

PETITIONER'S EXHIBIT LCB-1

TENNESSEE-AMERICAN WATER COMPANY, INC.

DOCKET NO. 16-_____

DIRECT TESTIMONY

OF

LINDA C. BRIDWELL

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:

PETITIONER'S EXHIBIT SUMMARY – LCB

PETITIONER'S EXHIBIT – AVG IMPACT – LCB

PETITIONER'S EXHIBIT – QIIP 1 – LCB

PETITIONER'S EXHIBIT – QIIP 2 – LCB

PETITIONER'S EXHIBIT – EDI 1 – LCB

PETITIONER'S EXHIBIT – EDI 2 – LCB

PETITIONER'S EXHIBIT – SEC 1 – LCB

PETITIONER'S EXHIBIT – SEC 2 – LCB

PETITIONER'S EXHIBIT – ANNUAL APPROVED TARIFFS -- LCB

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

PETITIONER'S EXHIBIT – CURRENT TARIFF SHEET NO. 12 – RIDERS – LCB

PETITIONER'S EXHIBIT – PROPOSED TARIFF SHEET NO. 12 – RIDERS - LCB

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

2 A. My name is Linda C. Bridwell and my business address is 2300 Richmond Road,
3 Lexington, Kentucky 40502.

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

5 A. I am employed by American Water Works Service Company (“AWW”) as Manager of
6 Rates and Regulation for Tennessee and Kentucky.

7 **Q. HAVE YOU PREVIOUSLY FILED TESTIMONY BEFORE THIS OR ANY**
8 **OTHER COMMISSION?**

9 A. Yes. I provided written testimony before the Tennessee Regulatory Authority (“TRA” or
10 “Authority”) in TRA Docket No. 12-00049 and TRA Docket No. 15-00001, and both
11 written and oral testimony in TRA Docket No. 14-00121, 15-00029, 15-00111, 15-00131,
12 and 16-00022. I have also provided both written and oral testimony in at least sixteen
13 different proceedings before the Kentucky Public Service Commission (“PSC”),
14 including rate cases, special investigations, and applications for a Certificate of Public
15 Convenience and Necessity.

16 **Q. PLEASE STATE YOUR EDUCATIONAL AND PROFESSIONAL**
17 **BACKGROUND.**

18 A. I received a B.S. degree in Civil Engineering from the University of Kentucky in 1988,
19 and I received a M.S. degree in Civil Engineering from the University of Kentucky in
20 1992, with an emphasis in water resources. I completed a Masters of Business
21 Administration from Xavier University in Cincinnati, Ohio in 2000. I am a registered
22 Professional Engineer in the Commonwealth of Kentucky.

1 I have been employed by American Water (“AWW”) since 1989. I began as a
2 distribution supervisor for Kentucky American Water (“KAWC”) until 1990 when I was
3 promoted to Planning Engineer, then Engineering Manager, and later Director of
4 Engineering in 1998. In July 2004, I accepted the position of Project Delivery and
5 Developer Services Manager for the Southeast Region of AWW, responsible for
6 Kentucky, Tennessee, and West Virginia. In 2008, I became the KAWC Project Delivery
7 Manager for the construction of a new water treatment plant, booster station, and
8 transmission main in Kentucky. This project was the largest project completed by
9 American Water, in any of its regulated businesses, at \$164 million. Upon completion of
10 the project in October 2010, I became the Director of Environmental Compliance and
11 Water Quality for KAWC and in February of 2012 I accepted my current position. I am
12 an active member of the American Water Works Association (AWWA), served as
13 president of the local chapter and state section of the American Society of
14 Civil Engineering (ASCE), and served as an officer in the local chapter of the National
15 Society of Professional Engineers (NSPE) and as a State officer. I have served
16 periodically as an Adjunct Professor at the University of Kentucky in the
17 Civil Engineering Department, teaching “Water Quality and Pollution Control” and the
18 “Introduction to Environmental Engineering.” I served as a member of the
19 Civil Engineering Industrial Advisory Committee at the University of Kentucky from
20 2005 until 2012. I served as a Commissioner on the Kentucky Water Resources
21 Development Commission established by Governor Patton and on the Kentucky State
22 Board of Licensure for Professional Engineers and Land Surveyors. I currently serve as
23 Vice Chairman of the Board of Directors for the Kentucky Infrastructure Authority.

1 **Q. WHAT ARE YOUR DUTIES AS MANAGER OF RATES AND REGULATION?**

2 A. My primary responsibilities encompass the coordination of regulatory issues in
3 Tennessee and Kentucky. This includes coordinating all reports and filings, working
4 with regulatory staff to make sure that all information produced addresses the
5 requirements or requests, and overseeing the preparation and filing of rate cases and tariff
6 changes. I work with the senior management in both states on planning. I am also
7 responsible for keeping abreast of changes in regulation, or trends in regulatory oversight
8 across the United States that may impact our local operations. I report to the Presidents
9 of Tennessee American Water (“Tennessee American,” “TAWC” or “Company”) and
10 KAWC dually. I am located in Kentucky, but work closely with the TAWC staff in
11 Tennessee as well.

12 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

13 A. The purpose of my testimony is to support the calculation of the 2017 Capital Recovery
14 Riders described in TAWC’s Petition. On April 14, 2014, the TRA approved four new
15 alternative rate mechanisms for TAWC, effective April 15, 2014, in TRA Docket No. 13-
16 00130. Three of these alternative rate mechanisms were capital program recovery riders,
17 commonly referred to as the “Capital Recovery Riders,” and one was for a rider for
18 Production Costs and Other Pass-throughs (“PCOP”). The three Capital Recovery Riders
19 are the only items included in this current Petition.

20 On June 29, 2015, the TRA approved an adjustment to the three Capital Recovery
21 Riders for 2015 in Docket No. 14-00121 with some modifications to one of the Capital
22 Recovery Riders. Those modifications, set forth in the TRA’s February 1, 2016, *Order*
23 *Granting, In Part, Denying, In Part, Petition*, have been incorporated into the current

Petition for an adjustment for 2017. Additionally, TAWC has included the corrections made to the Capital Recovery Riders calculations in Docket No. 15-00111 and 16-00022.¹

Q. ARE YOU SPONSORING ANY EXHIBITS?

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

Petitioner's Exhibit -- Summary -- LCB

Petitioner's Exhibit -- Average Impact -- LCB

Petitioner's Exhibit -- QIIP 1 -- LCB

Petitioner's Exhibit -- QIIP 2 -- LCB

Petitioner's Exhibit -- EDI 1 -- LCB

Petitioner's Exhibit -- EDI 2 -- LCB

Petitioner's Exhibit -- SEC 1 -- LCB

Petitioner's Exhibit -- SEC 2 -- LCB

Petitioner's Exhibit -- Annual Approved Tariffs -- LCB

Petitioner's Exhibit -- Current Tariff Sheet No. 12 -- Capital Riders -- LCB

Petitioner's Exhibit -- Current Tariff Sheet No. 12 -- Riders -- LCB

Petitioner's Exhibit -- Proposed Tariff Sheet No. 12 -- Riders - LCB

I will discuss these exhibits in further detail in my testimony below.

Q. WERE THE PETITIONER'S EXHIBITS LISTED ABOVE PREPARED BY YOU OR UNDER YOUR DIRECTION AND SUPERVISION?

A. Yes.

Q. WHAT WERE THE SOURCES OF THE DATA USED TO PREPARE THE PETITIONER'S EXHIBITS LISTED ABOVE?

A. The data used to prepare the exhibits was acquired from the books of account and business records of Tennessee American, the officers and associates of Tennessee American with knowledge of the facts based on their job responsibilities and activities,

¹ See *Order Approving Petition As Amended*, TRA Docket No. 15-00111 (May 16, 2016); *Pre-filed Testimony of TAWC Witness Linda C. Bridwell*, TRA Docket No. 16-00022; and *TRA Transcript of Proceedings*, TRA Docket No. 16-00022 (Oct. 10, 2016).

1 and other internal sources which I examined in the course of my investigation of the
2 matters addressed in this testimony.

3 **Q. DO YOU CONSIDER THIS DATA TO BE RELIABLE AND OF A TYPE THAT**
4 **IS NORMALLY USED AND RELIED ON IN YOUR BUSINESS FOR SUCH**
5 **PURPOSES?**

6 A. Yes.

7 **Q. DO THE PETITIONER'S EXHIBITS LISTED ABOVE ACCURATELY**
8 **SUMMARIZE SUCH DATA AND THE RESULTS OF ANALYSIS USING SUCH**
9 **DATA?**

10 A. Yes, they do.

11 **Q. WHAT ARE THE THREE CAPITAL RECOVERY RIDERS APPROVED BY**
12 **THE TRA?**

13 A. Pursuant to Tennessee Code Annotated Section 65-5-103 et seq., the three Capital
14 Recovery Riders authorized in Docket No. 13-00130 are based on certain categories of
15 capital expenditures to cover the investment period of calendar year 2014. The first
16 Capital Recovery Rider is the Qualified Infrastructure Investment Program ("QIIP")
17 Rider. This rider is designed to recover the costs associated with the capital investment
18 made in between rate cases to replace aging infrastructure that is non-revenue producing.
19 This means infrastructure that does not produce additional revenues. Examples of
20 infrastructure that produces additional revenues are main extensions specifically for a
21 new development, or new services or meters for new customers. As outlined in Docket
22 No. 13-00130, aging water and wastewater infrastructure is a growing problem across the
23 United States, including Tennessee, that will require significant investments over the next

1 few decades to continue to provide clean and reliable water service. This rider helps
2 TAWC address the replacement of this critical, aging infrastructure. The QIIP Rider
3 includes replacement of existing infrastructure in the areas of mains, meters, services,
4 hydrants, water treatment equipment, pumping equipment, and tank painting.

5 The second Capital Recovery Rider is the Economic Development Investment
6 (“EDI”) Rider. This rider is primarily for the recovery of investment made in
7 infrastructure to assist in economic development in the communities and areas served by
8 TAWC. Communities across the country are competing for economic development
9 opportunities to provide growth in jobs, taxes, and overall quality of life for residents.
10 This rider provides an opportunity for TAWC to partner with the communities it serves to
11 assist in Economic Development. Additionally, unlike the QIIP Rider, the EDI Rider
12 may include operating expenses related specifically to economic development.

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

20 An adjustment to those three Capital Recovery Riders was authorized by the
21 Authority in Docket No. 14-00121 to cover the investment period of the calendar year
22 2015. A second adjustment to the three Capital Recovery Riders was authorized in
23 Docket No. 15-00111 to cover the investment period of the calendar year 2016. The

1 purpose of the current Petition is to comply with the tariffs approved in TRA Docket No.
2 13-00130 and provide the required information and supporting documentation in each of
3 the Capital Recovery Riders based on the projected investment period of 2017.

4 Attached to my testimony is Petitioner's Exhibit Current Tariff Sheet No. 12—
5 Capital Riders – LCB, which is a copy of all three Capital Recovery Riders tariff sheets
6 as approved in TRA Docket No. 13-00130, and as modified in TRA Docket No. 14-
7 00121 and as further clarified in TRA Docket No. 15-00029, Docket No. 15-00111 and
8 Docket No. 16-00022.

9 **Q. HOW IS THE PROCESS UNDER THE APPROVED CAPITAL RECOVERY**
10 **RIDERS DIFFERENT FROM THE PREVIOUS AND HISTORICAL**
11 **REGULATORY APPROACH WITH RESPECT TO INVESTMENT METHODS?**

12 A. As far as the projects and the investment into those projects are concerned, there isn't any
13 difference. The difference between the new riders and the future test year regulatory
14 approach that has been used by TAWC in rate cases is largely in the method and procedure
15 of filing, the deference of fully litigated rate cases and the lessening of rate shock, and the
16 multiple benefits of the streamlined alternative mechanisms. If it were not for the new
17 alternative regulatory methods available to the Authority and the regulated community,
18 TAWC would likely have had to file a rate case in 2016 or earlier. These new methods
19 have deferred the need to file a full rate case, at least in the short term. In theory, these
20 petitions should make the regulatory process much more streamlined and less burdensome,
21 without reducing effective and meaningful regulatory oversight. As intended under the
22 statute and approved by the Authority, the whole process is more efficient, timely and

1 much less expensive. There is no doubt but that the alternative rate adjustment methods are
2 working.

3 A.

4 **Q. IN DOCKET NO. 14-00121, THE TRA ORDERED CHANGES TO THE**
5 **ELIGIBLE ITEMS WITHIN THE EDI RIDER. ARE THE ITEMS EXCLUDED**
6 **BY THE AUTHORITY EXCLUDED IN THIS PETITION?**

7 A. Yes. In Docket No. 14-00121, the TRA made modifications to the eligible items within
8 the EDI Capital Recovery Rider, removing new services, new meters, and the alternative
9 fuel vehicles. These changes were recognized in Docket No. 15-00111 and are reflected
10 fully in this Petition. TAWC has removed those items from the EDI for not only the
11 current review period of 2017, but also removed the previously authorized cumulative
12 amounts of such items in the EDI Rider from all the review periods of 2014, 2015 and
13 2016.

14 **Q. IN DOCKET 15-00029, THE TRA ORDERED THAT GOING FORWARD, TAWC**
15 **SHOULD FILE WORKPAPERS IN A FORMAT THAT DOESN'T USE ARRAY**
16 **FORMULAS IN CALCULATIONS, AND FOLLOWS A CLEAR AUDIT TRAIL**
17 **FOR CALCULATIONS. HAS TAWC DONE THAT IN THIS FILING?**

18 A. Yes. TAWC prepared the files in an excel workbook similar to what was prepared in
19 Docket No. 13-00130 and Docket No. 14-00121. TAWC then prepared a "Proof"
20 worksheet in the excel file of the tabs that utilized array formulas for calculation, but
21 went through the calculations without array formulas. In the electronic version, the
22 "Proof" worksheets are found at the end of the excel workbook. There are also three new
23 reconciliation worksheets that demonstrate the total additions, removals and retirements

1 for 2014, 2015, 2016 and 2017. Consistent with the directive, this will provide a clear
2 audit trail of the calculations.

3 **Q. ARE THERE OTHER CHANGES TO THE EXCEL WORKBOOK OR**
4 **CALCULATIONS FROM THE FILES IN DOCKET NO. 15-00111 AND DO**
5 **THESE CHANGES ADDRESS ORDERING PARAGRAPH 5 OF THE TRA**
6 **ORDER IN DOCKET NO. 15-00111?**

7 A. Yes. In addition to any corrections that were carried forward from previous dockets,
8 Tennessee American made five changes and one update to the excel workbook to make it
9 more user-friendly. They are as follows:

10 1) Tennessee American added a “Workbook Info” worksheet to the excel workbook that
11 gives a general description of each worksheet in the workbook. This is the very first
12 worksheet or tab in the left-most position.

13 2) Tennessee American reorganized the tabs and color coded the tabs labelled at the
14 bottom of the workbook. There is a blank, blue coded tab labelled “Exhibits” that is to
15 the left of all of the exhibit tabs which are coded green. There is a second blank, blue
16 coded tab labelled “Workpapers” to the left of all of the workpaper tabs which are color
17 coded red. The workpaper tabs now start with the 2017 calculations in the left-most
18 position of the “Workpapers” section, with 2016, 2015 and 2014 tabs consecutively to the
19 right. A third blank, blue colored tab labelled “Reconciliations” is to the left and the start
20 of all of the reconciliation tabs now colored purple. Finally, there is a fourth blank, blue
21 coded tab labelled “Proofs” to the left of all of the proof tabs that are color coded yellow.
22 This reorganization should make it much easier for anyone looking in the excel
23 workbook to locate the information they are seeking.

1 3) Any hard-coded numbers within the workbook are now colored in a blue font to
2 enable a reviewer to identify them easily and quickly. On the same tab as any blue hard
3 coded numbers, there will be a footnote at the bottom of the tab identifying the reference
4 and source of the number.

5 4) In an effort to increase the quality control, Tennessee American implemented a
6 process to audit the workbook. There are a number of places in the workpapers and
7 exhibits that now have a “tie-point” to verify that numbers are calculating accurately.
8 These tie-points will not be printed on the pdf pages but should streamline any review of
9 the calculations.

10 5) Tennessee American updated the historical average retirements, CIAC and cost of
11 removal for 2012-2015 in the workpapers. These historical averages are used to project
12 the amount of retirements, CIAC and cost of removal by utility plant account.

13 6) Tennessee American also linked the 2015 Actual Capital Expenditures directly from
14 the final version of the calculations in Docket No. 16-00022, which calculated the
15 reconciliation. The final version was filed on October 5, 2016 in Docket No. 16-00022.
16 This should reduce the potential for any errors in copying and pasting the final,
17 authorized calculations. For ease of reference and to make the excel workbook link
18 correctly, Tennessee American has included an electronic version of that excel file
19 labelled “TAW Final Version of Exhibits 1600022 10_4_16.xlsx.” Because of the
20 volume of pages to print that file, Tennessee American has not provided a pdf version of
21 that file in the workpapers here.

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

1 **Q. HOW HAS THE APPLICATION OF THE EDI RIDER BEEN DIFFERENT**
2 **FROM THE PREVIOUS INVESTMENT REGULATORY METHODS UTILIZED**
3 **BY TAWC PRIOR TO THE APPROVAL OF THE RIDERS IN TRA DOCKET**
4 **NO. 13-00130?**

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

1 **Q. HOW IS THE SEC RIDER ALSO DIFFERENT FROM PREVIOUS**
2 **INVESTMENT METHODS OF INVESTMENT THAT WERE AVAILABLE TO**
3 **TAWC PRIOR TO THE APPROVAL OF THE RIDERS IN TRA DOCKET NO.**
4 **13-00130?**

5 A. The overall strategy is similar, but an important difference is that the investment is made
6 through a program that expressly delineates and highlights the reason needed for the
7 investment. To the extent that additional investments are made for safety and
8 environmental compliance measures under the SEC Rider, the purpose of the investment
9 will be more transparent to the customer and to the Authority.

10 **Q. DO THE CAPITAL RECOVERY RIDERS BENEFIT THE CUSTOMERS?**

11 A. Yes. The QIIP, the EDI and the SEC Riders are mutually beneficial to the ratepayers, the
12 public, and TAWC. The Qualified Infrastructure Program Rider, the Economic
13 Development Investment Rider, and the Safety and Environmental Compliance Rider, in
14 part, reduce the need for general rate cases, lessen the occurrence of consumer “rate
15 shock,” support the maintenance and improvement of essential infrastructure, support
16 opportunities for successful economic development, growth and job creation, ensure
17 safety and reliability, and allow for more efficient, streamlined regulation. The
18 ratepayers and the public benefit from the safety and reliability components and from the
19 more seamless and timely capital investment in infrastructure, coupled with the related
20 support to economic development, growth and job creation. The Company benefits from
21 a more efficient, streamlined regulatory process that presents TAWC with the opportunity
22 to timely recover its expenses and earn a fair rate of return on its investments.

1 **Q. YOU MENTIONED THAT THE COMPANY BENEFITS FROM THE RIDERS**
2 **BECAUSE THE RIDERS PROVIDE THE COMPANY WITH THE**
3 **OPPORTUNITY TO TIMELY RECOVER ITS EXPENSES AND EARN A FAIR**
4 **RATE OF RETURN ON ITS INVESTMENTS. CAN YOU ELABORATE ON**
5 **THIS?**

6 A. Certainly. The Capital Recovery Riders permit TAWC to recover the cost of capital
7 investment between rate cases in an efficient, streamlined regulatory process. As
8 outlined in my testimony, each year Tennessee American estimates or forecasts the
9 amount of qualified capital investment (QIIP), infrastructure investment and eligible
10 expenses (EDI) and safety and environmental compliance investment and eligible
11 expense (SEC) that it expects to spend for the upcoming calendar year, in this Petition for
12 2017. The Company will then calculate what it costs to recover the expenditures
13 associated with such forecasted capital investment and expenses. For example, if the
14 Company were to invest \$1 million dollars on a QIIP project in the forecast year, the
15 Company would not recover that entire \$1 million that year. Rather, it will only recover
16 a return on that investment (which includes a weighted return on equity and interest on
17 debt as authorized in the most recent rate case), as well as depreciation expense and
18 taxes. After it calculates what it costs to recover the expenditures associated with the
19 forecasted capital investment and expenses, Tennessee American then determines –
20 through a second calculation – the percentage of the costs to recover those expenditures
21 as an amount of the overall revenue authorized in the last rate case. This is the surcharge
22 amount. The surcharge then represents recovery for the costs to support the capital
23 investments. So, under the Capital Recovery Rider tariffs as approved, the monthly

1 surcharge over 12 months in the forecasted year would represent the annual recovery of
2 the cost to support the capital investment.

3 **Q. BEFORE THE TRA APPROVED THE CAPITAL RECOVERY RIDERS, WHAT**
4 **PROCESS DID TAWC USE TO RECOVER THE EXPENSES ASSOCIATED**
5 **WITH CAPITAL INVESTMENT AND HAVE THE OPPORTUNITY TO EARN A**
6 **FAIR RETURN?**

7 A. Regulated utilities cannot increase their rates in Tennessee without approval of the TRA,
8 which prior to the passage of the alternative regulation statute required a full rate case
9 filing. So, TAWC employed rate cases for appropriate recovery.

10 **Q. IS THERE A DRAWBACK TO RATE CASES?**

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

16 **Q. CAN YOU EXPLAIN THE CALCULATION OF THE CAPITAL RECOVERY**
17 **RIDERS?**

18 A. Certainly. As set forth in the approved tariffs, all three Capital Recovery Riders are
19 established on an annual prospective basis utilizing average end-of-month balances and
20 should reflect only those qualified plant additions installed after the conclusion of the
21 initial rate year in Docket No. 12-00049. Consistent with the tariffs, the qualified plant
22 additions are reduced by the projected retirements associated with the Capital Recovery
23 Rider additions in the calculation of applicable depreciation and property tax expense. As

1 discussed earlier in my testimony, the EDI and SEC Riders can be increased by the
2 appropriate operating expenses. However, TAWC has not included any operating
3 expenses for the EDI or SEC riders in this Petition. In this case, Tennessee American has
4 proposed to begin the attrition period for each of the Capital Recovery Riders on January
5 1, 2017, ending December 31, 2017. This annual review period was established in the
6 tariffs submitted on March 25, 2014, and approved in Docket No. 13-00130 on April 14,
7 2014.

8 The tariffs also established a reconciliation period for each of the Capital
9 Recovery Riders, which will occur 60 days after the close of the attrition period. The
10 attrition period in Docket No. 13-00130 was for January 1, 2014 through December 31,
11 2014. The reconciliation for that filing was made in Docket 15-00029 on March 1, 2015.
12 The attrition period in Docket No. 14-00121 is for January 1, 2015 through December 31,
13 2015, and the reconciliations were filed on March 1, 2016 in Docket No. 16-00022. The
14 attrition period in Docket No. 15-00111 was for January 1, 2016 through December 31,
15 2016 and the reconciliations will be filed by March 1, 2017. Based upon the process
16 outlined in the tariffs and clarified in Docket No. 14-00121, the reconciliations are not,
17 and were not intended to be, a part of this Petition.

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

1 **Q. CAN YOU DISCUSS DETAILED SPECIFICS TO THE OPERATION OF THE**
2 **CAPITAL RECOVERY RIDERS NOT ADDRESSED ABOVE?**

3 A. Yes. TAWC utilizes an annual prospective approach to the utility plant additions that
4 qualify for recovery through the Capital Recovery Riders. The Capital Recovery Riders
5 provide for the recovery of revenue sufficient to cover the capital cost, depreciation and
6 tax expense related to the projected investment in qualified utility plant. These costs
7 consider the effects of associated retirements (“Net Plant”), Contributions in Aid of
8 Construction (CIAC), and Cost of Removal Spending net of Salvage value for the
9 attrition period. To determine the rate of return recovery, an average of the month-end
10 balances of new utility plant in service is averaged calculated, less ½ of the anticipated
11 annual associated CIAC, plus ½ of the anticipated annual associated cost of removal net
12 of salvage spending, to derive the “Net Plant” amount. As discussed in Docket No. 16-
13 00022, in the first year TAWC used a 12-month average to calculate the Capital
14 Recovery Riders, representing all of the activity within the 12 months of the attrition
15 period. Beginning in the second year, TAWC used a 13-month average from the end of
16 the previous year through the end of the attrition period. The current approved pre-tax
17 rate of return (“PTR”) is applied to this net amount to determine the revenue requirement
18 of the rate base portion. The PTR is calculated from the weighted common equity and
19 preferred equity, grossed up to include state and federal taxes, plus the weighted cost of
20 long-term debt and the weighted cost of short-term debt. Next, the annual depreciation
21 expense of the additional Net Plant is calculated (“NetDep”), utilizing the current TRA
22 approved depreciation rates by account and then added. From there, incremental new
23 property and Franchise taxes (“PFT”) is added. For the EDI Rider and SEC Rider,

1 additional operating expenses would be added as appropriate. The sum of these
2 components are grossed up to include the recovery of the associated additional Gross
3 Receipts taxes, Uncollectible expense, and forfeited discounts (“RT”) to derive the final
4 revenue requirement. Then, any over or under Capital Recovery Rider collection of prior
5 periods would be added or subtracted as applicable (“R”). The over or under Capital
6 Recovery Rider adjustment was authorized in Docket No. 16-00022 and is not included
7 as part of this Petition. This total is then divided by the authorized annual level of
8 general metered service and private fire service customer revenues (“PAR”) from the
9 prior docket (Docket No. 12-00049), i.e. not including any other revenues, to render each
10 of the new Capital Recovery Rider percentages.

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

13 A. Yes. The tariff has been authorized to file the forecasted adjustments for new investment,
14 by December 1, to be effective January 1. The reconciliation factor is to be filed by
15 March 1, to be effective April 1 to December 31 only each calendar year. The first
16 reconciliation adjustment was authorized on October 19, 2015 to be effective November
17 1 through December 31, 2015 in Docket No. 15-00029. The second reconciliation
18 adjustment was authorized on October 10, 2016 in Docket No. 16-00022 to be effective
19 October 11, 2016 through December 31, 2016. This petition is intended to adjust the
20 Capital Recovery Riders for investment in 2017. The calculation includes the cumulative
21 investment for rider for 2014, 2015 and 2016. In this petition, TAWC has included the
22 actual investment for each rider in 2014 and 2015. The reconciliation to be filed by
23 March 1, 2017 will apply as a true-up for the actual 2016 calendar year investment and

1 revenues, including any over/under collection of the reconciliation approved in 16-00022.
2 Therefore, it is not appropriate or necessary to include a reconciliation in the calculation
3 included in this Petition.

4 **Q. HAVE YOU INCLUDED THE CALCULATION OF THE THREE CAPITAL**
5 **RECOVERY RIDERS IN THE PETITION?**

6 A. Yes. I have attached an exhibit that reflects the calculation of each of the three Capital
7 Recovery Riders by project. A summary is attached to my testimony as **Petitioner's**
8 **Exhibit Summary - LCB**. The detailed calculations are attached in six exhibits to my
9 testimony as **Petitioner's Exhibit QIIP 1 – LCB**, **Petitioner's Exhibit QIIP 2 – LCB**,
10 **Petitioner's Exhibit EDI 1 – LCB**, **Petitioner's Exhibit EDI 2 – LCB**, **Petitioner's**
11 **Exhibit SEC 1 – LCB**, and **Petitioner's Exhibit SEC 2 – LCB**. The calculations are
12 consistent with the calculations that were made in the approved tariff in Docket No. 13-
13 00130, Docket No. 14-00121, and Docket No. 15-00111. Further, to assist in the
14 streamlined regulatory process, TAWC is including with the Petition its detailed work-
15 papers supporting the calculation of the three Capital Recovery Riders. Again, these
16 work-papers are consistent with the calculations made to support the approved tariff in
17 Docket No. 13-00130, Docket No. 14-00121 and again in Docket No. 15-00111. The
18 workpapers are also consistent with the calculations made to support the reconciliations
19 in TRA Docket No. 15-00029 and TRA Docket No. 16-00022.

1 **Q. HAS TAWC INCLUDED DETAILED INFORMATION REGARDING THE**
2 **PROJECTS THAT MAKE UP EACH OF THE PROPOSED CAPITAL**
3 **RECOVERY RIDERS?**

4 A. Yes. Company Witness Brent O'Neill will discuss the details regarding the proposed
5 capital expenditures included in the QIIP, EDI and SEC Riders for 2017.

6 **Q. HOW ARE THE QIIP, EDI, AND SEC RIDER REVENUES RECOVERED?**

7 A. The QIIP, EDI and SEC Riders are expressed as a percentage. The current tariff Sixth
8 Revised Sheet No. 12 – Riders – 1 is attached to my testimony as Petitioner's Exhibit
9 Current Tariff Sheet No. 12 – Riders – LCB, and the proposed tariff sheet Seventh
10 Revised Sheet No. 12 – Riders - 1 is attached to my testimony as Petitioner's Exhibit
11 Proposed Sheet No. 12 – Riders – LCB. They are each applied to the total amount
12 billed to each customer under the otherwise applicable rates and charges for basic service,
13 metered usage charges, and private fire charges, and are applied prior to the inclusion of
14 any other taxes, charges, or surcharges. All three Capital Recovery Riders are combined
15 into one line item on the bill of each customer.

16 **Q. HAS TAWC INCLUDED A CHART SHOWING THE PROGRESSION OF THE**
17 **APPROVED RIDERS IN EACH DOCKET SINCE THE LAST RATE CASE?**

18 A. Yes. I have included a chart reflecting each of the annual approvals with its filing. This
19 is shown as Petitioner's Exhibit – Annual Approved Tariffs – LCB.

20
21 **Q. WHAT WILL HAPPEN TO THE CAPITAL RECOVERY RIDERS UPON**
22 **APPROVAL OF NEW RATES IN A RATE CASE PROCEEDING?**

23 A. The QIIP, EDI, and SEC Riders will all be reset to zero as of the effective date of the new
24 Base Rates, which Base Rates then provide for the recovery of the annual costs that had

1 theretofore been recovered through the Capital Recovery Riders. Thereafter, and
2 consistent with the tariffs, only the new QIIP, EDI, and SEC Rider qualified plant
3 additions and expenses not previously included in rate base and Base Rates will be
4 reflected in the future filings subject to TRA Approval.

5 **Q. WHAT COST OF CAPITAL IS UTILIZED IN THE FORMULA OF THE**
6 **CAPITAL RECOVERY RIDERS?**

7 A. The cost of capital is the established rate of return (on a pre-tax basis) in the Company's
8 immediately preceding Base Rate case Order, currently TRA Docket No. 12-00049.

9 **Q. WHAT DEPRECIATION RATES ARE USED TO DETERMINE THE**
10 **DEPRECIATION EXPENSE RECOVERED BY THE QIIP, EDI AND SEC**
11 **RIDERS?**

12 A. The depreciation rates last approved by the TRA in Docket 12-00049 for the respective
13 plant accounts in which the specific items of qualified infrastructure under each rider are
14 recorded are the depreciation rates used to determine the depreciation expense. New
15 depreciation rates would be used only after depreciation rates are changed during a
16 general rate proceeding. These are the rates that were used in Docket Nos. 13-00130, 14-
17 00121, 15-00029, 15-00111 and 16-00022.

18 **Q. WHAT PROPERTY TAX RATE IS USED TO DETERMINE THE PROPERTY**
19 **TAX EXPENSE RELATED TO THE ADDITIONAL INVESTMENT TO BE**
20 **RECOVERED BY THE QIIP, EDI AND SEC RIDERS?**

21 A. The property tax rate is based on the proportion of property taxes authorized in Docket
22 No. 12-00049 to the utility plant in service, multiplied by the additional utility plant less

1 retirements. This is the same rate used in Docket Nos. 13-00130, 14-00121, 15-00029,
2 15-00111 and 16-00022.

3 **Q. HOW ARE ANNUAL REVENUES DETERMINED FOR THE QIIP, EDI AND**
4 **SEC RIDERS?**

5 A. The projected annual revenues will be the authorized water services revenues from the
6 last case, Docket No. 12-00049, including all service charges and volumetric charges for
7 all classes that are subject to the Capital Recovery Riders. These are the same annual
8 revenues used in Docket Nos. 13-00130, 14-00121, 15-00029, 15-00111 and 16-00022.

9 **Q. HAS TENNESSEE AMERICAN INCLUDED ANY OPERATING EXPENSES IN**
10 **THE CURRENTLY PROPOSED EDI RIDER OTHER THAN THE**
11 **DEPRECIATION AND TAX EXPENSES?**

12 A. No. In the tariffs approved in Docket No. 13-00130, TAWC included expenses related to
13 specific economic development within the community as a component of the EDI Rider
14 and operating expenses related to specific investment in the SEC Rider. However, in
15 Docket No. 14-00121, the operating expenses related specifically to TAWC contributions
16 to economic development agencies were not approved by the TRA. In that same Docket,
17 TAWC removed proposed SEC Rider operating expenses, as those expenses would be
18 captured in the PCOP. Other types of operating expenses related to economic
19 development or the SEC Rider are not included in this current Petition, but TAWC will
20 continue to review and evaluate potential and appropriate operating expenses for the EDI
21 and SEC Riders and submit them for consideration as appropriate.

1 **Q. HAS TENNESSEE AMERICAN INCLUDED ANY OPERATING EXPENSES IN**
2 **THE CURRENTLY PROPOSED SEC RIDER OTHER THAN THE**
3 **DEPRECIATION AND TAX EXPENSES?**

4 No.

5 **Q. COULD THE AMOUNT OF INVESTMENT RIDER REVENUES COLLECTED**
6 **FROM TENNESSEE AMERICAN'S CUSTOMERS VARY FROM THE ACTUAL**
7 **AMOUNT OF REVENUE NEEDED TO COVER A RETURN OF AND A**
8 **RETURN ON THE COMPANY'S QIIP, EDI AND SEC RIDER**
9 **INFRASTRUCTURE INVESTMENT AND TAXES?**

10 A. Yes. This would occur as a result of a difference between the actual and the allowed
11 water operating revenues upon which the Capital Recovery Riders are based.

12 **Q. AS A REGULATORY SAFEGUARD TO CONSUMERS AND TO SERVE THE**
13 **PUBLIC INTEREST, DOES EACH OF THE CAPITAL RECOVERY RIDERS**
14 **INCLUDE A RECONCILIATION MECHANISM IN THE EVENT THAT THE**
15 **LEVEL OF INVESTMENT, EXPENSE, OR REVENUE APPROVED VARIES**
16 **FROM THE ACTUAL COSTS?**

17 A. Yes. As discussed earlier, the QIIP, EDI and SEC Riders are all subject to an annual
18 reconciliation or true-up in which the revenue received under each of the Capital
19 Recovery Riders for the reconciliation period will be compared to the revenue necessary
20 for the Company to recover its return of and return on investment plus taxes, for that
21 QIIP, EDI and SEC Rider year. Any over or under recovery will be included in the
22 calculation of the next adjustment to the QIIP, EDI and SEC Riders. For the reason I
23 stated earlier, the reconciliation is not part of the currently proposed change to the QIIP,

1 EDI or SEC Riders. The Capital Recovery Rider reconciliations for the period ending
2 December 31, 2016, will be submitted on March 1, 2017.

3
4 **Q. HOW DOES THE RECONCILIATION WORK?**

5 A. Consistent with the approved tariffs, Tennessee American will file a reconciliation for all
6 three Capital Recovery Riders no later than March 1, 2017. There are actually two steps
7 to the reconciliation. The first is an adjustment for budget to actual investment. This is a
8 regulatory oversight and public interest component of the mechanism that results in a
9 true-up if the investment does not occur (up or down) as forecasted. The second is an
10 adjustment for the over or under recovery of revenues as projected, including interest. In
11 this way, the consumers are protected if sales exceed the amount authorized in the
12 previous rate case proceeding. This could occur if there is a significant amount of
13 customer growth, or if dry and hot conditions occur in any given year. This second
14 adjustment also allows TAWC to adjust if sales are less than the amount authorized in the
15 last case, as could occur with declining usage that TAWC has experienced in recent
16 years. The reconciliation percentage, pending approval by April 1, 2017, as
17 contemplated in the tariffs, will be applied to customer bills for 9 months in 2017.

18 Finally, there is also a consumer safeguard in the reconciliation process that
19 reviews the earnings for Tennessee American during the attrition period. If it is
20 determined that Tennessee American earned a rate of return above the authorized amount
21 from the previous rate case during the attrition period, the amount above the authorized is
22 an adjustment to the customers, with interest. This could occur if sales exceed the
23 amount authorized in the previous rate case as well.

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

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

15 The subsequent period approved for review in the tariff is defined as the twelve
16 months subsequent to the attrition period, and every twelve-month period after that.
17 Docket No. 15-00001 looked at the review period for the PCOP from December 1, 2013
18 through November 30, 2014. Docket No. 15-00131 looked at the review period for the
19 PCOP from December 1, 2014 through November 30, 2015. The next review period for
20 the PCOP will be December 1, 2015 through November 30, 2016. Because that review
21 period is not complete, there is nothing regarding the PCOP in this Petition. TAWC
22 anticipates filing the reconciliation of the PCOP in a separate petition prior to the end of
23 the year.

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

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

7 **Q. WHEN DOES TAWC ANTICIPATE FILING THE PCOP RECONCILIATION?**

8 A. TAWC anticipates filing the reconciliation on the PCOP Rider by December 31, 2016.
9 As set forth in the tariffs, new PCOP rates are anticipated to be effective by January 30,
10 2017.

11 **Q. WHAT IS THE PROPOSED ADJUSTED QIIP RIDER?**

12 A. TAWC is proposing a QIIP Rider that results in an annualized revenue recovery of
13 \$3,539,145 for the 2017 calendar year or a surcharge of 7.52%. This is a cumulative
14 amount since 2014. Again, the annualized revenue recovery is the monthly surcharge,
15 times 12 months, to cover the cost to support all of the QIIP capital investment. This is
16 an increase of requested QIIP Riders surcharge recovery from the previous year of
17 \$1,394,019 and an increase in the total QIIP Rider surcharge from the previous year of
18 2.96%.

19 **Q. HAS TENNESSEE AMERICAN FILED A TARIFF ADDRESSING THE**
20 **PROPOSED QIIP RIDER?**

21 A. Yes. A new tariff Seventh Revised Sheet No. 12 – Riders – 1 reflects all three Capital
22 Recovery Riders and is attached to my testimony as **Petitioner's Exhibit Proposed**
23 **Sheet No. 12- Riders - LCB.**

1 **Q. WHAT IS THE PROPOSED EDI RIDER?**

2 A. TAWC is proposing an EDI Rider that results in an annualized revenue recovery of
3 \$161,282 for the 2017 calendar year or a surcharge of 0.34%. This is a cumulative
4 amount. Again, the annualized revenue recovery is the monthly surcharge, times 12
5 months, to cover the cost to support all of the EDI capital investment. This is an increase
6 over the in the requested EDI Rider surcharge recovery from the previous year of
7 \$114,026 and an increase in the total EDI Riders surcharge over the previous year of
8 0.24%. Again, this is shown on the new tariff Seventh Revised Sheet No. 12 – Riders – 1
9 which reflects all three Capital Recovery Riders and is attached to my testimony as
10 **Petitioner’s Exhibit Proposed Sheet No. 12- Riders - LCB.**

11 **Q. WHAT IS PROPOSED SEC RIDER?**

12 A. TAWC is proposing a SEC Rider that results in an annualized revenue recovery of
13 \$2,868,066 for the 2017 calendar year or a surcharge of 6.09%. Again, the annualized
14 revenue recovery is the monthly surcharge, times 12 months, to cover the cost to support
15 all of the SEC capital investment. This is an increase over in the requested SEC Rider
16 surcharge recovery from the previous year of \$174,222 and an increase in the total SEC
17 Rider surcharge over the previous year of 0.37%. Again, this is shown on the new tariff
18 Seventh Revised Sheet No. 12 – Riders – 1 which reflects all three Capital Recovery
19 Riders and is attached to my testimony as **Petitioner’s Exhibit Proposed Sheet No. 12-**
20 **Riders - LCB.** The sum of the three riders is an increase of 3.57% on the current base
21 bill.

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

The typical residential customer living in the City of Chattanooga, and using an average of 4,154 gallons per month will see an increase in their bill of \$0.77 per month, or \$9.24 per year. While the overall sum of the three riders is 3.57% as noted above, this is a total increase of 3.23% 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 3.57% continues to be calculated on the revenues authorized in 2012. The cumulative impact on customer's bills can be summarized in Table 1:

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

TRA Docket No.	Effective Date	Annual Percentage Increase in Capital Recovery Riders	Capital Recovery Riders Cumulative Total	Total Increase to Chattanooga Average Annual Bill	Average Chattanooga Annual Bill*	Annual Increase in 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%
Proposed	1/1/2017	3.570%	13.950%	\$ 3.01	\$ 24.56	\$ 0.77	3.234%

* 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 reconciliations and the PCOP.

I am ~~also providing~~ also providing a table reflecting the detailed changes for each Capital Recovery Rider, including the reconciliations. This is attached to my testimony as **Petitioner's Exhibit – Annual Approved Tariffs – LCB**. A summary of the impact

1 for the average residential customer for each of Tennessee American's water rates is
2 attached to my testimony as **Petitioner's Exhibit Average Impact – LCB.**

3 **Q. ARE THE QIIP RIDER, THE EDI RIDER AND THE SEC RIDER STILL IN THE**
4 **PUBLIC INTEREST?**

5 A. Yes. As I noted at the outset herein, and as outlined by TAWC in much detail and with
6 supporting documentation TRA Docket No. 13-00130, the QIIP, the EDI and the SEC
7 Riders are mutually beneficial to the ratepayers, the public, and TAWC. Among other
8 things, the Capital Recovery Riders reduce the need for general rate cases, lessen the
9 occurrence of consumer "rate shock," support the maintenance and improvement of
10 essential infrastructure, support opportunities for successful economic development,
11 growth and job creation, ensure safety and reliability, and allow for more efficient,
12 streamlined regulation. The ratepayers and the public benefit from the safety and
13 reliability components and from the more seamless and timely capital investment in
14 infrastructure, coupled with the related support to economic development, growth and job
15 creation. The Company benefits from a more efficient, streamlined regulatory process
16 that presents TAWC with the opportunity to timely recover its expenses and earn a fair
17 rate of return on its investments. Without the approved alternative rate mechanisms
18 pursuant to Tenn. Code Ann. Section 65-5-103 *et. seq.*, and specifically without the
19 Capital Recovery Riders, TAWC would be preparing another general rate case.
20 Tennessee American understands that the purpose of the new legislation — Tenn. Code
21 Ann. § 65-5-103 *et. seq.*, — was, in part, to encourage an increase in certain types of
22 infrastructure investment and recovery by utilities, while reducing the costs to consumers
23 and utilities for regulatory review and implementation, and promoting rate gradualism for

1 consumers. TAWC believes the approved Capital Recovery Riders are achieving that
2 goal.

3 As reflected in the evidentiary record in TRA Docket No. 13-00130, the US
4 Environmental Protection Agency and the American Society of Civil Engineers have
5 published reports regarding the significant capital needs for water and wastewater
6 infrastructure in the United States, including here in Tennessee. A substantial portion of
7 TAWC's distribution infrastructure is between 50 and 100 years old, and TAWC needs to
8 continue to invest in replacing its infrastructure in order to meet its obligation to provide
9 safe, reliable drinking water to its customers. The QIIP Rider is assisting TAWC in
10 responsibly and strategically addressing the systems' infrastructure replacement needs,
11 while helping to increase the time between rate cases and reducing the cost of rate cases
12 to its Customers. As testified to by Company Witness Brent O'Neill, TAWC has
13 strategically focused its efforts on mains with the highest maintenance concerns.

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

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

9 **Q. ARE YOU AWARE OF ANY CHANGES IN MARKET CONDITION OR OTHER**
10 **FACTORS THAT MAY AFFECT WHETHER THESE RIDERS ARE STILL IN**
11 **THE PUBLIC INTEREST?**

12 A. No, I am not.

13 **Q. WHAT DO YOU RECOMMEND WITH REGARD TO THIS PETITION?**

14 A. I recommend that the Petition be approved for the increase in the QIIP, EDI and SEC
15 Riders, effective January 1, 2017.

16 **Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

17 A. Yes. I reserve the ability to submit further testimony as is appropriate.

STATE OF Kentucky)
COUNTY OF Jayette)

BEFORE ME, the undersigned authority, duly commissioned and qualified in and for the State and County aforesaid, personally came and appeared Linda C. Bridwell, 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 Regulatory Authority, and if present before the Authority and duly sworn, her testimony would be as set forth in her pre-filed testimony in this matter.

Linda C. Bridwell
Linda C. Bridwell

Sworn to and subscribed before me
this 15th day of November, 2016.

Dana A. Staley
Notary Public

My Commission Expires: 1/22/17

**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 Requirement*	Percentage Applied to Bill*	Revenue Requirement as Authorized - 2016 (1)	Percentage Applied to Bill as Authorized (1)	Impact of Proposed Adjustments on Revenue Requirement	Impact of Proposed Adjustments on Bill Percentage
1							
2	QIIP	\$ 3,539,145	7.52%	\$ 2,145,126	4.56%	\$ 1,394,019	2.96%
3							
4	EDI	161,282	0.34%	47,256	0.10%	114,026	0.24%
5							
6	SEC	2,868,066	6.09%	2,693,844	5.72%	174,222	0.37%
7							
8	Total	\$ 6,568,493	13.95%	\$ 4,886,226	10.38%	\$ 1,682,267	3.57%
9							
10							

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

(1) From prior docket #15-00111 order that approved of capital rider surcharges

**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)**

[illegible]

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

Line Number	Description	QIIP Company Totals
1	Additions Subject to QIIP:	\$ 26,237,397
2	Plus: Cost of Removal less Salvage	2,626,547
3	Less: Contributions in Aid to Construction (CIAC)	-
4	Less: Deferred Income Taxes	376,816
5	Less: Accumulated Depreciation	646,329
6	Net Investment Supplied QIIP Additions:	<u>\$ 27,840,799</u>
7		
8	Pre-Tax Rate of Return:	9.45438%
9	Pre-Tax Return on Additions:	<u>\$ 2,632,174</u>
10		
11	Depreciation Expense on QIIP Additions:	446,932
12		
13	Operational Expenses Related to QIIP	-
14		
15	Property and Franchise Taxes Associated with QIIP:	<u>347,105</u>
16		
17	QIIP Revenues:	<u>\$ 3,426,211</u>
18		
19	Revenue Taxes	3.191%
20	Total QIIP Revenues with Revenue Taxes	<u><u>\$ 3,539,145</u></u>
21		
22	Service Charge and Volumetric Revenues as Per Docket No. 12-00049	<u><u>\$ 47,073,724</u></u>
23		
24	QIIP Percentage to Apply to Bill:	<u><u>7.52%</u></u>
25		

Tennessee American Water Company
Qualified Infrastructure Improvement Program (QIIP)
Investment Worksheet

			1	2	3	4	5	B	C
		QIIP				=Col 1 + Col 2			
Line #	Investment by Plant Account	Account Description	Additions	Retirements	CIAC	Net Investments (for Property Tax Calculation)	Cost of Removal Net of Salvage	Accumulated Deferred Income Taxes	Accumulated Depreciation
1	304300	Struct & Imp-Treatment							
2	Recurring Projects		\$ (778)	\$ (94,900)	\$ -	\$ (95,678)	\$ -	\$ (3,711)	\$ 9,501
3	Investment Projects		-	-	-	-	-	-	-
4	Total QIP		<u>\$ (778)</u>	<u>\$ (94,900)</u>	<u>\$ -</u>	<u>\$ (95,678)</u>	<u>\$ -</u>	<u>\$ (3,711)</u>	<u>\$ 9,501</u>
5									
6	320100	WT Equip Non-Media							
7	Recurring Projects		\$ 2,310,463	\$ -	\$ -	\$ 2,310,463	\$ -	\$ (69,665)	\$ (73,773)
8	Investment Projects		8,249,997	(42,385)	-	8,207,612	850,267	(92,943)	(93,051)
9	Total QIP		<u>\$ 10,560,459</u>	<u>\$ (42,385)</u>	<u>\$ -</u>	<u>\$ 10,518,075</u>	<u>\$ 850,267</u>	<u>\$ (162,608)</u>	<u>\$ (166,824)</u>
10									
11	330000	Dist Reservoirs & Standpipes							
12	Recurring Projects		\$ 567,580	\$ -	\$ -	\$ 567,580	\$ 0	\$ (10,511)	\$ (19,283)
13	Investment Projects		-	-	-	-	-	-	-
14	Total QIP		<u>\$ 567,580</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 567,580</u>	<u>\$ 0</u>	<u>\$ (10,511)</u>	<u>\$ (19,283)</u>
15									
16	330003	Tank Repainting							
17	Recurring Projects		\$ 210,384	\$ -	\$ -	\$ 210,384	\$ -	\$ 2,042	\$ (20,017)
18	Investment Projects		-	-	-	-	-	-	-
19	Total QIP		<u>\$ 210,384</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 210,384</u>	<u>\$ -</u>	<u>\$ 2,042</u>	<u>\$ (20,017)</u>
20									
21	330200	Ground Level Tanks							
22	Recurring Projects		\$ -	\$ (446)	\$ -	\$ (446)	\$ 977	\$ (13)	\$ 37
23	Investment Projects		-	-	-	-	-	-	-
24	Total QIP		<u>\$ -</u>	<u>\$ (446)</u>	<u>\$ -</u>	<u>\$ (446)</u>	<u>\$ 977</u>	<u>\$ (13)</u>	<u>\$ 37</u>
25									
26	331001	Transmission & Distribution Mains							
27	Recurring Projects		\$ 9,386,283	\$ (299,937)	\$ -	\$ 9,086,346	\$ 704,945	\$ (165,552)	\$ (175,663)
28	Investment Projects		-	-	-	-	-	-	-
29	Total QIP		<u>\$ 9,386,283</u>	<u>\$ (299,937)</u>	<u>\$ -</u>	<u>\$ 9,086,346</u>	<u>\$ 704,945</u>	<u>\$ (165,552)</u>	<u>\$ (175,663)</u>
30									
31	333000	Services							
32	Recurring Projects		\$ 1,551,003	\$ (5,818)	\$ -	\$ 1,545,186	\$ 475,571	\$ (31,660)	\$ (31,966)
33	Investment Projects		-	-	-	-	-	-	-
34	Total QIP		<u>\$ 1,551,003</u>	<u>\$ (5,818)</u>	<u>\$ -</u>	<u>\$ 1,545,186</u>	<u>\$ 475,571</u>	<u>\$ (31,660)</u>	<u>\$ (31,966)</u>

**Tennessee American Water Company
Qualified Infrastructure Improvement Program (QIIP)
Investment Worksheet**

[illegible]

Tennessee American Water Company
Qualified Infrastructure Improvement Program (QIIP)
Investment Worksheet

			<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>B</u>	<u>C</u>
		<u>QIIP</u>				=Col 1 + Col 2			
Line #	Investment by Plant Account	Account Description	Additions	Retirements	CIAC	Net Investments (for Property Tax Calculation)	Cost of Removal Net of Salvage	Accumulated Deferred Income Taxes	Accumulated Depreciation
36	334100	Meters							
37	Recurring Projects		\$ 1,420,636	\$ (1,741)	\$ -	\$ 1,418,895	\$ 91,441	\$ 22,830	\$ (116,094)
38	Investment Projects		-	-	-	-	-	-	-
39	Total QIP		<u>\$ 1,420,636</u>	<u>\$ (1,741)</u>	<u>\$ -</u>	<u>\$ 1,418,895</u>	<u>\$ 91,441</u>	<u>\$ 22,830</u>	<u>\$ (116,094)</u>
40									
41	334200	Meter Installations							
42	Recurring Projects		\$ 1,925,861	\$ (6,244)	\$ -	\$ 1,919,617	\$ 483,304	\$ (18,421)	\$ (101,356)
43	Investment Projects		-	-	-	-	-	-	-
44	Total QIP		<u>\$ 1,925,861</u>	<u>\$ (6,244)</u>	<u>\$ -</u>	<u>\$ 1,919,617</u>	<u>\$ 483,304</u>	<u>\$ (18,421)</u>	<u>\$ (101,356)</u>
45									
46	335000	Hydrants							
47	Recurring Projects		\$ 615,968	\$ (94,862)	\$ -	\$ 521,106	\$ 20,041	\$ (9,212)	\$ (24,665)
48	Investment Projects		-	-	-	-	-	-	-
49	Total QIP		<u>\$ 615,968</u>	<u>\$ (94,862)</u>	<u>\$ -</u>	<u>\$ 521,106</u>	<u>\$ 20,041</u>	<u>\$ (9,212)</u>	<u>\$ (24,665)</u>
50									
51	Expense:								
52			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
53			-	-	-	-	-	-	-
54			-	-	-	-	-	-	-
55	Total		<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
56									
57	Total		<u>\$ 26,237,397</u>	<u>\$ (546,333)</u>	<u>\$ -</u>	<u>\$ 25,691,064</u>	<u>\$ 2,626,547</u>	<u>\$ (376,816)</u>	<u>\$ (646,329)</u>

Tennessee American Water Company
Qualified Infrastructure Improvement Program (QIIP)
Investment Worksheet

			<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
<u>QIIP</u>			=Cols 1 + 3 + 5 + B + C	=Col 6 x 9.454378%	=(Col 1+2+3)x Depreciation Rate	=(Col 4 x Prop Tax Rate) + (Col 4 x Franchise Rate)		=Cols 7 + 8 + 9 + 10	= Col 11 / (1 - 3.191%)
Line #	Investment by Plant Account	Account Description	Earnings Basis Net Investment (Rate Base)	Earnings Basis x Pre-Tax Return (PTR)	Depreciation Expense	Property Tax & Franchise Fees	Operational Expenses	Total Before Revenue Tax	Total With Revenue Tax
1	304300	Struct & Imp-Treatment							
2	Recurring Projects		\$ 5,012	\$ 474	\$ (3,932)	\$ (1,293)	\$ -	\$ (4,751)	\$ (4,908)
3	Investment Projects		-	-	-	-	-	-	-
4	Total QIP		<u>\$ 5,012</u>	<u>\$ 474</u>	<u>\$ (3,932)</u>	<u>\$ (1,293)</u>	<u>\$ -</u>	<u>\$ (4,751)</u>	<u>\$ (4,908)</u>
5									
6	320100	WT Equip Non-Media							
7	Recurring Projects		\$ 2,167,025	\$ 204,879	\$ 25,184	\$ 31,216	\$ -	\$ 261,279	\$ 269,891
8	Investment Projects		8,914,270	842,789	89,463	110,891	-	1,043,142	1,077,526
9	Total QIP		<u>\$ 11,081,295</u>	<u>\$ 1,047,667</u>	<u>\$ 114,647</u>	<u>\$ 142,107</u>	<u>\$ -</u>	<u>\$ 1,304,421</u>	<u>\$ 1,347,417</u>
10									
11	330000	Dist Reservoirs & Standpipes							
12	Recurring Projects		\$ 537,786	\$ 50,844	\$ 11,806	\$ 7,668	\$ -	\$ 70,318	\$ 72,636
13	Investment Projects		-	-	-	-	-	-	-
14	Total QIP		<u>\$ 537,786</u>	<u>\$ 50,844</u>	<u>\$ 11,806</u>	<u>\$ 7,668</u>	<u>\$ -</u>	<u>\$ 70,318</u>	<u>\$ 72,636</u>
15									
16	330003	Tank Repainting							
17	Recurring Projects		\$ 192,409	\$ 18,191	\$ 23,311	\$ 2,842	\$ -	\$ 44,344	\$ 45,806
18	Investment Projects		-	-	-	-	-	-	-
19	Total QIP		<u>\$ 192,409</u>	<u>\$ 18,191</u>	<u>\$ 23,311</u>	<u>\$ 2,842</u>	<u>\$ -</u>	<u>\$ 44,344</u>	<u>\$ 45,806</u>
20									
21	330200	Ground Level Tanks							
22	Recurring Projects		\$ 1,001	\$ 95	\$ (12)	\$ (6)	\$ -	\$ 76	\$ 79
23	Investment Projects		-	-	-	-	-	-	-
24	Total QIP		<u>\$ 1,001</u>	<u>\$ 95</u>	<u>\$ (12)</u>	<u>\$ (6)</u>	<u>\$ -</u>	<u>\$ 76</u>	<u>\$ 79</u>
25									
26	331001	Transmission & Distribution Mains							
27	Recurring Projects		\$ 9,750,014	\$ 921,803	\$ 113,579	\$ 122,763	\$ -	\$ 1,158,146	\$ 1,196,320
28	Investment Projects		-	-	-	-	-	-	-
29	Total QIP		<u>\$ 9,750,014</u>	<u>\$ 921,803</u>	<u>\$ 113,579</u>	<u>\$ 122,763</u>	<u>\$ -</u>	<u>\$ 1,158,146</u>	<u>\$ 1,196,320</u>
30									
31	333000	Services							
32	Recurring Projects		\$ 1,962,949	\$ 185,585	\$ 17,152	\$ 20,877	\$ -	\$ 223,613	\$ 230,983
33	Investment Projects		-	-	-	-	-	-	-
34	Total QIP		<u>\$ 1,962,949</u>	<u>\$ 185,585</u>	<u>\$ 17,152</u>	<u>\$ 20,877</u>	<u>\$ -</u>	<u>\$ 223,613</u>	<u>\$ 230,983</u>

**Tennessee American Water Company
Qualified Infrastructure Improvement Program (QIIP)
Investment Worksheet**

[illegible]

Tennessee American Water Company
Qualified Infrastructure Improvement Program (QIIP)
Investment Worksheet

			6	7	8	9	10	11	12
			=Cols 1 + 3 + 5 + B + C	=Col 6 x 9.454378%	=(Col 1+2+3)x Depreciation Rate	=(Col 4 x Prop Tax Rate) + (Col 4 x Franchise Rate)		=Cols 7 + 8 + 9 + 10	= Col 11 / (1 - 3.191%)
QIIP									
Line #	Investment by Plant Account	Account Description	Earnings Basis Net Investment (Rate Base)	Earnings Basis x Pre-Tax Return (PTR)	Depreciation Expense	Property Tax & Franchise Fees	Operational Expenses	Total Before Revenue Tax	Total With Revenue Tax
36	334100	Meters							
37	Recurring Projects		\$ 1,418,813	\$ 134,140	\$ 105,991	\$ 19,170	\$ -	\$ 259,302	\$ 267,849
38	Investment Projects		-	-	-	-	-	-	-
39	Total QIP		<u>\$ 1,418,813</u>	<u>\$ 134,140</u>	<u>\$ 105,991</u>	<u>\$ 19,170</u>	<u>\$ -</u>	<u>\$ 259,302</u>	<u>\$ 267,849</u>
40									
41	334200	Meter Installations							
42	Recurring Projects		\$ 2,289,388	\$ 216,447	\$ 52,406	\$ 25,935	\$ -	\$ 294,788	\$ 304,505
43	Investment Projects		-	-	-	-	-	-	-
44	Total QIP		<u>\$ 2,289,388</u>	<u>\$ 216,447</u>	<u>\$ 52,406</u>	<u>\$ 25,935</u>	<u>\$ -</u>	<u>\$ 294,788</u>	<u>\$ 304,505</u>
45									
46	335000	Hydrants							
47	Recurring Projects		\$ 602,132	\$ 56,928	\$ 11,985	\$ 7,041	\$ -	\$ 75,954	\$ 78,457
48	Investment Projects		-	-	-	-	-	-	-
49	Total QIP		<u>\$ 602,132</u>	<u>\$ 56,928</u>	<u>\$ 11,985</u>	<u>\$ 7,041</u>	<u>\$ -</u>	<u>\$ 75,954</u>	<u>\$ 78,457</u>
50									
51	Expense:								
52			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
53			-	-	-	-	-	-	-
54			-	-	-	-	-	-	-
55	Total		<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
56									
57	Total		<u>\$ 27,840,799</u>	<u>\$ 2,632,174</u>	<u>\$ 446,932</u>	<u>\$ 347,105</u>	<u>\$ -</u>	<u>\$ 3,426,211</u>	<u>\$ 3,539,145</u>

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

Line Number	Description	EDI Company Totals
1	Additions Subject to EDI:	\$ 1,317,802
2	Plus: Cost of Removal less Salvage	12,427
3	Less: Contributions in Aid to Construction (CIAC)	-
4	Less: Deferred Income Taxes	24,268
5	Less: Accumulated Depreciation	24,172
6	Net Investment Supplied EDI Additions:	<u>\$ 1,281,790</u>
7		
8	Pre-Tax Rate of Return:	9.45438%
9	Pre-Tax Return on Additions:	<u>\$ 121,185</u>
10		
11	Depreciation Expense on EDI Additions:	17,207
12		
13	Operational Expenses Related to EDI	-
14		
15	Property and Franchise Taxes Associated with EDI:	<u>17,744</u>
16		
17	EDI Revenues:	<u>\$ 156,135</u>
18		
19	Revenue Taxes	3.191%
20	Total EDI Revenues with Revenue Taxes	<u><u>\$ 161,282</u></u>
21		
22	Service Charge and Volumetric Revenues as Per Docket No. 12-00049	<u><u>\$ 47,073,724</u></u>
23		
24	EDI Percentage to Apply to Bill:	<u><u>0.34%</u></u>
25		

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

Line Number	Description	SEC Company Totals
1	Additions Subject to SEC:	\$ 21,310,147
2	Plus: Cost of Removal less Salvage	2,290,674
3	Less: Contributions in Aid to Construction (CIAC)	-
4	Less: Deferred Income Taxes	413,906
5	Less: Accumulated Depreciation	735,691
6	Net Investment Supplied SEC Additions:	<u>\$ 22,451,224</u>
7		
8	Pre-Tax Rate of Return:	9.45438%
9	Pre-Tax Return on Additions:	<u>\$ 2,122,624</u>
10		
11	Depreciation Expense on SEC Additions:	378,984
12		
13	Operational Expenses Related to SEC	-
14		
15	Property and Franchise Taxes Associated with SEC:	<u>274,938</u>
16		
17	SEC Revenues:	<u>\$ 2,776,546</u>
18		
19	Revenue Taxes	3.191%
20	Total SEC Revenues with Revenue Taxes	<u><u>\$ 2,868,066</u></u>
21		
22	Service Charge and Volumetric Revenues as Per Docket No. 12-00049	<u><u>\$ 47,073,724</u></u>
23		
24	SEC Percentage to Apply to Bill:	<u><u>6.09%</u></u>
25		

[illegible]

[illegible]

Tennessee American Water Company
Safety and Environmental Compliance (SEC)
Investment Worksheet

			<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>B</u>	<u>C</u>
		SEC						=Col 1 + Col 2	
Line #	Investment by Plant Account	Account Description	Additions	Retirements	CIAC	Net Investments (for Property Tax Calculation)	Cost of Removal Net of Salvage	Accumulated Deferred Income Taxes	Accumulated Depreciation
71	331001	Transmission & Distribution Mains							
72	Recurring Projects		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
73	Investment Projects		-	-	-	-	-	-	-
74	Total QIP		<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
75									
76	334100	Meters							
77	Recurring Projects		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
78	Investment Projects		-	-	-	-	-	-	-
79	Total QIP		<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
80									
81	340200	Computer & Peripheral Equipment							
82	Recurring Projects		\$ 622,858	\$ (99,234)	\$ -	\$ 523,624	\$ 478	\$ (72,902)	\$ (11,270)
83	Investment Projects		-	-	-	-	-	-	-
84	Total QIP		<u>\$ 622,858</u>	<u>\$ (99,234)</u>	<u>\$ -</u>	<u>\$ 523,624</u>	<u>\$ 478</u>	<u>\$ (72,902)</u>	<u>\$ (11,270)</u>
85									
86	343000	Tools, Shop, Garage Equipment							
87	Recurring Projects		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
88	Investment Projects		-	-	-	-	-	-	-
89	Total QIP		<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
90									
91	344000	Laboratory Equipment							
92	Recurring Projects		\$ -	\$ (147,686)	\$ -	\$ (147,686)	\$ 12	\$ (1,413)	\$ 3,852
93	Investment Projects		-	-	-	-	-	-	-
94	Total QIP		<u>\$ -</u>	<u>\$ (147,686)</u>	<u>\$ -</u>	<u>\$ (147,686)</u>	<u>\$ 12</u>	<u>\$ (1,413)</u>	<u>\$ 3,852</u>
95									
96	345000	Power Operated Equipment							
97	Recurring Projects		\$ 41,485	\$ -	\$ -	\$ 41,485	\$ -	\$ 1,207	\$ (6,396)
98	Investment Projects		-	-	-	-	-	-	-
99	Total QIP		<u>\$ 41,485</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 41,485</u>	<u>\$ -</u>	<u>\$ 1,207</u>	<u>\$ (6,396)</u>
100									
101	346100	Comm Equip Non-Telephone							
102	Recurring Projects		\$ 41,119	\$ -	\$ -	\$ 41,119	\$ -	\$ (7,955)	\$ (5,314)
103	Investment Projects		-	-	-	-	-	-	-
104	Total QIP		<u>\$ 41,119</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 41,119</u>	<u>\$ -</u>	<u>\$ (7,955)</u>	<u>\$ (5,314)</u>
105									
106	346190	Remote Control & Instrument							
107	Recurring Projects		\$ 440,255	\$ (5,784)	\$ -	\$ 434,471	\$ 521	\$ (91,984)	\$ (37,069)
108	Investment Projects		-	-	-	-	-	-	-
109	Total		<u>\$ 440,255</u>	<u>\$ (5,784)</u>	<u>\$ -</u>	<u>\$ 434,471</u>	<u>\$ 521</u>	<u>\$ (91,984)</u>	<u>\$ (37,069)</u>

**Tennessee American Water Company
Safety and Environmental Compliance (SEC)
Investment Worksheet**

			1	2	3	4	5	B	C
		SEC				=Col 1 + Col 2			
Line #	Investment by Plant Account	Account Description	Additions	Retirements	CIAC	Net Investments (for Property Tax Calculation)	Cost of Removal Net of Salvage	Accumulated Deferred Income Taxes	Accumulated Depreciation
110									
111	347000	Misc Equipment							
112	Recurring Projects		\$ 7,793	\$ -	\$ -	\$ 7,793	\$ 2,546	\$ 224	\$ (1,195)
113	Investment Projects		18,711	-	-	18,711	-	179	(1,953)
114	Total		<u>\$ 26,504</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 26,504</u>	<u>\$ 2,546</u>	<u>\$ 403</u>	<u>\$ (3,148)</u>
115									
116	Expense:								
117	Chemical Expense for WasteWater handling:		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
118	Electric Power Expense for Wasterwater handling:		-	-	-	-	-	-	-
119	Hauling Expense for Wasterwater handling:		-	-	-	-	-	-	-
120	Total		<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
121									
122	Total		\$ 21,310,147	\$ (960,489)	\$ -	\$ 20,349,658	\$ 2,290,674	\$ (413,906)	\$ (735,691)

Tennessee American Water Company
Safety and Environmental Compliance (SEC)
Investment Worksheet

			6	7	8	9	10	11	12
SEC			=Cols 1 + 3 + 5 + B + C	=Col 6 x 9.454378%	=(Col 1+2+3)x Depreciation Rate	=(Col 4 x Prop Tax Rate) + (Col 4 x Franchise Rate)		=Cols 7 + 8 + 9 + 10	= Col 11 / (1 - 3.191%)
Line #	Investment by Plant Account	Account Description	Earnings Basis Net Investment (Rate Base)	Earnings Basis x Pre-Tax Return (PTR)	Depreciation Expense	Property Tax & Franchise Fees	Operational Expenses	Total Before Revenue Tax	Total With Revenue Tax
71	331001	Transmission & Distribution Mains							
72	Recurring Projects		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
73	Investment Projects		-	-	-	-	-	-	-
74	Total QIP		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
75									
76	334100	Meters							
77	Recurring Projects		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
78	Investment Projects		-	-	-	-	-	-	-
79	Total QIP		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
80									
81	340200	Computer & Peripheral Equipment							
82	Recurring Projects		\$ 539,165	\$ 50,975	\$ 11,467	\$ 7,075	\$ -	\$ 69,517	\$ 71,808
83	Investment Projects		-	-	-	-	-	-	-
84	Total QIP		\$ 539,165	\$ 50,975	\$ 11,467	\$ 7,075	\$ -	\$ 69,517	\$ 71,808
85									
86	343000	Tools, Shop, Garage Equipment							
87	Recurring Projects		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
88	Investment Projects		-	-	-	-	-	-	-
89	Total QIP		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
90									
91	344000	Laboratory Equipment							
92	Recurring Projects		\$ 2,451	\$ 232	\$ (1,492)	\$ (1,995)	\$ -	\$ (3,255)	\$ (3,363)
93	Investment Projects		-	-	-	-	-	-	-
94	Total QIP		\$ 2,451	\$ 232	\$ (1,492)	\$ (1,995)	\$ -	\$ (3,255)	\$ (3,363)
95									
96	345000	Power Operated Equipment							
97	Recurring Projects		\$ 36,297	\$ 3,432	\$ 2,916	\$ 560	\$ -	\$ 6,909	\$ 7,136
98	Investment Projects		-	-	-	-	-	-	-
99	Total QIP		\$ 36,297	\$ 3,432	\$ 2,916	\$ 560	\$ -	\$ 6,909	\$ 7,136
100									
101	346100	Comm Equip Non-Telephone							
102	Recurring Projects		\$ 27,850	\$ 2,633	\$ 1,731	\$ 556	\$ -	\$ 4,920	\$ 5,082
103	Investment Projects		-	-	-	-	-	-	-
104	Total QIP		\$ 27,850	\$ 2,633	\$ 1,731	\$ 556	\$ -	\$ 4,920	\$ 5,082
105									
106	346190	Remote Control & Instrument							
107	Recurring Projects		\$ 311,724	\$ 29,472	\$ 18,291	\$ 5,870	\$ -	\$ 53,633	\$ 55,401
108	Investment Projects		-	-	-	-	-	-	-
109	Total		\$ 311,724	\$ 29,472	\$ 18,291	\$ 5,870	\$ -	\$ 53,633	\$ 55,401

Tennessee American Water Company
Safety and Environmental Compliance (SEC)
Investment Worksheet

			6	7	8	9	10	11	12
			=Cols 1 + 3 + 5 + B + C	=Col 6 x 9.454378%	=(Col 1+2+3)x Depreciation Rate	=(Col 4 x Prop Tax Rate) + (Col 4 x Franchise Rate)		=Cols 7 + 8 + 9 + 10	= Col 11 / (1 - 3.191%)
SEC									
Line #	Investment by Plant Account	Account Description	Earnings Basis Net Investment (Rate Base)	Earnings Basis x Pre-Tax Return (PTR)	Depreciation Expense	Property Tax & Franchise Fees	Operational Expenses	Total Before Revenue Tax	Total With Revenue Tax
110									
111	347000	Misc Equipment							
112	Recurring Projects		\$ 9,368	\$ 886	\$ 493	\$ 105	\$ -	\$ 1,484	\$ 1,533
113	Investment Projects		16,937	1,601	1,184	253	-	3,038	3,139
114	Total		<u>\$ 26,305</u>	<u>\$ 2,487</u>	<u>\$ 1,678</u>	<u>\$ 358</u>	<u>\$ -</u>	<u>\$ 4,523</u>	<u>\$ 4,672</u>
115									
116	Expense:								
117	Chemical Expense for WasteWater handling:		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
118	Electric Power Expense for Wasterwater handling:		-	-	-	-	-	-	-
119	Hauling Expense for Wasterwater handling:		-	-	-	-	-	-	-
120	Total		<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
121									
122	Total		<u>\$ 22,451,224</u>	<u>\$ 2,122,624</u>	<u>\$ 378,984</u>	<u>\$ 274,938</u>	<u>\$ -</u>	<u>\$ 2,776,546</u>	<u>\$ 2,868,066</u>

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

TRA Docket No.	Effective Date	Rider	Authorized Annual Change	Total Cumulative Rider	Reconciliation Authorized	Individual Authorized Rider Total	Capital Riders Cumulative Total
13-00130	4/15/2014	QIIP	0.790%	0.790%	0.000%	0.790%	1.080%
		EDI	0.180%	0.180%	0.000%	0.180%	
		SEC	0.110%	0.110%	0.000%	0.110%	
		Total	1.080%		0.000%		
14-00121	6/30/2015	QIIP	1.340%	2.130%	0.000%	2.130%	5.720%
		EDI	-0.130%	0.050%	0.000%	0.050%	
		SEC	3.430%	3.540%	0.000%	3.540%	
		Total	4.640%		0.000%		
15-00029*	11/1/2015	QIIP	0.000%	2.130%	0.254%	2.384%	5.888%
		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%		
15-00111	3/15/2016	QIIP	2.430%	4.560%	0.000%	4.560%	10.380%
		EDI	0.050%	0.100%	0.000%	0.100%	
		SEC	2.180%	5.720%	0.000%	5.720%	
		Total	4.660%		0.000%		
16-00022*	10/11/2016	QIIP	0.000%	4.560%	1.166%	5.726%	11.250%
		EDI	0.000%	0.100%	-0.178%	-0.078%	
		SEC	0.000%	5.720%	-0.118%	5.602%	
		Total	0.000%		0.870%		
Proposed	1/1/2017	QIIP	2.960%	7.520%	0.000%	7.520%	13.950%
		EDI	0.240%	0.340%	0.000%	0.340%	
		SEC	0.370%	6.090%	0.000%	6.090%	
		Total	3.570%		0.000%		

* Reconciliations are only effective until December 31 of the year authorized by the TRA.

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.


“**Authority**” means the Tennessee Regulatory Authority.

“**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.

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“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.

“Relevant Rate Order” means the final order of the Authority in the most recent rate case of the Company fixing the rates of the Company or the most recent final order of the Authority 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
- (T) infrastructure that may be identified as being for the purpose of economic development ~~including~~
- (T) ~~infrastructure designed to utilize alternative fuels.~~

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;
 Account 306 – Lake, River and Other Intakes;

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- Account 307 – Wells and Springs;
 Account 309 – Supply Mains;
 Account 310 – Power Generation Equipment;
 (T) ~~Account 341 – Transportation 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

Divided by Relevant Rate Order Volumetric & Metered Revenue

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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.

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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.

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

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TENNESSEE-AMERICAN WATER COMPANY

Page 6 of 30
TRA NO. 19

First Revised Sheet No. 12-EDI-6
Cancelling Original Sheet No. 12-EDI-6

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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TENNESSEE-AMERICAN WATER COMPANY

Page 7 of 30
TRA NO. 19

First Revised Sheet No. 12-EDI-7

Cancelling Original Sheet No. 12-EDI-7

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.

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

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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 Actual EDI Revenue Requirement shall constitute the Over-Under Collection Adjustment.

(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.

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

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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 Authority 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 Authority may direct.

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

8. Annual Reconciliation Filing with the Authority


On or before March 1 of each year, the Company shall submit to the Authority 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 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

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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 Authority 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 Authority 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 Authority, for a reconsideration of whether it remains in the public interest.

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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.

“**Authority**” means the Tennessee Regulatory Authority.

“**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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"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.

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

3. General Description

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.

(T) *Other Infrastructure* – Infrastructure designed to utilize alternative fuels.

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

Account 331 – Transmission & Distribution Mains;

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BY:



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- 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;
 (T) 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 QIIP 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

Plus Property Taxes

Plus Franchise Taxes

Subtotal Forecasted QIIP Revenue Requirement Before Revenue Tax

(T) Denotes change in text

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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.

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.

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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
 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

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(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:


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.

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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.

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.

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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 Actual QIIP Revenue Requirement shall constitute the Over-Under Collection Adjustment.

(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.

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

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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 Authority 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 Authority may direct.

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

8. Annual Reconciliation Filing with the Authority

On or before March 1 of each year, the Company shall submit to the Authority 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 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

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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 Authority 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 Authority 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 Authority, for a reconsideration of whether it remains in the public interest.

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TENNESSEE-AMERICAN WATER COMPANY

TRA NO. 19
Original Sheet No. 12-SEC-1

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.

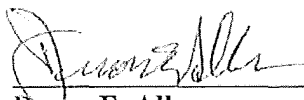
“**Authority**” means the Tennessee Regulatory Authority.

“**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.

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TENNESSEE-AMERICAN WATER COMPANY

TRA NO. 19
Original Sheet No. 12-SEC-2

"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.

"Relevant Rate Order" means the final order of the Authority in the most recent rate case of the Company fixing the rates of the Company or the most recent final order of the Authority 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.

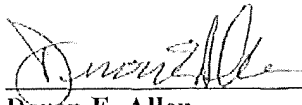
SEC Investment is to be identifiable on the Company's books and segregated into the following general accounts:

Account 331 – Transmission & Distribution Mains;
Account 333 – Services;
Account 334 – Meters & Meter Installations;
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;

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TENNESSEE-AMERICAN WATER COMPANY

TRA NO. 19
Original Sheet No. 12-SEC-3

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

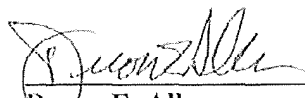
Divided by 1 minus the following:
Forfeited Discounts Rate
Plus Uncollectible Expense Rate
Plus Gross Receipts Tax Rate
Total Forecasted SEC Revenue Requirement

Divided by Relevant Rate Order Volumetric & Metered Revenue

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TENNESSEE-AMERICAN WATER COMPANY

TRA NO. 19
Original Sheet No. 12-SEC-4

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.

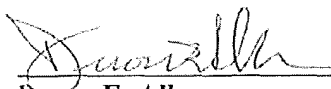
Property Taxes = Forecasted cumulative qualified SEC investment multiplied by composite property tax rate approved in the Relevant Rate Order.

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

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TENNESSEE-AMERICAN WATER COMPANY

TRA NO. 19
Original Sheet No. 12-SEC-5

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. 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.

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TENNESSEE-AMERICAN WATER COMPANY

TRA NO. 19
Original Sheet No. 12-SEC-6

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

Where:

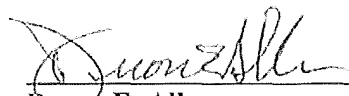
Accumulated Depreciation = Accumulated depreciation calculated by debiting for Forecasted SEC plant removed from service, and crediting for new accumulations using rates approved in the Relevant Rate Order on new investments, less retirements and CIAC

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.

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TENNESSEE-AMERICAN WATER COMPANY

TRA NO. 19
Original Sheet No. 12-SEC-7

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.

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.

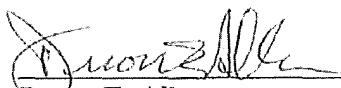
Uncollectible Expense = Actual SEC Revenue Requirement before gross receipts taxes, uncollectible expense and forfeited discounts multiplied by composite uncollectible factor approved in the Relevant Rate Order.

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

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TENNESSEE-AMERICAN WATER COMPANY

TRA NO. 19
Original Sheet No. 12-SEC-8

(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 Actual SEC Revenue Requirement shall constitute the Over-Under Collection Adjustment.

(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

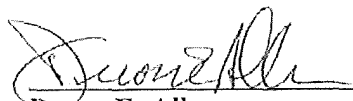
Where "Interest Rate" equals the prime rate value published in the "Federal Reserve Bulletin" or in the Federal Reserve's "Selected Interest Rates" for the most recent preceding month.

6. New Base Rates

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TENNESSEE-AMERICAN WATER COMPANY

TRA NO. 19
Original Sheet No. 12-SEC-9

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 Authority 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 Authority may direct.

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

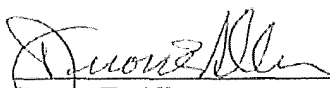
8. Annual Reconciliation Filing with the Authority

On or before March 1 of each year, the Company shall submit to the Authority 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.

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TENNESSEE-AMERICAN WATER COMPANY

TRA NO. 19
Original Sheet No. 12-SEC-10

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 Authority 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 Authority 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.

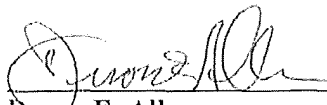
10. Public Interest Review

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 Authority, for a reconsideration of whether it remains in the public interest.

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EFFECTIVE: April 15, 2014

BY:


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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	4.56 %	
EDI	0.10 %	
<u>SEC</u>	<u>5.72 %</u>	
Subtotal of all Capital Recovery Riders	10.38 %	
QIIP Annual Reconciliation Percentage	1.166 %	(I)
EDI Annual Reconciliation Percentage	-0.178 %	(D)
<u>SEC Annual Reconciliation Percentage</u>	<u>-0.118 %</u>	(D)
Subtotal of all Reconciliation Percentages	0.870 %	
Total of Capital Recovery Riders and Reconciliation Percentages	11.25%	
PCOP	-0.36 %	

(D) Indicates Decrease

(I) Indicates Increase

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EFFECTIVE: October 11, 2016 – December 31, 2016

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TENNESSEE-AMERICAN WATER COMPANY

TRA NO. 19

Seventh Revised Sheet No. 12-Riders-1

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	7.52 %	(I)
EDI	0.34 %	(I)
<u>SEC</u>	<u>6.09 %</u>	(I)
Subtotal of all Capital Recovery Riders	13.95 %	(I)
QIIP Annual Reconciliation Percentage	0.000 %	(D)
EDI Annual Reconciliation Percentage	0.000 %	(D)
<u>SEC Annual Reconciliation Percentage</u>	<u>0.000 %</u>	(D)
Subtotal of all Reconciliation Percentages	0.000 %	
Total of Capital Recovery Riders and Reconciliation Percentages	13.95%	(I)
PCOP	-0.36 %	

(D) Indicates Decrease

(I) Indicates Increase

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