect for the prior Annual Review Period to an amount equivalent to the actual level of prudently-incurred SEC cost for the prior Annual Review Period, with such revenue adjustment applied through the Annual Reconciliation Factor Percentage Rate. The Annual Reconciliation Factor Percentage Rate shall become effective on April 1 of each year and be applied as an adjustment to Customers' bills for the remainder of the calendar year.

The Company will include in its Annual Reconciliation Filing the following information at a minimum: (a) a schedule of all journal entries made related to this Rider for the Annual Review Period, including any related general ledger support, (b) actual billing determinants by month as used in the computation of the Total SEC Collected from Customers for the Annual Review Period, (c) capitalization policy effective for the Annual Review Period, (d) computation of the Annual Reconciliation Factor Percentage Rate, including the detailed calculation of each component, (e) schedules of the Actual SEC Investment Amount and Actual Safety and Environmental Compliance Operational Expenses, including related general ledger support, (f) a schedule of any proposed prior period adjustments, (g) an affirmative statement of whether the Company is aware of any changes in market conditions or other factors that may affect whether the Rider is still in the public interest, including the identification of such factors if they exist, (h) the cumulative amount of SEC collected from customers under this Rider, and (i) such other information as the Commission may direct.

The Company will simultaneously copy the Consumer Advocate on its Annual Reconciliation Filing.

9. Notice Requirements

The Company will file revised tariffs for Commission approval upon 30 days' notice to implement a decrement or an increment each January 1 and April 1. Along with the tariff filing, the Company will include a copy of the computation of the new rate adjustment. The Company will simultaneously copy the Consumer Advocate on this filing.

10. Public Interest Review

(T) Denotes Change in Text

ISSUED: October 3, 2017

EFFECTIVE: November 2, 2017

BY:

Valoria V. Armstrong

PRESIDENT

Nothing herein shall be construed to eliminate or otherwise restrict the opportunity of the Consumer Advocate or any other interested party from seeking a review of this Rider, as permitted by law and the rules and regulations of the Commission, for a reconsideration of whether it remains in the public interest.

(T) Denotes Change in Text

ISSUED: October 3, 2017

EFFECTIVE: November 2, 2017

BY:

Valoria V. Armstrong

PRESIDENT

109 Wiehl Street

CLASSIFICATION OF SERVICE

SUMMARY OF RIDERS

1. Applicability

In addition to the other charges provided for in this Tariff under Service Classifications Residential, Commercial, Industrial, Other Public Authority, Sales for Resale, and Private Fire, a Qualified Infrastructure Improvement Program ("QIIP") Rider, an Economic Development Investment Program Rider ("EDI"), a Safety and Environmental Compliance Program Rider (SEC"), and Production Costs and Other Pass-Throughs Rider ("PCOP") will apply to customers in all service areas.

2. The Percentage of Riders and Reconciliations

For the Riders defined in the tariffs:

QIIP	10.05 %	
EDI	0.41 %	
SEC Subtotal of all Capital Recovery Riders	5.97 % 16.43 %	
QIIP Annual Reconciliation Percentage EDI Annual Reconciliation Percentage SEC Annual Reconciliation Percentage Subtotal of all Reconciliation Percentages	0.000 % 0.000 % 0.000 % 0.000 %	
Total of Capital Recovery Riders and Reconciliation Percentages	16.430%	
PCOP	-1.25 %	(I)

(D) Indicates Decrease

(I) Indicates Increase

ISSUED:

May 17, 2018

EFFECTIVE: May 15, 2018

BY:

Valoria Armstrong

PRESIDENT

109 Wiehl Street

CLASSIFICATION OF SERVICE

SUMMARY OF RIDERS

1. Applicability

In addition to the other charges provided for in this Tariff under Service Classifications Residential, Commercial, Industrial, Other Public Authority, Sales for Resale, and Private Fire, a Qualified Infrastructure Improvement Program ("QIIP") Rider, an Economic Development Investment Program Rider ("EDI"), a Safety and Environmental Compliance Program Rider (SEC"), and Production Costs and Other Pass-Throughs Rider ("PCOP") will apply to customers in all service areas.

2. The Percentage of Riders and Reconciliations

Valoria Armstrong

PRESIDENT

For the Riders defined in the tariffs: QIIP 12.79 % (I) **EDI** 0.68 % (I) SEC 7.50 % (I) Subtotal of all Capital Recovery Riders 21.00 % (I) QIIP Annual Reconciliation Percentage 0.000% (D) EDI Annual Reconciliation Percentage 0.000 % (I) SEC Annual Reconciliation Percentage 0.000% (I) Subtotal of all Reconciliation Percentages 0.000% (D) Total of Capital Recovery Riders and Reconciliation Percentages 21.00% (I) (N) Offset to Capital Recovery Riders for TCJA savings -4.57 % (N) **PCOP** -1.25 % (D) Indicates Decrease Indicates Increase (I)(N) Indicates New **ISSUED:** November 16, 2018 **EFFECTIVE:** January 1, 2019 BY:

109 Wiehl Street

STATE OF <u>New Jersey</u>)
COUNTY OF <u>Camden</u>

BEFORE ME, the undersigned authority, duly commissioned and qualified in and for the State and County aforesaid, personally came and appeared Melissa L. Schwarzell, being by me first duly sworn deposed and said that:

She is appearing as a witness on behalf of Tennessee-American Water Company before the Tennessee Public Utility Commission, and if present before the Commission and duly sworn, her testimony would be as set forth in her pre-filed testimony in this matter.

Melissa L. Schwarzel

Sworn to and subscribed before me this //d day of November, 2018.

Notary Public

My Commission Expires:

MARTHA B. MAZEIKA NOTARY PUBLIC OF NEW JERSEY Comm. # 2419220 My Commission Expires 3/30/2022

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing was served via U.S. Mail or electronic mail upon:

Daniel Whitaker III
Consumer Protection and Advocate Division
Office of the Tennessee Attorney General
P.O. Box 20207
Nashville, TN 37202-0207
Daniel.Whitaker@ag.tn.gov

This the 19th day of February, 2019.

Melvin J. Maløne