

Exhibit No.:  
Issues: Rate Design  
Witness: James Russo  
Sponsoring Party: MO PSC Staff  
Type of Exhibit: Direct Testimony  
Case No.: WR-2007-0216  
Date Testimony Prepared: June 12, 2007

**MISSOURI PUBLIC SERVICE COMMISSION**

**UTILITY OPERATIONS DIVISION**

**DIRECT TESTIMONY**

**OF**

**JAMES RUSSO**

**MISSOURI-AMERICAN WATER COMPANY**

**CASE NO. WR-2007-0216**

**Jefferson City, Missouri  
June 2007**

STAFF-25

STAFF Exhibit No. 25  
Case No(s) WR-2007-0216  
Date 8-14-07 Rptr DE

**BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF MISSOURI**

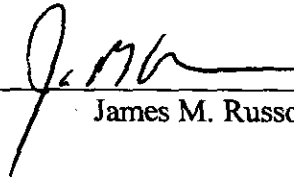
In the Matter of Missouri-American Water )  
Company's request for Authority to )  
Implement a General Rate Increase for )  
Water Service provided in Missouri Service )  
Areas )

Case No. WR-2007-0216

**AFFIDAVIT OF JAMES M. RUSSO**

STATE OF MISSOURI     )  
                                      ) ss  
COUNTY OF COLE        )

James M. Russo, of lawful age, on his oath states: that he has participated in the preparation of the foregoing testimony in question and answer form, consisting of 8 pages of testimony to be presented in the above case, that the answers in the foregoing testimony were given by him; that he has knowledge of the matters set forth in such answers; and that such matters are true to the best of his knowledge and belief.

  
\_\_\_\_\_  
James M. Russo

Subscribed and sworn to before me this 7<sup>th</sup> day of June, 2007.



DAWN L. HAKE  
My Commission Expires  
March 16, 2009  
Cole County  
Commission #05407643

  
\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

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**DIRECT TESTIMONY**

**OF**

**JAMES RUSSO**

**MISSOURI AMERICAN WATER COMPANY**

**CASE NO. WR-2007-0216**

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**DIRECT TESTIMONY**

**OF**

**JAMES RUSSO**

**MISSOURI AMERICAN WATER COMPANY**

**CASE NO. WR-2007-0216**

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Q. Please state your name and business address.

A. James M. Russo, P.O. Box 360, Jefferson City, Missouri 65102.

Q. By whom are you employed and in what capacity?

A. I am the Rate and Tariff Examination Supervisor in the Water & Sewer Department with the Missouri Public Service Commission (Commission).

**BACKGROUND OF WITNESS**

Q. Please describe your educational background and other qualifications.

A. I graduated from California State University-Fresno, Fresno, California, and received a Bachelor of Science degree in Accounting. Prior to my employment with the Commission, local elected officials in county government employed me in various capacities. I was the assistant treasurer-tax collector for San Joaquin and El Dorado Counties in California. My responsibilities included all financial dealings of the counties and all accounting activities of the agency. In addition, I was the supervising accountant auditor in El Dorado County for two years. My division was responsible for internal audits of all county agencies, special districts, and franchise/lease agreements.

Q. What has been the nature of your duties with the Commission?

A. From April 1997 to December 2001, I worked in the Accounting Department of the Commission, where my duties consisted of directing and assisting with various audits

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1 and examinations of the books and records of public utilities operating within the State of  
2 Missouri under the jurisdiction of the Commission. From  
3 December 16, 2001 to August 2003, I was a Regulatory Auditor IV in the Energy  
4 Tariffs/Rate Design Department, where my duties consisted of analyzing applications,  
5 reviewing tariffs, and making recommendations based upon these evaluations. On  
6 August 16, 2003, I assumed the position of Rate and Tariff Examination Supervisor in the  
7 Water & Sewer Department where my duties consist of reviewing tariffs, preparing and  
8 analyzing cost of service and rate design, and performing accounting functions.

9 Q. Have you previously filed testimony before this Commission?

10 A. Yes. A list of cases in which I have filed testimony before this Commission is  
11 attached as Schedule 1 to my direct testimony.

### 12 EXECUTIVE SUMMARY

13 Q. With reference to consolidated Case No. WR-2007-0216, have you made an  
14 examination and study of the material filed by Missouri-American Water Company (MAWC  
15 or Company) relating to its proposed increase in water rates?

16 A. Yes, I have.

17 Q. What is the purpose of your direct testimony?

18 A. The purpose of my direct testimony is to present the Commission Staff's  
19 (Staff) position relating to class cost of service (CCOS), Rate Design and Consolidated  
20 Customer Billing.

### 21 CLASS COST OF SERVICE

22 Q. Did you complete a CCOS for the Company's water and sewer operations?

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1           A.     I completed a CCOS on the Company's water operations. I used the  
2 Commission's Water & Sewer Department's small company rate design methodology for the  
3 Company's sewer operations. This methodology is discussed in more detail later in my  
4 Direct Testimony.

5           Q.     What customer classes are used in Staff's CCOS study?

6           A.     The customer classes used in this study are: Residential, Commercial,  
7 Industrial, Other Public Authority, Other Water Utilities and Private Fire Protection.

8           Q.     Are these the same as the Company's current tariff designations?

9           A.     Yes.

10          Q.     What is the purpose of Staff's CCOS study?

11          A.     The purpose of Staff's CCOS study is to determine, and provide the  
12 Commission with, a measure of relative class cost responsibility for MAWC's overall revenue  
13 requirement on a district specific basis. For individual items of cost, class cost responsibility  
14 can be either directly assigned or allocated to customer classes using reasonable methods for  
15 determining the class responsibility for that item of cost. The results are then summarized so  
16 that they can be compared to revenues being collected on current rates.

17          Q.     What type of allocation method did you use?

18          A.     I allocated each districts total cost using the "base-extra capacity" method.  
19 This method involves allocating the various cost components based on data pertaining to  
20 operating costs, operating revenues, system capacity, customer usage and customer numbers.  
21 The results of these allocations show the relative cost levels that should be recovered from  
22 each customer class. Rates are then designed to recover the costs that are allocated to each  
23 class.

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1 I must note that the customer class allocation factors I developed are based on the  
2 Staff's district cost-of-service allocations as of the Staff's direct filing and do not include the  
3 recovery of any true-up allowance.

4 Q. Please describe the base-extra capacity allocation method that you used.

5 A. In the base-extra capacity method, costs are generally separated into four  
6 primary cost components: base costs, extra capacity costs, customer costs and direct fire  
7 protection costs.

8 Base costs vary with water consumption and are allocated to customer classifications  
9 according to the amount of water consumed.

10 Extra capacity costs are the costs associated with meeting the requirements that are in  
11 excess of the average load conditions. They are divided into costs to meet maximum-day-  
12 extra demand and maximum-hour-extra demand.

13 Customer costs are those costs associated with the number of customers, regardless of  
14 consumption. These costs include customer accounting and collection expenses, meter-  
15 reading expenses, billing expenses and return on and of plant related to meters and services.

16 Fire protection costs are those costs directly assigned to fire protection functions.

17 Q. How did you develop the CCOS amounts?

18 A. Allocation of each cost is accomplished by applying class allocation factors.  
19 These class allocation factors are applied to the annualized and normalized expenses, plant,  
20 rate base, and return on investment to determine the total costs to be recovered in each  
21 district.

22 Q. What are the results of your CCOS study?

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1 A. The results of my study are presented in terms of class revenue requirements  
2 before any increase or decrease in MAWC's revenue requirement.

3 Q. Are the customer class allocations, rate design methods and the results of  
4 those methods that you are using in this case consistent with the methods upon which the  
5 Company's current customer rates were established?

6 A. Yes. I used the methodology developed by Staff Witness Wendell R. Hubbs  
7 in Case Nos. WR-2003-0500 and WC-2004-0168.

8 Q. What is the impact of your CCOS study on the various customer classes?

9 A. The CCOS study shows that revenues should be collected differently on a  
10 going-forward basis than is occurring now under the current rate design.

11 Q. Were there any significant shifts in revenue requirements for any customer  
12 class based on your CCOS?

13 A. Yes, the revenue requirement associated with Private Fire Protection was  
14 significantly lower for each district.

15 Q. Do you have any explanation for this reduction in revenue requirement?

16 A. The reduction in the revenue requirement existed in the last case and probably  
17 for some time period prior to that case. The final rate design agreed upon in the last case  
18 maintained the existing approved Private Fire Protection rates for each district.

19 **RATE DESIGN**

20 Q. Does the rate design method Staff is proposing differ from the method  
21 proposed by the Company in its direct testimony?

22 A. Yes. The Company proposed a 25.9% increase in rates to be spread evenly  
23 over each district and each customer class within each district.

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1 Staff's rate design for the Company's water operations is based on the actual CCOS  
2 for each district and the increase/decrease for each district is determined by the revenue  
3 requirement for that district. Staff's rate design for the Company's sewer operations is based  
4 on the Water & Sewer Department's small company rate design methodology.

5 Q. How did you develop the customer rates for each of the Company's  
6 certificated service areas?

7 A. I developed rates to recover the CCOS allocated to each class in each of the  
8 Company's districts. The rates generally consist of a fixed monthly customer charge and a  
9 usage (commodity) charge, which are generally based upon the number of customers in the  
10 class and the usage characteristics of those customers.

11 Q. How did you calculate the commodity rates from your CCOS study?

12 A. To determine the commodity rates from the CCOS study, I subtracted the  
13 dollars collected from the customer charges from each class' revenue requirement and divided  
14 the remaining class revenue requirement by the total class-billed water volumes.

15 Q. Are you proposing a treatment for any district that is different from the results  
16 of your CCOS and rate design calculations?

17 A. Yes, I am. The CCOS for the Brunswick District continues to be extremely  
18 high compared to the other districts. I recommend that the Commission establish rates for the  
19 Brunswick District similar to the manner in which the rates were set in Case Nos. WR-2003-  
20 0500 and WC-2004-0618. For those cases, the rates were established by using the customer  
21 charges and commodity charges from the District that had the second highest rates. This will  
22 shift revenue responsibility from the Brunswick District customers to other parties. This is

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1 subsidization and will result in other Districts or the Company being responsible for the  
2 shortfall of the cost of service for the Brunswick District.

3 Q. You stated earlier that you used the Water & Sewer Department's small  
4 company rate design methodology to determine the rates for the Company's sewer operations.  
5 Please elaborate further.

6 A. The Company's sewer operations are relatively small and generally consist of  
7 residential customers. Only one system has commercial customers and none of these systems  
8 have the complexities of allocating costs between varied customer classes. In addition, with  
9 the exception of 33 customers in the Cedar Hill District, the rates for the Company's sewer  
10 operations are a monthly flat rate, which means that costs are not allocated between a  
11 customer charge and a commodity charge.

12 Q. Please briefly describe the customer-class-cost-of-service allocations and rate  
13 design schedules that are attached to your direct testimony.

14 A. Schedule 2 includes the CCOS study for each district, which summarizes the  
15 cost of service, revenues at present rates, revenues at proposed rates and the amount of  
16 increase/decrease for each customer class within each operating district.

17 Schedule 3 shows the allocation of the Auditing Department's cost-of-service  
18 by customer class and then to the functions of base use, maximum day use, maximum hour  
19 use, meter cost service cost, billing and collection cost and fire service cost for each operating  
20 district.

21 Schedule 4 shows the development of the allocation factors used in the  
22 allocations shown in Schedule 3.

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1           Schedule 5 includes the meter numbers and service numbers for each  
2 operating district with cost weighting for each class.

3           Schedule 6 shows the allocations to public and private fire service costs in  
4 proportion to the relative potential demands on each system by public fire hydrants and  
5 private fire services.

6           Schedules 7, 8 and 9 are the rate design worksheets for the Company's sewer  
7 operations and contain the following pages: Rate-Making Income Statement, Revenues-  
8 Current Rates, Rate Design, Revenues-Proposed Rates and Residential Customer Billing  
9 Comparison.

### 10                   CONSOLIDATED CUSTOMER BILLING

11           Q.     Have you reviewed and formed an opinion of the Company's Feasibility of  
12 Consolidated Customer Billing for the St. Louis District, attached as schedule EJG-3 to the  
13 direct testimony of Edward J. Grubb?

14           A.     Yes, I have reviewed schedule EJG-3 and generally speaking I am in  
15 agreement with the proposal. However, I am concerned that existing customers eligible for  
16 this service will be required to wait until the conclusion of the next general rate case before  
17 they can start this service.

18           Q.     Does this conclude your direct testimony?

19           A.     Yes it does.

RATE CASE PROCEEDING PARTICIPATION

**JAMES M. RUSSO**

| <u>COMPANY</u>                                           | <u>CASE NO.</u> |
|----------------------------------------------------------|-----------------|
| Union Electric Company                                   | GR-97-393       |
| Gascony Water Company                                    | WA-97-510       |
| St. Joseph Light and Power Company                       | EC-98-573       |
| St. Joseph Light and Power Company                       | HR-99-245       |
| St. Joseph Light and Power Company                       | GR-99-246       |
| St. Joseph Light and Power Company                       | ER-99-247       |
| UtiliCorp United Inc./St. Joseph Light and Power Company | EM-2000-292     |
| UtiliCorp United Inc./Empire District Electric Company   | EM-2000-369     |
| Osage Water Company                                      | WR-2000-557     |
| Osage Water Company                                      | SR-2000-556     |
| Missouri Gas Energy                                      | GR-2001-292     |
| Southern Missouri Gas Company, L.P.                      | GR-2001-0388    |
| Environmental Utilities                                  | WA-2002-65      |
| Laclede Gas Company                                      | GR-2002-356     |
| Laclede Gas Company                                      | GA-2002-429     |
| Missouri Gas Energy                                      | GT-2003-0033    |
| Aquila Networks L & P                                    | GT-2003-0038    |
| Southern Missouri Gas Company, L.P.                      | GT-2003-0031    |
| Atmos Energy Corporation                                 | GT-2003-0037    |
| Fidelity Natural Gas, Inc.                               | GT-2003-0036    |
| Laclede Gas Company                                      | GT-2003-0032    |
| Union Electric Company                                   | GT-2003-0034    |
| Union Electric Company                                   | GR-2003-0517    |
| Missouri Gas Energy                                      | GT-2004-0049    |
| Aquila Inc.                                              | GR-2004-0072    |
| Missouri Gas Energy                                      | GC-2004-0216    |
| Missouri Gas Energy                                      | GC-2004-0305    |
| Algonquin Water Resources of Missouri, LLC               | WR-2006-0425    |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
**PSC STAFF STUDY**  
COMPARISON OF COST OF SERVICE WITH REVENUES UNDER PRESENT AND PROPOSED RATES  
FOR THE TEST YEAR ENDED DECEMBER 31, 2006

| Customer<br>Classification<br>(1) | Cost of Service               |                | Revenues, Present Rates |                | Revenues, Proposed Rates |                | Proposed Increase     |                            |
|-----------------------------------|-------------------------------|----------------|-------------------------|----------------|--------------------------|----------------|-----------------------|----------------------------|
|                                   | Amount<br>(Schedule B)<br>(2) | Percent<br>(3) | Amount<br>(4)           | Percent<br>(5) | Amount<br>(6)            | Percent<br>(7) | Amount<br>(8)         | Percent<br>Increase<br>(9) |
| Rate A & K                        | \$ 102,211,064                | 87.7%          | \$ 105,397,133          | 89.3%          | \$ 102,211,063           | 87.8%          | \$ (3,186,070)        | -3.0%                      |
| Rate B                            | 2,886,338                     | 2.5%           | \$ 1,987,575            | 1.7%           | 2,886,338                | 2.5%           | 898,763               | 45.2%                      |
| Rate D                            | 245,216                       | 0.2%           | \$ 184,324              | 0.2%           | 245,216                  | 0.2%           | 60,892                | 33.0%                      |
| Rate F & E                        | 443,551                       | 0.4%           | \$ 1,269,381            | 1.1%           | 443,550                  | 0.4%           | (825,831)             | -65.1%                     |
| Rate H                            | 764,000                       | 0.7%           | \$ 764,000              | 0.6%           | 764,000                  | 0.7%           | -                     |                            |
| Rate J                            | 9,814,910                     | 8.4%           | \$ 8,365,964            | 7.1%           | 9,814,910                | 8.4%           | 1,448,946             | 17.3%                      |
| <hr/>                             |                               |                |                         |                |                          |                |                       |                            |
| Total Sales                       | 116,365,080                   | <u>99.9%</u>   | 117,968,377             | <u>100.0%</u>  | 116,365,077              | <u>100.0%</u>  | (1,603,300)           | -1.4%                      |
| Other Revenues                    | <u>1,316,503</u>              |                | <u>1,316,503</u>        |                | <u>1,316,503</u>         |                | -                     | 0.0%                       |
| Total                             | <u>\$ 117,681,583</u>         |                | <u>\$ 119,284,880</u>   |                | <u>\$ 117,681,580</u>    |                | <u>\$ (1,603,300)</u> | -1.3%                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates  
12 Month Updated Test Period Ending December 31, 2006**

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Missouri Public Service Commission  
Company: Missouri-American Water Company  
District: St. Louis

| Line # | Class/<br>Description   | Present Pro Forma Rates |                      | Proposed Pro Forma Rates |                      | Dollar<br>Change     | Percentage<br>Change |
|--------|-------------------------|-------------------------|----------------------|--------------------------|----------------------|----------------------|----------------------|
|        |                         | Sales<br>(CCF)          | Total<br>Revenue     | Sales<br>(CCF)           | Total<br>Revenue     |                      |                      |
| 1      |                         |                         |                      |                          |                      |                      |                      |
| 2      |                         |                         |                      |                          |                      |                      |                      |
| 3      |                         |                         |                      |                          |                      |                      |                      |
| 4      | Rate A and K            | 42,665,727              | \$105,397,133        | 42,665,670               | \$102,211,063        | (\$3,186,070)        | -3.02%               |
| 5      | Rate B                  | 1,792,385               | 1,987,575            | 2,389,846                | 2,886,338            | 898,763              | 45.22%               |
| 6      | Rate D                  | 180,692                 | 184,324              | 240,922                  | 245,216              | 60,892               | 33.04%               |
| 7      | Rate F and E            | 23,401                  | 1,269,381            | 31,201                   | 443,550              | (825,831)            | -65.06%              |
| 8      | Rate H                  | 1,505,072               | 764,000              | 1,505,072                | 764,000              | 0                    | 0.00%                |
| 9      | Rate J                  | 8,218,223               | 8,365,964            | 8,218,223                | 9,814,910            | 1,448,946            | 17.32%               |
| 10     |                         |                         |                      |                          |                      | 0                    | 0.00%                |
| 11     |                         |                         |                      |                          |                      |                      |                      |
| 12     | Total                   | <u>54,385,499</u>       | <u>117,968,377</u>   | <u>55,050,934</u>        | <u>116,365,077</u>   | <u>(\$1,603,300)</u> | <u>-1.36%</u>        |
| 13     |                         |                         |                      |                          |                      |                      |                      |
| 14     |                         |                         |                      |                          |                      |                      |                      |
| 15     | Miscellaneous Revenues: |                         |                      |                          |                      |                      |                      |
| 16     |                         |                         |                      |                          |                      |                      |                      |
| 17     | Other Revenues          |                         | 1,708,253            |                          | 1,708,253            | 0                    | 0.00%                |
| 23     |                         |                         |                      |                          |                      |                      |                      |
| 24     |                         |                         | <u>\$119,676,630</u> |                          | <u>\$118,073,330</u> | <u>(1,603,300)</u>   | <u>-1.34%</u>        |
| 25     |                         |                         |                      |                          |                      |                      |                      |
| 26     |                         |                         |                      |                          |                      |                      |                      |
| 27     |                         |                         |                      |                          |                      |                      |                      |
| 28     |                         |                         |                      |                          |                      |                      |                      |
| 29     |                         |                         |                      |                          |                      |                      |                      |
| 30     |                         |                         |                      |                          |                      |                      |                      |
| 31     |                         |                         |                      |                          |                      |                      |                      |
| 32     |                         |                         |                      |                          |                      |                      |                      |
| 33     |                         |                         |                      |                          |                      |                      |                      |
| 34     |                         |                         |                      |                          |                      |                      |                      |
| 35     |                         |                         |                      |                          |                      |                      |                      |
| 36     |                         |                         |                      |                          |                      |                      |                      |
| 37     |                         |                         |                      |                          |                      |                      |                      |
| 38     |                         |                         |                      |                          |                      |                      |                      |
| 39     |                         |                         |                      |                          |                      |                      |                      |
| 40     |                         |                         |                      |                          |                      |                      |                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates  
12 Month Updated Test Period Ending December 31, 2006**

Missouri Public Service Commission  
Company: Missouri-American Water Company  
District: St. Louis

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| Line # | Class/<br>Description      | Present Pro Forma Rates       |                   |                 |                     | Proposed Pro Forma Rates      |                   |                  |                      | Dollar<br>Change   | Percentage<br>Change |
|--------|----------------------------|-------------------------------|-------------------|-----------------|---------------------|-------------------------------|-------------------|------------------|----------------------|--------------------|----------------------|
|        |                            | Customer<br>Meter<br>Billings | Sales<br>(CCF)    | Current<br>Rate | Total<br>Revenue    | Customer<br>Meter<br>Billings | Sales<br>(CCF)    | Proposed<br>Rate | Total<br>Revenue     |                    |                      |
| 1      |                            |                               |                   |                 |                     |                               |                   |                  |                      |                    |                      |
| 2      | <b>Rate A:</b>             |                               |                   |                 |                     |                               |                   |                  |                      |                    |                      |
| 3      | Minimum Charge:            |                               |                   | 12,033.652      |                     |                               |                   |                  |                      |                    |                      |
| 4      | Monthly                    |                               |                   |                 |                     |                               |                   |                  |                      |                    |                      |
| 5      | 5/8"                       | 30                            |                   | \$6.15          | \$183               | 30                            |                   | \$10.56          | \$317                | \$134              | 73.22%               |
| 6      | 3/4"                       | 80                            |                   | \$6.87          | 548                 | 80                            |                   | \$10.57          | \$845                | 297                | 54.20%               |
| 7      | 1"                         | 23                            |                   | \$8.31          | 192                 | 23                            |                   | \$10.57          | \$243                | 51                 | 26.56%               |
| 8      | 1-1/2"                     | 37                            |                   | \$11.90         | 438                 | 37                            |                   | \$10.60          | \$392                | (46)               | -10.50%              |
| 9      | 2"                         | 119                           |                   | \$16.20         | 1,923               | 119                           |                   | \$10.62          | \$1,264              | (659)              | -34.27%              |
| 10     | 3"                         | 12                            |                   | \$27.68         | 343                 | 12                            |                   | \$10.69          | \$128                | (215)              | -62.68%              |
| 11     | 4"                         | 0                             |                   | \$40.59         | 0                   | 0                             |                   | \$10.72          | \$0                  | 0                  | 0.00%                |
| 12     | 6"                         | 0                             |                   | \$76.48         | 0                   | 0                             |                   | \$10.83          | \$0                  | 0                  | 0.00%                |
| 13     | 8"                         | 0                             |                   | \$119.54        | 0                   | 0                             |                   | \$11.12          | \$0                  | 0                  | 0.00%                |
| 14     | 10"                        | 0                             |                   | \$176.96        | 0                   | 0                             |                   | \$11.40          | \$0                  | 0                  | 0.00%                |
| 15     | 12"                        | 0                             |                   | \$234.36        | 0                   | 0                             |                   | \$11.69          | \$0                  | 0                  | 0.00%                |
| 16     | 300                        |                               |                   |                 |                     |                               |                   |                  |                      |                    |                      |
| 17     | Quarterly                  |                               |                   |                 |                     |                               |                   |                  |                      |                    |                      |
| 18     | 5/8"                       | 1,212,706                     |                   | 9.01            | 10,926,485          | 1,212,706                     |                   | 10.66            | \$12,930,827         | 2,004,342          | 18.34%               |
| 19     | 3/4"                       | 67,855                        |                   | 11.17           | 757,940             | 67,855                        |                   | 10.67            | \$723,675            | (34,265)           | -4.52%               |
| 20     | 1"                         | 11,042                        |                   | 15.48           | 170,924             | 11,042                        |                   | 10.69            | \$118,059            | (52,865)           | -30.93%              |
| 21     | 1-1/2"                     | 1,125                         |                   | 26.24           | 29,523              | 1,125                         |                   | 10.76            | \$12,108             | (17,415)           | -58.99%              |
| 22     | 2"                         | 1,989                         |                   | 39.15           | 77,859              | 1,989                         |                   | 10.83            | \$21,547             | (56,312)           | -72.33%              |
| 23     | 3"                         | 0                             |                   | 73.61           | 0                   | 0                             |                   | 11.04            | \$0                  | 0                  | 0.00%                |
| 24     | 4"                         | 0                             |                   | 112.36          | 0                   | 0                             |                   | 11.14            | \$0                  | 0                  | 0.00%                |
| 25     | 6"                         | 16                            |                   | 220.01          | 3,418               | 16                            |                   | 11.47            | \$184                | (3,234)            | -94.62%              |
| 26     | 8"                         | 8                             |                   | 349.19          | 2,713               | 8                             |                   | 12.34            | \$99                 | (2,614)            | -96.35%              |
| 27     | 10"                        | 117                           |                   | 521.42          | 61,163              | 117                           |                   | 13.16            | \$1,540              | (59,623)           | -97.48%              |
| 28     | 12"                        | 0                             |                   | 693.66          | 0                   | 0                             |                   | 14.03            | \$0                  | 0                  | 0.00%                |
| 29     |                            |                               |                   |                 |                     |                               |                   |                  |                      |                    |                      |
| 30     |                            |                               |                   |                 |                     |                               |                   |                  |                      |                    |                      |
| 31     | <b>Volumetric Charges:</b> |                               |                   |                 |                     |                               |                   |                  |                      |                    |                      |
| 32     | Monthly All Water          |                               | 2,658,483         | 2.033700        | 5,406,557           |                               | 2,658,483         | 2.0709           | \$5,505,545          | 98,988             | 1.83%                |
| 33     | Quarterly All Water        |                               | 39,841,686        | 2.033700        | 81,026,037          |                               | 39,841,686        | 2.0709           | \$82,509,531         | 1,483,494          | 1.83%                |
| 34     |                            |                               |                   |                 |                     |                               |                   |                  |                      |                    |                      |
| 35     |                            |                               |                   |                 |                     |                               |                   |                  |                      |                    |                      |
| 36     |                            |                               |                   |                 |                     |                               |                   |                  |                      |                    |                      |
| 37     |                            |                               |                   |                 |                     |                               |                   |                  |                      |                    |                      |
| 38     | <b>Total</b>               |                               | <u>42,500,169</u> |                 | <u>\$98,466,246</u> |                               | <u>42,500,169</u> |                  | <u>\$101,826,304</u> | <u>\$3,360,058</u> | <u>3.41%</u>         |
| 39     |                            |                               |                   |                 |                     |                               |                   |                  |                      |                    |                      |
| 40     |                            |                               |                   |                 |                     |                               |                   |                  |                      |                    |                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates**  
**12 Month Updated Test Period Ending December 31, 2006**

Missouri Public Service Commission  
 Company: Missouri-American Water Company  
 District: St. Louis

Case No. WR-2007-0216  
**STAFF - ST LOUIS COUNTY**  
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| Line # | Class/<br>Description      | Present Pro Forma Rates       |                |                 |                  | Proposed Pro Forma Rates      |                |                  |                  | Dollar<br>Change | Percentage<br>Change |
|--------|----------------------------|-------------------------------|----------------|-----------------|------------------|-------------------------------|----------------|------------------|------------------|------------------|----------------------|
|        |                            | Customer<br>Meter<br>Billings | Sales<br>(CCF) | Current<br>Rate | Total<br>Revenue | Customer<br>Meter<br>Billings | Sales<br>(CCF) | Proposed<br>Rate | Total<br>Revenue |                  |                      |
| 1      |                            |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 2      | <b>Rate D:</b>             |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 3      | Minimum Charge:            |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 4      | Monthly                    |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 5      | 5/8"                       | 0                             |                | \$6.15          | \$0              | 0                             |                | \$10.56          | \$0              | \$0              | 0.00%                |
| 6      | 3/4"                       | 0                             |                | \$6.87          | 0                | 0                             |                | \$10.57          | 0                | 0                | 0.00%                |
| 7      | 1"                         | 0                             |                | \$8.31          | 0                | 0                             |                | \$10.57          | 0                | 0                | 0.00%                |
| 8      | 1-1/2"                     | 0                             |                | \$11.90         | 0                | 0                             |                | \$10.60          | 0                | 0                | 0.00%                |
| 9      | 2"                         | 0                             |                | \$16.20         | 0                | 0                             |                | \$10.62          | 0                | 0                | 0.00%                |
| 10     | 3"                         | 0                             |                | \$27.68         | 0                | 0                             |                | \$10.69          | 0                | 0                | 0.00%                |
| 11     | 4"                         | 0                             |                | \$40.59         | 0                | 8                             |                | \$10.72          | 86               | 86               | 0.00%                |
| 12     | 6"                         | 0                             |                | \$76.48         | 0                | 16                            |                | \$10.83          | 173              | 173              | 0.00%                |
| 13     | 8"                         | 0                             |                | \$119.54        | 0                | 0                             |                | \$11.12          | 0                | 0                | 0.00%                |
| 14     | 10"                        | 0                             |                | \$176.96        | 0                | 0                             |                | \$11.40          | 0                | 0                | 0.00%                |
| 15     | 12"                        | 0                             |                | \$234.36        | 0                | 0                             |                | \$11.69          | 0                | 0                | 0.00%                |
| 16     |                            |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 17     | Quarterly                  |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 18     | 5/8"                       | 0                             |                | 0.00            | 0                | 0                             |                | 10.66            | 0                | 0                | 0.00%                |
| 19     | 3/4"                       | 0                             |                | 0.00            | 0                | 0                             |                | 10.67            | 0                | 0                | 0.00%                |
| 20     | 1"                         | 0                             |                | 0.00            | 0                | 0                             |                | 10.69            | 0                | 0                | 0.00%                |
| 21     | 1-1/2"                     | 0                             |                | 0.00            | 0                | 0                             |                | 10.76            | 0                | 0                | 0.00%                |
| 22     | 2"                         | 0                             |                | 0.00            | 0                | 0                             |                | 10.83            | 0                | 0                | 0.00%                |
| 23     | 3"                         | 0                             |                | 0.00            | 0                | 0                             |                | 11.04            | 0                | 0                | 0.00%                |
| 24     | 4"                         | 0                             |                | 0.00            | 0                | 0                             |                | 11.14            | 0                | 0                | 0.00%                |
| 25     | 6"                         | 0                             |                | 0.00            | 0                | 0                             |                | 11.47            | 0                | 0                | 0.00%                |
| 26     | 8"                         | 0                             |                | 0.00            | 0                | 0                             |                | 12.34            | 0                | 0                | 0.00%                |
| 27     | 10"                        | 0                             |                | 0.00            | 0                | 0                             |                | 13.16            | 0                | 0                | 0.00%                |
| 28     | 12"                        | 0                             |                | 0.00            | 0                | 0                             |                | 14.03            | 0                | 0                | 0.00%                |
| 29     |                            |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 30     |                            |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 31     | <u>Volumetric Charges:</u> |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 32     | Monthly All Water          |                               | 180,692        | 1.004500        | 181,505          |                               | 240,922        | 1.016748         | 244,957          | 63,452           | 34.96%               |
| 33     | Quarterly All Water        |                               | 0              | 0.000000        | 0                |                               | 0              | 1.016748         | 0                | 0                | 0.00%                |
| 34     |                            |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 35     |                            |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 36     |                            |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 37     |                            |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 38     | Total                      |                               | <u>180,692</u> |                 | <u>\$181,505</u> |                               | <u>240,922</u> |                  | <u>\$245,216</u> | <u>\$63,711</u>  | <u>35.10%</u>        |
| 39     |                            |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 40     |                            |                               |                |                 |                  |                               |                |                  |                  |                  |                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates  
12 Month Updated Test Period Ending December 31, 2006**

Missouri Public Service Commission  
Company: Missouri-American Water Company  
District: St. Louis

Case No. WR-2007-0216  
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| Line # | Class/<br>Description      | Present Pro Forma Rates       |                  |                 |                    | Proposed Pro Forma Rates      |                  |                  |                    | Dollar<br>Change | Percentage<br>Change |
|--------|----------------------------|-------------------------------|------------------|-----------------|--------------------|-------------------------------|------------------|------------------|--------------------|------------------|----------------------|
|        |                            | Customer<br>Meter<br>Billings | Sales<br>(CCF)   | Current<br>Rate | Total<br>Revenue   | Customer<br>Meter<br>Billings | Sales<br>(CCF)   | Proposed<br>Rate | Total<br>Revenue   |                  |                      |
| 1      |                            |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |
| 2      | <b>Rate B:</b>             |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |
| 3      | Minimum Charge:            |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |
| 4      | Monthly                    |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |
| 5      | 5/8"                       | 0                             |                  | \$0.00          | \$0                | 0                             |                  | \$0.00           | \$0                | \$0              | 0.00%                |
| 6      | 3/4"                       | 0                             |                  | 0.00            | 0                  | 0                             |                  | \$0.00           | 0                  | 0                | 0.00%                |
| 7      | 1"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | \$0.00           | 0                  | 0                | 0.00%                |
| 8      | 1-1/2"                     | 0                             |                  | 0.00            | 0                  | 0                             |                  | \$0.00           | 0                  | 0                | 0.00%                |
| 9      | 2"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | \$0.00           | 0                  | 0                | 0.00%                |
| 10     | 3"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | \$0.00           | 0                  | 0                | 0.00%                |
| 11     | 4"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | \$0.00           | 0                  | 0                | 0.00%                |
| 12     | 6"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | \$0.00           | 0                  | 0                | 0.00%                |
| 13     | 8"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | \$0.00           | 0                  | 0                | 0.00%                |
| 14     | 10"                        | 0                             |                  | 0.00            | 0                  | 0                             |                  | \$0.00           | 0                  | 0                | 0.00%                |
| 15     | 12"                        | 0                             |                  | 0.00            | 0                  | 0                             |                  | \$0.00           | 0                  | 0                | 0.00%                |
| 16     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |
| 17     | Quarterly                  |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |
| 18     | 5/8"                       | 0                             |                  | 0.00            | 0                  | 0                             |                  | 10.66            | 0                  | 0                | 0.00%                |
| 19     | 3/4"                       | 0                             |                  | 0.00            | 0                  | 0                             |                  | 10.67            | 0                  | 0                | 0.00%                |
| 20     | 1"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | 10.69            | 0                  | 0                | 0.00%                |
| 21     | 1-1/2"                     | 0                             |                  | 0.00            | 0                  | 0                             |                  | 10.76            | 0                  | 0                | 0.00%                |
| 22     | 2"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | 10.83            | 0                  | 0                | 0.00%                |
| 23     | 3"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | 11.04            | 0                  | 0                | 0.00%                |
| 24     | 4"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | 11.14            | 0                  | 0                | 0.00%                |
| 25     | 6"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | 11.47            | 0                  | 0                | 0.00%                |
| 26     | 8"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | 12.34            | 0                  | 0                | 0.00%                |
| 27     | 10"                        | 0                             |                  | 0.00            | 0                  | 0                             |                  | 13.16            | 0                  | 0                | 0.00%                |
| 28     | 12"                        | 0                             |                  | 0.00            | 0                  | 0                             |                  | 14.03            | 0                  | 0                | 0.00%                |
| 29     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |
| 30     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |
| 31     | <u>Volumetric Charges:</u> |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |
| 32     | Monthly All Water          |                               | 1,792,385        | 1.077700        | 1,931,653          |                               | 2,389,846        | 1.2078           | 2,886,338          | 954,685          | 49.42%               |
| 33     | Quarterly All Water        |                               | 0                | 0.000000        | 0                  |                               | 0                | 1.2078           | 0                  | 0                | 0.00%                |
| 34     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |
| 35     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |
| 36     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |
| 37     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |
| 38     | Total                      |                               | <u>1,792,385</u> |                 | <u>\$1,931,653</u> |                               | <u>2,389,846</u> |                  | <u>\$2,886,338</u> | <u>\$954,685</u> | <u>49.42%</u>        |
| 39     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |
| 40     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                  |                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates**  
**12 Month Updated Test Period Ending December 31, 2006**

Missouri Public Service Commission  
 Company: Missouri-American Water Company  
 District: St. Louis

Case No. WR-2007-0216  
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| Line # | Class/<br>Description      | Present Pro Forma Rates       |                  |                 |                  | Proposed Pro Forma Rates      |                  |                  |                  | Dollar<br>Change | Percentage<br>Change |
|--------|----------------------------|-------------------------------|------------------|-----------------|------------------|-------------------------------|------------------|------------------|------------------|------------------|----------------------|
|        |                            | Customer<br>Meter<br>Billings | Sales<br>(CCF)   | Current<br>Rate | Total<br>Revenue | Customer<br>Meter<br>Billings | Sales<br>(CCF)   | Proposed<br>Rate | Total<br>Revenue |                  |                      |
| 1      |                            |                               |                  |                 |                  |                               |                  |                  |                  |                  |                      |
| 2      | <b>Rate H:</b>             |                               |                  |                 |                  |                               |                  |                  |                  |                  |                      |
| 3      | Minimum Charge:            |                               |                  |                 |                  |                               |                  |                  |                  |                  |                      |
| 4      | Monthly                    |                               |                  |                 |                  |                               |                  |                  |                  |                  |                      |
| 5      | 5/8"                       | 0                             |                  | \$0.00          | \$0              | 0                             |                  | \$10.56          | \$0              | \$0              | 0.00%                |
| 6      | 3/4"                       | 0                             |                  | 0.00            | 0                | 0                             |                  | \$10.57          | 0                | 0                | 0.00%                |
| 7      | 1"                         | 0                             |                  | 0.00            | 0                | 0                             |                  | \$10.57          | 0                | 0                | 0.00%                |
| 8      | 1-1/2"                     | 0                             |                  | 0.00            | 0                | 0                             |                  | \$10.60          | 0                | 0                | 0.00%                |
| 9      | 2"                         | 0                             |                  | 0.00            | 0                | 0                             |                  | \$10.62          | 0                | 0                | 0.00%                |
| 10     | 3"                         | 0                             |                  | 0.00            | 0                | 0                             |                  | \$10.69          | 0                | 0                | 0.00%                |
| 11     | 4"                         | 0                             |                  | 0.00            | 0                | 0                             |                  | \$10.72          | 0                | 0                | 0.00%                |
| 12     | 6"                         | 0                             |                  | 0.00            | 0                | 0                             |                  | \$10.83          | 0                | 0                | 0.00%                |
| 13     | 8"                         | 0                             |                  | 0.00            | 0                | 0                             |                  | \$11.12          | 0                | 0                | 0.00%                |
| 14     | 10"                        | 0                             |                  | 0.00            | 0                | 0                             |                  | \$11.40          | 0                | 0                | 0.00%                |
| 15     | 12"                        | 0                             |                  | 0.00            | 0                | 0                             |                  | \$11.69          | 0                | 0                | 0.00%                |
| 16     |                            |                               |                  |                 |                  |                               |                  |                  |                  |                  |                      |
| 17     | Quarterly                  |                               |                  |                 |                  |                               |                  |                  |                  |                  |                      |
| 18     | 5/8"                       | 0                             |                  | 0.00            | 0                | 0                             |                  | 10.66            | 0                | 0                | 0.00%                |
| 19     | 3/4"                       | 0                             |                  | 0.00            | 0                | 0                             |                  | 10.67            | 0                | 0                | 0.00%                |
| 20     | 1"                         | 0                             |                  | 0.00            | 0                | 0                             |                  | 10.69            | 0                | 0                | 0.00%                |
| 21     | 1-1/2"                     | 0                             |                  | 0.00            | 0                | 0                             |                  | 10.76            | 0                | 0                | 0.00%                |
| 22     | 2"                         | 0                             |                  | 0.00            | 0                | 0                             |                  | 10.83            | 0                | 0                | 0.00%                |
| 23     | 3"                         | 0                             |                  | 0.00            | 0                | 0                             |                  | 11.04            | 0                | 0                | 0.00%                |
| 24     | 4"                         | 0                             |                  | 0.00            | 0                | 0                             |                  | 11.14            | 0                | 0                | 0.00%                |
| 25     | 6"                         | 0                             |                  | 0.00            | 0                | 0                             |                  | 11.47            | 0                | 0                | 0.00%                |
| 26     | 8"                         | 0                             |                  | 0.00            | 0                | 0                             |                  | 12.34            | 0                | 0                | 0.00%                |
| 27     | 10"                        | 0                             |                  | 0.00            | 0                | 0                             |                  | 13.16            | 0                | 0                | 0.00%                |
| 28     | 12"                        | 0                             |                  | 0.00            | 0                | 0                             |                  | 14.03            | 0                | 0                | 0.00%                |
| 29     |                            |                               |                  |                 |                  |                               |                  |                  |                  |                  |                      |
| 30     |                            |                               |                  |                 |                  |                               |                  |                  |                  |                  |                      |
| 31     | <u>Volumetric Charges:</u> |                               |                  |                 |                  |                               |                  |                  |                  |                  |                      |
| 32     | Monthly All Water          |                               | 1,505,072        | 0.000000        | 0                |                               | 1,505,072        | 0.000000         | 0                | 0                | 0.00%                |
| 33     | Quarterly All Water        |                               | 0                | 0.000000        | 0                |                               | 0                | 0.000000         | 0                | 0                | 0.00%                |
| 34     |                            |                               |                  |                 |                  |                               |                  |                  |                  |                  |                      |
| 35     |                            |                               |                  |                 |                  |                               |                  |                  |                  |                  |                      |
| 36     | Annual Fixed Charge        |                               |                  |                 | 764,000          |                               |                  |                  | 764,000          | 0                | 0.00%                |
| 37     |                            |                               |                  |                 |                  |                               |                  |                  |                  |                  |                      |
| 38     | Total                      |                               | <u>1,505,072</u> |                 | <u>\$764,000</u> |                               | <u>1,505,072</u> |                  | <u>\$764,000</u> | <u>\$0</u>       | <u>0.00%</u>         |
| 39     |                            |                               |                  |                 |                  |                               |                  |                  |                  |                  |                      |
| 40     |                            |                               |                  |                 |                  |                               |                  |                  |                  |                  |                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates**  
**12 Month Updated Test Period Ending December 31, 2006**

Missouri Public Service Commission  
 Company: Missouri-American Water Company  
 District: St. Louis

Case No. WR-2007-0216  
 STAFF - ST LOUIS COUNTY  
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| Line # | Class/<br>Description | Present Pro Forma Rates       |                |                 |                  | Proposed Pro Forma Rates      |                |                  |                  | Dollar<br>Change | Percentage<br>Change |
|--------|-----------------------|-------------------------------|----------------|-----------------|------------------|-------------------------------|----------------|------------------|------------------|------------------|----------------------|
|        |                       | Customer<br>Meter<br>Billings | Sales<br>(CCF) | Current<br>Rate | Total<br>Revenue | Customer<br>Meter<br>Billings | Sales<br>(CCF) | Proposed<br>Rate | Total<br>Revenue |                  |                      |
| 1      |                       |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 2      | Rate F:               |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 3      | Minimum Charge:       |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 4      | Monthly               |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 5      | 5/8"                  | 0                             |                | \$9.20          | \$0              | 0                             |                | \$0.00           | \$0              | \$0              | 0.00%                |
| 6      | 3/4"                  | 0                             |                | \$9.92          | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 7      | 1"                    | 0                             |                | \$11.36         | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 8      | 1-1/2"                | 0                             |                | \$14.95         | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 9      | 2"                    | 0                             |                | \$19.25         | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 10     | 3"                    | 0                             |                | \$30.73         | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 11     | 4"                    | 0                             |                | \$43.64         | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 12     | 6"                    | 0                             |                | \$79.53         | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 13     | 8"                    | 0                             |                | \$0.00          | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 14     | 10"                   | 0                             |                | \$0.00          | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 15     | 12"                   | 0                             |                | \$0.00          | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 16     |                       |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 17     | Quarterly             |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 18     | 5/8"                  | 0                             |                | 0.00            | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 19     | 3/4"                  | 0                             |                | 0.00            | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 20     | 1"                    | 0                             |                | 0.00            | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 21     | 1-1/2"                | 0                             |                | 0.00            | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 22     | 2"                    | 0                             |                | 0.00            | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 23     | 3"                    | 0                             |                | 0.00            | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 24     | 4"                    | 0                             |                | 0.00            | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 25     | 6"                    | 0                             |                | 0.00            | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 26     | 8"                    | 0                             |                | 0.00            | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 27     | 10"                   | 0                             |                | 0.00            | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 28     | 12"                   | 0                             |                | 0.00            | 0                | 0                             |                | 0.00             | 0                | 0                | 0.00%                |
| 29     |                       |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 30     |                       |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 31     | Volumetric Charges:   |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 32     | Monthly All Water     |                               | 23,401         | 2.033700        | 47,590           |                               | 31,201         | 2.070935         | 64,615           | 17,025           | 35.77%               |
| 33     | Quarterly All Water   |                               | 0              | 0.000000        | 0                |                               | 0              | 2.070935         | 0                | 0                | 0.00%                |
| 34     |                       |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 35     |                       |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 36     |                       |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 37     |                       |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 38     | Sub-total             |                               | 23,401         |                 | \$47,590         |                               | 31,201         |                  | \$64,615         | \$17,025         | 35.77%               |
| 39     |                       |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 40     |                       |                               |                |                 |                  |                               |                |                  |                  |                  |                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates**  
**12 Month Updated Test Period Ending December 31, 2006**

Missouri Public Service Commission  
 Company: Missouri-American Water Company  
 District: St. Louis

Case No. WR-2007-0216  
 STAFF - ST LOUIS COUNTY  
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| Line # | Class/<br>Description | Present Pro Forma Rates       |                |                 |                    | Proposed Pro Forma Rates      |                |                  |                  | Dollar<br>Change   | Percentage<br>Change |
|--------|-----------------------|-------------------------------|----------------|-----------------|--------------------|-------------------------------|----------------|------------------|------------------|--------------------|----------------------|
|        |                       | Customer<br>Meter<br>Billings | Sales<br>(CCF) | Current<br>Rate | Total<br>Revenue   | Customer<br>Meter<br>Billings | Sales<br>(CCF) | Proposed<br>Rate | Total<br>Revenue |                    |                      |
| 1      |                       |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 2      | <b>Rate F:</b>        |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 3      | Detector Check Meters |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 4      | 5/8"                  | 420                           |                | \$9.20          | \$3,864            | 420                           |                | \$2.85           | \$1,198          | (\$2,666)          | -69.00%              |
| 5      | 3/4"                  | 29,208                        |                | \$9.92          | 289,743            | 29,208                        |                | \$3.08           | 89,863           | (199,880)          | -68.99%              |
| 6      | 1"                    | 372                           |                | \$11.36         | 4,226              | 372                           |                | \$3.52           | 1,311            | (2,915)            | -68.98%              |
| 7      | 1 1/2"                | 24                            |                | \$14.95         | 359                | 24                            |                | \$4.64           | 111              | (248)              | -69.08%              |
| 8      | 2"                    | 228                           |                | \$19.25         | 4,389              | 228                           |                | \$5.97           | 1,361            | (3,028)            | -68.99%              |
| 9      | 3"                    | 0                             |                | \$30.73         | 0                  | 0                             |                | \$9.53           | 0                | 0                  | 0.00%                |
| 10     | 4"                    | 0                             |                | \$43.64         | 0                  | 0                             |                | \$13.53          | 0                | 0                  | 0.00%                |
| 11     | 6"                    | 0                             |                | \$79.53         | 0                  | 0                             |                | \$24.67          | 0                | 0                  | 0.00%                |
| 12     | 30,252.00             |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 13     |                       |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 14     | Tap Size              |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 15     | 2" or less            | 128                           |                | \$21.92         | \$2,806            | 128                           |                | \$6.80           | 870              | (1,936)            | -69.00%              |
| 16     | 4"                    | 484                           |                | 87.52           | 42,360             | 484                           |                | \$27.14          | 13,138           | (29,222)           | -68.98%              |
| 17     | 6"                    | 1,960                         |                | 196.92          | 385,963            | 1,960                         |                | \$61.07          | 119,706          | (266,257)          | -68.99%              |
| 18     | 8"                    | 1,184                         |                | 350.12          | 414,542            | 1,184                         |                | \$108.59         | 128,569          | (285,973)          | -68.99%              |
| 19     | 10"                   | 37                            |                | 547.08          | 20,242             | 37                            |                | \$169.68         | 6,278            | (13,964)           | -68.99%              |
| 20     | 12"                   | 65                            |                | 787.88          | 51,212             | 65                            |                | \$244.36         | 15,883           | (35,329)           | -68.99%              |
| 21     | 20"                   | 1                             |                | 2,085.36        | 2,085              | 1                             |                | \$646.77         | 647              | (1,438)            | -68.97%              |
| 22     | 3,859.00              |                               |                |                 | <u>1,221,791</u>   |                               |                |                  | <u>378,935</u>   |                    |                      |
| 23     | <b>Rate E</b>         |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 24     | Public Fire           |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 25     | Annual                |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 26     | # of Hydrants         | 0                             |                | 0.00            | 0                  | 0                             |                | 0.00             | 0                | 0                  | 0.00%                |
| 27     |                       |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 28     | Semi-Annual           |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 29     | # of Hydrants         | 0                             |                | 0.00            | 0                  | 0                             |                | 0.00             | 0                | 0                  | 0.00%                |
| 30     |                       |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 31     |                       |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 32     | Sub-total             |                               | <u>0</u>       |                 | <u>\$1,221,791</u> |                               | <u>0</u>       |                  | <u>\$378,935</u> | <u>(\$842,856)</u> | <u>-68.99%</u>       |
| 33     |                       |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 34     |                       |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 35     | Total Rate F and E    |                               | <u>23,401</u>  |                 | <u>\$1,269,381</u> |                               | <u>31,201</u>  |                  | <u>\$443,550</u> | <u>(\$825,831)</u> | <u>-65.06%</u>       |
| 36     |                       |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 37     |                       |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 38     |                       |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 39     |                       |                               |                |                 |                    |                               |                |                  |                  |                    |                      |
| 40     |                       |                               |                |                 |                    |                               |                |                  |                  |                    |                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates**  
**12 Month Updated Test Period Ending December 31, 2006**

Missouri Public Service Commission  
 Company: Missouri-American Water Company  
 District: St. Louis

Case No. WR-2007-0216  
 STAFF - ST LOUIS COUNTY  
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| Line # | Class/<br>Description      | Present Pro Forma Rates       |                  |                 |                    | Proposed Pro Forma Rates      |                  |                  |                    | Dollar<br>Change   | Percentage<br>Change |
|--------|----------------------------|-------------------------------|------------------|-----------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|----------------------|
|        |                            | Customer<br>Meter<br>Billings | Sales<br>(CCF)   | Current<br>Rate | Total<br>Revenue   | Customer<br>Meter<br>Billings | Sales<br>(CCF)   | Proposed<br>Rate | Total<br>Revenue   |                    |                      |
| 1      |                            |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |
| 2      | <b>Rate J:</b>             |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |
| 3      | Minimum Charge:            |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |
| 4      | Monthly                    |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |
| 5      | 5/8"                       | 48.0                          |                  | \$6.15          | \$295              | 48                            |                  | \$10.56          | \$507              | \$212              | 71.86%               |
| 6      | 3/4"                       | 7.0                           |                  | \$6.87          | 48                 | 7                             |                  | \$10.57          | 74                 | 26                 | 54.17%               |
| 7      | 1"                         | 41.0                          |                  | \$8.31          | 341                | 41                            |                  | \$10.57          | 434                | 93                 | 27.27%               |
| 8      | 1-1/2"                     | 148.8                         |                  | \$11.90         | 1,771              | 149                           |                  | \$10.60          | 1,579              | (192)              | -10.84%              |
| 9      | 2"                         | 601.5                         |                  | \$16.20         | 9,744              | 602                           |                  | \$10.62          | 6,394              | (3,350)            | -34.38%              |
| 10     | 3"                         | 377.8                         |                  | \$27.68         | 10,458             | 378                           |                  | \$10.69          | 4,041              | (6,417)            | -61.36%              |
| 11     | 4"                         | 734.9                         |                  | \$40.59         | 29,830             | 735                           |                  | \$10.72          | 7,881              | (21,949)           | -73.58%              |
| 12     | 6"                         | 425.1                         |                  | \$76.48         | 32,512             | 425                           |                  | \$10.83          | 4,604              | (27,908)           | -85.84%              |
| 13     | 8"                         | 162.5                         |                  | \$119.54        | 19,425             | 163                           |                  | \$11.12          | 1,813              | (17,612)           | -90.67%              |
| 14     | 10"                        | 35.8                          |                  | \$176.96        | 6,335              | 36                            |                  | \$11.40          | 410                | (5,925)            | -93.53%              |
| 15     | 12"                        | 0.0                           |                  | \$234.36        | 0                  | 0                             |                  | \$11.69          | 0                  | 0                  | 0.00%                |
| 16     | 2,582                      |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |
| 17     | Quarterly                  |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |
| 18     | 5/8"                       | 0                             |                  | 0.00            | 0                  | 0                             |                  | 10.66            | 0                  | 0                  | 0.00%                |
| 19     | 3/4"                       | 0                             |                  | 0.00            | 0                  | 0                             |                  | 10.67            | 0                  | 0                  | 0.00%                |
| 20     | 1"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | 10.69            | 0                  | 0                  | 0.00%                |
| 21     | 1-1/2"                     | 0                             |                  | 0.00            | 0                  | 0                             |                  | 10.76            | 0                  | 0                  | 0.00%                |
| 22     | 2"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | 10.83            | 0                  | 0                  | 0.00%                |
| 23     | 3"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | 11.04            | 0                  | 0                  | 0.00%                |
| 24     | 4"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | 11.14            | 0                  | 0                  | 0.00%                |
| 25     | 6"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | 11.47            | 0                  | 0                  | 0.00%                |
| 26     | 8"                         | 0                             |                  | 0.00            | 0                  | 0                             |                  | 12.34            | 0                  | 0                  | 0.00%                |
| 27     | 10"                        | 0                             |                  | 0.00            | 0                  | 0                             |                  | 13.16            | 0                  | 0                  | 0.00%                |
| 28     | 12"                        | 0                             |                  | 0.00            | 0                  | 0                             |                  | 14.03            | 0                  | 0                  | 0.00%                |
| 29     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |
| 30     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |
| 31     | <u>Volumetric Charges:</u> |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |
| 32     | Monthly All Water          |                               | 8,218,223        | 1.004500        | 8,255,205          |                               | 8,218,223        | 1.190911         | 9,787,173          | 1,531,968          | 18.56%               |
| 33     | Quarterly All Water        |                               | 0                | 0.000000        | 0                  |                               | 0                | 1.190911         | 0                  | 0                  | 0.00%                |
| 34     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |
| 35     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |
| 36     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |
| 37     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |
| 38     | Total                      |                               | <u>8,218,223</u> |                 | <u>\$8,365,964</u> |                               | <u>8,218,223</u> |                  | <u>\$9,814,910</u> | <u>\$1,448,946</u> | <u>17.32%</u>        |
| 39     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |
| 40     |                            |                               |                  |                 |                    |                               |                  |                  |                    |                    |                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates  
12 Month Updated Test Period Ending December 31, 2006**

Missouri Public Service Commission  
Company: Missouri-American Water Company  
District: St. Louis

Case No. WR-2007-0216  
STAFF - ST LOUIS COUNTY  
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| Line # | Class/<br>Description        | Present Pro Forma Rates       |                |                 |                  | Proposed Pro Forma Rates      |                |                  |                  | Dollar<br>Change | Percentage<br>Change |
|--------|------------------------------|-------------------------------|----------------|-----------------|------------------|-------------------------------|----------------|------------------|------------------|------------------|----------------------|
|        |                              | Customer<br>Meter<br>Billings | Sales<br>(CCF) | Current<br>Rate | Total<br>Revenue | Customer<br>Meter<br>Billings | Sales<br>(CCF) | Proposed<br>Rate | Total<br>Revenue |                  |                      |
| 1      |                              |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 2      | <b>Rate K:</b>               |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 3      | Minimum Charge:              |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 4      | Monthly                      |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 5      | 5/8"                         | 0.0                           |                | \$9.51          | \$0              | 0                             |                | \$10.56          | \$0              | \$0              | 0.00%                |
| 6      | 3/4"                         | 0.0                           |                | \$10.23         | 0                | 0                             |                | \$10.57          | 0                | 0                | 0.00%                |
| 7      | 1"                           | 0.0                           |                | \$11.67         | 0                | 0                             |                | \$10.57          | 0                | 0                | 0.00%                |
| 8      | 1-1/2"                       | 0.0                           |                | \$15.26         | 0                | 0                             |                | \$10.60          | 0                | 0                | 0.00%                |
| 9      | 2"                           | 0.0                           |                | \$19.56         | 0                | 0                             |                | \$10.62          | 0                | 0                | 0.00%                |
| 10     | 3"                           | 0.0                           |                | \$31.04         | 0                | 0                             |                | \$10.69          | 0                | 0                | 0.00%                |
| 11     | 4"                           | 0.0                           |                | \$43.95         | 0                | 0                             |                | \$10.72          | 0                | 0                | 0.00%                |
| 12     | 6"                           | 0.0                           |                | \$79.84         | 0                | 0                             |                | \$10.83          | 0                | 0                | 0.00%                |
| 13     | 8"                           | 0.0                           |                | \$122.90        | 0                | 0                             |                | \$11.12          | 0                | 0                | 0.00%                |
| 14     | 10"                          | 0.0                           |                | \$180.32        | 0                | 0                             |                | \$11.40          | 0                | 0                | 0.00%                |
| 15     | 12"                          | 0.0                           |                | \$237.72        | 0                | 0                             |                | \$11.69          | 0                | 0                | 0.00%                |
| 16     |                              |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 17     | Quarterly                    |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 18     | 5/8"                         | 1,365.0                       |                | 19.10           | 26,072           | 1,365                         |                | 10.66            | 14,555           | (11,517)         | -44.17%              |
| 19     | 3/4"                         | 1,754.0                       |                | 21.26           | 37,290           | 1,754                         |                | 10.67            | 18,706           | (18,584)         | -49.84%              |
| 20     | 1"                           | 502.0                         |                | 25.57           | 12,836           | 502                           |                | 10.69            | 5,367            | (7,469)          | -58.19%              |
| 21     | 1-1/2"                       | 3.0                           |                | 36.33           | 109              | 3                             |                | 10.76            | 32               | (77)             | -70.64%              |
| 22     | 2"                           | 310.0                         |                | 49.24           | 15,264           | 310                           |                | 10.83            | 3,358            | (11,906)         | -78.00%              |
| 23     | 3"                           | 0.0                           |                | 83.70           | 0                | 0                             |                | 11.04            | 0                | 0                | 0.00%                |
| 24     | 4"                           | 0.0                           |                | 122.45          | 0                | 0                             |                | 11.14            | 0                | 0                | 0.00%                |
| 25     | 6"                           | 0.0                           |                | 230.10          | 0                | 0                             |                | 11.47            | 0                | 0                | 0.00%                |
| 26     | 8"                           | 0.0                           |                | 359.28          | 0                | 0                             |                | 12.34            | 0                | 0                | 0.00%                |
| 27     | 10"                          | 0.0                           |                | 531.51          | 0                | 0                             |                | 13.16            | 0                | 0                | 0.00%                |
| 28     | 12"                          | 0.0                           |                | 703.75          | 0                | 0                             |                | 14.03            | 0                | 0                | 0.00%                |
| 29     |                              |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 30     |                              |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 31     | <u>Volumetric Charges:</u>   |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 32     | Monthly-First 1500 Gallons   |                               | 165,501        | 0.000000        | 0                |                               | 0              | 2.0709           | 0                | 0                | 0.00%                |
| 33     | Monthly > 1500 Gallons       |                               | 25             | 0.000000        | 0                |                               | 0              | 2.0709           | 0                | 0                | 0.00%                |
| 34     | Quarterly-First 4500 Gallons |                               | 21             | 0.000000        | 0                |                               | 11,693         | 2.0709           | 24,215           | 24,215           | 0.00%                |
| 35     | Quarterly > 4500 Gallons     |                               | 11             | 0.000000        | 0                |                               | 153,808        | 2.0709           | 318,526          | 318,526          | 0.00%                |
| 36     |                              |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 37     |                              |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 38     | Total                        |                               | <u>165,558</u> |                 | <u>\$91,571</u>  |                               | <u>165,501</u> |                  | <u>\$384,759</u> | <u>\$293,188</u> | <u>320.18%</u>       |
| 39     |                              |                               |                |                 |                  |                               |                |                  |                  |                  |                      |
| 40     |                              |                               |                |                 |                  |                               |                |                  |                  |                  |                      |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO CUSTOMER CLASSIFICATIONS  
**PSC STAFF STUDY**

| Account<br>(1)                            | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Rate A & K<br>(4) | Rate B<br>(5)  | Rate J<br>(6)    | Rate D<br>(7) | Other<br>(8) | Fire Protection |                |
|-------------------------------------------|-----------------------|---------------------------|-------------------|----------------|------------------|---------------|--------------|-----------------|----------------|
|                                           |                       |                           |                   |                |                  |               |              | Rate F<br>(9)   | Rate E<br>(10) |
| <b>OPERATION AND MAINTENANCE EXPENSES</b> |                       |                           |                   |                |                  |               |              |                 |                |
| <b>SOURCE OF SUPPLY EXPENSES</b>          |                       |                           |                   |                |                  |               |              |                 |                |
| Super & Eng Oper SS                       | 2                     | \$ -                      | \$ -              | \$ -           | \$ -             | \$ -          | \$ -         | \$ -            | \$ -           |
| Labor & Exp Oper SS                       | 2                     | 175,630                   | 148,126           | 5,690          | 20,918           | 492           | 0            | 35              | 386            |
| Labor & Exp Oper SS                       | 2                     | 112,165                   | 94,600            | 3,634          | 13,359           | 314           | 0            | 22              | 247            |
| Purchased Water                           | 1                     | 215,057                   | 172,712           | 7,290          | 33,398           | 731           | 0            | 86              | 817            |
| <b>TOTAL SS EXPENSE - OPERATION</b>       |                       | <b>502,852</b>            | <b>415,439</b>    | <b>16,615</b>  | <b>67,675</b>    | <b>1,537</b>  | <b>0</b>     | <b>144</b>      | <b>1,450</b>   |
| Misc Exp Oper SS                          | 2                     | 302,571                   | 255,188           | 9,803          | 36,036           | 847           | 0            | 61              | 668            |
| Misc Exp Oper SS                          | 2                     | 131                       | 111               | 4              | 16               | 0             | 0            | 0               | 0              |
| Rents Oper SS                             | 2                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Super & Eng Maint SS                      | 2                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Struct & Improve Maint SS                 | 2                     | 5,232                     | 4,412             | 170            | 623              | 15            | 0            | 1               | 12             |
| Struct & Improve Maint SS                 | 2                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Collect & Impound Maint SS                | 2                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Lake, River & Oth Maint SS                | 2                     | 63,641                    | 53,675            | 2,062          | 7,580            | 178           | 0            | 13              | 140            |
| Lake, River & Oth Maint SS                | 2                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Wells & Springs Maint SS                  | 2                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Wells & Springs Maint SS                  | 2                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Infiltr Gall & Tunnels Maint SS           | 2                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Supply Mains Maint SS                     | 2                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Misc Plant Maint SS                       | 2                     | 93,152                    | 78,564            | 3,018          | 11,094           | 281           | 0            | 19              | 205            |
| Misc Plant Maint SS                       | 2                     | 116,095                   | 97,915            | 3,761          | 13,827           | 325           | 0            | 23              | 255            |
| <b>TOTAL SS EXPENSE - MAINTENANCE</b>     |                       | <b>580,821</b>            | <b>489,865</b>    | <b>18,819</b>  | <b>69,176</b>    | <b>1,626</b>  | <b>0</b>     | <b>116</b>      | <b>1,278</b>   |
| <b>TOTAL SS EXPENSE</b>                   |                       | <b>1,083,673</b>          | <b>905,303</b>    | <b>35,434</b>  | <b>136,851</b>   | <b>3,163</b>  | <b>0</b>     | <b>260</b>      | <b>2,728</b>   |
| <b>POWER AND PUMPING EXPENSES</b>         |                       |                           |                   |                |                  |               |              |                 |                |
| Super & Eng Oper P                        | 6                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Fuel for Power Prod                       | 1                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Labor & Exp Oper Pwr Prod                 | 6                     | 9,977                     | 8,317             | 320            | 1,174            | 28            | 0            | 17              | 121            |
| Labor & Exp Oper Pwr Prod                 | 6                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Purch Fuel/Power for Pump                 | 1                     | 5,935,851                 | 4,767,082         | 201,225        | 921,838          | 20,182        | 0            | 2,374           | 22,556         |
| Labor & Exp Oper Pump                     | 6                     | 829,999                   | 691,887           | 26,643         | 97,691           | 2,324         | 0            | 1,411           | 10,043         |
| Labor & Exp Oper Pump                     | 6                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Expenses Transferred                      | 6                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Misc Exp Oper P                           | 6                     | 100,592                   | 83,853            | 3,229          | 11,840           | 282           | 0            | 171             | 1,217          |
| Rents Oper P                              | 6                     | 2                         | 2                 | 0              | 0                | 0             | 0            | 0               | 0              |
| <b>TOTAL PUMPING EXPENSE - OPERATION</b>  |                       | <b>6,876,421</b>          | <b>5,551,141</b>  | <b>231,418</b> | <b>1,032,543</b> | <b>22,815</b> | <b>0</b>     | <b>3,973</b>    | <b>33,937</b>  |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO CUSTOMER CLASSIFICATIONS  
**PSC STAFF STUDY**

| Account<br>(1)                                | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Rate A & K<br>(4) | Rate B<br>(5)  | Rate J<br>(6)    | Rate D<br>(7) | Other<br>(8) | Fire Protection |                |
|-----------------------------------------------|-----------------------|---------------------------|-------------------|----------------|------------------|---------------|--------------|-----------------|----------------|
|                                               |                       |                           |                   |                |                  |               |              | Rate F<br>(9)   | Rate E<br>(10) |
| Super & Eng Maint P                           | 6                     | 19,663                    | 16,391            | 631            | 2,314            | 55            | 0            | 33              | 238            |
| Struct & Improve Maint P                      | 6                     | 335,865                   | 279,977           | 10,781         | 39,531           | 940           | 0            | 571             | 4,064          |
| Power Prod Equip Maint F                      | 6                     | 200,441                   | 167,088           | 6,434          | 23,592           | 561           | 0            | 341             | 2,425          |
| Pump Equip Maint P                            | 6                     | 38,467                    | 32,066            | 1,235          | 4,528            | 108           | 0            | 65              | 465            |
| Pump Equip Maint F                            | 6                     | 78,064                    | 65,074            | 2,506          | 9,188            | 219           | 0            | 133             | 945            |
| <b>TOTAL PUMPING EXPENSES - MAINTENANCE</b>   |                       | <b>672,500</b>            | <b>560,596</b>    | <b>21,567</b>  | <b>79,153</b>    | <b>1,883</b>  | <b>0</b>     | <b>1,143</b>    | <b>8,137</b>   |
| <b>TOTAL PUMPING EXPENSES</b>                 |                       | <b>7,548,920</b>          | <b>6,111,737</b>  | <b>253,005</b> | <b>1,111,696</b> | <b>24,698</b> | <b>0</b>     | <b>5,117</b>    | <b>42,074</b>  |
| <b>WATER TREATMENT</b>                        |                       |                           |                   |                |                  |               |              |                 |                |
| Super & Eng Oper WT                           | 2                     | 66,817                    | 56,353            | 2,165          | 7,958            | 187           | 0            | 13              | 147            |
| Chemicals                                     | 1                     | 5,167,103                 | 4,149,701         | 175,165        | 802,451          | 17,568        | 0            | 2,067           | 19,635         |
| Labor & Exp Oper WT                           | 2                     | 129,368                   | 109,109           | 4,192          | 15,408           | 362           | 0            | 26              | 285            |
| Labor & Exp Oper WT                           | 2                     | 1,414,174                 | 1,192,715         | 45,819         | 188,428          | 3,960         | 0            | 283             | 3,111          |
| Misc Exp Oper WT                              | 2                     | (126,417)                 | (106,620)         | (4,096)        | (15,056)         | (354)         | 0            | (25)            | (276)          |
| Misc Exp Oper WT                              | 1                     | 341,709                   | 274,427           | 11,584         | 53,067           | 1,162         | 0            | 137             | 1,298          |
| Misc Exp Oper WT                              | 2                     | 44,999                    | 37,952            | 1,458          | 5,359            | 126           | 0            | 9               | 99             |
| Rents Oper WT                                 | 2                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| <b>TOTAL WT EXPENSE - OPERATION</b>           |                       | <b>7,037,753</b>          | <b>5,713,636</b>  | <b>236,286</b> | <b>1,037,615</b> | <b>23,011</b> | <b>0</b>     | <b>2,509</b>    | <b>24,297</b>  |
| Super & Eng Maint WT                          | 2                     | 40,813                    | 34,253            | 1,316          | 4,837            | 114           | 0            | 8               | 89             |
| Struct & Improve Maint WT                     | 2                     | 44,837                    | 37,816            | 1,453          | 5,340            | 126           | 0            | 9               | 99             |
| Struct & Improve Maint WT                     | 2                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| WT Equip Maint WT                             | 2                     | 434,281                   | 366,273           | 14,071         | 51,723           | 1,216         | 0            | 87              | 955            |
| WT Equip Maint WT                             | 2                     | 427,572                   | 360,614           | 13,853         | 50,924           | 1,197         | 0            | 86              | 941            |
| <b>TOTAL WT EXPENSE - MAINTENANCE</b>         |                       | <b>947,303</b>            | <b>798,955</b>    | <b>30,693</b>  | <b>112,824</b>   | <b>2,652</b>  | <b>0</b>     | <b>169</b>      | <b>2,064</b>   |
| <b>TOTAL WT EXPENSE</b>                       |                       | <b>7,985,056</b>          | <b>6,512,591</b>  | <b>266,979</b> | <b>1,150,439</b> | <b>25,663</b> | <b>0</b>     | <b>2,699</b>    | <b>26,361</b>  |
| <b>TRANSMISSION AND DISTRIBUTION EXPENSES</b> |                       |                           |                   |                |                  |               |              |                 |                |
| Super & Eng Oper TD                           | 11                    | 895,703                   | 781,142           | 19,705         | 54,100           | 1,523         | 0            | 5,464           | 33,678         |
| Storage Facility Exp                          | 5                     | 8,006                     | 6,203             | 235            | 644              | 18            | 0            | 122             | 782            |
| Storage Facility Exp                          | 5                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| TD Lines Exp                                  | 7                     | 572,920                   | 469,966           | 17,818         | 48,755           | 1,375         | 0            | 4,755           | 30,250         |
| TD Lines Exp                                  | 7                     | 1,564,836                 | 1,283,635         | 48,668         | 133,168          | 3,756         | 0            | 12,988          | 82,623         |
| Meter Expense                                 | 9                     | 461,259                   | 461,259           | 0              | 0                | 0             | 0            | 0               | 0              |
| Meter Expense                                 | 9                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Customer Install Exp                          | 10                    | 419,054                   | 418,300           | 0              | 84               | 0             | 0            | 712             | 0              |
| Customer Install Exp                          | 10                    | 335                       | 334               | 0              | 0                | 0             | 0            | 1               | 0              |
| Misc Exp Oper TD                              | 11                    | 329,694                   | 287,526           | 7,253          | 19,914           | 560           | 0            | 2,011           | 12,397         |
| Misc Exp Oper TD                              | 11                    | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| Misc Exp Oper TD                              | 11                    | 462,754                   | 403,568           | 10,181         | 27,950           | 787           | 0            | 2,823           | 17,400         |
| Rents Oper TD                                 | 11                    | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0              |
| <b>TOTAL T &amp; D EXPENSE OPERATION</b>      |                       | <b>4,714,561</b>          | <b>4,111,934</b>  | <b>103,859</b> | <b>284,615</b>   | <b>8,019</b>  | <b>0</b>     | <b>28,877</b>   | <b>177,130</b> |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO CUSTOMER CLASSIFICATIONS  
**PSC STAFF STUDY**

| Account<br>(1)                               | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Rate A & K<br>(4) | Rate B<br>(5)  | Rate J<br>(6)  | Rate D<br>(7) | Other<br>(8) | Fire Protection |                  |
|----------------------------------------------|-----------------------|---------------------------|-------------------|----------------|----------------|---------------|--------------|-----------------|------------------|
|                                              |                       |                           |                   |                |                |               |              | Rate F<br>(9)   | Rate E<br>(10)   |
| Super & Eng Maint TD                         | 12                    | 91,819                    | 67,129            | 1,313          | 3,599          | 101           | 0            | 386             | 19,291           |
| Struct & Improve Maint TD                    | 12                    | 5,913                     | 4,323             | 85             | 232            | 7             | 0            | 25              | 1,242            |
| Struct & Improve Maint TD                    | 12                    | 0                         | 0                 | 0              | 0              | 0             | 0            | 0               | 0                |
| Dist Res Stand Maint TD                      | 5                     | 16,806                    | 13,021            | 494            | 1,351          | 39            | 0            | 257             | 1,642            |
| TD Main Maint TD                             | 7                     | 0                         | 0                 | 0              | 0              | 0             | 0            | 0               | 0                |
| TD Main Maint TD                             | 7                     | 791,904                   | 649,599           | 24,628         | 67,391         | 1,901         | 0            | 6,573           | 41,813           |
| Fire Main Maint TD                           | 8                     | 249                       | 0                 | 0              | 0              | 0             | 0            | 0               | 249              |
| Services Maint TD                            | 10                    | 319,244                   | 318,670           | 0              | 64             | 0             | 0            | 543             | 0                |
| Services Maint TD                            | 10                    | 0                         | 0                 | 0              | 0              | 0             | 0            | 0               | 0                |
| Meters Maint TD                              | 9                     | 301,614                   | 301,614           | 0              | 0              | 0             | 0            | 0               | 0                |
| Meters Maint TD                              | 9                     | 0                         | 0                 | 0              | 0              | 0             | 0            | 0               | 0                |
| Hydrants Maint TD                            | 8                     | 324,993                   | 0                 | 0              | 0              | 0             | 0            | 0               | 324,993          |
| Hydrants Maint TD                            | 8                     | 0                         | 0                 | 0              | 0              | 0             | 0            | 0               | 0                |
| Misc Plant Maint TD                          | 12                    | 3,443,551                 | 2,517,580         | 48,243         | 134,987        | 3,788         | 0            | 14,463          | 723,490          |
| Mat and Sup Maint TD                         | 12                    | 0                         | 0                 | 0              | 0              | 0             | 0            | 0               | 0                |
| Misc Maint TD                                | 12                    | 927,196                   | 677,873           | 13,259         | 36,346         | 1,020         | 0            | 3,894           | 194,804          |
| Amort Def Maint TD                           | 5                     | 0                         | 0                 | 0              | 0              | 0             | 0            | 0               | 0                |
| Permits TD                                   | 12                    | 0                         | 0                 | 0              | 0              | 0             | 0            | 0               | 0                |
| <b>TOTAL T &amp; D EXPENSE - MAINTENANCE</b> |                       | <b>6,223,289</b>          | <b>4,549,809</b>  | <b>89,022</b>  | <b>243,970</b> | <b>6,655</b>  | <b>0</b>     | <b>26,140</b>   | <b>1,307,524</b> |
| <b>TOTAL T &amp; D EXPENSE</b>               |                       | <b>10,937,850</b>         | <b>8,661,742</b>  | <b>192,880</b> | <b>528,585</b> | <b>14,873</b> | <b>0</b>     | <b>55,017</b>   | <b>1,484,654</b> |
| <b>CUSTOMER ACCOUNTS</b>                     |                       |                           |                   |                |                |               |              |                 |                  |
| Supervision CA                               | 13                    | 0                         | 0                 | 0              | 0              | 0             | 0            | 0               | 0                |
| Meter Reading Exp CA                         | 14                    | 895,945                   | 894,780           | 0              | 1,165          | 0             | 0            | 0               | 0                |
| Meter Reading Exp CA                         | 14                    | (511)                     | (511)             | 0              | (1)            | 0             | 0            | 0               | 0                |
| Meter Reading Exp CA                         | 14                    | 0                         | 0                 | 0              | 0              | 0             | 0            | 0               | 0                |
| Cust Rec & Collection CA                     | 13                    | 413,280                   | 411,710           | 0              | 537            | 0             | 0            | 1,033           | 0                |
| Cust Rec & Collection CA                     | 13                    | 1,266,430                 | 1,261,617         | 0              | 1,646          | 0             | 0            | 3,166           | 0                |
| Uncollectible Accts                          | 13                    | 1,134,544                 | 1,130,233         | 0              | 1,475          | 0             | 0            | 2,836           | 0                |
| Misc Cust Accts Exp CA                       | 13                    | 117,459                   | 117,012           | 0              | 153            | 0             | 0            | 294             | 0                |
| Misc Cust Accts Exp CA                       | 13                    | 0                         | 0                 | 0              | 0              | 0             | 0            | 0               | 0                |
| Misc Cust Accts Exp CA                       | 13                    | 96,740                    | 96,373            | 0              | 126            | 0             | 0            | 242             | 0                |
| Cust Serv & Info Exp CA                      | 13                    | (75)                      | (75)              | 0              | (0)            | 0             | 0            | (0)             | 0                |
| <b>TOTAL CUSTOMER ACCOUNTING EXPENSE</b>     |                       | <b>3,923,812</b>          | <b>3,911,140</b>  | <b>0</b>       | <b>5,101</b>   | <b>0</b>      | <b>0</b>     | <b>7,571</b>    | <b>0</b>         |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO CUSTOMER CLASSIFICATIONS  
**PSC STAFF STUDY**

| Account<br>(1)                                    | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Rate A & K<br>(4) | Rate B<br>(5)    | Rate J<br>(6)    | Rate D<br>(7)  | Other<br>(8) | Fire Protection |                  |
|---------------------------------------------------|-----------------------|---------------------------|-------------------|------------------|------------------|----------------|--------------|-----------------|------------------|
|                                                   |                       |                           |                   |                  |                  |                |              | Rate F<br>(9)   | Rate E<br>(10)   |
| <b>ADMINISTRATIVE AND GENERAL EXPENSES</b>        |                       |                           |                   |                  |                  |                |              |                 |                  |
| Salaries AG                                       | 15                    | 2,555,463                 | 2,157,833         | 45,487           | 144,639          | 3,833          | 0            | 8,433           | 194,982          |
| Other Supplies & Exp AG                           | 15                    | 42,833                    | 36,168            | 762              | 2,424            | 64             | 0            | 141             | 3,268            |
| Other Supplies & Exp AG                           | 15                    | 39,790                    | 33,599            | 708              | 2,252            | 60             | 0            | 131             | 3,036            |
| Other Supplies & Exp AG                           | 15                    | 1,243,089                 | 1,049,665         | 22,127           | 70,359           | 1,865          | 0            | 4,102           | 94,848           |
| Mgmt Fees-Corporate/Shared Service Center         | 15                    | 6,066,737                 | 5,122,752         | 107,988          | 343,377          | 9,100          | 0            | 20,020          | 462,892          |
| Mgmt Fees-Call Center                             | 13                    | 4,091,678                 | 4,076,130         | 0                | 5,319            | 0              | 0            | 10,229          | 0                |
| Mgmt Fees-Belleville Lab                          | 2                     | 102,899                   | 86,785            | 3,334            | 12,255           | 288            | 0            | 21              | 226              |
| Mgmt Fees- Financial ITS                          | 15                    | 0                         | 0                 | 0                | 0                | 0              | 0            | 0               | 0                |
| Mgmt Fees- Customer Billings ITS                  | 13                    | 0                         | 0                 | 0                | 0                | 0              | 0            | 0               | 0                |
| Outside Services AG                               | 15                    | 6,553,924                 | 5,534,134         | 116,660          | 370,952          | 9,831          | 0            | 21,628          | 500,064          |
| Outside Services AG                               | 15                    | 455,616                   | 384,722           | 8,110            | 25,788           | 683            | 0            | 1,504           | 34,763           |
| Outside Services AG                               | 15                    | 1,235,737                 | 1,043,457         | 21,996           | 69,943           | 1,854          | 0            | 4,078           | 94,287           |
| Property Insurance                                | 15                    | 566,879                   | 478,673           | 10,090           | 32,085           | 850            | 0            | 1,871           | 43,253           |
| Ins Gen Liab Oper AG                              | 15                    | 0                         | 0                 | 0                | 0                | 0              | 0            | 0               | 0                |
| Ins Work Comp AG                                  | 16                    | 0                         | 0                 | 0                | 0                | 0              | 0            | 0               | 0                |
| Ins Other Oper AG                                 | 15                    | 0                         | 0                 | 0                | 0                | 0              | 0            | 0               | 0                |
| Property Insurance                                | 15                    | 0                         | 0                 | 0                | 0                | 0              | 0            | 0               | 0                |
| Injuries & Damages                                | 16                    | 2,301,484                 | 1,905,859         | 37,284           | 118,757          | 2,992          | 0            | 6,904           | 229,458          |
| Employee Pension & Benefits                       | 16                    | 3,904,644                 | 3,233,435         | 63,255           | 201,480          | 5,076          | 0            | 11,714          | 389,293          |
| Employee Pension & Benefits                       | 16                    | 2,118,515                 | 1,754,342         | 34,320           | 109,315          | 2,754          | 0            | 6,356           | 211,216          |
| Employee Pension & Benefits                       | 16                    | 752,915                   | 623,489           | 12,197           | 38,850           | 979            | 0            | 2,259           | 75,066           |
| Reg Commision Exp                                 | 15                    | 107,885                   | 91,107            | 1,921            | 6,107            | 162            | 0            | 356             | 8,232            |
| Rents AG                                          | 15                    | 246,768                   | 208,371           | 4,392            | 13,967           | 370            | 0            | 814             | 18,828           |
| Goodwill Advertising Expense                      | 15                    | 0                         | 0                 | 0                | 0                | 0              | 0            | 0               | 0                |
| Misc Exp AG                                       | 15                    | (242,443)                 | (204,719)         | (4,315)          | (13,722)         | (364)          | 0            | (800)           | (18,498)         |
| Research & Development                            | 15                    | 0                         | 0                 | 0                | 0                | 0              | 0            | 0               | 0                |
| <b>TOTAL A &amp; G OPERATIONS</b>                 |                       | <b>32,144,425</b>         | <b>27,615,802</b> | <b>486,317</b>   | <b>1,554,148</b> | <b>40,397</b>  | <b>0</b>     | <b>99,761</b>   | <b>2,345,215</b> |
| General Plant Maint AG                            | 15                    | 24                        | 20                | 0                | 1                | 0              | 0            | 0               | 2                |
| General Plant Maint AG                            | 15                    | 247,568                   | 209,047           | 4,407            | 14,012           | 371            | 0            | 817             | 18,889           |
| <b>TOTAL A &amp; G EXPENSE - MAINTENANCE</b>      |                       | <b>247,592</b>            | <b>209,067</b>    | <b>4,407</b>     | <b>14,014</b>    | <b>371</b>     | <b>0</b>     | <b>817</b>      | <b>18,891</b>    |
| <b>TOTAL A &amp; G EXPENSE</b>                    |                       | <b>32,392,017</b>         | <b>27,824,869</b> | <b>490,724</b>   | <b>1,568,162</b> | <b>40,768</b>  | <b>0</b>     | <b>100,578</b>  | <b>2,364,106</b> |
| <b>Total Operation &amp; Maintenance Expenses</b> |                       | <b>63,871,329</b>         | <b>53,927,382</b> | <b>1,239,022</b> | <b>4,500,834</b> | <b>109,167</b> | <b>0</b>     | <b>171,241</b>  | <b>3,919,944</b> |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO CUSTOMER CLASSIFICATIONS  
**PSC STAFF STUDY**

| Account<br>(1)              | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Rate A & K<br>(4) | Rate B<br>(5) | Rate J<br>(6) | Rate D<br>(7) | Other<br>(8) | Fire Protection |                |
|-----------------------------|-----------------------|---------------------------|-------------------|---------------|---------------|---------------|--------------|-----------------|----------------|
|                             |                       |                           |                   |               |               |               |              | Rate F<br>(9)   | Rate E<br>(10) |
| DEPRECIATION EXPENSE        |                       |                           |                   |               |               |               |              |                 |                |
| Struct & Imp SS             | 2                     | 149,201                   | 125,836           | 4,834         | 17,770        | 418           | 0            | 30              | 328            |
| Struct & Imp P              | 6                     | 5,160                     | 4,302             | 166           | 607           | 14            | 0            | 9               | 62             |
| Struct & Imp Pumps (STL)    | 6                     | 83,871                    | 69,915            | 2,692         | 9,872         | 235           | 0            | 143             | 1,015          |
| Struct & Imp Pump Boosters  | 6                     | 47,022                    | 39,197            | 1,509         | 5,534         | 132           | 0            | 80              | 569            |
| Struct & Imp WT             | 2                     | 32,576                    | 27,474            | 1,055         | 3,880         | 91            | 0            | 7               | 72             |
| Struct & Imp WT Nth Plt (ST | 2                     | 96,123                    | 81,070            | 3,114         | 11,448        | 269           | 0            | 19              | 211            |
| Struct & Imp WT Ctrl Plt 1  | 2                     | 43,680                    | 36,840            | 1,415         | 5,202         | 122           | 0            | 9               | 96             |
| Struct & Imp WT Ctrl Plt 3  | 2                     | 349,677                   | 294,917           | 11,330        | 41,647        | 979           | 0            | 70              | 769            |
| Struct & Imp WT Sth Plt (ST | 2                     | 38,718                    | 32,655            | 1,254         | 4,611         | 108           | 0            | 8               | 85             |
| Struct & Imp WT Meramec (ST | 2                     | 149,490                   | 126,080           | 4,843         | 17,804        | 419           | 0            | 30              | 329            |
| Struct & Imp TD             | 7                     | 126,025                   | 103,378           | 3,919         | 10,725        | 302           | 0            | 1,046           | 6,654          |
| Struct & Imp TD Spec Cross  | 7                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Struct & Imp Offices        | 15                    | 16,986                    | 14,343            | 302           | 961           | 25            | 0            | 56              | 1,296          |
| Struct & Imp Leasehold      | 15                    | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Struct & Imp Leasehold      | 15                    | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Struct & Imp Store,Shop,Gar | 15                    | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Struct & Imp Misc           | 15                    | 33,606                    | 28,377            | 598           | 1,902         | 50            | 0            | 111             | 2,564          |
| Collect & Impounding        | 1                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Lake, River & Other Intakes | 2                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Wells & Springs             | 2                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Supply Mains                | 2                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Supply Mains Nth Plt (STL)  | 2                     | 3,931                     | 3,315             | 127           | 468           | 11            | 0            | 1               | 9              |
| Supply Mains Ctrl Plt (STL) | 2                     | 62,872                    | 53,027            | 2,037         | 7,488         | 176           | 0            | 13              | 138            |
| Supply Mains Sth Plt (STL)  | 2                     | 5,399                     | 4,554             | 175           | 643           | 15            | 0            | 1               | 12             |
| Supply Mains Meramec Plt (S | 2                     | 21,022                    | 17,730            | 681           | 2,504         | 59            | 0            | 4               | 46             |
| Power Generation Equip Othe | 6                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Boiler Plant Equipment P    | 6                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Pump Equip Steam            | 6                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Pump Equip Electric         | 6                     | 617,887                   | 515,070           | 19,834        | 72,725        | 1,730         | 0            | 1,050           | 7,476          |
| Pump Equip Elec Pre46 (STL) | 6                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Pump Equip Elec Post46 (STL | 6                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Pump Equip Elec Boosters Po | 6                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Pump Equip Diesel           | 6                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Pump Equip Diesel Stratman) | 6                     | 5,074                     | 4,230             | 163           | 597           | 14            | 0            | 9               | 61             |
| Pump Equip Diesel Ctrl Plt  | 6                     | 41,451                    | 34,553            | 1,331         | 4,879         | 116           | 0            | 70              | 502            |
| Pump Equip Hydraulic        | 6                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Pump Equip Other            | 6                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| WT Equip Non-Media          | 2                     | 54,572                    | 46,026            | 1,768         | 6,500         | 153           | 0            | 11              | 120            |
| WT Equip Non-Med North (STL | 2                     | 199,583                   | 168,328           | 6,466         | 23,770        | 559           | 0            | 40              | 439            |
| WT Equip Non Media Ctrl 1 & | 2                     | 62,723                    | 52,900            | 2,032         | 7,470         | 176           | 0            | 13              | 138            |
| WT Equip Non Media Ctrl 3 ( | 2                     | 606,192                   | 511,262           | 19,641        | 72,197        | 1,697         | 0            | 121             | 1,334          |
| WT Equip Non Media Sth (STL | 2                     | 73,076                    | 61,632            | 2,368         | 8,703         | 205           | 0            | 15              | 161            |
| WT Equip Non Media Mer (STL | 2                     | 204,495                   | 172,471           | 6,626         | 24,355        | 573           | 0            | 41              | 450            |
| WT Equip Filter Media       | 2                     | 18,654                    | 15,733            | 604           | 2,222         | 52            | 0            | 4               | 41             |
| Dist Reservoirs & Standpipe | 5                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Elevated Tanks & Standpipes | 5                     | 54,903                    | 42,539            | 1,614         | 4,414         | 126           | 0            | 840             | 5,364          |
| Ground Level Facilities     | 5                     | 214,309                   | 166,047           | 6,301         | 17,230        | 493           | 0            | 3,278           | 20,938         |
| TD Mains Not Classified by  | 7                     | 11,876                    | 9,742             | 369           | 1,011         | 29            | 0            | 99              | 627            |
| TD Mains 4 & Less           | 4                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| TD Mains 6 to 8"            | 4                     | 10,002                    | 8,204             | 311           | 851           | 24            | 0            | 83              | 528            |
| TD Mains 10 to 16"          | 3                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| TD Mains 18 & Grtr          | 3                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO CUSTOMER CLASSIFICATIONS  
**PSC STAFF STUDY**

| Account<br>(1)                       | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Rate A & K<br>(4) | Rate B<br>(5)  | Rate J<br>(6)    | Rate D<br>(7) | Other<br>(8) | Fire Protection |                  |
|--------------------------------------|-----------------------|---------------------------|-------------------|----------------|------------------|---------------|--------------|-----------------|------------------|
|                                      |                       |                           |                   |                |                  |               |              | Rate F<br>(9)   | Rate E<br>(10)   |
| TD Mains AC 4 (STL) *                | 4                     | 42,413                    | 34,791            | 1,319          | 3,609            | 102           | 0            | 352             | 2,239            |
| TD Mains CI <10 1900-28 (S*          | 4                     | 42,012                    | 34,463            | 1,307          | 3,575            | 101           | 0            | 349             | 2,218            |
| TD Mains CI <10 1929-56 (S*          | 4                     | 259,096                   | 212,536           | 8,058          | 22,049           | 622           | 0            | 2,150           | 13,680           |
| TD Mains CI <10 1957-93 (S*          | 4                     | 796,493                   | 653,363           | 24,771         | 67,782           | 1,912         | 0            | 6,611           | 42,055           |
| TD Mains CI 12 (STL) *               | 3                     | 195,398                   | 158,351           | 6,077          | 22,373           | 528           | 0            | 1,075           | 6,976            |
| TD Mains CI 16 (STL) *               | 3                     | 286,861                   | 232,472           | 8,921          | 32,846           | 775           | 0            | 1,578           | 10,241           |
| TD Mains DI 6-8 (STL) *              | 4                     | 3,640,407                 | 2,986,226         | 113,217        | 309,799          | 8,737         | 0            | 30,215          | 192,214          |
| TD Mains DI 12 (STL) *               | 3                     | 889,997                   | 721,253           | 27,679         | 101,905          | 2,403         | 0            | 4,895           | 31,773           |
| TD Mains DI 16 & >(STL)              | 3                     | 1,604,116                 | 1,299,975         | 49,888         | 183,671          | 4,331         | 0            | 8,823           | 57,267           |
| T & D Mains - PL 12 (STL)            | 4                     | 4,114                     | 3,375             | 128            | 350              | 10            | 0            | 34              | 217              |
| TD Mains LJ 20 (STL) *               | 3                     | 67,494                    | 54,697            | 2,099          | 7,728            | 182           | 0            | 371             | 2,410            |
| Fire Mains                           | 6                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |
| Services                             | 10                    | 2,527                     | 2,522             | 0              | 1                | 0             | 0            | 4               | 0                |
| Meters Bronze Case                   | 9                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |
| Meters Plastic Case                  | 9                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |
| Meters Other                         | 9                     | 460,472                   | 460,472           | 0              | 0                | 0             | 0            | 0               | 0                |
| Meters Other-Rem Rdr Units           | 9                     | 101,875                   | 101,875           | 0              | 0                | 0             | 0            | 0               | 0                |
| Meter Installations                  | 9                     | 67,454                    | 67,454            | 0              | 0                | 0             | 0            | 0               | 0                |
| Meter Installation Other             | 9                     | 233,825                   | 233,825           | 0              | 0                | 0             | 0            | 0               | 0                |
| Hydrants                             | 8                     | 724,674                   | 0                 | 0              | 0                | 0             | 0            | 0               | 724,674          |
| Utility Plant Acquisition Adjustment | 17                    | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |
| Other P/E WT Res Hand Equip          | 2                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |
| Other P/E TD                         | 7                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |
| Other P/E CPS                        | 15                    | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |
| Office Furniture & Equip             | 15                    | 72,390                    | 61,126            | 1,289          | 4,097            | 109           | 0            | 239             | 5,523            |
| Comp & Periph Equip                  | 15                    | 620,913                   | 524,299           | 11,052         | 35,144           | 931           | 0            | 2,049           | 47,376           |
| Computer Software                    | 15                    | 993,808                   | 839,171           | 17,690         | 56,250           | 1,491         | 0            | 3,280           | 75,828           |
| Comp Software Personal               | 15                    | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |
| Data Handling Equipment              | 15                    | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |
| Other Office Equipment               | 15                    | 11,967                    | 10,105            | 213            | 677              | 18            | 0            | 39              | 913              |
| Trans Equip Lt Duty Trks             | 15                    | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |
| Trans Equip Hvy Duty Trks            | 15                    | 346,055                   | 292,209           | 6,160          | 19,587           | 519           | 0            | 1,142           | 26,404           |
| Trans Equip Autos                    | 15                    | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |
| Trans Equip Other                    | 15                    | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |
| Stores Equipment                     | 15                    | 3,381                     | 2,855             | 60             | 191              | 5             | 0            | 11              | 258              |
| Tools,Shop,Garage Equip              | 15                    | 48,113                    | 40,626            | 856            | 2,723            | 72            | 0            | 159             | 3,671            |
| Tools,Shop,Garage Equip Oth          | 15                    | 196,717                   | 166,108           | 3,502          | 11,134           | 295           | 0            | 649             | 15,009           |
| Laboratory Equipment                 | 2                     | 44,044                    | 37,147            | 1,427          | 5,246            | 123           | 0            | 9               | 97               |
| Laboratory Equip Other               | 2                     | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |
| Power Operated Equipment             | 15                    | 43,464                    | 36,701            | 774            | 2,460            | 65            | 0            | 143             | 3,316            |
| Comm Equip Non-Telephone             | 15                    | 52,822                    | 44,603            | 940            | 2,990            | 79            | 0            | 174             | 4,030            |
| Comm Equip Telephone                 | 15                    | 5,561                     | 4,696             | 99             | 315              | 8             | 0            | 18              | 424              |
| Misc Equipment                       | 15                    | 28,898                    | 24,401            | 514            | 1,636            | 43            | 0            | 95              | 2,205            |
| Other Tangible Property              | 17                    | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |
| <b>Total Depreciation Expense</b>    |                       | <b>15,327,516</b>         | <b>12,213,447</b> | <b>397,521</b> | <b>1,288,129</b> | <b>32,834</b> | <b>0</b>     | <b>71,774</b>   | <b>1,323,454</b> |
| Amort-Other UP                       | 18                    | 0                         | 0                 | 0              | 0                | 0             | 0            | 0               | 0                |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO CUSTOMER CLASSIFICATIONS  
**PSC STAFF STUDY**

| Account<br>(1)                                         | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Rate A & K<br>(4)     | Rate B<br>(5)       | Rate J<br>(6)       | Rate D<br>(7)     | Other<br>(8) | Fire Protection   |                     |
|--------------------------------------------------------|-----------------------|---------------------------|-----------------------|---------------------|---------------------|-------------------|--------------|-------------------|---------------------|
|                                                        |                       |                           |                       |                     |                     |                   |              | Rate F<br>(9)     | Rate E<br>(10)      |
| <b>Taxes Other Than Income</b>                         |                       |                           |                       |                     |                     |                   |              |                   |                     |
| Utility Reg Assessment Fee                             | 19                    | 804,096                   | 660,244               | 18,414              | 62,639              | 1,528             | 0            | 3,056             | 58,136              |
| Property Taxes                                         | 18                    | 6,708,517                 | 5,304,425             | 187,838             | 598,400             | 15,430            | 0            | 36,226            | 566,870             |
| FUTA                                                   | 16                    | 16,475                    | 13,843                | 267                 | 850                 | 21                | 0            | 49                | 1,643               |
| FICA                                                   | 16                    | 1,170,500                 | 969,291               | 18,962              | 60,398              | 1,522             | 0            | 3,511             | 116,699             |
| SUTA                                                   | 16                    | 42,208                    | 34,952                | 684                 | 2,178               | 55                | 0            | 127               | 4,208               |
| Other Taxes & Licenses                                 | 15                    | 168,166                   | 142,000               | 2,993               | 9,518               | 252               | 0            | 555               | 12,831              |
| Gross Receipts Tax                                     | 19                    | 0                         | 0                     | 0                   | 0                   | 0                 | 0            | 0                 | 0                   |
| <b>Total Taxes, Other Than Income</b>                  |                       | <b>8,909,963</b>          | <b>7,124,554</b>      | <b>229,158</b>      | <b>733,983</b>      | <b>18,808</b>     | <b>0</b>     | <b>43,524</b>     | <b>760,386</b>      |
| <b>Income Taxes</b>                                    | 18                    | <b>6,626,847</b>          | <b>5,239,848</b>      | <b>185,552</b>      | <b>591,115</b>      | <b>15,242</b>     | <b>0</b>     | <b>35,785</b>     | <b>559,969</b>      |
| <b>Utility Income Available for Return</b>             | 18                    | <b>23,083,498</b>         | <b>18,252,122</b>     | <b>646,338</b>      | <b>2,059,048</b>    | <b>53,092</b>     | <b>0</b>     | <b>124,651</b>    | <b>1,950,556</b>    |
| <b>Total Cost of Service</b>                           |                       | <b>117,819,153</b>        | <b>96,757,353</b>     | <b>2,697,592</b>    | <b>9,173,108</b>    | <b>229,142</b>    | <b>0</b>     | <b>446,975</b>    | <b>8,514,309</b>    |
| <b>Less: Other Water Revenues</b>                      | 19                    | <b>(1,316,503)</b>        | <b>(1,316,503)</b>    |                     |                     |                   | <b>0</b>     |                   |                     |
| Contract Sales                                         | 19                    | (900,987)                 | (739,800)             | (20,633)            | (70,187)            | (1,712)           | 0            | (3,424)           | (65,141)            |
| Revenue Contribution                                   | 19                    |                           |                       |                     |                     |                   |              |                   |                     |
| <b>Total Other Water Revenues</b>                      |                       | <b>(2,217,490)</b>        | <b>(2,056,303)</b>    | <b>(20,633)</b>     | <b>(70,187)</b>     | <b>(1,712)</b>    | <b>0</b>     | <b>(3,424)</b>    | <b>(65,141)</b>     |
| <b>Total Cost of Service Related to Sales of Water</b> |                       | <b>\$ 115,601,663</b>     | <b>\$ 94,701,050</b>  | <b>\$ 2,676,959</b> | <b>\$ 9,102,921</b> | <b>\$ 227,431</b> | <b>\$ -</b>  | <b>\$ 443,551</b> | <b>\$ 8,449,167</b> |
| <b>Reallocation of Public Fire</b>                     | 20                    |                           | <b>7,510,014</b>      | <b>209,379</b>      | <b>711,989</b>      | <b>17785</b>      |              |                   | <b>(8,449,167)</b>  |
| <b>Total</b>                                           |                       | <b>\$ 115,601,663</b>     | <b>\$ 102,211,064</b> | <b>\$ 2,886,338</b> | <b>\$ 9,814,910</b> | <b>\$ 245,216</b> | <b>\$ -</b>  | <b>\$ 443,551</b> | <b>\$ -</b>         |
|                                                        |                       | <b>\$ 1,316,503</b>       | <b>\$ 1,316,503</b>   |                     |                     |                   |              |                   | <b>30,845</b>       |
|                                                        |                       | <b>\$ 116,918,166</b>     | <b>\$ 103,527,567</b> | <b>\$ 2,886,338</b> | <b>\$ 9,814,910</b> | <b>\$ 245,216</b> | <b>\$ -</b>  | <b>\$ 443,551</b> | <b>\$ 273.92</b>    |
|                                                        | 19                    | <b>0</b>                  | <b>0</b>              | <b>0</b>            | <b>0</b>            | <b>0</b>          | <b>0</b>     | <b>0</b>          | <b>0</b>            |
|                                                        |                       | <b>\$ 116,918,166</b>     | <b>\$ 103,527,567</b> | <b>\$ 2,886,338</b> | <b>\$ 9,814,910</b> | <b>\$ 245,216</b> | <b>\$ -</b>  | <b>\$ 443,551</b> |                     |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO CUSTOMER CLASSIFICATIONS  
**PSC STAFF STUDY**

| Account<br>(1)              | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Rate A & K<br>(4) | Rate B<br>(5) | Rate J<br>(6) | Rate D<br>(7) | Other<br>(8) | Fire Protection |                |
|-----------------------------|-----------------------|---------------------------|-------------------|---------------|---------------|---------------|--------------|-----------------|----------------|
|                             |                       |                           |                   |               |               |               |              | Rate F<br>(9)   | Rate E<br>(10) |
| RATE BASE                   |                       |                           |                   |               |               |               |              |                 |                |
| Organization                | 17                    | \$ 129,762                | \$ 102,564        | \$ 3,620      | \$ 11,562     | \$ 298        | \$ -         | \$ 701          | \$ 10,991      |
| Franchises                  | 17                    | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Land & Ld Rights SS         | 2                     | 91,400                    | 77,087            | 2,961         | 10,886        | 256           | 0            | 18              | 201            |
| Land & Ld Rights P          | 6                     | 284,588                   | 237,233           | 9,135         | 33,496        | 797           | 0            | 484             | 3,444          |
| Land & Ld Rights WT         | 2                     | 1,371,407                 | 1,156,645         | 44,434        | 163,335       | 3,840         | 0            | 274             | 3,017          |
| Land & Ld Rights TD         | 7                     | 3,998,413                 | 3,279,898         | 124,351       | 340,265       | 9,596         | 0            | 33,187          | 211,116        |
| Land & Land Rights AG       | 15                    | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Struct & Imp SS             | 2                     | 6,089,830                 | 5,136,163         | 197,310       | 725,299       | 17,052        | 0            | 1,218           | 13,398         |
| Struct & Imp P              | 6                     | 298,289                   | 248,654           | 9,575         | 35,109        | 835           | 0            | 507             | 3,609          |
| Struct & Imp Pumps (STL)    | 6                     | 4,848,057                 | 4,041,340         | 155,623       | 570,616       | 13,575        | 0            | 8,242           | 58,661         |
| Struct & Imp Pump Boosters  | 6                     | 2,718,024                 | 2,265,745         | 87,249        | 319,911       | 7,610         | 0            | 4,621           | 32,888         |
| Struct & Imp WT             | 2                     | 1,998,514                 | 1,685,547         | 64,752        | 238,023       | 5,596         | 0            | 400             | 4,397          |
| Struct & Imp WT Nth Plt (ST | 2                     | 5,897,100                 | 4,973,614         | 191,066       | 702,345       | 16,512        | 0            | 1,179           | 12,974         |
| Struct & Imp WT Ctrl Plt 1  | 2                     | 2,679,748                 | 2,260,099         | 86,824        | 319,158       | 7,503         | 0            | 536             | 5,895          |
| Struct & Imp WT Ctrl Plt 3  | 2                     | 21,452,569                | 18,093,097        | 695,063       | 2,555,001     | 60,067        | 0            | 4,291           | 47,196         |
| Struct & Imp WT Sth Plt (ST | 2                     | 2,375,351                 | 2,003,371         | 76,961        | 282,904       | 6,651         | 0            | 475             | 5,226          |
| Struct & Imp WT Meramec (ST | 2                     | 9,171,169                 | 7,734,964         | 297,146       | 1,092,286     | 25,679        | 0            | 1,834           | 20,177         |
| Struct & Imp TD             | 7                     | 4,720,044                 | 3,871,852         | 146,793       | 401,676       | 11,328        | 0            | 39,176          | 249,218        |
| Struct & Imp TD Spec Cross  | 7                     | 267,357                   | 219,313           | 8,315         | 22,752        | 642           | 0            | 2,219           | 14,116         |
| Struct & Imp SCADA          | 15                    | 339,728                   | 286,866           | 6,047         | 19,229        | 510           | 0            | 1,121           | 25,921         |
| Struct & Imp Leasehold      | 15                    | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Struct & Imp Leasehold      | 15                    | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Struct & Imp Store,Shop,Gar | 15                    | 264,929                   | 223,706           | 4,716         | 14,995        | 397           | 0            | 874             | 20,214         |
| Struct & Imp Misc           | 15                    | 1,400,265                 | 1,182,384         | 24,925        | 79,255        | 2,100         | 0            | 4,621           | 106,840        |
| Collect & Impounding        | 1                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Lake, River & Other Intakes | 2                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Wells & Springs             | 2                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Supply Mains                | 2                     | 8,522                     | 7,187             | 276           | 1,015         | 24            | 0            | 2               | 19             |
| Supply Mains Nth Plt (STL)  | 2                     | 245,687                   | 207,212           | 7,960         | 29,261        | 688           | 0            | 49              | 541            |
| Supply Mains Ctrl Plt (STL) | 2                     | 3,929,522                 | 3,314,159         | 127,317       | 468,006       | 11,003        | 0            | 786             | 8,645          |
| Supply Mains Sth Plt (STL)  | 2                     | 337,448                   | 284,604           | 10,933        | 40,190        | 945           | 0            | 67              | 742            |
| Supply Mains Meramec Plt (S | 2                     | 1,313,864                 | 1,108,113         | 42,569        | 156,481       | 3,679         | 0            | 263             | 2,891          |
| Power Generation Equip Othe | 6                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Boiler Plant Equipment P    | 6                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Pump Equip Steam            | 6                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Pump Equip Electric         | 6                     | 766,492                   | 638,948           | 24,604        | 90,216        | 2,146         | 0            | 1,303           | 9,275          |
| Pump Equip Elec Pre46 (STL) | 6                     | 874,158                   | 728,698           | 28,060        | 102,888       | 2,448         | 0            | 1,486           | 10,577         |
| Pump Equip Elec Post46 (STL | 6                     | 25,323,220                | 21,109,436        | 812,875       | 2,980,543     | 70,905        | 0            | 43,049          | 306,411        |
| Pump Equip Elec Boosters Po | 6                     | 1,493,074                 | 1,244,626         | 47,928        | 175,735       | 4,181         | 0            | 2,538           | 18,066         |
| Pump Equip Diesel           | 6                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Pump Equip Diesel Stratman\ | 6                     | 207,946                   | 173,344           | 6,675         | 24,475        | 582           | 0            | 354             | 2,516          |
| Pump Equip Diesel Ctrl Plt  | 6                     | 1,698,803                 | 1,416,122         | 54,532        | 199,949       | 4,757         | 0            | 2,888           | 20,566         |
| Pump Equip Hydraulic        | 6                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |
| Pump Equip Other            | 6                     | 34,884                    | 29,079            | 1,120         | 4,106         | 98            | 0            | 59              | 422            |
| WT Equip Non-Media          | 2                     | 1,963,039                 | 1,655,627         | 63,602        | 233,798       | 5,497         | 0            | 393             | 4,319          |
| WT Equip Non-Med North (STL | 2                     | 7,179,235                 | 6,054,967         | 232,607       | 855,047       | 20,102        | 0            | 1,436           | 15,794         |
| WT Equip Non Media Ctrl 1 & | 2                     | 2,256,219                 | 1,902,895         | 73,101        | 268,716       | 6,317         | 0            | 451             | 4,964          |
| WT Equip Non Media Ctrl 3 ( | 2                     | 21,805,467                | 18,390,731        | 706,497       | 2,597,031     | 61,055        | 0            | 4,361           | 47,972         |
| WT Equip Non Media Sth (STL | 2                     | 2,628,630                 | 2,216,987         | 85,168        | 313,070       | 7,360         | 0            | 526             | 5,783          |
| WT Equip Non Media Mer (STL | 2                     | 7,355,932                 | 6,203,993         | 238,332       | 876,092       | 20,597        | 0            | 1,471           | 16,183         |
| WT Equip Filter Media       | 2                     | 671,023                   | 565,941           | 21,741        | 79,919        | 1,879         | 0            | 134             | 1,476          |
| Dist Reservoirs & Standpipe | 5                     | 0                         | 0                 | 0             | 0             | 0             | 0            | 0               | 0              |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO CUSTOMER CLASSIFICATIONS  
**PSC STAFF STUDY**

| Account<br>(1)                        | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Rate A & K<br>(4)  | Rate B<br>(5)     | Rate J<br>(6)     | Rate D<br>(7)    | Other<br>(8) | Fire Protection  |                   |
|---------------------------------------|-----------------------|---------------------------|--------------------|-------------------|-------------------|------------------|--------------|------------------|-------------------|
|                                       |                       |                           |                    |                   |                   |                  |              | Rate F<br>(9)    | Rate E<br>(10)    |
| Elevated Tanks & Standpipes           | 5                     | 2,440,150                 | 1,890,828          | 71,740            | 196,188           | 5,612            | 0            | 37,334           | 238,403           |
| Ground Level Facilities               | 5                     | 9,524,859                 | 7,379,861          | 280,031           | 765,799           | 21,907           | 0            | 145,730          | 930,579           |
| TD Mains Not Classified by            | 7                     | 791,705                   | 649,436            | 24,622            | 67,374            | 1,900            | 0            | 6,571            | 41,802            |
| T & D Mains AC 4 (STL)                | 4                     | 2,827,541                 | 2,319,432          | 87,937            | 240,624           | 6,786            | 0            | 23,469           | 149,294           |
| T & D Mains Galv 1 (STL)              | 4                     | 50,188                    | 41,169             | 1,561             | 4,271             | 120              | 0            | 417              | 2,650             |
| TD Mains 10 to 16"                    | 3                     | 0                         | 0                  | 0                 | 0                 | 0                | 0            | 0                | 0                 |
| CI-10" & Smaller-1900-1928            | 3                     | 2,800,809                 | 2,269,776          | 87,105            | 320,693           | 7,562            | 0            | 15,404           | 99,989            |
| CI-10" & Smaller 1929-1956            | 4                     | 17,273,037                | 14,169,072         | 537,191           | 1,469,935         | 41,455           | 0            | 143,366          | 912,016           |
| CI-10" & Smaller-1957-1993            | 4                     | 53,099,538                | 43,557,551         | 1,651,396         | 4,518,771         | 127,439          | 0            | 440,728          | 2,803,656         |
| T & D Mains - DI 6-8 (STL)            | 4                     | 242,693,826               | 199,081,745        | 7,547,778         | 20,653,245        | 582,465          | 0            | 2,014,359        | 12,814,234        |
| TD Mains CI <10 1957-93 (S"           | 4                     | 0                         | 0                  | 0                 | 0                 | 0                | 0            | 0                | 0                 |
| T & D Mains - PL 6-8" (STL)           | 3                     | 666,787                   | 540,364            | 20,737            | 76,347            | 1,800            | 0            | 3,667            | 23,804            |
| CI-12" (STL)                          | 3                     | 13,026,543                | 10,556,710         | 405,125           | 1,491,539         | 35,172           | 0            | 71,646           | 465,048           |
| CI-16" (STL)                          | 4                     | 19,124,088                | 15,687,473         | 594,759           | 1,627,458         | 45,898           | 0            | 158,730          | 1,009,751         |
| TD Mains DI 12 (STL)                  | 3                     | 59,333,118                | 48,083,559         | 1,845,260         | 6,793,642         | 160,199          | 0            | 326,332          | 2,118,192         |
| TD Mains DI 18 & >(STL)               | 3                     | 106,941,041               | 86,585,020         | 3,325,866         | 12,244,749        | 288,741          | 0            | 588,176          | 3,817,795         |
| T & D Mains - PL 12 (STL)             | 4                     | 274,277                   | 224,989            | 8,530             | 23,341            | 658              | 0            | 2,276            | 14,482            |
| TD Mains LJ 20 (STL)                  | 3                     | 4,499,594                 | 3,646,471          | 139,937           | 515,204           | 12,149           | 0            | 24,748           | 160,636           |
| Fire Mains                            | 8                     | 0                         | 0                  | 0                 | 0                 | 0                | 0            | 0                | 0                 |
| Services                              | 10                    | 82,039                    | 81,891             | 0                 | 16                | 0                | 0            | 139              | 0                 |
| Meters Bronze Case                    | 9                     | 0                         | 0                  | 0                 | 0                 | 0                | 0            | 0                | 0                 |
| Meters Plastic Case                   | 9                     | 0                         | 0                  | 0                 | 0                 | 0                | 0            | 0                | 0                 |
| Meters Other                          | 9                     | 18,949,447                | 18,949,447         | 0                 | 0                 | 0                | 0            | 0                | 0                 |
| Meters Other-Rem Rdr Units            | 9                     | 4,192,376                 | 4,192,376          | 0                 | 0                 | 0                | 0            | 0                | 0                 |
| Meter Installations                   | 9                     | 2,775,882                 | 2,775,882          | 0                 | 0                 | 0                | 0            | 0                | 0                 |
| Meter Installation Other              | 9                     | 9,622,440                 | 9,622,440          | 0                 | 0                 | 0                | 0            | 0                | 0                 |
| Hydrants                              | 8                     | 37,743,443                | 0                  | 0                 | 0                 | 0                | 0            | 0                | 37,743,443        |
| Other P/E Intangible                  | 15                    | 208,627                   | 176,164            | 3,714             | 11,808            | 313              | 0            | 688              | 15,918            |
| Other P/E WT Res Hand Equip           | 2                     | 0                         | 0                  | 0                 | 0                 | 0                | 0            | 0                | 0                 |
| Other P/E TD                          | 7                     | 0                         | 0                  | 0                 | 0                 | 0                | 0            | 0                | 0                 |
| Other P/E CPS                         | 15                    | 0                         | 0                  | 0                 | 0                 | 0                | 0            | 0                | 0                 |
| Office Furniture & Equip              | 15                    | 1,809,745                 | 1,528,149          | 32,213            | 102,432           | 2,715            | 0            | 5,972            | 138,084           |
| Comp & Periph Equip                   | 15                    | 4,345,087                 | 3,668,991          | 77,343            | 245,932           | 6,518            | 0            | 14,339           | 331,530           |
| Computer Software                     | 15                    | 6,954,567                 | 5,872,436          | 123,791           | 393,628           | 10,432           | 0            | 22,950           | 530,633           |
| Comp Software Personal                | 15                    | 86,627                    | 73,148             | 1,542             | 4,903             | 130              | 0            | 286              | 6,610             |
| Data Handling Equipment               | 15                    | 0                         | 0                  | 0                 | 0                 | 0                | 0            | 0                | 0                 |
| Other Office Equipment                | 15                    | 179,421                   | 151,503            | 3,194             | 10,155            | 269              | 0            | 592              | 13,690            |
| Trans Equip Lt Duty Trks              | 15                    | 29,784                    | 25,149             | 530               | 1,686             | 45               | 0            | 98               | 2,272             |
| Trans Equip Hvy Duty Trks             | 15                    | 4,154,323                 | 3,507,910          | 73,947            | 235,135           | 6,231            | 0            | 13,709           | 316,975           |
| Trans Equip Autos                     | 15                    | 392,227                   | 331,196            | 6,982             | 22,200            | 588              | 0            | 1,294            | 29,927            |
| Trans Equip Other                     | 15                    | 0                         | 0                  | 0                 | 0                 | 0                | 0            | 0                | 0                 |
| Stores Equipment                      | 15                    | 118,221                   | 99,826             | 2,104             | 6,691             | 177              | 0            | 390              | 9,020             |
| Tools,Shop, Garage Equip              | 15                    | 962,255                   | 812,528            | 17,128            | 54,464            | 1,443            | 0            | 3,175            | 73,420            |
| Tools,Shop, Garage Equip Oth          | 15                    | 3,934,335                 | 3,322,152          | 70,031            | 222,683           | 5,902            | 0            | 12,983           | 300,190           |
| Laboratory Equipment                  | 2                     | 1,101,097                 | 928,665            | 35,676            | 131,141           | 3,083            | 0            | 220              | 2,422             |
| Laboratory Equip Other                | 2                     | 285,859                   | 241,093            | 9,262             | 34,046            | 800              | 0            | 57               | 629               |
| Power Operated Equipment              | 15                    | 637,295                   | 538,132            | 11,344            | 36,071            | 956              | 0            | 2,103            | 48,626            |
| Comm Equip Non-Telephone              | 15                    | 1,056,436                 | 892,055            | 18,805            | 59,794            | 1,585            | 0            | 3,486            | 80,606            |
| Comm Equip Telephone                  | 15                    | 83,380                    | 70,408             | 1,484             | 4,719             | 125              | 0            | 275              | 6,362             |
| Misc Equipment                        | 15                    | 577,956                   | 488,026            | 10,288            | 32,712            | 867              | 0            | 1,907            | 44,098            |
| Other Tangible Property               | 17                    | 40,603                    | 32,093             | 1,133             | 3,618             | 93               | 0            | 219              | 3,439             |
| <b>Total Utility Plant In Service</b> |                       | <b>786,180,262</b>        | <b>621,477,727</b> | <b>21,952,850</b> | <b>70,057,653</b> | <b>1,797,243</b> | <b>0</b>     | <b>4,255,432</b> | <b>66,626,874</b> |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO CUSTOMER CLASSIFICATIONS  
**PSC STAFF STUDY**

| Account<br>(1)                              | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Rate A & K<br>(4)     | Rate B<br>(5)        | Rate J<br>(6)        | Rate D<br>(7)       | Other<br>(8) | Fire Protection     |                      |
|---------------------------------------------|-----------------------|---------------------------|-----------------------|----------------------|----------------------|---------------------|--------------|---------------------|----------------------|
|                                             |                       |                           |                       |                      |                      |                     |              | Rate F<br>(9)       | Rate E<br>(10)       |
| <b>Other Rate Base Items</b>                |                       |                           |                       |                      |                      |                     |              |                     |                      |
| Add:                                        |                       |                           |                       |                      |                      |                     |              |                     |                      |
| Other Utility Plant Adjustments             | 17                    | 0                         | 0                     | 0                    | 0                    | 0                   | 0            | 0                   | 0                    |
| Cash Working Capital                        | 15                    | 3,553,058                 | 3,000,202             | 63,244               | 201,103              | 5,330               | 0            | 11,725              | 271,098              |
| Materials and Supplies                      | 15                    | 2,424,347                 | 2,047,118             | 43,153               | 137,218              | 3,637               | 0            | 8,000               | 184,978              |
| Prepayments                                 | 15                    | 503,676                   | 425,304               | 8,965                | 28,508               | 756                 | 0            | 1,662               | 38,430               |
| OPEB's Contributed to External Func         | 16                    | 0                         | 0                     | 0                    | 0                    | 0                   | 0            | 0                   | 0                    |
| Premature Retirement                        | 17                    | 0                         | 0                     | 0                    | 0                    | 0                   | 0            | 0                   | 0                    |
| Regulatory Deferrals                        | 17                    | 0                         | 0                     | 0                    | 0                    | 0                   | 0            | 0                   | 0                    |
| Less: Accumulated Amortization              | 17                    | 0                         | 0                     | 0                    | 0                    | 0                   | 0            | 0                   | 0                    |
| Accumulated Deferred ITC (3%)               | 17                    | 0                         | 0                     | 0                    | 0                    | 0                   | 0            | 0                   | 0                    |
| Deferred Income Taxes                       | 17                    | (43,023,833)              | (34,006,038)          | (1,200,365)          | (3,833,424)          | (98,955)            | 0            | (232,329)           | (3,844,119)          |
| Pensions                                    | 16                    | (7,557,131)               | (6,258,061)           | (122,426)            | (389,948)            | (9,824)             | 0            | (22,671)            | (753,446)            |
| <b>Total Other Rate Base Elements</b>       |                       | <b>(44,099,884)</b>       | <b>(34,791,474)</b>   | <b>(1,207,427)</b>   | <b>(3,856,542)</b>   | <b>(99,057)</b>     | <b>0</b>     | <b>(233,613)</b>    | <b>(3,903,058)</b>   |
| <b>Total Original Cost Measure of Value</b> |                       | <b>\$ 742,080,378</b>     | <b>\$ 586,686,253</b> | <b>\$ 20,745,423</b> | <b>\$ 66,201,111</b> | <b>\$ 1,898,185</b> | <b>\$ -</b>  | <b>\$ 4,021,820</b> | <b>\$ 62,723,816</b> |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO CUSTOMER CLASSIFICATIONS  
**PSC STAFF STUDY**

| Account                       | Factor Ref. | Cost of Service | Rate A & K  | Rate B      | Rate J      | Rate D    | Other  | Fire Protection |            |
|-------------------------------|-------------|-----------------|-------------|-------------|-------------|-----------|--------|-----------------|------------|
| (1)                           | (2)         | (3)             | (4)         | (5)         | (6)         | (7)       | (8)    | Rate F          | Rate E     |
|                               |             |                 |             |             |             |           |        | (9)             | (10)       |
| T&D OP BASIS FOR FACTOR 11    |             | 3,028,409       | 2,639,697   | 66,720      | 182,651     | 5,149     | 0      | 18,579          | 113,656    |
| FACTOR 11                     |             |                 | 0.8721      | 0.0220      | 0.0604      | 0.0017    | 0.0000 | 0.0061          | 0.0376     |
| T&D Mnt BASIS FOR FACTOR 12   |             | 1,754,810       | 1,282,903   | 25,122      | 68,806      | 1,939     | 0      | 7,373           | 368,697    |
| FACTOR 12                     |             |                 | 0.7311      | 0.0143      | 0.0392      | 0.0011    | 0.0000 | 0.0042          | 0.2101     |
| A&G BASIS FOR FACTOR 15       |             | 19,819,592      | 16,738,592  | 353,033     | 1,121,917   | 28,756    | 0      | 65,999          | 1,511,531  |
| FACTOR 15                     |             |                 | 0.8444      | 0.0178      | 0.0566      | 0.0015    | 0.0000 | 0.0033          | 0.0763     |
| LABOR BASIS FOR FACTOR 16     |             | 13,660,977      | 11,312,395  | 221,814     | 704,536     | 18,210    | 0      | 41,147          | 1,362,673  |
| FACTOR 16                     |             |                 | 0.8281      | 0.0162      | 0.0516      | 0.0013    | 0.0000 | 0.0030          | 0.0997     |
| UPIS BASIS FOR FACTOR 17      |             | 786,009,897     | 621,343,071 | 21,948,097  | 70,042,474  | 1,796,851 | 0      | 4,254,512       | 66,612,444 |
| FACTOR 17                     |             |                 | 0.7904      | 0.0279      | 0.0891      | 0.0023    | 0.0000 | 0.0054          | 0.0847     |
| RATE BASE BASIS FOR FACTOR 18 |             | 742,080,378     | 586,686,253 | 20,745,423  | 66,201,111  | 1,698,185 | 0      | 4,021,820       | 62,723,816 |
| FACTOR 18                     |             |                 | 0.7907      | 0.0280      | 0.0892      | 0.0023    | 0.0000 | 0.0054          | 0.0845     |
| TOTAL COS BASIS FOR FACTOR 19 |             | 116,907,162     | 96,006,003  | 2,677,257   | 9,104,362   | 227,453   | 0      | 443,563         | 8,447,940  |
| FACTOR 19                     |             |                 | 0.8211      | 0.0229      | 0.0779      | 0.0019    | 0.0000 | 0.0038          | 0.0723     |
| COS w/o Fire Factor 20        |             | 108,857,196     | 96,757,353  | 2,697,592 # | 9,173,108 # | 229,142 # | 0      |                 |            |
| FACTOR 20                     |             |                 | 0.8888      | 0.0248      | 0.0843      | 0.0021    | 0.0000 |                 |            |

Table of Factors - Table Name "FACTORS"

|    | 2<br>Rate A | 4<br>Rate B | 6<br>Rate J | 8<br>Public | 10<br>Resale | 12<br>Private Fire | 14<br>Public Fire |
|----|-------------|-------------|-------------|-------------|--------------|--------------------|-------------------|
| 1  | 0.8031      | 0.0339      | 0.1553      | 0.0034      | -            | 0.0004             | 0.0038            |
| 2  | 0.8434      | 0.0324      | 0.1191      | 0.0028      | -            | 0.0002             | 0.0022            |
| 3  | 0.8104      | 0.0311      | 0.1145      | 0.0027      | -            | 0.0055             | 0.0357            |
| 4  | 0.8203      | 0.0311      | 0.0851      | 0.0024      | -            | 0.0083             | 0.0528            |
| 5  | 0.7748      | 0.0294      | 0.0804      | 0.0023      | -            | 0.0153             | 0.0977            |
| 6  | 0.8336      | 0.0321      | 0.1177      | 0.0028      | -            | 0.0017             | 0.0121            |
| 7  | 0.8203      | 0.0311      | 0.0851      | 0.0024      | -            | 0.0083             | 0.0528            |
| 8  | -           | -           | -           | -           | -            | -                  | 1.0000            |
| 9  | 1.0000      | -           | -           | -           | -            | -                  | -                 |
| 10 | 0.9982      | -           | 0.0002      | -           | -            | 0.0017             | -                 |
| 11 | 0.8721      | 0.0220      | 0.0604      | 0.0017      | -            | 0.0061             | 0.0376            |
| 12 | 0.7311      | 0.0143      | 0.0392      | 0.0011      | -            | 0.0042             | 0.2101            |
| 13 | 0.9962      | -           | 0.0013      | -           | -            | 0.0025             | -                 |
| 14 | 0.9987      | -           | 0.0013      | -           | -            | -                  | -                 |
| 15 | 0.8444      | 0.0178      | 0.0566      | 0.0015      | -            | 0.0033             | 0.0763            |
| 16 | 0.8281      | 0.0162      | 0.0516      | 0.0013      | -            | 0.0030             | 0.0997            |
| 17 | 0.7904      | 0.0279      | 0.0891      | 0.0023      | -            | 0.0054             | 0.0847            |
| 18 | 0.7907      | 0.0280      | 0.0892      | 0.0023      | -            | 0.0054             | 0.0845            |
| 19 | 0.8211      | 0.0229      | 0.0779      | 0.0019      | -            | 0.0038             | 0.0723            |
| 20 | 0.8888      | 0.0248      | 0.0843      | 0.0021      | -            | -                  | -                 |

MISSOURI-AMERICAN WATER COMPANY

COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO COST FUNCTIONS

| Account<br>(1)                            | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Base<br>(4)      | Max Day<br>(5) | Max Hour<br>(6) | Meters<br>(7) | Services<br>(8) | Billing &<br>Collecting<br>(9) | Fire<br>Service<br>(10) |
|-------------------------------------------|-----------------------|---------------------------|------------------|----------------|-----------------|---------------|-----------------|--------------------------------|-------------------------|
| <b>OPERATION AND MAINTENANCE EXPENSES</b> |                       |                           |                  |                |                 |               |                 |                                |                         |
| <b>SOURCE OF SUPPLY EXPENSES</b>          |                       |                           |                  |                |                 |               |                 |                                |                         |
| Super & Eng Oper SS                       | 2                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Labor & Exp Oper SS                       | 2                     | 175,630                   | 101,093          | 74,116         | 0               | 0             | 0               | 0                              | 422                     |
| Labor & Exp Oper SS                       | 2                     | 112,165                   | 64,562           | 47,334         | 0               | 0             | 0               | 0                              | 269                     |
| Purchased Water                           | 1                     | 215,057                   | 214,154          | 0              | 0               | 0             | 0               | 0                              | 903                     |
| <b>TOTAL SS EXPENSE - OPERATION</b>       |                       | <b>502,852</b>            | <b>379,809</b>   | <b>121,449</b> | <b>0</b>        | <b>0</b>      | <b>0</b>        | <b>0</b>                       | <b>1,594</b>            |
| Misc Exp Oper SS                          | 2                     | 302,571                   | 174,160          | 127,685        | 0               | 0             | 0               | 0                              | 726                     |
| Misc Exp Oper SS                          | 2                     | 131                       | 75               | 55             | 0               | 0             | 0               | 0                              | 0                       |
| Rents Oper SS                             | 2                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Super & Eng Maint SS                      | 2                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Struct & Improve Maint SS                 | 2                     | 5,232                     | 3,011            | 2,208          | 0               | 0             | 0               | 0                              | 13                      |
| Struct & Improve Maint SS                 | 2                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Collect & Impound Maint SS                | 2                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Lake, River & Oth Maint SS                | 2                     | 63,641                    | 36,632           | 26,856         | 0               | 0             | 0               | 0                              | 153                     |
| Lake, River & Oth Maint SS                | 2                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Wells & Springs Maint SS                  | 2                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Wells & Springs Maint SS                  | 2                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Infil Gall & Tunnels Maint SS             | 2                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Supply Mains Maint SS                     | 2                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Misc Plant Maint SS                       | 2                     | 93,152                    | 53,618           | 39,310         | 0               | 0             | 0               | 0                              | 224                     |
| Misc Plant Maint SS                       | 2                     | 116,095                   | 66,824           | 48,992         | 0               | 0             | 0               | 0                              | 279                     |
| <b>TOTAL SS EXPENSE - MAINTENANCE</b>     |                       | <b>580,821</b>            | <b>334,321</b>   | <b>245,107</b> | <b>0</b>        | <b>0</b>      | <b>0</b>        | <b>0</b>                       | <b>1,394</b>            |
| <b>TOTAL SS EXPENSE</b>                   |                       | <b>1,083,673</b>          | <b>714,129</b>   | <b>366,556</b> | <b>0</b>        | <b>0</b>      | <b>0</b>        | <b>0</b>                       | <b>2,988</b>            |
| <b>POWER AND PUMPING EXPENSES</b>         |                       |                           |                  |                |                 |               |                 |                                |                         |
| Super & Eng Oper P                        | 6                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Fuel for Power Prod                       | 1                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Labor & Exp Oper Pwr Prod                 | 6                     | 9,977                     | 5,676            | 4,161          | 0               | 0             | 0               | 0                              | 138                     |
| Labor & Exp Oper Pwr Prod                 | 6                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Purch Fuel/Power for Pump                 | 1                     | 5,935,851                 | 5,910,920        | 0              | 0               | 0             | 0               | 0                              | 24,931                  |
| Labor & Exp Oper Pump                     | 6                     | 829,999                   | 472,186          | 346,193        | 0               | 0             | 0               | 0                              | 11,454                  |
| Labor & Exp Oper Pump                     | 6                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Expenses Transferred                      | 6                     | 0                         | 0                | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Misc Exp Oper P                           | 6                     | 100,592                   | 57,227           | 41,957         | 0               | 0             | 0               | 0                              | 1,388                   |
| Rents Oper P                              | 6                     | 2                         | 1                | 1              | 0               | 0             | 0               | 0                              | 0                       |
| <b>TOTAL PUMPING EXPENSE - OPERATION</b>  |                       | <b>6,876,421</b>          | <b>6,446,010</b> | <b>392,312</b> | <b>0</b>        | <b>0</b>      | <b>0</b>        | <b>0</b>                       | <b>37,910</b>           |

MISSOURI-AMERICAN WATER COMPANY

COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO COST FUNCTIONS

| Account<br>(1)                                | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Base<br>(4) | Max Day<br>(5) | Max Hour<br>(6) | Meters<br>(7) | Services<br>(8) | Billing &<br>Collecting<br>(9) | Fire<br>Service<br>(10) |
|-----------------------------------------------|-----------------------|---------------------------|-------------|----------------|-----------------|---------------|-----------------|--------------------------------|-------------------------|
| Super & Eng Maint P                           | 6                     | 19,663                    | 11,186      | 8,202          | 0               | 0             | 0               | 0                              | 271                     |
| Struct & Improve Maint P                      | 6                     | 335,865                   | 191,073     | 140,089        | 0               | 0             | 0               | 0                              | 4,635                   |
| Power Prod Equip Maint P                      | 6                     | 200,441                   | 114,031     | 83,604         | 0               | 0             | 0               | 0                              | 2,766                   |
| Pump Equip Maint P                            | 6                     | 38,467                    | 21,884      | 16,045         | 0               | 0             | 0               | 0                              | 531                     |
| Pump Equip Maint P                            | 6                     | 78,064                    | 44,411      | 32,560         | 0               | 0             | 0               | 0                              | 1,077                   |
| TOTAL PUMPING EXPENSES - MAINTENANCE          |                       | 672,500                   | 382,585     | 280,500        | 0               | 0             | 0               | 0                              | 9,280                   |
| <b>TOTAL PUMPING EXPENSES</b>                 |                       | 7,548,920                 | 6,828,595   | 672,811        | 0               | 0             | 0               | 0                              | 47,191                  |
| <b>WATER TREATMENT</b>                        |                       |                           |             |                |                 |               |                 |                                |                         |
| Super & Eng Oper WT                           | 2                     | 66,817                    | 38,460      | 28,197         | 0               | 0             | 0               | 0                              | 160                     |
| Chemicals                                     | 1                     | 5,167,103                 | 5,145,401   | 0              | 0               | 0             | 0               | 0                              | 21,702                  |
| Labor & Exp Oper WT                           | 2                     | 129,368                   | 74,464      | 54,593         | 0               | 0             | 0               | 0                              | 310                     |
| Labor & Exp Oper WT                           | 2                     | 1,414,174                 | 813,999     | 596,782        | 0               | 0             | 0               | 0                              | 3,394                   |
| Misc Exp Oper WT                              | 2                     | (126,417)                 | (72,766)    | (53,348)       | 0               | 0             | 0               | 0                              | (303)                   |
| Misc Exp Oper WT                              | 1                     | 341,709                   | 340,274     | 0              | 0               | 0             | 0               | 0                              | 1,435                   |
| Misc Exp Oper WT                              | 2                     | 44,999                    | 25,901      | 18,989         | 0               | 0             | 0               | 0                              | 108                     |
| Rents Oper WT                                 | 2                     | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| TOTAL WT EXPENSE - OPERATION                  |                       | 7,037,753                 | 6,365,734   | 645,213        | 0               | 0             | 0               | 0                              | 26,806                  |
| Super & Eng Maint WT                          | 2                     | 40,613                    | 23,377      | 17,139         | 0               | 0             | 0               | 0                              | 97                      |
| Struct & Improve Maint WT                     | 2                     | 44,837                    | 25,808      | 18,921         | 0               | 0             | 0               | 0                              | 108                     |
| Struct & Improve Maint WT                     | 2                     | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| WT Equip Maint WT                             | 2                     | 434,281                   | 249,972     | 183,267        | 0               | 0             | 0               | 0                              | 1,042                   |
| WT Equip Maint WT                             | 2                     | 427,572                   | 246,110     | 180,435        | 0               | 0             | 0               | 0                              | 1,026                   |
| TOTAL WT EXPENSE - MAINTENANCE                |                       | 947,303                   | 545,268     | 399,762        | 0               | 0             | 0               | 0                              | 2,274                   |
| <b>TOTAL WT EXPENSE</b>                       |                       | 7,985,056                 | 6,911,002   | 1,044,975      | 0               | 0             | 0               | 0                              | 29,080                  |
| <b>TRANSMISSION AND DISTRIBUTION EXPENSES</b> |                       |                           |             |                |                 |               |                 |                                |                         |
| Super & Eng Oper TD                           | 11                    | 895,703                   | 190,605     | 0              | 405,574         | 136,505       | 123,876         | 0                              | 39,142                  |
| Storage Facility Exp                          | 5                     | 8,006                     | 2,270       | 0              | 4,831           | 0             | 0               | 0                              | 905                     |
| Storage Facility Exp                          | 5                     | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| TD Lines Exp                                  | 7                     | 572,920                   | 171,990     | 0              | 365,981         | 0             | 0               | 0                              | 35,005                  |
| TD Lines Exp                                  | 7                     | 1,564,836                 | 469,764     | 0              | 999,617         | 0             | 0               | 0                              | 95,611                  |
| Meter Expense                                 | 9                     | 461,259                   | 0           | 0              | 0               | 461,259       | 0               | 0                              | 0                       |
| Meter Expense                                 | 9                     | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Customer Install Exp                          | 10                    | 419,054                   | 0           | 0              | 0               | 0             | 418,342         | 0                              | 712                     |
| Customer Install Exp                          | 10                    | 335                       | 0           | 0              | 0               | 0             | 334             | 0                              | 1                       |
| Misc Exp Oper TD                              | 11                    | 329,694                   | 70,159      | 0              | 149,286         | 50,245        | 45,597          | 0                              | 14,408                  |
| Misc Exp Oper TD                              | 11                    | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Misc Exp Oper TD                              | 11                    | 462,754                   | 98,474      | 0              | 209,535         | 70,524        | 63,999          | 0                              | 20,222                  |
| Rents Oper TD                                 | 11                    | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| TOTAL T & D EXPENSE OPERATION                 |                       | 4,714,561                 | 1,003,263   | 0              | 2,134,824       | 718,533       | 652,148         | 0                              | 206,007                 |

MISSOURI-AMERICAN WATER COMPANY

COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO COST FUNCTIONS

| Account                                      | Factor | Cost of           | Base             | Max Day  | Max Hour         | Meters           | Services         | Billing &        | Fire             |
|----------------------------------------------|--------|-------------------|------------------|----------|------------------|------------------|------------------|------------------|------------------|
| (1)                                          | Ref.   | Service           | (4)              | (5)      | (6)              | (7)              | (8)              | Collecting       | Service          |
|                                              | (2)    | (3)               |                  |          |                  |                  |                  | (9)              | (10)             |
| Super & Eng Maint TD                         | 12     | 91,819            | 12,689           | 0        | 26,995           | 15,784           | 16,674           | 0                | 19,677           |
| Struct & Improve Maint TD                    | 12     | 5,913             | 817              | 0        | 1,738            | 1,016            | 1,074            | 0                | 1,267            |
| Struct & Improve Maint TD                    | 12     | 0                 | 0                | 0        | 0                | 0                | 0                | 0                | 0                |
| Dist Res Stand Maint TD                      | 5      | 16,806            | 4,766            | 0        | 10,141           | 0                | 0                | 0                | 1,899            |
| TD Main Maint TD                             | 7      | 0                 | 0                | 0        | 0                | 0                | 0                | 0                | 0                |
| TD Main Maint TD                             | 7      | 791,904           | 237,730          | 0        | 505,868          | 0                | 0                | 0                | 48,385           |
| Fire Main Maint TD                           | 8      | 249               | 0                | 0        | 0                | 0                | 0                | 0                | 249              |
| Services Maint TD                            | 10     | 319,244           | 0                | 0        | 0                | 0                | 318,702          | 0                | 543              |
| Services Maint TD                            | 10     | 0                 | 0                | 0        | 0                | 0                | 0                | 0                | 0                |
| Meters Maint TD                              | 9      | 301,614           | 0                | 0        | 0                | 301,614          | 0                | 0                | 0                |
| Meters Maint TD                              | 9      | 0                 | 0                | 0        | 0                | 0                | 0                | 0                | 0                |
| Hydrants Maint TD                            | 8      | 324,993           | 0                | 0        | 0                | 0                | 0                | 0                | 324,993          |
| Hydrants Maint TD                            | 8      | 0                 | 0                | 0        | 0                | 0                | 0                | 0                | 0                |
| Misc Plant Maint TD                          | 12     | 3,443,551         | 475,899          | 0        | 1,012,404        | 591,946          | 625,349          | 0                | 737,953          |
| Mat and Sup Maint TD                         | 12     | 0                 | 0                | 0        | 0                | 0                | 0                | 0                | 0                |
| Misc Maint TD                                | 12     | 927,196           | 128,139          | 0        | 272,596          | 159,385          | 168,379          | 0                | 198,698          |
| Amort Def Maint TD                           | 5      | 0                 | 0                | 0        | 0                | 0                | 0                | 0                | 0                |
| Permits TD                                   | 12     | 0                 | 0                | 0        | 0                | 0                | 0                | 0                | 0                |
| <b>TOTAL T &amp; D EXPENSE - MAINTENANCE</b> |        | <b>6,223,289</b>  | <b>860,040</b>   | <b>0</b> | <b>1,829,742</b> | <b>1,069,745</b> | <b>1,130,177</b> | <b>0</b>         | <b>1,333,664</b> |
| <b>TOTAL T &amp; D EXPENSE</b>               |        | <b>10,937,850</b> | <b>1,863,303</b> | <b>0</b> | <b>3,964,566</b> | <b>1,788,278</b> | <b>1,782,325</b> | <b>0</b>         | <b>1,539,671</b> |
| <b>CUSTOMER ACCOUNTS</b>                     |        |                   |                  |          |                  |                  |                  |                  |                  |
| Supervision CA                               | 13     | 0                 | 0                | 0        | 0                | 0                | 0                | 0                | 0                |
| Meter Reading Exp CA                         | 14     | 895,945           | 0                | 0        | 0                | 0                | 0                | 895,945          | 0                |
| Meter Reading Exp CA                         | 14     | (511)             | 0                | 0        | 0                | 0                | 0                | (511)            | 0                |
| Meter Reading Exp CA                         | 14     | 0                 | 0                | 0        | 0                | 0                | 0                | 0                | 0                |
| Cust Rec & Collection CA                     | 13     | 413,280           | 0                | 0        | 0                | 0                | 0                | 412,247          | 1,033            |
| Cust Rec & Collection CA                     | 13     | 1,266,430         | 0                | 0        | 0                | 0                | 0                | 1,263,264        | 3,166            |
| Uncollectible Accts                          | 13     | 1,134,544         | 0                | 0        | 0                | 0                | 0                | 1,131,708        | 2,836            |
| Misc Cust Accts Exp CA                       | 13     | 117,459           | 0                | 0        | 0                | 0                | 0                | 117,165          | 294              |
| Misc Cust Accts Exp CA                       | 13     | 0                 | 0                | 0        | 0                | 0                | 0                | 0                | 0                |
| Misc Cust Accts Exp CA                       | 13     | 96,740            | 0                | 0        | 0                | 0                | 0                | 96,498           | 242              |
| Cust Serv & Info Exp CA                      | 13     | (75)              | 0                | 0        | 0                | 0                | 0                | (75)             | (0)              |
| <b>TOTAL CUSTOMER ACCOUNTING EXPENSE</b>     |        | <b>3,923,812</b>  | <b>0</b>         | <b>0</b> | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>3,916,241</b> | <b>7,571</b>     |

MISSOURI-AMERICAN WATER COMPANY

COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO COST FUNCTIONS

| Account                                           | Factor Ref. | Cost of Service   | Base              | Max Day          | Max Hour         | Meters           | Services         | Billing & Collecting | Fire Service     |
|---------------------------------------------------|-------------|-------------------|-------------------|------------------|------------------|------------------|------------------|----------------------|------------------|
| (1)                                               | (2)         | (3)               | (4)               | (5)              | (6)              | (7)              | (8)              | (9)                  | (10)             |
| <b>ADMINISTRATIVE AND GENERAL EXPENSES</b>        |             |                   |                   |                  |                  |                  |                  |                      |                  |
| Salaries AG                                       | 15          | 2,555,463         | 608,922           | 268,835          | 510,837          | 230,503          | 229,736          | 504,959              | 203,415          |
| Other Supplies & Exp AG                           | 15          | 42,833            | 10,173            | 4,506            | 8,562            | 3,864            | 3,851            | 8,464                | 3,410            |
| Other Supplies & Exp AG                           | 15          | 39,790            | 9,450             | 4,186            | 7,954            | 3,589            | 3,577            | 7,863                | 3,167            |
| Other Supplies & Exp AG                           | 15          | 1,243,089         | 295,234           | 130,773          | 248,494          | 112,127          | 111,754          | 245,634              | 98,950           |
| Mgmt Fees-Corporate/Shared Service Center         | 15          | 6,066,737         | 1,440,850         | 638,221          | 1,212,741        | 547,220          | 545,400          | 1,198,787            | 482,912          |
| Mgmt Fees-Call Center                             | 13          | 4,091,678         | 0                 | 0                | 0                | 0                | 0                | 4,081,449            | 10,229           |
| Mgmt Fees-Belleville Lab                          | 2           | 102,899           | 59,229            | 43,424           | 0                | 0                | 0                | 0                    | 247              |
| Mgmt Fees- Financial ITS                          | 15          | 0                 | 0                 | 0                | 0                | 0                | 0                | 0                    | 0                |
| Mgmt Fees- Customer Billings ITS                  | 13          | 0                 | 0                 | 0                | 0                | 0                | 0                | 0                    | 0                |
| Mgmt Fees-Other ITS                               | 15          | 6,553,924         | 1,556,557         | 689,473          | 1,310,129        | 591,164          | 589,198          | 1,295,055            | 521,692          |
| Outside Services AG                               | 15          | 455,616           | 108,209           | 47,931           | 91,078           | 41,097           | 40,960           | 90,030               | 36,267           |
| Outside Services AG                               | 15          | 1,235,737         | 293,488           | 130,000          | 247,024          | 111,464          | 111,093          | 244,182              | 98,365           |
| Property Insurance                                | 15          | 566,879           | 134,634           | 59,636           | 113,319          | 51,132           | 50,962           | 112,015              | 45,124           |
| Ins Gen Liab Oper AG                              | 15          | 0                 | 0                 | 0                | 0                | 0                | 0                | 0                    | 0                |
| Ins Work Comp AG                                  | 16          | 0                 | 0                 | 0                | 0                | 0                | 0                | 0                    | 0                |
| Ins Other Oper AG                                 | 15          | 0                 | 0                 | 0                | 0                | 0                | 0                | 0                    | 0                |
| Property Insurance                                | 15          | 0                 | 0                 | 0                | 0                | 0                | 0                | 0                    | 0                |
| Injuries & Damages                                | 16          | 2,301,484         | 498,502           | 220,943          | 419,100          | 301,264          | 299,883          | 325,200              | 236,593          |
| Employee Pension & Benefits                       | 16          | 3,904,644         | 845,746           | 374,846          | 711,036          | 511,118          | 508,775          | 551,726              | 401,397          |
| Employee Pension & Benefits                       | 16          | 2,118,515         | 458,870           | 203,377          | 385,782          | 277,314          | 276,043          | 299,346              | 217,783          |
| Employee Pension & Benefits                       | 16          | 752,915           | 163,081           | 72,280           | 137,106          | 98,557           | 98,105           | 106,387              | 77,400           |
| Reg Commission Exp                                | 15          | 107,895           | 25,625            | 11,351           | 21,568           | 9,732            | 9,700            | 21,320               | 8,588            |
| Rents AG                                          | 15          | 246,768           | 58,607            | 25,960           | 49,329           | 22,259           | 22,184           | 48,761               | 19,643           |
| Goodwill Advertising Exp                          | 15          | 0                 | 0                 | 0                | 0                | 0                | 0                | 0                    | 0                |
| Misc Exp AG                                       | 15          | (242,443)         | (57,580)          | (25,505)         | (48,464)         | (21,868)         | (21,796)         | (47,907)             | (19,298)         |
| Research & Development                            | 15          | 0                 | 0                 | 0                | 0                | 0                | 0                | 0                    | 0                |
| <b>TOTAL A &amp; G OPERATIONS</b>                 |             | <b>32,144,425</b> | <b>6,507,597</b>  | <b>2,900,234</b> | <b>5,425,594</b> | <b>2,890,533</b> | <b>2,879,425</b> | <b>9,093,272</b>     | <b>2,445,883</b> |
| General Plant Maint AG                            | 15          | 24                | 6                 | 2                | 5                | 2                | 2                | 5                    | 2                |
| General Plant Maint AG                            | 15          | 247,568           | 58,798            | 26,044           | 49,489           | 22,331           | 22,256           | 48,920               | 19,708           |
| <b>TOTAL A &amp; G EXPENSE - MAINTENANCE</b>      |             | <b>247,592</b>    | <b>58,803</b>     | <b>26,047</b>    | <b>49,494</b>    | <b>22,333</b>    | <b>22,259</b>    | <b>48,924</b>        | <b>19,708</b>    |
| <b>TOTAL A &amp; G EXPENSE</b>                    |             | <b>32,392,017</b> | <b>6,566,400</b>  | <b>2,926,281</b> | <b>5,475,088</b> | <b>2,912,866</b> | <b>2,901,683</b> | <b>9,142,196</b>     | <b>2,465,592</b> |
| <b>Total Operation &amp; Maintenance Expenses</b> |             | <b>63,871,329</b> | <b>22,883,429</b> | <b>5,010,623</b> | <b>9,439,653</b> | <b>4,701,144</b> | <b>4,684,008</b> | <b>13,058,437</b>    | <b>4,092,093</b> |

MISSOURI-AMERICAN WATER COMPANY

COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO COST FUNCTIONS

| Account                       | Factor Ref. | Cost of Service | Base    | Max Day | Max Hour | Meters | Services | Billing & Collecting | Fire Service |
|-------------------------------|-------------|-----------------|---------|---------|----------|--------|----------|----------------------|--------------|
| (1)                           | (2)         | (3)             | (4)     | (5)     | (6)      | (7)    | (8)      | (9)                  | (10)         |
| <b>DEPRECIATION EXPENSE</b>   |             |                 |         |         |          |        |          |                      |              |
| Struct & Imp SS               | 2           | 149,201         | 85,880  | 62,963  | 0        | 0      | 0        | 0                    | 358          |
| Struct & Imp P                | 6           | 5,160           | 2,936   | 2,152   | 0        | 0      | 0        | 0                    | 71           |
| Struct & Imp Pumps (STL)      | 6           | 83,871          | 47,714  | 34,983  | 0        | 0      | 0        | 0                    | 1,157        |
| Struct & Imp Pump Boosters    | 6           | 47,022          | 26,751  | 19,613  | 0        | 0      | 0        | 0                    | 649          |
| Struct & Imp WT               | 2           | 32,576          | 18,751  | 13,747  | 0        | 0      | 0        | 0                    | 78           |
| Struct & Imp WT Nth Pit (ST)  | 2           | 96,123          | 55,328  | 40,564  | 0        | 0      | 0        | 0                    | 231          |
| Struct & Imp WT Ctrl Pit 1    | 2           | 43,680          | 25,142  | 18,433  | 0        | 0      | 0        | 0                    | 105          |
| Struct & Imp WT Ctrl Pit 3    | 2           | 349,677         | 201,274 | 147,564 | 0        | 0      | 0        | 0                    | 839          |
| Struct & Imp WT Sth Pit (ST)  | 2           | 38,718          | 22,286  | 16,339  | 0        | 0      | 0        | 0                    | 93           |
| Struct & Imp WT Meramec (ST)  | 2           | 149,490         | 86,046  | 63,085  | 0        | 0      | 0        | 0                    | 359          |
| Struct & Imp TD               | 7           | 126,025         | 37,833  | 0       | 80,505   | 0      | 0        | 0                    | 7,700        |
| Struct & Imp TD Spec Cross    | 7           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Struct & Imp Offices          | 15          | 16,986          | 4,034   | 1,767   | 3,396    | 1,532  | 1,527    | 3,357                | 1,352        |
| Struct & Imp Leasehold        | 15          | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Struct & Imp Leasehold        | 15          | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Struct & Imp Store, Shop, Gar | 15          | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Struct & Imp Misc             | 15          | 33,606          | 7,982   | 3,535   | 6,718    | 3,031  | 3,021    | 6,641                | 2,675        |
| Collect & Impounding          | 1           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Lake, River & Other Intakes   | 2           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Wells & Springs               | 2           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Supply Mains                  | 2           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Supply Mains Nth Pit (STL)    | 2           | 3,931           | 2,263   | 1,659   | 0        | 0      | 0        | 0                    | 9            |
| Supply Mains Ctrl Pit (STL)   | 2           | 62,872          | 36,189  | 26,532  | 0        | 0      | 0        | 0                    | 151          |
| Supply Mains Sth Pit (STL)    | 2           | 5,399           | 3,108   | 2,278   | 0        | 0      | 0        | 0                    | 13           |
| Supply Mains Meramec Pit (S)  | 2           | 21,022          | 12,100  | 8,871   | 0        | 0      | 0        | 0                    | 50           |
| Power Generation Equip Othe   | 6           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Boiler Plant Equipment P      | 6           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Pump Equip Steam              | 6           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Pump Equip Electric           | 6           | 617,887         | 351,516 | 257,720 | 0        | 0      | 0        | 0                    | 8,527        |
| Pump Equip Elec Pre46 (STL)   | 6           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Pump Equip Elec Post46 (STL)  | 6           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Pump Equip Elec Boosters Po   | 6           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Pump Equip Diesel             | 6           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Pump Equip Diesel Stratman    | 6           | 5,074           | 2,887   | 2,116   | 0        | 0      | 0        | 0                    | 70           |
| Pump Equip Diesel Ctrl Pit    | 6           | 41,451          | 23,581  | 17,289  | 0        | 0      | 0        | 0                    | 572          |
| Pump Equip Hydraulic          | 6           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Pump Equip Other              | 6           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| WT Equip Non-Media            | 2           | 54,572          | 31,412  | 23,030  | 0        | 0      | 0        | 0                    | 131          |
| WT Equip Non-Med North (STL)  | 2           | 199,583         | 114,880 | 84,224  | 0        | 0      | 0        | 0                    | 479          |
| WT Equip Non Media Ctrl 1 &   | 2           | 62,723          | 36,103  | 26,469  | 0        | 0      | 0        | 0                    | 151          |
| WT Equip Non Media Ctrl 3 (   | 2           | 606,192         | 348,924 | 255,813 | 0        | 0      | 0        | 0                    | 1,455        |
| WT Equip Non Media Sth (STL)  | 2           | 73,076          | 42,062  | 30,838  | 0        | 0      | 0        | 0                    | 175          |
| WT Equip Non Media Mer (STL)  | 2           | 204,495         | 117,707 | 86,297  | 0        | 0      | 0        | 0                    | 491          |
| WT Equip Filter Media         | 2           | 18,654          | 10,737  | 7,872   | 0        | 0      | 0        | 0                    | 45           |
| Dist Reservoirs & Standpipe   | 5           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| Elevated Tanks & Standpipes   | 5           | 54,903          | 15,571  | 0       | 33,129   | 0      | 0        | 0                    | 6,204        |
| Ground Level Facilities       | 5           | 214,309         | 60,778  | 0       | 129,314  | 0      | 0        | 0                    | 24,217       |
| TD Mains Not Classified by    | 7           | 11,876          | 3,565   | 0       | 7,586    | 0      | 0        | 0                    | 726          |
| TD Mains 4 & Less "           | 4           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| TD Mains 6 to 8 "             | 4           | 10,002          | 3,003   | 0       | 6,389    | 0      | 0        | 0                    | 611          |
| TD Mains 10 to 16 "           | 3           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| TD Mains 18 & Grtr "          | 3           | 0               | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |

MISSOURI-AMERICAN WATER COMPANY

COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO COST FUNCTIONS

| Account<br>(1)                      | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Base<br>(4)      | Max Day<br>(5)   | Max Hour<br>(6)  | Meters<br>(7)    | Services<br>(8) | Billing &<br>Collecting<br>(9) | Fire<br>Service<br>(10) |
|-------------------------------------|-----------------------|---------------------------|------------------|------------------|------------------|------------------|-----------------|--------------------------------|-------------------------|
| TD Mains AC 4 (STL) *               | 4                     | 42,413                    | 12,732           | 0                | 27,093           | 0                | 0               | 0                              | 2,591                   |
| TD Mains CI <10 1900-28 (S"         | 4                     | 42,012                    | 12,612           | 0                | 26,837           | 0                | 0               | 0                              | 2,567                   |
| TD Mains CI <10 1929-56 (S"         | 4                     | 259,096                   | 77,780           | 0                | 185,510          | 0                | 0               | 0                              | 15,831                  |
| TD Mains CI <10 1957-93 (S"         | 4                     | 796,493                   | 239,107          | 0                | 508,800          | 0                | 0               | 0                              | 48,666                  |
| TD Mains CI 12 (STL) *              | 3                     | 195,398                   | 108,114          | 79,253           | 0                | 0                | 0               | 0                              | 8,050                   |
| TD Mains CI 16 (STL) *              | 3                     | 286,861                   | 158,720          | 116,351          | 0                | 0                | 0               | 0                              | 11,819                  |
| TD Mains DI 6-8 (STL) *             | 4                     | 3,640,407                 | 1,092,850        | 0                | 2,325,492        | 0                | 0               | 0                              | 222,429                 |
| TD Mains DI 12 (STL) *              | 3                     | 889,997                   | 492,435          | 360,983          | 0                | 0                | 0               | 0                              | 36,868                  |
| TD Mains DI 16 & >(STL) *           | 3                     | 1,604,116                 | 887,557          | 650,629          | 0                | 0                | 0               | 0                              | 66,090                  |
| TD Mains Galve 1 (STL) *            | 4                     | 4,114                     | 1,235            | 0                | 2,628            | 0                | 0               | 0                              | 251                     |
| TD Mains LJ 20 (STL) *              | 3                     | 67,494                    | 37,344           | 27,376           | 0                | 0                | 0               | 0                              | 2,781                   |
| Fire Mains                          | 8                     | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |
| Services                            | 10                    | 2,527                     | 0                | 0                | 0                | 0                | 2,523           | 0                              | 4                       |
| Meters Bronze Case                  | 9                     | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |
| Meters Plastic Case                 | 9                     | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |
| Meters Other                        | 9                     | 460,472                   | 0                | 0                | 0                | 460,472          | 0               | 0                              | 0                       |
| Meters Other-Rem Rdr Unts           | 9                     | 101,875                   | 0                | 0                | 0                | 101,875          | 0               | 0                              | 0                       |
| Meter Installations                 | 9                     | 67,454                    | 0                | 0                | 0                | 67,454           | 0               | 0                              | 0                       |
| Meter Installation Other            | 9                     | 233,825                   | 0                | 0                | 0                | 233,825          | 0               | 0                              | 0                       |
| Hydrants                            | 8                     | 724,674                   | 0                | 0                | 0                | 0                | 0               | 0                              | 724,674                 |
| Utility Plant Acquisition Adjustmen | 17                    | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |
| Other P/E WT Res Hand Equip         | 2                     | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |
| Other P/E TD                        | 7                     | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |
| Other P/E CPS                       | 15                    | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |
| Office Furniture & Equip            | 15                    | 72,390                    | 17,193           | 7,615            | 14,471           | 6,530            | 6,508           | 14,304                         | 5,762                   |
| Comp & Periph Equip                 | 15                    | 620,913                   | 147,487          | 55,320           | 124,120          | 56,006           | 55,820          | 122,692                        | 49,425                  |
| Computer Software                   | 15                    | 993,808                   | 238,029          | 104,549          | 198,862          | 89,641           | 89,343          | 196,376                        | 79,107                  |
| Comp Software Personal              | 15                    | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |
| Data Handling Equipment             | 15                    | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |
| Other Office Equipment              | 15                    | 11,967                    | 2,842            | 1,259            | 2,392            | 1,079            | 1,076           | 2,365                          | 953                     |
| Trans Equip Lt Duty Trks            | 15                    | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |
| Trans Equip Hvy Duty Trks           | 15                    | 346,055                   | 82,188           | 36,405           | 69,176           | 31,214           | 31,110          | 68,380                         | 27,546                  |
| Trans Equip Autos                   | 15                    | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |
| Trans Equip Other                   | 15                    | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |
| Stores Equipment                    | 15                    | 3,381                     | 803              | 356              | 676              | 305              | 304             | 668                            | 269                     |
| Tools,Shop,Garage Equip             | 15                    | 48,113                    | 11,427           | 5,061            | 8,618            | 4,340            | 4,325           | 9,507                          | 3,830                   |
| Tools,Shop,Garage Equip Oth         | 15                    | 196,717                   | 46,720           | 20,695           | 39,324           | 17,744           | 17,685          | 38,871                         | 15,659                  |
| Laboratory Equipment                | 2                     | 44,044                    | 25,352           | 18,587           | 0                | 0                | 0               | 0                              | 106                     |
| Laboratory Equip Other              | 2                     | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |
| Power Operated Equipment            | 15                    | 43,464                    | 10,323           | 4,572            | 8,688            | 3,920            | 3,907           | 8,588                          | 3,460                   |
| Comm Equip Non-Telephone            | 15                    | 52,822                    | 12,545           | 5,557            | 10,559           | 4,765            | 4,749           | 10,438                         | 4,205                   |
| Comm Equip Telephone                | 15                    | 5,561                     | 1,321            | 585              | 1,112            | 502              | 500             | 1,099                          | 443                     |
| Misc Equipment                      | 15                    | 28,898                    | 6,863            | 3,040            | 5,777            | 2,607            | 2,598           | 5,710                          | 2,300                   |
| Other Tangible Property             | 17                    | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |
| <b>Total Depreciation Expense</b>   |                       | <b>15,327,516</b>         | <b>5,559,904</b> | <b>2,763,966</b> | <b>3,807,973</b> | <b>1,086,842</b> | <b>224,966</b>  | <b>488,997</b>                 | <b>1,395,228</b>        |
| Amort-Other UP                      | 18                    | 0                         | 0                | 0                | 0                | 0                | 0               | 0                              | 0                       |

MISSOURI-AMERICAN WATER COMPANY

COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO COST FUNCTIONS

| Account<br>(1)                                             | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Base<br>(4)          | Max Day<br>(5)       | Max Hour<br>(6)      | Meters<br>(7)       | Services<br>(8)     | Billing &<br>Collecting<br>(9) | Fire<br>Service<br>(10) |
|------------------------------------------------------------|-----------------------|---------------------------|----------------------|----------------------|----------------------|---------------------|---------------------|--------------------------------|-------------------------|
| <b>Taxes Other Than Income</b>                             |                       |                           |                      |                      |                      |                     |                     |                                |                         |
| Utility Reg Assessment Fee                                 | 19                    | 804,096                   | 292,530              | 98,341               | 167,172              | 52,990              | 35,541              | 96,250                         | 61,192                  |
| Property Taxes                                             | 18                    | 6,708,517                 | 2,544,541            | 1,179,357            | 1,992,430            | 321,338             | 18,113              | 48,301                         | 603,096                 |
| FUTA                                                       | 16                    | 16,475                    | 3,568                | 1,582                | 3,000                | 2,157               | 2,147               | 2,328                          | 1,694                   |
| FICA                                                       | 16                    | 1,170,500                 | 253,530              | 112,368              | 213,148              | 153,218             | 152,516             | 165,392                        | 120,327                 |
| SUTA                                                       | 16                    | 42,208                    | 9,142                | 4,052                | 7,686                | 5,525               | 5,500               | 5,964                          | 4,339                   |
| Other Taxes & Licenses                                     | 15                    | 168,166                   | 39,940               | 17,691               | 33,616               | 15,169              | 15,118              | 33,230                         | 13,386                  |
| Gross Receipts Tax                                         | 19                    | 0                         | 0                    | 0                    | 0                    | 0                   | 0                   | 0                              | 0                       |
| <b>Total Taxes, Other Than Income</b>                      |                       | <b>8,909,963</b>          | <b>3,143,251</b>     | <b>1,413,391</b>     | <b>2,417,052</b>     | <b>550,397</b>      | <b>228,935</b>      | <b>351,465</b>                 | <b>804,033</b>          |
| <b>Income Taxes</b>                                        | 18                    | <b>6,626,847</b>          | <b>2,513,563</b>     | <b>1,165,000</b>     | <b>1,968,174</b>     | <b>317,426</b>      | <b>17,892</b>       | <b>47,713</b>                  | <b>595,754</b>          |
| <b>Utility Income Available for Return</b>                 | 18                    | <b>23,083,498</b>         | <b>8,755,571</b>     | <b>4,058,079</b>     | <b>6,855,799</b>     | <b>1,105,700</b>    | <b>62,325</b>       | <b>166,201</b>                 | <b>2,075,206</b>        |
| <b>Total Cost of Service</b>                               |                       | <b>117,819,153</b>        | <b>42,855,718</b>    | <b>14,411,059</b>    | <b>24,488,651</b>    | <b>7,761,508</b>    | <b>5,218,157</b>    | <b>14,112,814</b>              | <b>8,962,314</b>        |
| <b>Less: Other Water Revenues</b>                          | 19                    | <b>(1,316,503)</b>        | <b>(1,316,503)</b>   | <b>0</b>             | <b>0</b>             | <b>0</b>            | <b>0</b>            | <b>0</b>                       | <b>0</b>                |
| Contract Sales                                             | 19                    | (900,987)                 | (327,779)            | (110,191)            | (187,315)            | (59,375)            | (39,824)            | (107,848)                      | (68,565)                |
| Revenue Shift                                              | 19                    | 0                         | 0                    | 0                    | 0                    | 0                   | 0                   | 0                              | 0                       |
| <b>Total Other Water Revenues</b>                          |                       | <b>(2,217,490)</b>        | <b>(1,644,282)</b>   | <b>(110,191)</b>     | <b>(187,315)</b>     | <b>(59,375)</b>     | <b>(39,824)</b>     | <b>(107,848)</b>               | <b>(68,565)</b>         |
| <b>Total Cost of Service Related to<br/>Sales of Water</b> |                       | <b>115,601,663</b>        | <b>41,211,436</b>    | <b>14,300,868</b>    | <b>24,301,336</b>    | <b>7,702,133</b>    | <b>5,178,334</b>    | <b>14,004,965</b>              | <b>8,893,749</b>        |
| <b>Reallocation of Public Fire</b>                         | 20                    | <b>0</b>                  | <b>0</b>             | <b>0</b>             | <b>0</b>             | <b>0</b>            | <b>0</b>            | <b>0</b>                       | <b>0</b>                |
| <b>Total</b>                                               |                       | <b>\$ 115,601,663</b>     | <b>\$ 41,211,436</b> | <b>\$ 14,300,868</b> | <b>\$ 24,301,336</b> | <b>\$ 7,702,133</b> | <b>\$ 5,178,334</b> | <b>\$ 14,004,965</b>           | <b>\$ 8,893,749</b>     |
|                                                            |                       |                           | 52,714,869           |                      |                      | 257,878,199         | 9,246,777           | 1,341,852                      | \$ 443,551              |
|                                                            |                       |                           | 0.782                |                      |                      | 0.03                | 0.56                |                                | \$ 8,450,198            |
|                                                            |                       |                           | \$ 11,610,749        |                      |                      | 0.01                | 0.14                | 10.44                          | 30,845                  |
|                                                            |                       |                           | \$ 0.220             |                      |                      |                     |                     | 10.58                          | 273.96                  |
|                                                            |                       |                           |                      |                      |                      | 0.00                | 0.05                | 10.44                          | Quarterly               |
|                                                            |                       |                           |                      |                      |                      |                     |                     | 10.49                          | Monthly                 |

MISSOURI-AMERICAN WATER COMPANY

COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO COST FUNCTIONS

| Account<br>(1)                | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Base<br>(4) | Max Day<br>(5) | Max Hour<br>(6) | Meters<br>(7) | Services<br>(8) | Billing &<br>Collecting<br>(9) | Fire<br>Service<br>(10) |
|-------------------------------|-----------------------|---------------------------|-------------|----------------|-----------------|---------------|-----------------|--------------------------------|-------------------------|
| <b>RATE BASE</b>              |                       |                           |             |                |                 |               |                 |                                |                         |
| Organization                  | 17                    | 129,762                   | 49,180      | 22,799         | 38,500          | 6,280         | 428             | 895                            | 11,705                  |
| Franchises                    | 17                    | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Land & Ld Rights SS           | 2                     | 91,400                    | 52,610      | 38,571         | 0               | 0             | 0               | 0                              | 219                     |
| Land & Ld Rights P            | 6                     | 284,588                   | 161,902     | 118,702        | 0               | 0             | 0               | 0                              | 3,927                   |
| Land & Ld Rights WT           | 2                     | 1,371,407                 | 789,382     | 578,734        | 0               | 0             | 0               | 0                              | 3,291                   |
| Land & Ld Rights TD           | 7                     | 3,998,413                 | 1,200,324   | 0              | 2,554,186       | 0             | 0               | 0                              | 244,303                 |
| Land & Land Rights AG         | 15                    | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Struct & Imp SS               | 2                     | 6,089,830                 | 3,505,306   | 2,569,908      | 0               | 0             | 0               | 0                              | 14,618                  |
| Struct & Imp P                | 6                     | 298,289                   | 169,697     | 124,416        | 0               | 0             | 0               | 0                              | 4,116                   |
| Struct & Imp Pumps (STL)      | 6                     | 4,848,057                 | 2,758,060   | 2,022,125      | 0               | 0             | 0               | 0                              | 66,903                  |
| Struct & Imp Pump Boosters    | 6                     | 2,718,024                 | 1,546,284   | 1,133,688      | 0               | 0             | 0               | 0                              | 37,509                  |
| Struct & Imp WT               | 2                     | 1,998,514                 | 1,150,345   | 843,373        | 0               | 0             | 0               | 0                              | 4,796                   |
| Struct & Imp WT Nth Plt (ST)  | 2                     | 5,897,100                 | 3,394,371   | 2,488,576      | 0               | 0             | 0               | 0                              | 14,153                  |
| Struct & Imp WT Ctr Plt 1     | 2                     | 2,679,748                 | 1,542,463   | 1,130,854      | 0               | 0             | 0               | 0                              | 6,431                   |
| Struct & Imp WT Ctr Plt 3     | 2                     | 21,452,569                | 12,348,099  | 9,052,984      | 0               | 0             | 0               | 0                              | 51,486                  |
| Struct & Imp WT Sth Plt (ST)  | 2                     | 2,375,351                 | 1,367,252   | 1,002,398      | 0               | 0             | 0               | 0                              | 5,701                   |
| Struct & Imp WT Meramec (ST)  | 2                     | 9,171,169                 | 5,278,925   | 3,870,233      | 0               | 0             | 0               | 0                              | 22,011                  |
| Struct & Imp TD               | 7                     | 4,720,044                 | 1,416,957   | 0              | 3,015,164       | 0             | 0               | 0                              | 288,395                 |
| Struct & Imp TD Spec Cross    | 7                     | 267,357                   | 80,261      | 0              | 170,788         | 0             | 0               | 0                              | 16,336                  |
| Struct & Imp Offices          | 15                    | 339,728                   | 80,685      | 35,739         | 67,912          | 30,643        | 30,542          | 67,130                         | 27,042                  |
| Struct & Imp Leasehold        | 15                    | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Struct & Imp Leasehold        | 15                    | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Struct & Imp Store, Shop, Gar | 15                    | 264,929                   | 62,921      | 27,871         | 52,959          | 23,897        | 23,817          | 52,350                         | 21,088                  |
| Struct & Imp Misc             | 15                    | 1,400,265                 | 332,563     | 147,308        | 279,913         | 126,304       | 125,884         | 276,692                        | 111,461                 |
| Collect & Impounding          | 1                     | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Lake, River & Other Intakes   | 2                     | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Wells & Springs               | 2                     | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Supply Mains                  | 2                     | 8,522                     | 4,905       | 3,596          | 0               | 0             | 0               | 0                              | 20                      |
| Supply Mains Nth Plt (STL)    | 2                     | 245,687                   | 141,417     | 103,680        | 0               | 0             | 0               | 0                              | 590                     |
| Supply Mains Ctr Plt (STL)    | 2                     | 3,929,522                 | 2,261,833   | 1,658,258      | 0               | 0             | 0               | 0                              | 9,431                   |
| Supply Mains Sth Plt (STL)    | 2                     | 337,448                   | 194,235     | 142,403        | 0               | 0             | 0               | 0                              | 810                     |
| Supply Mains Meramec Plt (S)  | 2                     | 1,313,864                 | 756,260     | 554,451        | 0               | 0             | 0               | 0                              | 3,153                   |
| Power Generation Equip Othe   | 6                     | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Boiler Plant Equipment P      | 6                     | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Pump Equip Steam              | 6                     | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Pump Equip Electric           | 6                     | 768,492                   | 436,057     | 319,704        | 0               | 0             | 0               | 0                              | 10,578                  |
| Pump Equip Elec Pre46 (STL)   | 6                     | 874,158                   | 497,308     | 364,611        | 0               | 0             | 0               | 0                              | 12,063                  |
| Pump Equip Elec Post46 (STL)  | 6                     | 25,323,220                | 14,406,380  | 10,562,315     | 0               | 0             | 0               | 0                              | 349,460                 |
| Pump Equip Elec Boosters Po   | 6                     | 1,493,074                 | 849,410     | 622,761        | 0               | 0             | 0               | 0                              | 20,604                  |
| Pump Equip Diesel             | 6                     | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Pump Equip Diesel Stratman    | 6                     | 207,946                   | 118,300     | 86,734         | 0               | 0             | 0               | 0                              | 2,870                   |
| Pump Equip Diesel Ctr Plt     | 6                     | 1,698,803                 | 966,449     | 708,571        | 0               | 0             | 0               | 0                              | 23,443                  |
| Pump Equip Hydraulic          | 6                     | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |
| Pump Equip Other              | 6                     | 34,884                    | 19,846      | 14,550         | 0               | 0             | 0               | 0                              | 481                     |
| WT Equip Non-Media            | 2                     | 1,963,039                 | 1,129,925   | 828,402        | 0               | 0             | 0               | 0                              | 4,711                   |
| WT Equip Non-Med North (STL)  | 2                     | 7,179,235                 | 4,132,368   | 3,029,637      | 0               | 0             | 0               | 0                              | 17,230                  |
| WT Equip Non-Media Ctr 1 &    | 2                     | 2,256,219                 | 1,298,680   | 952,124        | 0               | 0             | 0               | 0                              | 5,415                   |
| WT Equip Non-Media Ctr 3 (    | 2                     | 21,805,467                | 12,551,227  | 9,201,907      | 0               | 0             | 0               | 0                              | 52,333                  |
| WT Equip Non-Media Sth (STL)  | 2                     | 2,628,630                 | 1,513,039   | 1,109,282      | 0               | 0             | 0               | 0                              | 6,309                   |
| WT Equip Non-Media Mer (STL)  | 2                     | 7,355,932                 | 4,234,074   | 3,104,203      | 0               | 0             | 0               | 0                              | 17,654                  |
| WT Equip Filter Media         | 2                     | 671,023                   | 388,241     | 283,172        | 0               | 0             | 0               | 0                              | 1,610                   |
| Dist Reservoirs & Standpipe   | 5                     | 0                         | 0           | 0              | 0               | 0             | 0               | 0                              | 0                       |

MISSOURI-AMERICAN WATER COMPANY

COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO COST FUNCTIONS

| Account                        | Factor | Cost of     | Base        | Max Day     | Max Hour    | Meters     | Services  | Billing & Collecting | Fire Service |
|--------------------------------|--------|-------------|-------------|-------------|-------------|------------|-----------|----------------------|--------------|
| (1)                            | (2)    | (3)         | (4)         | (5)         | (6)         | (7)        | (8)       | (9)                  | (10)         |
| Elevated Tanks & Standpipes    | 5      | 2,440,150   | 692,027     | 0           | 1,472,387   | 0          | 0         | 0                    | 275,737      |
| Ground Level Facilities        | 5      | 9,524,859   | 2,701,250   | 0           | 5,747,300   | 0          | 0         | 0                    | 1,076,309    |
| TD Mains Not Classified by     | 7      | 791,705     | 237,670     | 0           | 505,741     | 0          | 0         | 0                    | 48,373       |
| TD Mains 4 & Less              | 4      | 2,827,541   | 848,828     | 0           | 1,806,233   | 0          | 0         | 0                    | 172,763      |
| TD Mains 6 to 8"               | 4      | 50,188      | 15,066      | 0           | 32,060      | 0          | 0         | 0                    | 3,066        |
| TD Mains 10 to 16"             | 3      | 0           | 0           | 0           | 0           | 0          | 0         | 0                    | 0            |
| TD Mains 18 & Grtr             | 3      | 2,800,609   | 1,549,688   | 1,136,008   | 0           | 0          | 0         | 0                    | 115,393      |
| TD Mains AC 4 (STL)            | 4      | 17,273,037  | 5,185,366   | 0           | 11,034,016  | 0          | 0         | 0                    | 1,055,383    |
| TD Mains CI <10 1900-28 (S"    | 4      | 53,099,538  | 15,940,481  | 0           | 33,919,985  | 0          | 0         | 0                    | 3,244,382    |
| TD Mains CI <10 1929-56 (S"    | 4      | 242,693,826 | 72,856,687  | 0           | 155,032,816 | 0          | 0         | 0                    | 14,828,593   |
| TD Mains CI <10 1957-93 (S"    | 4      | 0           | 0           | 0           | 0           | 0          | 0         | 0                    | 0            |
| TD Mains CI 12 (STL)           | 3      | 666,787     | 368,933     | 270,449     | 0           | 0          | 0         | 0                    | 27,472       |
| TD Mains CI 16 (STL)           | 3      | 13,026,543  | 7,207,586   | 5,283,566   | 0           | 0          | 0         | 0                    | 536,694      |
| TD Mains DI 6-8 (STL)          | 4      | 19,124,068  | 5,741,045   | 0           | 12,216,455  | 0          | 0         | 0                    | 1,168,481    |
| TD Mains DI 12 (STL)           | 3      | 59,333,118  | 32,829,014  | 24,065,513  | 0           | 0          | 0         | 0                    | 2,444,524    |
| TD Mains DI 16 & > (STL)       | 3      | 106,941,041 | 59,170,478  | 43,375,286  | 0           | 0          | 0         | 0                    | 4,405,971    |
| TD Mains Galve 1 (STL)         | 4      | 274,277     | 82,338      | 0           | 175,208     | 0          | 0         | 0                    | 16,758       |
| TD Mains LJ 20 (STL)           | 3      | 4,499,594   | 2,489,625   | 1,825,035   | 0           | 0          | 0         | 0                    | 185,383      |
| Fire Mains                     | 8      | 0           | 0           | 0           | 0           | 0          | 0         | 0                    | 0            |
| Services                       | 10     | 82,039      | 0           | 0           | 0           | 0          | 81,900    | 0                    | 139          |
| Meters Bronze Case             | 9      | 0           | 0           | 0           | 0           | 0          | 0         | 0                    | 0            |
| Meters Plastic Case            | 9      | 0           | 0           | 0           | 0           | 0          | 0         | 0                    | 0            |
| Meters Other                   | 9      | 18,949,447  | 0           | 0           | 0           | 18,949,447 | 0         | 0                    | 0            |
| Meters Other-Rem Rdr Units     | 9      | 4,192,376   | 0           | 0           | 0           | 4,192,376  | 0         | 0                    | 0            |
| Meter Installations            | 9      | 2,775,882   | 0           | 0           | 0           | 2,775,882  | 0         | 0                    | 0            |
| Meter Installation Other       | 9      | 9,622,440   | 0           | 0           | 0           | 9,622,440  | 0         | 0                    | 0            |
| Hydrants                       | 8      | 37,743,443  | 0           | 0           | 0           | 0          | 0         | 0                    | 37,743,443   |
| Other P/E Intangible           | 15     | 208,627     | 49,549      | 21,948      | 41,704      | 18,818     | 18,756    | 41,225               | 16,607       |
| Other P/E WT Res Hand Equip    | 2      | 0           | 0           | 0           | 0           | 0          | 0         | 0                    | 0            |
| Other P/E TD                   | 7      | 0           | 0           | 0           | 0           | 0          | 0         | 0                    | 0            |
| Other P/E CPS                  | 15     | 0           | 0           | 0           | 0           | 0          | 0         | 0                    | 0            |
| Office Furniture & Equip       | 15     | 1,809,745   | 429,814     | 190,385     | 361,768     | 163,239    | 162,696   | 357,606              | 144,056      |
| Comp & Periph Equip            | 15     | 4,345,087   | 1,031,958   | 457,103     | 868,583     | 391,927    | 390,623   | 858,589              | 345,869      |
| Computer Software              | 15     | 6,954,567   | 1,651,710   | 731,620     | 1,390,218   | 627,302    | 625,216   | 1,374,222            | 553,583      |
| Comp Software Personal         | 15     | 86,627      | 20,574      | 9,113       | 17,317      | 7,814      | 7,788     | 17,117               | 6,896        |
| Data Handling Equipment        | 15     | 0           | 0           | 0           | 0           | 0          | 0         | 0                    | 0            |
| Other Office Equipment         | 15     | 179,421     | 42,613      | 18,875      | 35,866      | 16,184     | 16,130    | 35,454               | 14,282       |
| Trans Equip Lt Duty Trks       | 15     | 29,784      | 7,074       | 3,133       | 5,954       | 2,886      | 2,678     | 5,885                | 2,371        |
| Trans Equip Hvy Duty Trks      | 15     | 4,154,323   | 986,652     | 437,035     | 830,449     | 374,720    | 373,474   | 820,894              | 330,684      |
| Trans Equip Autos              | 15     | 392,227     | 93,154      | 41,262      | 78,406      | 35,379     | 35,261    | 77,504               | 31,221       |
| Trans Equip Other              | 15     | 0           | 0           | 0           | 0           | 0          | 0         | 0                    | 0            |
| Stores Equipment               | 15     | 118,221     | 28,077      | 12,437      | 23,632      | 10,664     | 10,628    | 23,360               | 9,410        |
| Tools,Shop,Garage Equip        | 15     | 962,255     | 228,536     | 101,229     | 192,355     | 86,795     | 86,507    | 190,142              | 76,596       |
| Tools,Shop,Garage Equip Oth    | 15     | 3,934,335   | 934,405     | 413,892     | 786,474     | 354,877    | 353,697   | 777,425              | 313,173      |
| Laboratory Equipment           | 2      | 1,101,097   | 633,791     | 464,663     | 0           | 0          | 0         | 0                    | 2,643        |
| Laboratory Equip Other         | 2      | 285,859     | 164,540     | 120,632     | 0           | 0          | 0         | 0                    | 686          |
| Power Operated Equipment       | 15     | 637,295     | 151,358     | 67,043      | 127,395     | 57,484     | 57,293    | 125,929              | 50,729       |
| Comm Equip Non-Telephone       | 15     | 1,056,436   | 250,904     | 111,137     | 211,182     | 95,291     | 94,974    | 208,752              | 84,092       |
| Comm Equip Telephone           | 15     | 83,380      | 19,803      | 8,772       | 16,668      | 7,521      | 7,496     | 16,476               | 6,637        |
| Misc Equipment                 | 15     | 577,956     | 137,265     | 60,801      | 115,533     | 52,132     | 51,958    | 114,204              | 48,005       |
| Other Tangible Property        | 17     | 40,603      | 15,389      | 7,134       | 12,047      | 1,965      | 134       | 280                  | 3,662        |
| Total Utility Plant in Service |        | 786,180,262 | 297,978,785 | 138,092,714 | 233,237,174 | 38,032,066 | 2,557,877 | 5,442,133            | 70,882,323   |

MISSOURI-AMERICAN WATER COMPANY

COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO COST FUNCTIONS

| Account<br>(1)                       | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Base<br>(4)           | Max Day<br>(5)        | Max Hour<br>(6)       | Meters<br>(7)        | Services<br>(8)     | Billing &<br>Collecting<br>(9) | Fire<br>Service<br>(10) |
|--------------------------------------|-----------------------|---------------------------|-----------------------|-----------------------|-----------------------|----------------------|---------------------|--------------------------------|-------------------------|
| <b>Other Rate Base Items</b>         |                       |                           |                       |                       |                       |                      |                     |                                |                         |
| Add:                                 |                       |                           |                       |                       |                       |                      |                     |                                |                         |
| Other Utility Plant Adjustments      | 17                    | 0                         | 0                     | 0                     | 0                     | 0                    | 0                   | 0                              | 0                       |
| Cash Working Capital                 | 15                    | 3,553,058                 | 843,851               | 373,782               | 710,256               | 320,486              | 319,420             | 702,084                        | 282,823                 |
| Materials and Supplies               | 15                    | 2,424,347                 | 575,782               | 255,041               | 484,627               | 218,676              | 217,949             | 479,051                        | 192,978                 |
| Prepayments                          | 15                    | 503,676                   | 119,623               | 52,987                | 100,685               | 45,432               | 45,280              | 99,526                         | 40,093                  |
| OPEB's Contributed to External Func  | 16                    | 0                         | 0                     | 0                     | 0                     | 0                    | 0                   | 0                              | 0                       |
| Premature Retirement                 | 17                    | 0                         | 0                     | 0                     | 0                     | 0                    | 0                   | 0                              | 0                       |
| Regulatory Deferrals                 | 17                    | 0                         | 0                     | 0                     | 0                     | 0                    | 0                   | 0                              | 0                       |
| Less: Accumulated Amortization       | 17                    | 0                         | 0                     | 0                     | 0                     | 0                    | 0                   | 0                              | 0                       |
| Accumulated Deferred ITC (3%)        | 17                    | 0                         | 0                     | 0                     | 0                     | 0                    | 0                   | 0                              | 0                       |
| Deferred Income Taxes                | 17                    | (43,023,833)              | (16,306,033)          | (7,559,288)           | (12,765,171)          | (2,082,354)          | (141,979)           | (296,864)                      | (3,880,750)             |
| Pensions                             | 16                    | (7,557,131)               | (1,638,875)           | (725,485)             | (1,376,154)           | (989,229)            | (984,694)           | (1,067,823)                    | (776,873)               |
| Total Other Rate Base Elements       |                       | <u>(44,099,884)</u>       | <u>(16,403,651)</u>   | <u>(7,602,962)</u>    | <u>(12,845,757)</u>   | <u>(2,486,989)</u>   | <u>(544,024)</u>    | <u>(84,026)</u>                | <u>(4,141,729)</u>      |
| Total Original Cost Measure of Value |                       | <u>\$ 742,080,378</u>     | <u>\$ 281,575,134</u> | <u>\$ 130,489,751</u> | <u>\$ 220,391,417</u> | <u>\$ 35,545,078</u> | <u>\$ 2,013,853</u> | <u>\$ 5,358,107</u>            | <u>\$ 66,740,595</u>    |

MISSOURI-AMERICAN WATER COMPANY

COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2002, ALLOCATED TO COST FUNCTIONS

| Account    | Factor Ref.                   | Cost of Service | Base        | Max Day     | Max Hour    | Meters     | Services  | Billing & Collecting | Fire Service |
|------------|-------------------------------|-----------------|-------------|-------------|-------------|------------|-----------|----------------------|--------------|
| (1)        | (2)                           | (3)             | (4)         | (5)         | (6)         | (7)        | (8)       | (9)                  | (10)         |
| 41.1       | T&D OP BASIS FOR FACTOR 11    | 3,026,409       | 644,025     | 0           | 1,370,429   | 461,259    | 418,676   | 0                    | 132,234      |
| 0.9999     | FACTOR 11                     |                 | 0.2128      | 0.0000      | 0.4528      | 0.1524     | 0.1383    | 0.0000               | 0.0437       |
| 30.2       | T&D Mnt BASIS FOR FACTOR 12   | 1,754,810       | 242,496     | 0           | 516,009     | 301,614    | 318,702   | 0                    | 376,069      |
| 1.0000     | FACTOR 12                     |                 | 0.1382      | 0.0000      | 0.2940      | 0.1719     | 0.1816    | 0.0000               | 0.2143       |
| 237.1      | A&G BASIS FOR FACTOR 15       | 19,819,592      | 4,706,280   | 2,084,342   | 3,964,566   | 1,788,278  | 1,782,325 | 3,916,241            | 1,577,530    |
| 0.9999     | FACTOR 15                     |                 | 0.2375      | 0.1052      | 0.1999      | 0.0902     | 0.0899    | 0.1976               | 0.0796       |
| (201.4)    | LABOR BASIS FOR FACTOR 16     | 13,660,977      | 2,958,597   | 1,311,737   | 2,487,791   | 1,788,874  | 1,779,351 | 1,930,321            | 1,403,820    |
| 0.9999     | FACTOR 16                     |                 | 0.2166      | 0.0960      | 0.1821      | 0.1309     | 0.1303    | 0.1413               | 0.1028       |
| (12,447.7) | UPIS BASIS FOR FACTOR 17      | 786,009,897     | 297,914,216 | 138,062,780 | 233,186,627 | 38,023,821 | 2,557,315 | 5,440,957            | 70,866,956   |
| 0.9998     | FACTOR 17                     |                 | 0.3790      | 0.1757      | 0.2967      | 0.0484     | 0.0033    | 0.0069               | 0.0902       |
| (3,769.4)  | RATE BASE BASIS FOR FACTOR 18 | 742,080,378     | 281,575,134 | 130,489,751 | 220,391,417 | 35,545,078 | 2,013,853 | 5,358,107            | 66,740,595   |
| 1.0001     | FACTOR 18                     |                 | 0.3793      | 0.1758      | 0.2970      | 0.0479     | 0.0027    | 0.0072               | 0.0899       |
| (582.4)    | TOTAL COS BASIS FOR FACTOR 19 | 116,907,162     | 42,537,563  | 14,301,367  | 24,299,911  | 7,698,786  | 5,172,916 | 13,995,243           | 8,892,534    |
| 0.9999     | FACTOR 19                     |                 | 0.3638      | 0.1223      | 0.2079      | 0.0659     | 0.0442    | 0.1197               | 0.0761       |
|            | TOTAL COS BASIS FOR FACTOR 20 | 81,755,428      | 42,855,718  | 14,411,059  | 24,488,651  | 0          | 0         | 0                    | 0            |
| 1.0000     | FACTOR 20                     |                 | 0.5242      | 0.1763      | 0.2995      | 0.0000     | 0.0000    | 0.0000               | 0.0000       |

| 20<br>Total | 2    | 4       | 6        | 8      | 10       | 12                   | 14           |
|-------------|------|---------|----------|--------|----------|----------------------|--------------|
|             | Base | Max Day | Max Hour | Meters | Services | Billing & Collecting | Fire Service |
| 0.9999      | 1    | 0.9958  | -        | -      | -        | -                    | 0.0042       |
| 1.0001      | 2    | 0.5756  | 0.4220   | -      | -        | -                    | 0.0024       |
| 0.9999      | 3    | 0.5533  | 0.4056   | -      | -        | -                    | 0.0412       |
| 1.0000      | 4    | 0.3002  | -        | 0.6388 | -        | -                    | 0.0611       |
| 0.9999      | 5    | 0.2836  | -        | 0.6034 | -        | -                    | 0.1130       |
| 1.0000      | 6    | 0.5689  | 0.4171   | -      | -        | -                    | 0.0138       |
| 1.0000      | 7    | 0.3002  | -        | 0.6388 | -        | -                    | 0.0611       |
| 1.0000      | 8    | -       | -        | -      | -        | -                    | 1.0000       |
| 1.0000      | 9    | -       | -        | -      | -        | -                    | -            |
| 1.0001      | 10   | -       | -        | -      | 0.9983   | -                    | 0.0017       |
| 0.9999      | 11   | 0.2128  | -        | 0.4528 | 0.1524   | -                    | 0.0437       |
| 1.0000      | 12   | 0.1382  | -        | 0.2940 | 0.1719   | -                    | 0.2143       |
| 1.0000      | 13   | -       | -        | -      | -        | 0.9975               | 0.0025       |
| 1.0000      | 14   | -       | -        | -      | -        | 1.0000               | -            |
| 0.9999      | 15   | 0.2375  | 0.1052   | 0.1999 | 0.0902   | 0.1976               | 0.0796       |
| 0.9999      | 16   | 0.2166  | 0.0960   | 0.1821 | 0.1309   | 0.1413               | 0.1028       |
| 0.9998      | 17   | 0.3790  | 0.1757   | 0.2967 | 0.0484   | 0.0069               | 0.0902       |
| 1.0001      | 18   | 0.3793  | 0.1758   | 0.2970 | 0.0479   | 0.0072               | 0.0899       |
| 0.9999      | 19   | 0.3638  | 0.1223   | 0.2079 | 0.0659   | 0.1197               | 0.0761       |
| 1.0000      | 20   | 0.5242  | 0.1763   | 0.2995 | -        | -                    | -            |

**MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
PSC STAFF STUDY**

**FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS**

**FACTOR 1.**

**ALLOCATION OF COSTS THAT VARY WITH THE AMT OF WATER CONSUMED.**

Factors are based on the pro forma test year average daily consumption for each customer classification.

| Customer<br>Classification<br>(1) | Average Daily<br>Consumption,<br>Thousand Gallons<br>(2) | Allocation<br>Factor<br>(3) |
|-----------------------------------|----------------------------------------------------------|-----------------------------|
| Rate A                            | 116,439                                                  | 0.8031                      |
| Rate B                            | 4,911                                                    | 0.0339                      |
| Rate J                            | 22,516                                                   | 0.1553                      |
| Rate D                            | 495                                                      | 0.0034                      |
| Rate H                            | 0                                                        | 0.0000                      |
| Rate F                            | 64                                                       | 0.0004                      |
| Rate E                            | 548                                                      | 0.0038                      |
| Total                             | 144,972                                                  | 0.9999                      |

**FACTOR 2.**

**ALLOCATION OF COSTS ASSOCIATED WITH FACILITIES SERVING BASE AND  
MAXIMUM DAY EXTRA CAPACITY FUNCTIONS.**

Factors are based on the weighting of the factors for average daily consumption (Factor 1) and the factors derived from maximum day extra capacity demand for each customer classification, as follows:

| Customer<br>Classification<br>(1) | Average Daily<br>Consumption  |                                          | Maximum Day<br>Extra Capacity |                                          | Allocation<br>Factor<br>(6)=(3)+(5) |
|-----------------------------------|-------------------------------|------------------------------------------|-------------------------------|------------------------------------------|-------------------------------------|
|                                   | Allocation<br>Factor 1<br>(2) | Weighted<br>Factor<br>(3)=(2)x<br>0.5780 | Allocation<br>Factor<br>(4)   | Weighted<br>Factor<br>(5)=(4)x<br>0.4220 |                                     |
| Rate A                            | 0.8031                        | 0.4642                                   | 0.8983                        | 0.3792                                   | 0.8434                              |
| Rate B                            | 0.0339                        | 0.0196                                   | 0.0303                        | 0.0128                                   | 0.0324                              |
| Rate J                            | 0.1553                        | 0.0898                                   | 0.0695                        | 0.0293                                   | 0.1191                              |
| Rate D                            | 0.0034                        | 0.0020                                   | 0.0019                        | 0.0008                                   | 0.0028                              |
| Rate H                            | 0.0000                        | 0.0000                                   | 0.0000                        | 0.0000                                   | 0.0000                              |
| Rate F                            | 0.0004                        | 0.0002                                   |                               |                                          | 0.0002                              |
| Rate E                            | 0.0038                        | 0.0022                                   |                               |                                          | 0.0022                              |
| Total                             | 0.9999                        | 0.5780                                   | 1.0000                        | 0.4221                                   | 1.0001                              |

The derivation of the maximum day extra capacity factors in column 4 and the basis for the column 3 and 5 weightings are presented on the following page.

**MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
PSC STAFF STUDY**

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 2. MAX DAY CLASS ALLOCATION AND MAX DAY TO AVERAGE DAY**

**MAXIMUM DAY EXTRA CAPACITY FUNCTIONS, cont.**

**MAXIMUM DAY EXTRA CAPACITY FUNCTIONS, cont.**

| Customer<br>Classification<br>(1) | Average Daily<br>Consumption,<br>Thousand Gal.<br>(2) | Maximum Day Extra Capacity |                                                          |                             |
|-----------------------------------|-------------------------------------------------------|----------------------------|----------------------------------------------------------|-----------------------------|
|                                   |                                                       | Factor*                    | Rate of Flow,<br>Thousand Gal.<br>Per Day<br>(4)=(2)x(3) | Allocation<br>Factor<br>(5) |
| Rate A                            | 116,439                                               | 1.0                        | 116,439                                                  | 0.8983                      |
| Rate B                            | 4,911                                                 | 0.8                        | 3,929                                                    | 0.0303                      |
| Rate J                            | 22,516                                                | 0.4                        | 9,006                                                    | 0.0695                      |
| Rate D                            | 495                                                   | 0.5                        | 248                                                      | 0.0019                      |
| Rate H                            | 0                                                     | 0.5                        | 0                                                        | 0.0000                      |
| Total                             | <u>144,360</u>                                        |                            | <u>129,621</u>                                           | <u>1.0000</u>               |

The weighting of the factors is based on the maximum day ratio of 1.73, based on a review of maximum day ratios experienced during the period 1999 through 2006 (see Schedule D and DR #110).

|                               | Maximum<br>Day<br>Ratio | Weight        |
|-------------------------------|-------------------------|---------------|
| Average Day                   | 1.00                    | 0.5780        |
| Maximum Day<br>Extra Capacity | <u>0.73</u>             | <u>0.4220</u> |
| Total                         | <u>1.73</u>             | <u>1.0000</u> |

\* Ratio of maximum day to average day minus 1.0.

**MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
PSC STAFF STUDY**

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 3.**

**ALLOCATION OF COSTS ASSOC. WITH FACILITIES SERVING BASE, MAX DAY EXTRA CAPACITY  
AND FIRE PROTECTION FUNCTIONS.**

Factors are based on the weighting of the average daily consumption, the maximum day extra capacity demand, and the fire protection demand for each customer classification.

| Customer<br>Classification<br>(1) | Average Daily<br>Consumption |                                           | Maximum Day<br>Extra Capacity |                                           | Fire Protection             |                                           | Allocation<br>Factor<br>(8)=(3)+(5)+(7) |
|-----------------------------------|------------------------------|-------------------------------------------|-------------------------------|-------------------------------------------|-----------------------------|-------------------------------------------|-----------------------------------------|
|                                   | Allocation<br>Factor<br>(2)  | Weighted<br>Factor<br>(3)=(2) X<br>0.5555 | Allocation<br>Factor<br>(4)   | Weighted<br>Factor<br>(5)=(4) X<br>0.4056 | Allocation<br>Factor<br>(6) | Weighted<br>Factor<br>(7)=(6) X<br>0.0389 |                                         |
| Rate A                            | 0.8031                       | 0.4460                                    | 0.8983                        | 0.3643                                    |                             |                                           | 0.8104                                  |
| Rate B                            | 0.0339                       | 0.0188                                    | 0.0303                        | 0.0123                                    |                             |                                           | 0.0311                                  |
| Rate J                            | 0.1553                       | 0.0863                                    | 0.0695                        | 0.0282                                    |                             |                                           | 0.1145                                  |
| Rate D                            | 0.0034                       | 0.0019                                    | 0.0019                        | 0.0008                                    |                             |                                           | 0.0027                                  |
| Rate H                            | 0.0000                       | 0.0000                                    | 0.0000                        | 0.0000                                    |                             |                                           | 0.0000                                  |
| Rate F                            | 0.0004                       | 0.0002                                    |                               |                                           | 0.1361                      | 0.0053                                    | 0.0055                                  |
| Rate E                            | 0.0038                       | 0.0021                                    |                               |                                           | 0.8639                      | 0.0336                                    | 0.0357                                  |
| Total                             | <u>0.9999</u>                | <u>0.5553</u>                             | <u>1.0000</u>                 | <u>0.4056</u>                             | <u>1.0000</u>               | <u>0.0389</u>                             | <u>0.9999</u>                           |

**MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
PSC STAFF STUDY**

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 3.** Continued

**ALLOCATION OF COSTS ASSOC. WITH FACILITIES SERVING BASE, MAX DAY EXTRA CAPACITY  
AND FIRE PROTECTION FUNCTIONS.**

The weighting of the factors is based on the potential demand of general and fire protection service. The bases for the potential demand of general service are the maximum day ratio of 1.73 and the average daily system sendout for 2006 of 171.4 MGD. The system demand for fire protection is 20,000 Gallons per minute for 10 hours.

|                               | <u>Ratio</u> | <u>Rate of Flow,<br/>(GPD)</u> | <u>Weight</u> |
|-------------------------------|--------------|--------------------------------|---------------|
| Average Day                   | 1.00         | 171,410,000                    | 0.5555        |
| Maximum Day<br>Extra Capacity | <u>0.73</u>  | <u>125,129,300</u>             | <u>0.4056</u> |
| Subtotal                      | <u>1.73</u>  | 296,539,300                    | 0.9611        |
| Fire Protection               |              | <u>12,000,000</u>              | <u>0.0389</u> |
| Total                         |              | <u>308,539,300</u>             | <u>1.0000</u> |

The public and private fire protection allocation factors in column 6 on the previous page are based on the relative potential demands (see Schedule E).

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 4.**

**ALLOCATION OF COSTS ASSOC. WITH FACILITIES SERVING BASE AND MAX HOUR EXTRA CAPACITY FUNCT'S.**

Factors are based on the weighting of the average daily consumption, the maximum day extra capacity demand, and the fire protection demand for each customer classification.

| Customer<br>Classification | Average Hourly Consumption |                      |                     | Maximum Hour<br>Extra Capacity |                     | Fire Protection      |                     | Allocation<br>Factor |
|----------------------------|----------------------------|----------------------|---------------------|--------------------------------|---------------------|----------------------|---------------------|----------------------|
|                            | Thousand<br>Gallons        | Allocation<br>Factor | Weighted<br>Factor  | Allocation<br>Factor           | Weighted<br>Factor  | Allocation<br>Factor | Weighted<br>Factor  |                      |
| (1)                        | (2)                        | (3)                  | (4)=(3) X<br>0.3014 | (5)                            | (6)=(5) X<br>0.6388 | (7)                  | (8)=(7) X<br>0.0599 | (9)=(4)+(6)+(8)      |
| Rate A                     | 4,851.6                    | 0.8031               | 0.2421              | 0.9052                         | 0.5782              |                      |                     | 0.8203               |
| Rate B                     | 204.6                      | 0.0339               | 0.0102              | 0.0327                         | 0.0209              |                      |                     | 0.0311               |
| Rate J                     | 938.2                      | 0.1553               | 0.0468              | 0.0600                         | 0.0383              |                      |                     | 0.0851               |
| Rate D                     | 20.6                       | 0.0034               | 0.0010              | 0.0022                         | 0.0014              |                      |                     | 0.0024               |
| Rate H                     | 0.0                        | 0.0000               | 0.0000              | 0.0000                         | 0.0000              |                      |                     | 0.0000               |
| Rate F                     | 2.7                        | 0.0004               | 0.0001              |                                |                     | 0.1361               | 0.0082              | 0.0083               |
| Rate E                     | 22.8                       | 0.0038               | 0.0011              |                                |                     | 0.8639               | 0.0517              | 0.0528               |
| Total                      | 6,040.5                    | 0.9999               | 0.3013              | 1.0001                         | 0.6388              | 1.0000               | 0.0599              | 1.0000               |

The maximum hour extra capacity factors in column 5 are determined as follows:

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 4. Continued**

**ALLOCATION OF COSTS ASSOC. WITH FACILITIES SERVING BASE AND MAX HOUR EXTRA CAPACITY FUNCT'S.**

The weighting of the factors is based on the potential demand of general and fire protection service. The bases for the potential demand of general service are the maximum hour ratio of 3.12 and the average daily system sendout for 2006 of 171.4 MGD. The system demand for fire protection is 20,000 gallons per minute.

|                 | <u>Ratio</u> | <u>Rate of Flow,<br/>(GPM)</u> | <u>Weight</u> |
|-----------------|--------------|--------------------------------|---------------|
| Average Hour    | 1.00         | 100,675                        | 0.3014        |
| Maximum Hour    |              |                                |               |
| Extra Capacity  | <u>2.12</u>  | <u>213,343</u>                 | <u>0.6388</u> |
| Subtotal        | <u>3.12</u>  | 314,018                        | 0.9402        |
| Fire Protection |              | <u>20,000</u>                  | <u>0.0599</u> |
| Total           |              | <u>334,018</u>                 | <u>1.0001</u> |

The maximum hour extra capacity factors in column 5 of the previous page are determined as follows:

| <u>Customer<br/>Classification</u><br>(1) | <u>Average<br/>Hourly<br/>Consumption<br/>Thousand Gal.</u><br>(2) | <u>Maximum Hour Extra Capacity</u> |                                                   |                                      |
|-------------------------------------------|--------------------------------------------------------------------|------------------------------------|---------------------------------------------------|--------------------------------------|
|                                           |                                                                    | <u>Factor*</u><br>(3)              | <u>1,000 Gallons<br/>Per Hour<br/>(4)=(2)x(3)</u> | <u>Allocation<br/>Factor<br/>(5)</u> |
| Rate A                                    | 4,851.6                                                            | 3.5                                | 16,980.7                                          | 0.9052                               |
| Rate B                                    | 204.6                                                              | 3.0                                | 613.8                                             | 0.0327                               |
| Rate J                                    | 938.2                                                              | 1.2                                | 1,125.8                                           | 0.0600                               |
| Rate D                                    | 20.6                                                               | 2.0                                | 41.3                                              | 0.0022                               |
| Rate H                                    | <u>0.0</u>                                                         | <u>1.5</u>                         | <u>0.0</u>                                        | <u>0.0000</u>                        |
| Total                                     | <u>6,015.0</u>                                                     |                                    | <u>18,761.5</u>                                   | <u>1.0001</u>                        |

\* Ratio of Maximum Hour To Average Hour Minus 1.0.

The public and private fire protection allocation factors in column 7 on the previous page are based on the relative potential demands (see Schedule E).

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 5.**

**ALLOCATION OF COSTS ASSOCIATED WITH STORAGE FACILITIES.**

Factors are based on the weighting of the average hourly consumption, the maximum hour extra capacity demand, and the fire protection demand for each customer classification.

| Customer<br>Classification | Average Hourly Consumption |                      |                     | Maximum Hour<br>Extra Capacity |                     | Fire Protection      |                     | Allocation<br>Factor |
|----------------------------|----------------------------|----------------------|---------------------|--------------------------------|---------------------|----------------------|---------------------|----------------------|
|                            | Thousand<br>Gallons        | Allocation<br>Factor | Weighted<br>Factor  | Allocation<br>Factor           | Weighted<br>Factor  | Allocation<br>Factor | Weighted<br>Factor  |                      |
| (1)                        | (2)                        | (3)                  | (4)=(3) X<br>0.2848 | (5)                            | (6)=(5) X<br>0.6034 | (7)                  | (8)=(7) X<br>0.1118 | (9)=(4)+(6)+(8)      |
| Rate A                     | 4,851.6                    | 0.8031               | 0.2286              | 0.9052                         | 0.5462              |                      |                     | 0.7748               |
| Rate B                     | 204.6                      | 0.0339               | 0.0097              | 0.0327                         | 0.0197              |                      |                     | 0.0294               |
| Rate J                     | 938.2                      | 0.1553               | 0.0442              | 0.0600                         | 0.0362              |                      |                     | 0.0804               |
| Rate D                     | 20.6                       | 0.0034               | 0.0010              | 0.0022                         | 0.0013              |                      |                     | 0.0023               |
| Rate H                     | 0.0                        | 0.0000               | 0.0000              | 0.0000                         | 0.0000              |                      |                     | 0.0000               |
| Rate F                     | 2.7                        | 0.0004               | 0.0001              |                                |                     | 0.1361               | 0.0152              | 0.0153               |
| Rate E                     | 22.8                       | 0.0038               | 0.0011              |                                |                     | 0.8639               | 0.0966              | 0.0977               |
| Total                      | 6,040.5                    | 0.9999               | 0.2847              | 1.0001                         | 0.6034              | 1.0000               | 0.1118              | 0.9999               |

The weighting of the factors is based on the ratio of the capacity required for a 10 hour demand of fire flow, as related to total storage capacity. The calculation is shown on the following page.

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 5. Continued**

**ALLOCATION OF COSTS ASSOCIATED WITH STORAGE FACILITIES, cont.**

The weighting of the factors is based on the ratio of the capacity required for a 10 hour demand of fire flow, as related to total storage capacity.

$$\text{Fire Protection Weight} = \frac{20,000 \text{ GPM} \times 60 \text{ Min.} \times 10 \text{ Hrs}}{107,320,000 \text{ Gallons}} = 0.1118$$

$$\text{General Service Weight} = 1.0000 - 0.1118 = 0.8882$$

The weighting of the average hourly consumption and maximum hour extra demand for general service is based on the maximum hour ratio, as follows:

|                                | Maximum<br>Hour<br>Ratio | Percent       | Weight        |
|--------------------------------|--------------------------|---------------|---------------|
| Average Hour                   | 1.00                     | 32.06         | 0.2848        |
| Extra Capacity<br>Maximum Hour | 2.12                     | 67.94         | 0.6034        |
| Total                          | <u>3.12</u>              | <u>100.00</u> | <u>0.8882</u> |

| Customer<br>Classification | Average<br>Hourly<br>Consumption<br>Thousand Gal. | Maximum Hour Extra Capacity |                           | Allocation<br>Factor |
|----------------------------|---------------------------------------------------|-----------------------------|---------------------------|----------------------|
|                            |                                                   | Factor*                     | 1,000 Gallons<br>Per Hour |                      |
| (1)                        | (2)                                               | (3)                         | (4)=(2)x(3)               | (5)                  |
| Rate A                     | 4,851.6                                           | 3.5                         | 16,980.7                  | 0.9052               |
| Rate B                     | 204.6                                             | 3.0                         | 613.8                     | 0.0327               |
| Rate J                     | 938.2                                             | 1.2                         | 1,125.8                   | 0.0600               |
| Rate D                     | 20.6                                              | 2.0                         | 41.3                      | 0.0022               |
| Rate H                     | -                                                 | 1.5                         | 0.0                       | 0.0000               |
| Total                      | <u>6,015.0</u>                                    |                             | <u>18,761.5</u>           | <u>1.0001</u>        |

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 6.**

**ALLOCATION OF COSTS ASSOCIATED WITH POWER AND PUMPING FACILITIES.**

Factors are based on the weighting of the maximum daily consumption, Factor 2, the maximum daily consumption with fire, Factor 3, and the maximum hour consumption, Factor 4, for each customer classification, as follows:

| Customer<br>Classification | Maximum Daily<br>Consumption |                    | Maximum Daily<br>Consumption |                    | Maximum Hourly<br>Consumption |                    | Allocation<br>Factor |
|----------------------------|------------------------------|--------------------|------------------------------|--------------------|-------------------------------|--------------------|----------------------|
|                            | Allocation<br>Factor 2       | Weighted<br>Factor | Allocation<br>Factor 3       | Weighted<br>Factor | Allocation<br>Factor 4        | Weighted<br>Factor |                      |
| (1)                        | (2)                          | (3)=(2)X<br>0.7055 | (4)                          | (5)=(4)X<br>0.2945 | (6)                           | (7)=(6)X<br>0.0000 | (8)=(3)+<br>(5)+(7)  |
| Rate A                     | 0.8434                       | 0.5949             | 0.8104                       | 0.2387             | 0.8203                        | 0.0000             | 0.8336               |
| Rate B                     | 0.0324                       | 0.0229             | 0.0311                       | 0.0092             | 0.0311                        | 0.0000             | 0.0321               |
| Rate J                     | 0.1191                       | 0.0840             | 0.1145                       | 0.0337             | 0.0851                        | 0.0000             | 0.1177               |
| Rate D                     | 0.0028                       | 0.0020             | 0.0027                       | 0.0008             | 0.0024                        | 0.0000             | 0.0028               |
| Rate H                     | 0.0000                       | 0.0000             | 0.0000                       | 0.0000             | 0.0000                        | 0.0000             | 0.0000               |
| Rate F                     | 0.0002                       | 0.0001             | 0.0055                       | 0.0016             | 0.0083                        | 0.0000             | 0.0017               |
| Rate E                     | 0.0022                       | 0.0016             | 0.0357                       | 0.0105             | 0.0528                        | 0.0000             | 0.0121               |
| Total                      | <u>1.0001</u>                | <u>0.7055</u>      | <u>0.9999</u>                | <u>0.2945</u>      | <u>1.0000</u>                 | <u>0.0000</u>      | <u>1.0000</u>        |

The weighting of the factors is based on the horsepower of pumps associated with maximum day facilities, maximum day and fire facilities, and maximum hour facilities, as follows:

|                                      | <u>Horsepower<br/>of Pumps</u> | <u>Weight</u> |
|--------------------------------------|--------------------------------|---------------|
| Associated with Maximum Day          | 43,023                         | 0.7055        |
| Associated with Maximum Day and Fire | 17,955                         | 0.2945        |
| Associated with Maximum Hour         | <u>0</u>                       | <u>0.0000</u> |
| Total                                | <u>60,978</u>                  | <u>1.0000</u> |

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 7.**

**ALLOCATION OF COSTS ASSOCIATED WITH TRANSMISSION AND DISTRIBUTION MAINS.**

Factors are based on the weighting of the maximum daily consumption with fire, Factor 3, and the maximum hour consumption, Factor 4, for each customer classification, as follows:

| Customer<br>Classification | Maximum Daily<br>Consumption |                    | Maximum Hourly<br>Consumption |                    | Allocation<br>Factor |
|----------------------------|------------------------------|--------------------|-------------------------------|--------------------|----------------------|
|                            | Allocation<br>Factor 3       | Weighted<br>Factor | Allocation<br>Factor 4        | Weighted<br>Factor |                      |
| (1)                        | (2)                          | (3)=(2)X<br>0.0000 | (4)                           | (5)=(4)X<br>1.0000 | (6)=(3)+(5)          |
| Rate A                     | 0.8104                       | 0.0000             | 0.8203                        | 0.8203             | 0.8203               |
| Rate B                     | 0.0311                       | 0.0000             | 0.0311                        | 0.0311             | 0.0311               |
| Rate J                     | 0.1145                       | 0.0000             | 0.0851                        | 0.0851             | 0.0851               |
| Rate D                     | 0.0027                       | 0.0000             | 0.0024                        | 0.0024             | 0.0024               |
| Rate H                     | 0.0000                       | 0.0000             | 0.0000                        | 0.0000             | 0.0000               |
| Rate F                     | 0.0055                       | 0.0000             | 0.0083                        | 0.0083             | 0.0083               |
| Rate E                     | 0.0357                       | 0.0000             | 0.0528                        | 0.0528             | 0.0528               |
| Total                      | 0.9999                       | 0.0000             | 1.0000                        | 1.0000             | 1.0000               |

The weighting of the factors is based on the total footage of mains, designated as either transmission mains or distribution mains, as follows:

|                    | Total Footage<br>of Mains | Weight |
|--------------------|---------------------------|--------|
| Transmission Mains | 4,219,634                 | 0.0000 |
| Distribution Mains | 17,501,698                | 1.0000 |
| Total              | 21,721,332                | 1.0000 |

|                                                                          |
|--------------------------------------------------------------------------|
| <p><b>ALL ASSIGNED TO MAX HOUR<br/>NO FUNCTIONALIZATION OF MAINS</b></p> |
|--------------------------------------------------------------------------|

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 8.**

**ALLOCATION OF COSTS ASSOCIATED WITH FIRE HYDRANTS.**

Costs are assigned directly to Public Fire.

| <u>Customer<br/>Classification</u><br>(1) | <u>Allocation<br/>Factor</u><br>(3) |
|-------------------------------------------|-------------------------------------|
| Public Fire                               | 1.0000                              |
| Total                                     | <u>1.0000</u>                       |

**FACTOR 9.**

**ALLOCATION OF COSTS ASSOCIATED WITH METERS.**

Factors are based on the relative cost of meters by size and customer classification, as developed on the following page and summarized below.

| <u>Customer<br/>Classification</u><br>(1) | <u>5/8" Dollar<br/>Equivalents</u><br>(2) | <u>Allocation<br/>Factor</u><br>(3) |
|-------------------------------------------|-------------------------------------------|-------------------------------------|
| Rate A                                    | 257,875,086                               | 1.0000                              |
| Rate B                                    | 0                                         | 0.0000                              |
| Rate J                                    | 3,113                                     | 0.0000                              |
| Rate D                                    | 0                                         | 0.0000                              |
| Rate H                                    | 0                                         | 0.0000                              |
| Rate F                                    | 4,474                                     | 0.0000                              |
| Total                                     | <u>257,882,673</u>                        | <u>1.0000</u>                       |

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 10.**

**ALLOCATION OF COSTS ASSOCIATED WITH SERVICES.**

Factors are based on the relative cost of services by size and customer classification, as developed on the following page and summarized below.

| <u>Customer<br/>Classification</u><br>(1) | <u>3/4" Dollar<br/>Equivalents</u><br>(2) | <u>Allocation<br/>Factor</u><br>(3) |
|-------------------------------------------|-------------------------------------------|-------------------------------------|
| Rate A                                    | 9,244,837                                 | 0.9982                              |
| Rate B                                    | 0                                         | 0.0000                              |
| Rate J                                    | 1,940                                     | 0.0002                              |
| Rate D                                    | 0                                         | 0.0000                              |
| Other                                     | 0                                         | 0.0000                              |
| Rate F                                    | 15,847                                    | 0.0017                              |
| Total                                     | <u>9,262,624</u>                          | <u>1.0001</u>                       |

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 11.**

**ALLOCATION OF TRANSMISSION AND DISTRIBUTION OPERATION  
SUPERVISION AND ENGINEERING AND MISCELLANEOUS EXPENSES.**

Factors are based on transmission and distribution operation expenses other than those being allocated, as follows:

| Customer<br>Classification | Transmission<br>& Distribution<br>Operating<br>Expenses | Allocation<br>Factor |
|----------------------------|---------------------------------------------------------|----------------------|
| (1)                        | (2)                                                     | (3)                  |
| Rate A                     | \$ 2,639,697                                            | 0.8722               |
| Rate B                     | 66,720                                                  | 0.0220               |
| Rate J                     | 182,651                                                 | 0.0604               |
| Rate D                     | 5,149                                                   | 0.0017               |
| Rate H                     | -                                                       | 0.0000               |
| Rate F                     | 18,579                                                  | 0.0061               |
| Rate E                     | 113,656                                                 | 0.0376               |
| Total                      | 3,026,451                                               | 1.0000               |

**FACTOR 12.**

**ALLOCATION OF TRANS. DISTRIB. MAINTENANCE SUPERVISION  
AND ENGINEERING, STRUCTURES AND IMPROVE., AND OTHER EXPENSES.**

Factors are based on transmission and distribution maintenance expenses other than those being allocated, as follows:

| Customer<br>Classification | Transmission<br>& Distribution<br>Maintenance<br>Expenses | Allocation<br>Factor |
|----------------------------|-----------------------------------------------------------|----------------------|
| (1)                        | (2)                                                       | (3)                  |
| Rate A                     | \$ 1,282,903                                              | 0.7311               |
| Rate B                     | 25,122                                                    | 0.0143               |
| Rate J                     | 68,806                                                    | 0.0392               |
| Rate D                     | 1,939                                                     | 0.0011               |
| Rate H                     | -                                                         | 0.0000               |
| Rate F                     | 7,373                                                     | 0.0042               |
| Rate E                     | 368,697                                                   | 0.2101               |
| Total                      | \$1,754,840                                               | 1.0000               |

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 13.**

**ALLOCATION OF BILLING AND COLLECTING COSTS.**

Factors are based on the total number of customers.

| Customer<br>Classification<br>(1) | Total<br>Customers<br>(2) | Allocation<br>Factor<br>(3) |
|-----------------------------------|---------------------------|-----------------------------|
| Rate A                            | 1,292,072                 | 0.9962                      |
| Rate B                            | 0                         | 0.0000                      |
| Rate J                            | 1,736                     | 0.0013                      |
| Rate D                            | 0                         | 0.0000                      |
| Rate H                            | 0                         | 0.0000                      |
| Rate F                            | 3,203                     | 0.0025                      |
| Rate E                            | 0                         | 0.0000                      |
| <b>Total</b>                      | <u><u>1,297,012</u></u>   | <u><u>1.0000</u></u>        |

**FACTOR 14.**

**ALLOCATION OF METER READING COSTS.**

Factors are based on the number of metered customers.

| Customer<br>Classification<br>(1) | Total Metered<br>Customers<br>(2) | Allocation<br>Factor<br>(3) |
|-----------------------------------|-----------------------------------|-----------------------------|
| Rate A                            | 1,292,072                         | 0.9987                      |
| Rate B                            | 0                                 | 0.0000                      |
| Rate J                            | 1,736                             | 0.0013                      |
| Rate D                            | 0                                 | 0.0000                      |
| Rate H                            | 0                                 | 0.0000                      |
| <b>Total</b>                      | <u><u>1,293,809</u></u>           | <u><u>1.0000</u></u>        |

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 15.**

**ALLOCATION OF ADMINISTRATIVE AND GENERAL EXPENSES AND CASH  
WORKING CAPITAL.**

Factors are based on the allocation of all other operation and maintenance expenses excluding purchased water, power, chemicals and waste disposal.

| <u>Customer<br/>Classification</u><br>(1) | <u>Operation &amp;<br/>Maintenance<br/>Expenses</u><br>(2) | <u>Allocation<br/>Factor</u><br>(3) |
|-------------------------------------------|------------------------------------------------------------|-------------------------------------|
| Rate A                                    | \$16,738,592                                               | 0.8445                              |
| Rate B                                    | 353,033                                                    | 0.0178                              |
| Rate J                                    | 1,121,917                                                  | 0.0566                              |
| Rate D                                    | 28,756                                                     | 0.0015                              |
| Rate H                                    | 0                                                          | 0.0000                              |
| Rate F                                    | 65,999                                                     | 0.0033                              |
| Rate E                                    | 1,511,531                                                  | 0.0763                              |
| Total                                     | <u>\$19,819,829</u>                                        | <u>1.0000</u>                       |

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 16.**

**ALLOCATION OF LABOR RELATED TAXES AND BENEFITS.**

Factors are based on the allocation of direct labor expense.

| Customer<br>Classification<br><u>(1)</u> | Direct Labor<br>Expense<br><u>(2)</u> | Allocation<br>Factor<br><u>(3)</u> |
|------------------------------------------|---------------------------------------|------------------------------------|
| Rate A                                   | \$11,312,395                          | 0.8281                             |
| Rate B                                   | 221,814                               | 0.0162                             |
| Rate J                                   | 704,536                               | 0.0516                             |
| Rate D                                   | 18,210                                | 0.0013                             |
| Rate H                                   | 0                                     | 0.0000                             |
| Rate F                                   | 41,147                                | 0.0030                             |
| Rate E                                   | <u>1,362,673</u>                      | <u>0.0998</u>                      |
| Total                                    | <u><u>\$13,660,775</u></u>            | <u><u>1.0000</u></u>               |

**FACTOR 17.**

**ALLOCATION OF ORGANIZATION, FRANCHISES AND CONSENTS,  
MISC. INTANGIBLE PLANT AND OTHER RATE BASE ELEMENTS.**

Factors are based on the allocation of the original cost less depreciation other than those items being allocated, as follows:

| Customer<br>Classification<br><u>(1)</u> | Original<br>Cost Less<br>Depreciation<br><u>(2)</u> | Allocation<br>Factor<br><u>(3)</u> |
|------------------------------------------|-----------------------------------------------------|------------------------------------|
| Rate A                                   | \$621,343,071                                       | 0.7905                             |
| Rate B                                   | 21,948,097                                          | 0.0279                             |
| Rate J                                   | 70,042,474                                          | 0.0891                             |
| Rate D                                   | 1,796,851                                           | 0.0023                             |
| Rate H                                   | 0                                                   | 0.0000                             |
| Rate F                                   | 4,254,512                                           | 0.0054                             |
| Rate E                                   | <u>66,612,444</u>                                   | <u>0.0847</u>                      |
| Total                                    | <u><u>\$785,997,449</u></u>                         | <u><u>1.0000</u></u>               |

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 18.**

**ALLOCATION OF INCOME TAXES AND INCOME AVAILABLE FOR RETURN.**

Factors are based on the allocation of the original cost measure of value rate base as shown on the following pages and summarized below.

| Customer<br>Classification<br>(1) | Original<br>Cost Measure<br>of Value<br>(2) | Allocation<br>Factor<br>(3) |
|-----------------------------------|---------------------------------------------|-----------------------------|
| Rate A                            | \$586,686,253                               | 0.7906                      |
| Rate B                            | 20,745,423                                  | 0.0280                      |
| Rate J                            | 66,201,111                                  | 0.0892                      |
| Rate D                            | 1,698,185                                   | 0.0023                      |
| Rate H                            | 0                                           | 0.0000                      |
| Rate F                            | 4,021,820                                   | 0.0054                      |
| Rate E                            | 62,723,816                                  | 0.0845                      |
| Total                             | <u>\$742,076,608</u>                        | <u>1.0000</u>               |

**FACTOR 19.**

**ALLOCATION OF REG. COMMISSION EXPENSES, ASSESSMENTS AND  
OTHER WATER REVENUES.**

The factors are based on the allocation of the total cost of service, excluding those items being allocated.

| Customer<br>Classification<br>(1) | Total Cost<br>of Service<br>(2) | Allocation<br>Factor<br>(3) |
|-----------------------------------|---------------------------------|-----------------------------|
| Rate A                            | \$96,006,003                    | 0.8212                      |
| Rate B                            | 2,677,257                       | 0.0229                      |
| Rate J                            | 9,104,362                       | 0.0779                      |
| Rate D                            | 227,453                         | 0.0019                      |
| Rate H                            | 0                               | 0.0000                      |
| Rate F                            | 443,563                         | 0.0038                      |
| Rate E                            | 8,447,940                       | 0.0723                      |
| Total                             | <u>\$116,906,579</u>            | <u>1.0000</u>               |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
**PSC STAFF STUDY**  
BASIS FOR ALLOCATING METER COSTS TO CUSTOMER CLASSIFICATIONS

| Meter<br>Size | 5/8"<br>Dollar<br>Equivalent | 12                  |                          | 0                   |                          | Rate J              |                          | Rate D              |                           | Rate H              |                            | Rate F                |                            | Total               |                   |
|---------------|------------------------------|---------------------|--------------------------|---------------------|--------------------------|---------------------|--------------------------|---------------------|---------------------------|---------------------|----------------------------|-----------------------|----------------------------|---------------------|-------------------|
|               |                              | Rate A & K          |                          | Rate B              |                          | Rate J              |                          | Rate D              |                           | Rate H              |                            | Rate F                |                            | Total               |                   |
|               |                              | Number of<br>Meters | Weighting<br>(4)=(2)X(3) | Number of<br>Meters | Weighting<br>(6)=(2)X(5) | Number of<br>Meters | Weighting<br>(8)=(2)X(7) | Number of<br>Meters | Weighting<br>(10)=(2)X(9) | Number of<br>Meters | Weighting<br>(12)=(2)X(11) | Number of<br>Services | Weighting<br>(14)=(2)X(13) | Number of<br>Meters | Weighting<br>(16) |
| (1)           | (2)                          | (3)                 | (4)=(2)X(3)              | (5)                 | (6)=(2)X(5)              | (7)                 | (8)=(2)X(7)              | (9)                 | (10)=(2)X(9)              | (11)                | (12)=(2)X(11)              | (13)                  | (14)=(2)X(13)              | (15)                | (16)              |
| 5/8           | 1.0                          | 12                  | 12                       | 0                   | 0                        | 378                 | 378                      | 0                   | 0                         | 0                   | 0                          | 38                    | 38                         | 428                 | 428               |
| 3/4           | 1.2                          | 0                   | 0                        | 0                   | 0                        | 735                 | 882                      | 0                   | 0                         | 0                   | 0                          | 2,095                 | 2,514                      | 2,830               | 3,396             |
| 1             | 1.9                          | 16                  | 30                       | 0                   | 0                        | 425                 | 808                      | 0                   | 0                         | 0                   | 0                          | 30                    | 57                         | 471                 | 894               |
| 1-1/2         | 5.0                          | 8                   | 39                       | 0                   | 0                        | 163                 | 813                      | 0                   | 0                         | 0                   | 0                          | 5                     | 25                         | 175                 | 876               |
| 2             | 6.5                          | 117                 | 762                      | 0                   | 0                        | 36                  | 233                      | 0                   | 0                         | 0                   | 0                          | 23                    | 150                        | 176                 | 1,145             |
| 3             | 36.6                         | 0                   | 0                        | 0                   | 0                        | 0                   | 0                        | 0                   | 0                         | 0                   | 0                          | 5                     | 183                        | 5                   | 183               |
| 4             | 78.8                         | 300                 | 23,678                   | 0                   | 0                        | 0                   | 0                        | 0                   | 0                         | 0                   | 0                          | 6                     | 473                        | 306                 | 24,151            |
| 6             | 147.8                        | 0                   | 0                        | 0                   | 0                        | 0                   | 0                        | 0                   | 0                         | 0                   | 0                          | 7                     | 1,035                      | 7                   | 1,035             |
| 8             | 193.1                        | 1,212,722           | 234,176,701              | 0                   | 0                        | 0                   | 0                        | 0                   | 0                         | 0                   | 0                          | 0                     | 0                          | 1,212,722           | 234,176,701       |
| 10            | 283.8                        | 67,855              | 19,257,233               | 0                   | 0                        | 0                   | 0                        | 0                   | 0                         | 0                   | 0                          | 0                     | 0                          | 67,855              | 19,257,233        |
| 12            | 400.0                        | 11,042              | 4,416,631                | 0                   | 0                        | 0                   | 0                        | 0                   | 0                         | 0                   | 0                          | 0                     | 0                          | 11,042              | 4,416,631         |
| Total         |                              | 1,292,072           | 257,875,086              | 0                   | 0                        | 1,736               | 3,113                    | 0                   | 0                         | 0                   | 0                          | 2,209                 | 4,474                      | 1,296,018           | 257,882,673       |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT  
**PSC STAFF STUDY**

BASIS FOR ALLOCATING SERVICE COSTS TO CUSTOMER CLASSIFICATIONS

| Service<br>Size | 3/4*<br>Dollar<br>Equivalent | Rate A                |                          | Rate B                |                          | Rate J                |                          | Rate D                |                           | Rate H                |                            | Rate F                |                            | Total                 |                   |
|-----------------|------------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|---------------------------|-----------------------|----------------------------|-----------------------|----------------------------|-----------------------|-------------------|
|                 |                              | Number of<br>Services | Weighting<br>(4)=(2)X(3) | Number of<br>Services | Weighting<br>(6)=(2)X(5) | Number of<br>Services | Weighting<br>(8)=(2)X(7) | Number of<br>Services | Weighting<br>(10)=(2)X(9) | Number of<br>Services | Weighting<br>(12)=(2)X(11) | Number of<br>Services | Weighting<br>(14)=(2)X(13) | Number of<br>Services | Weighting<br>(16) |
| (1)             | (2)                          | (3)                   | (4)=(2)X(3)              | (5)                   | (6)=(2)X(5)              | (7)                   | (8)=(2)X(7)              | (9)                   | (10)=(2)X(9)              | (11)                  | (12)=(2)X(11)              | (13)                  | (14)=(2)X(13)              | (15)                  | (16)              |
| 3/4             | 1.00                         | 12                    | 12                       | 0                     | 0                        | 1,113                 | 1,113                    | 0                     | 0                         | 0                     | 0                          | 0                     | 0                          | 1,125                 | 1,125             |
| 1               | 1.17                         | 16                    | 18                       | 0                     | 0                        | 425                   | 497                      | 0                     | 0                         | 0                     | 0                          | 0                     | 0                          | 441                   | 515               |
| 1-1/2           | 1.58                         | 8                     | 12                       | 0                     | 0                        | 163                   | 257                      | 0                     | 0                         | 0                     | 0                          | 0                     | 0                          | 170                   | 269               |
| 2               | 2.04                         | 117                   | 239                      | 0                     | 0                        | 36                    | 73                       | 0                     | 0                         | 0                     | 0                          | 123                   | 251                        | 276                   | 563               |
| 3               | 2.73                         | 0                     | 0                        | 0                     | 0                        | 0                     | 0                        | 0                     | 0                         | 0                     | 0                          | 0                     | 0                          | 0                     | 0                 |
| 4               | 2.88                         | 300                   | 865                      | 0                     | 0                        | 0                     | 0                        | 0                     | 0                         | 0                     | 0                          | 395                   | 1,138                      | 695                   | 2,003             |
| 6               | 4.24                         | 0                     | 0                        | 0                     | 0                        | 0                     | 0                        | 0                     | 0                         | 0                     | 0                          | 1,806                 | 6,809                      | 1,606                 | 6,809             |
| 8               | 6.98                         | 1,212,722             | 8,464,803                | 0                     | 0                        | 0                     | 0                        | 0                     | 0                         | 0                     | 0                          | 952                   | 6,645                      | 1,213,674             | 8,471,448         |
| 10              | 9.50                         | 67,855                | 644,822                  | 0                     | 0                        | 0                     | 0                        | 0                     | 0                         | 0                     | 0                          | 34                    | 323                        | 67,889                | 644,945           |
| 12              | 12.16                        | 11,042                | 134,266                  | 0                     | 0                        | 0                     | 0                        | 0                     | 0                         | 0                     | 0                          | 56                    | 681                        | 11,098                | 134,947           |
| Total           |                              | <u>1,292,072</u>      | <u>9,244,837</u>         | <u>0</u>              | <u>0</u>                 | <u>1,736</u>          | <u>1,940</u>             | <u>0</u>              | <u>0</u>                  | <u>0</u>              | <u>0</u>                   | <u>3,166</u>          | <u>15,847</u>              | <u>1,296,975</u>      | <u>9,262,624</u>  |

MISSOURI-AMERICAN WATER COMPANY  
ST. LOUIS COUNTY DISTRICT

**PSC STAFF STUDY**

BASIS FOR ALLOCATING DEMAND RELATED COSTS OF FIRE SERVICE  
TO PRIVATE AND PUBLIC FIRE PROTECTION CUSTOMER CLASSIFICATIONS

| Description<br>(1)             | Restrictive<br>Diameters<br>Squared<br>(2) | Quantity<br>(3) | Relative<br>Demand<br>(4)=(2)x(3) | Allocation<br>Factor<br>(5) |
|--------------------------------|--------------------------------------------|-----------------|-----------------------------------|-----------------------------|
| <u>PRIVATE FIRE PROTECTION</u> |                                            |                 |                                   |                             |
| Fire Lines                     |                                            |                 |                                   |                             |
| 2 -inch                        | 4.00                                       | 123             | 492                               |                             |
| 3 -inch                        | 9.00                                       | -               | 0                                 |                             |
| 4 -inch                        | 16.00                                      | 395             | 6,320                             |                             |
| 6 -inch                        | 36.00                                      | 1,606           | 57,816                            |                             |
| 8 -inch                        | 64.00                                      | 952             | 60,928                            |                             |
| 10 -inch                       | 100.00                                     | 34              | 3,400                             |                             |
| 12 -inch                       | 144.00                                     | 55              | 7,920                             |                             |
| 20 -inch                       | 400.00                                     | 1               | 400                               |                             |
| Private Hydrants               | 32.75                                      | 37              | 1,212                             |                             |
| Total Rate F                   |                                            | 3,203           | 138,488                           | 0.1361                      |
| <u>PUBLIC FIRE PROTECTION</u>  |                                            |                 |                                   |                             |
| Hydrant                        | Nozzle Sizes                               |                 |                                   |                             |
| 6" Valve                       | 2- 2-1/2" & 1- 4.5"                        | 32.75           | 0                                 | 0                           |
| 6" Valve                       | 2- 2-1/2" & 1- 4"                          | 28.50           | 30,845                            | 879,083                     |
| Total Rate E                   |                                            | 30,845          | 879,083                           | 0.8639                      |
| Total Fire Protection          |                                            | 34,048          | 1,017,570                         | 1.0000                      |

MISSOURI-AMERICAN WATER COMPANY  
BRUNSWICK DISTRICT  
**PSC STAFF STUDY**

COMPARISON OF COST OF SERVICE WITH REVENUES UNDER PRESENT AND PROPOSED RATES  
FOR THE TEST YEAR ENDED DECEMBER 31, 2006

| Customer<br>Classification | Cost of Service |         | Revenues, Present Rates |        | Revenues, Proposed Rates |        | Proposed Increase |                  |
|----------------------------|-----------------|---------|-------------------------|--------|--------------------------|--------|-------------------|------------------|
|                            | Amount          | Percent |                         |        |                          |        | Amount            | Percent Increase |
|                            | (Schedule B)    |         |                         |        |                          |        |                   |                  |
| (1)                        | (2)             | (3)     | (4)                     | (5)    | (6)                      | (7)    | (8)               | (9)              |
| Residential                | \$ 529,164      | 76.8%   | \$ 99,958               | 75.1%  | \$ 538,947               | 77.2%  | \$ 438,989        | 439.2%           |
| Commercial                 | 133,921         | 19.4%   | \$ 24,814               | 18.7%  | \$ 133,921               | 19.2%  | 109,107           | 439.7%           |
| Industrial                 | 1,491           | 0.2%    | \$ 561                  | 0.4%   | \$ 1,491                 | 0.2%   | 930               | 165.8%           |
| Public Authority           | 14,148          | 2.1%    | \$ 3,086                | 2.3%   | \$ 14,148                | 2.0%   | 11,062            | 358.5%           |
| Sales for Resale           | -               | 0.0%    | \$ -                    | 0.0%   | \$ -                     | 0.0%   | -                 | 0.0%             |
| Private Fire Service       | 10,062          | 1.5%    | \$ 4,762                | 3.6%   | \$ 10,062                | 1.4%   | 5,300             | 111.3%           |
| Public Fire Service        | -               | 0.0%    | \$ -                    | 0.0%   | \$ -                     | 0.0%   | -                 | 0.0%             |
| Total Sales                | 688,786         | 100.0%  | 133,181                 | 100.1% | 698,569                  | 100.0% | 565,388           | 424.5%           |
| Other Revenues             | (210)           |         | (210)                   |        | (210)                    |        | -                 | 0.0%             |
| Total                      | \$ 688,576      |         | \$ 132,971              |        | \$ 698,359               |        | \$ 565,388        | 425.2%           |

**Test Year Operating Revenues at Present Rates vs Proposed Rates**  
**12 Month Updated Test Period Ending December 31, 2006**

**Missouri Public Service Commission**  
**Company: Missouri-American Water Company**  
**District: Brunswick**

**Case No. WR-2007-0216**  
**STAFF - BRUNSWICK**  
**Page 1 of 1**

| Line # | Class/<br>Description          | Present Pro Forma Rates |                  | Proposed Pro Forma Rates |                  | Dollar<br>Change | Percentage<br>Change |
|--------|--------------------------------|-------------------------|------------------|--------------------------|------------------|------------------|----------------------|
|        |                                | Sales<br>(000 Gal)      | Total<br>Revenue | Sales<br>(000 Gal)       | Total<br>Revenue |                  |                      |
| 1      |                                |                         |                  |                          |                  |                  |                      |
| 2      | <b>Monthly Billing:</b>        |                         |                  |                          |                  |                  |                      |
| 3      |                                |                         |                  |                          |                  |                  |                      |
| 4      | Residential                    | 17,483                  | \$99,958         | 17,483                   | \$538,947        | \$438,989        | 439.17%              |
| 5      | Commercial                     | 5,124                   | 24,814           | 5,124                    | 133,921          | 109,107          | 439.70%              |
| 6      | Industrial                     | 46                      | 561              | 46                       | 1,491            | 930              | 165.78%              |
| 7      | Other Public Authority         | 559                     | 3,086            | 559                      | 14,148           | 11,062           | 358.46%              |
| 8      | Other Water Utilities          | 0                       | 0                | 0                        | 0                | 0                | 0.00%                |
| 9      | Miscellaneous                  | 0                       | 0                | 0                        | 0                | 0                | 0.00%                |
| 10     | Private Fire                   | 0                       | 4,762            | 0                        | 10,062           | 5,300            | 111.30%              |
| 11     | Public Fire                    | 0                       | 0                | 0                        | 0                | 0                | 0.00%                |
| 12     | <b>Total</b>                   | <b>23,212</b>           | <b>133,181</b>   | <b>23,212</b>            | <b>698,569</b>   | <b>\$565,388</b> | <b>424.53%</b>       |
| 13     |                                |                         |                  |                          |                  |                  |                      |
| 14     |                                |                         |                  |                          |                  |                  |                      |
| 15     | <b>Miscellaneous Revenues:</b> |                         |                  |                          |                  |                  |                      |
| 16     |                                |                         |                  |                          |                  |                  |                      |
| 17     | Other Revenue                  |                         | 210              |                          | 210              | 0                | 0.00%                |
| 18     | Returned Check Charge          |                         |                  |                          | 0                | 0                | 0.00%                |
| 19     | Application Fee                |                         |                  |                          | 0                | 0                | 0.00%                |
| 20     | Miscellaneous Other Revenue    |                         |                  |                          | 0                | 0                | 0.00%                |
| 21     | Rents from Water Property      |                         |                  |                          | 0                | 0                | 0.00%                |
| 22     |                                |                         |                  |                          |                  |                  |                      |
| 23     |                                |                         |                  |                          |                  |                  |                      |
| 24     |                                |                         | <b>\$133,391</b> |                          | <b>\$698,779</b> | <b>565,388</b>   | <b>423.86%</b>       |
| 25     |                                |                         |                  |                          |                  |                  |                      |
| 26     |                                |                         |                  |                          |                  |                  |                      |
| 27     |                                |                         |                  |                          |                  |                  |                      |
| 28     |                                |                         |                  |                          |                  |                  |                      |
| 29     |                                |                         |                  |                          |                  |                  |                      |
| 30     |                                |                         |                  |                          |                  |                  |                      |
| 31     |                                |                         |                  |                          |                  |                  |                      |
| 32     |                                |                         |                  |                          |                  |                  |                      |
| 33     |                                |                         |                  |                          |                  |                  |                      |
| 34     |                                |                         |                  |                          |                  |                  |                      |
| 35     |                                |                         |                  |                          |                  |                  |                      |
| 36     |                                |                         |                  |                          |                  |                  |                      |
| 37     |                                |                         |                  |                          |                  |                  |                      |
| 38     |                                |                         |                  |                          |                  |                  |                      |
| 39     |                                |                         |                  |                          |                  |                  |                      |
| 40     |                                |                         |                  |                          |                  |                  |                      |

# Test Year Operating Revenues at Present Rates vs Proposed Rates

12 Month Updated Test Period Ending December 31, 2006

Missouri Public Service Commission  
Company: Missouri-American Water Company  
District: Brunswick

Case No. WR-2007-0216

STAFF - BRUNSWICK

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| Line # | Class/<br>Description      | Present Pro Forma Rates       |                    |                 |                  | Proposed Pro Forma Rates      |                    |                  |                  | Dollar<br>Change | Percentage<br>Change |
|--------|----------------------------|-------------------------------|--------------------|-----------------|------------------|-------------------------------|--------------------|------------------|------------------|------------------|----------------------|
|        |                            | Customer<br>Meter<br>Billings | Sales<br>(000 Gal) | Current<br>Rate | Total<br>Revenue | Customer<br>Meter<br>Billings | Sales<br>(000 Gal) | Proposed<br>Rate | Total<br>Revenue |                  |                      |
| 1      |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 2      | <b>Residential:</b>        |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 3      | <u>Minimum Charge:</u>     |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 4      | 5/8" Monthly               | 4,374                         |                    | \$7.08          | \$30,970         | 4,374                         |                    | \$ 1.38          | \$6,048          | (\$24,922)       | -80.47%              |
| 5      | 3/4" Monthly               | 0                             |                    | \$9.06          | 0                | 0                             |                    | \$ 1.44          | 0                | 0                | 0.00%                |
| 6      | 1" Monthly                 | 23                            |                    | \$12.84         | 294              | 23                            |                    | \$ 1.57          | 36               | (258)            | -87.76%              |
| 7      | 1-1/2" Monthly             | 0                             |                    | \$22.33         | 0                | 0                             |                    | \$ 2.03          | 0                | 0                | 0.00%                |
| 8      | 2" Monthly                 | 31                            |                    | \$33.71         | 1,058            | 31                            |                    | \$ 2.31          | 73               | (985)            | -93.10%              |
| 9      | 3" Monthly                 | 0                             |                    | \$60.24         | 0                | 0                             |                    | \$ 5.32          | 0                | 0                | 0.00%                |
| 10     | 4" Monthly                 | 0                             |                    | \$98.15         | 0                | 0                             |                    | \$ 7.33          | 0                | 0                | 0.00%                |
| 11     | 6" Monthly                 | 0                             |                    | \$192.93        | 0                | 0                             |                    | \$ 11.37         | 0                | 0                | 0.00%                |
| 12     | 8" Monthly                 | 0                             |                    | \$306.65        | 0                | 0                             |                    | \$ 24.48         | 0                | 0                | 0.00%                |
| 13     | 10" Monthly                | 0                             |                    | \$520.92        | 0                | 0                             |                    | 0.00             | 0                | 0                | 0.00%                |
| 14     | 12" Monthly                | 0                             |                    | \$859.27        | 0                | 0                             |                    | 0.00             | 0                | 0                | 0.00%                |
| 15     |                            | 4,429                         |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 16     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 17     | <u>Volumetric Charges:</u> |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 18     | First Block                |                               | 17,424             | \$3.8744        | 67,507           |                               | 17,424             | \$30.4741        | 530,979          | 463,472          | 686.55%              |
| 19     | Second Block               |                               | 59                 | \$2.1704        | 129              |                               | 59                 | \$30.4741        | 1,811            | 1,682            | 1303.88%             |
| 20     | Third Block                |                               | 0                  | \$1.6750        | 0                |                               | 0                  | \$30.4741        | 0                | 0                | 0.00%                |
| 21     | Fourth Block               |                               | 0                  | \$1.1280        | 0                |                               | 0                  | \$30.4741        | 0                | 0                | 0.00%                |
| 22     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 23     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 24     | Total                      |                               | <u>17,483</u>      |                 | <u>\$99,958</u>  |                               | <u>17,483</u>      |                  | <u>\$538,947</u> | <u>\$438,989</u> | <u>439.17%</u>       |
| 25     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 26     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 27     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 28     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 29     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 30     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 31     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 32     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 33     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 34     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 35     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 36     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 37     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 38     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 39     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 40     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates**

12 Month Updated Test Period Ending December 31, 2006

**Missouri Public Service Commission**  
**Company: Missouri-American Water Company**  
**District: Brunswick**

**Case No. WR-2007-0216**

**STAFF - BRUNSWICK**

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| Line # | Class/<br>Description      | Present Pro Forma Rates       |                    |                 |                  | Proposed Pro Forma Rates      |                    |                  |                  | Dollar<br>Change | Percentage<br>Change |
|--------|----------------------------|-------------------------------|--------------------|-----------------|------------------|-------------------------------|--------------------|------------------|------------------|------------------|----------------------|
|        |                            | Customer<br>Meter<br>Billings | Sales<br>(000 Gal) | Current<br>Rate | Total<br>Revenue | Customer<br>Meter<br>Billings | Sales<br>(000 Gal) | Proposed<br>Rate | Total<br>Revenue |                  |                      |
| 1      |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 2      | <b>Commercial:</b>         |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 3      | <u>Minimum Charge:</u>     |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 4      | 5/8" Monthly               | 776                           |                    | \$7.08          | \$5,493          | 776                           |                    | \$ 1.38          | \$1,073          | (\$4,420)        | -80.47%              |
| 5      | 3/4" Monthly               | 0                             |                    | 9.06            | 0                | 0                             |                    | \$ 1.44          | 0                | 0                | 0.00%                |
| 6      | 1" Monthly                 | 75                            |                    | 12.84           | 962              | 75                            |                    | \$ 1.57          | 117              | (845)            | -87.84%              |
| 7      | 1-1/2" Monthly             | 0                             |                    | 22.33           | 0                | 0                             |                    | \$ 2.03          | 0                | 0                | 0.00%                |
| 8      | 2" Monthly                 | 26                            |                    | 33.71           | 866              | 26                            |                    | \$ 2.31          | 59               | (807)            | -93.19%              |
| 9      | 3" Monthly                 | 0                             |                    | 60.24           | 0                | 0                             |                    | \$ 5.32          | 0                | 0                | 0.00%                |
| 10     | 4" Monthly                 | 0                             |                    | 98.15           | 0                | 0                             |                    | \$ 7.33          | 0                | 0                | 0.00%                |
| 11     | 6" Monthly                 | 0                             |                    | 192.93          | 0                | 0                             |                    | \$ 11.37         | 0                | 0                | 0.00%                |
| 12     | 8" Monthly                 | 0                             |                    | 306.65          | 0                | 0                             |                    | \$ 24.48         | 0                | 0                | 0.00%                |
| 13     | 10" Monthly                | 0                             |                    | 520.92          | 0                | 0                             |                    | 0.00             | 0                | 0                | 0.00%                |
| 14     | 12" Monthly                | 0                             |                    | 859.27          | 0                | 0                             |                    | 0.00             | 0                | 0                | 0.00%                |
| 15     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 16     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 17     | <u>Volumetric Charges:</u> |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 18     | First Block                |                               | 4,593              | \$3.5768        | 16,427           |                               | 4,593              | \$25.8898        | 118,901          | 102,474          | 623.81%              |
| 19     | Second Block               |                               | 532                | \$2.0038        | 1,066            |                               | 532                | \$25.8898        | 13,771           | 12,705           | 1191.84%             |
| 20     | Third Block                |                               | 0                  | \$1.5464        | 0                |                               | 0                  | 25.8898          | 0                | 0                | 0.00%                |
| 21     | Fourth Block               |                               | 0                  | \$1.0413        | 0                |                               | 0                  | 25.8898          | 0                | 0                | 0.00%                |
| 22     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 23     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 24     | Total                      |                               | <u>5,124</u>       |                 | <u>\$24,814</u>  |                               | <u>5,124</u>       |                  | <u>\$133,921</u> | <u>\$109,107</u> | <u>439.70%</u>       |
| 25     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 26     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 27     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 28     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 29     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 30     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 31     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 32     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 33     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 34     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 35     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 36     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 37     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 38     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 39     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 40     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates**

12 Month Updated Test Period Ending December 31, 2006

Missouri Public Service Commission  
 Company: Missouri-American Water Company  
 District: Brunswick

Case No. WR-2007-0216

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| Line # | Class/<br>Description      | Present Pro Forma Rates       |                    |                 |                  | Proposed Pro Forma Rates      |                    |                  |                  | Dollar<br>Change | Percentage<br>Change |
|--------|----------------------------|-------------------------------|--------------------|-----------------|------------------|-------------------------------|--------------------|------------------|------------------|------------------|----------------------|
|        |                            | Customer<br>Meter<br>Billings | Sales<br>(000 Gal) | Current<br>Rate | Total<br>Revenue | Customer<br>Meter<br>Billings | Sales<br>(000 Gal) | Proposed<br>Rate | Total<br>Revenue |                  |                      |
| 1      |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 2      | <b>Industrial:</b>         |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 3      | <u>Minimum Charge:</u>     |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 4      | 5/8" Monthly               | 0                             |                    | \$7.08          | \$0              | 0                             |                    | \$ 1.38          | \$0              | \$0              | 0.00%                |
| 5      | 3/4" Monthly               | 0                             |                    | 9.06            | 0                | 0                             |                    | \$ 1.44          | 0                | 0                | 0.00%                |
| 6      | 1" Monthly                 | 24                            |                    | 12.84           | 308              | 24                            |                    | \$ 1.57          | 38               | (270)            | -87.66%              |
| 7      | 1-1/2" Monthly             | 0                             |                    | 22.33           | 0                | 0                             |                    | \$ 2.03          | 0                | 0                | 0.00%                |
| 8      | 2" Monthly                 | 0                             |                    | 33.71           | 0                | 0                             |                    | \$ 2.31          | 0                | 0                | 0.00%                |
| 9      | 3" Monthly                 | 0                             |                    | 60.24           | 0                | 0                             |                    | \$ 5.32          | 0                | 0                | 0.00%                |
| 10     | 4" Monthly                 | 0                             |                    | 98.15           | 0                | 0                             |                    | \$ 7.33          | 0                | 0                | 0.00%                |
| 11     | 6" Monthly                 | 0                             |                    | 192.93          | 0                | 0                             |                    | \$ 11.37         | 0                | 0                | 0.00%                |
| 12     | 8" Monthly                 | 0                             |                    | 306.65          | 0                | 0                             |                    | \$ 24.48         | 0                | 0                | 0.00%                |
| 13     | 10" Monthly                | 0                             |                    | 520.92          | 0                | 0                             |                    | 0.00             | 0                | 0                | 0.00%                |
| 14     | 12" Monthly                | 0                             |                    | 859.27          | 0                | 0                             |                    | 0.00             | 0                | 0                | 0.00%                |
| 15     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 16     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 17     | <u>Volumetric Charges:</u> |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 18     | First Block                |                               | 46                 | \$5.5215        | 253              |                               | 45.9               | \$31.6588        | 1,453            | 1,200            | 474.31%              |
| 19     | Second Block               |                               | 0                  | \$3.0931        | 0                |                               | 0                  | 31.6588          | 0                | 0                | 0.00%                |
| 20     | Third Block                |                               | 0                  | \$2.3870        | 0                |                               | 0                  | 31.6588          | 0                | 0                | 0.00%                |
| 21     | Fourth Block               |                               | 0                  | \$1.6075        | 0                |                               | 0                  | 31.6588          | 0                | 0                | 0.00%                |
| 22     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 23     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 24     | Total                      |                               | <u>46</u>          |                 | <u>\$561</u>     |                               | <u>46</u>          |                  | <u>\$1,491</u>   | <u>\$930</u>     | <u>165.78%</u>       |
| 25     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 26     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 27     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 28     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 29     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 30     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 31     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 32     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 33     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 34     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 35     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 36     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 37     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 38     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 39     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 40     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates**

12 Month Updated Test Period Ending December 31, 2006

**Missouri Public Service Commission**  
**Company: Missouri-American Water Company**  
**District: Brunswick**

**Case No. WR-2007-0216**

**STAFF - BRUNSWICK**

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| Line # | Class/<br>Description   | Present Pro Forma Rates       |                                |                 |                  | Proposed Pro Forma Rates      |                                |                  |                  | Dollar<br>Change | Percentage<br>Change |
|--------|-------------------------|-------------------------------|--------------------------------|-----------------|------------------|-------------------------------|--------------------------------|------------------|------------------|------------------|----------------------|
|        |                         | Customer<br>Meter<br>Billings | Sales<br>( <sup>000</sup> Gal) | Current<br>Rate | Total<br>Revenue | Customer<br>Meter<br>Billings | Sales<br>( <sup>000</sup> Gal) | Proposed<br>Rate | Total<br>Revenue |                  |                      |
| 1      |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 2      | Other Public Authority: |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 3      | Minimum Charge:         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 4      | 5/8" Monthly            | 60                            |                                | \$7.08          | \$424            | 60                            |                                | \$ 1.38          | \$83             | (\$341)          | -80.42%              |
| 5      | 3/4" Monthly            | 0                             |                                | 9.06            | 0                | 0                             |                                | \$ 1.44          | 0                | 0                | 0.00%                |
| 6      | 1" Monthly              | 0                             |                                | 12.84           | 0                | 0                             |                                | \$ 1.57          | 0                | 0                | 0.00%                |
| 7      | 1-1/2" Monthly          | 0                             |                                | 22.33           | 0                | 0                             |                                | \$ 2.03          | 0                | 0                | 0.00%                |
| 8      | 2" Monthly              | 12                            |                                | 33.71           | 405              | 12                            |                                | \$ 2.31          | 28               | (377)            | -93.09%              |
| 9      | 3" Monthly              | 0                             |                                | 60.24           | 0                | 0                             |                                | \$ 5.32          | 0                | 0                | 0.00%                |
| 10     | 4" Monthly              | 0                             |                                | 98.15           | 0                | 0                             |                                | \$ 7.33          | 0                | 0                | 0.00%                |
| 11     | 6" Monthly              | 0                             |                                | 192.93          | 0                | 0                             |                                | \$ 11.37         | 0                | 0                | 0.00%                |
| 12     | 8" Monthly              | 0                             |                                | 306.65          | 0                | 0                             |                                | \$ 24.48         | 0                | 0                | 0.00%                |
| 13     | 10" Monthly             | 0                             |                                | 520.92          | 0                | 0                             |                                | 0.00             | 0                | 0                | 0.00%                |
| 14     | 12" Monthly             | 0                             |                                | 859.27          | 0                | 0                             |                                | 0.00             | 0                | 0                | 0.00%                |
| 15     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 16     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 17     | Volumetric Charges:     |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 18     | First Block             |                               | 558.6                          | \$4.0402        | 2,257            |                               | 558.6                          | \$25.1295        | 14,037           | 11,780           | 521.93%              |
| 19     | Second Block            |                               | 0                              | \$2.2633        | 0                |                               | 0                              | 25.1295          | 0                | 0                | 0.00%                |
| 20     | Third Block             |                               | 0                              | \$1.7467        | 0                |                               | 0                              | 25.1295          | 0                | 0                | 0.00%                |
| 21     | Fourth Block            |                               | 0                              | \$1.1762        | 0                |                               | 0                              | 25.1295          | 0                | 0                | 0.00%                |
| 22     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 23     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 24     | Total                   |                               | <u>559</u>                     |                 | <u>\$3,086</u>   |                               | <u>559</u>                     |                  | <u>\$14,148</u>  | <u>\$11,062</u>  | <u>358.46%</u>       |
| 25     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 26     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 27     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 28     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 29     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 30     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 31     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 32     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 33     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 34     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 35     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 36     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 37     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 38     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 39     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |
| 40     |                         |                               |                                |                 |                  |                               |                                |                  |                  |                  |                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates**

12 Month Updated Test Period Ending December 31, 2006

Missouri Public Service Commission  
Company: Missouri-American Water Company  
District: Brunswick

Case No. WR-2007-0216

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| Line # | Class/<br>Description         | Present Pro Forma Rates       |                                 |                 |                  | Proposed Pro Forma Rates      |                                 |                  |                  | Dollar<br>Change | Percentage<br>Change |
|--------|-------------------------------|-------------------------------|---------------------------------|-----------------|------------------|-------------------------------|---------------------------------|------------------|------------------|------------------|----------------------|
|        |                               | Customer<br>Meter<br>Billings | Sales<br>( <sup>'000</sup> Gal) | Current<br>Rate | Total<br>Revenue | Customer<br>Meter<br>Billings | Sales<br>( <sup>'000</sup> Gal) | Proposed<br>Rate | Total<br>Revenue |                  |                      |
| 1      |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 2      | <b>Other Water Utilities:</b> |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 3      | <u>Minimum Charge:</u>        |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 4      | 5/8" Monthly                  | 0                             |                                 | \$7.08          | \$0              | 0                             |                                 | \$ 1.38          | \$0              | \$0              | 0.00%                |
| 5      | 3/4" Monthly                  | 0                             |                                 | \$9.06          | 0                | 0                             |                                 | \$ 1.44          | 0                | 0                | 0.00%                |
| 6      | 1" Monthly                    | 0                             |                                 | \$12.84         | 0                | 0                             |                                 | \$ 1.57          | 0                | 0                | 0.00%                |
| 7      | 1-1/2" Monthly                | 0                             |                                 | \$22.33         | 0                | 0                             |                                 | \$ 2.03          | 0                | 0                | 0.00%                |
| 8      | 2" Monthly                    | 0                             |                                 | \$33.71         | 0                | 0                             |                                 | \$ 2.31          | 0                | 0                | 0.00%                |
| 9      | 3" Monthly                    | 0                             |                                 | \$60.24         | 0                | 0                             |                                 | \$ 5.32          | 0                | 0                | 0.00%                |
| 10     | 4" Monthly                    | 0                             |                                 | \$98.15         | 0                | 0                             |                                 | \$ 7.33          | 0                | 0                | 0.00%                |
| 11     | 6" Monthly                    | 0                             |                                 | \$192.93        | 0                | 0                             |                                 | \$ 11.37         | 0                | 0                | 0.00%                |
| 12     | 8" Monthly                    | 0                             |                                 | \$306.65        | 0                | 0                             |                                 | \$ 24.48         | 0                | 0                | 0.00%                |
| 13     | 10" Monthly                   | 0                             |                                 | \$520.92        | 0                | 0                             |                                 | 0.00             | 0                | 0                | 0.00%                |
| 14     | 12" Monthly                   | 0                             |                                 | \$859.27        | 0                | 0                             |                                 | 0.00             | 0                | 0                | 0.00%                |
| 15     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 16     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 17     | <u>Volumetric Charges:</u>    |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 18     | First Block                   |                               | 0.0                             | \$6.4180        | 0                |                               | 0                               |                  | 0                | 0                | 0.00%                |
| 19     | Second Block                  |                               | 0.0                             | \$3.5954        | 0                |                               | 0                               |                  | 0                | 0                | 0.00%                |
| 20     | Third Block                   |                               | 0                               | \$2.7747        | 0                |                               | 0                               |                  | 0                | 0                | 0.00%                |
| 21     | Fourth Block                  |                               | 0                               | \$1.8685        | 0                |                               | 0                               |                  | 0                | 0                | 0.00%                |
| 22     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 23     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 24     | Total                         |                               | <u>0</u>                        |                 | <u>\$0</u>       |                               | <u>0</u>                        |                  | <u>\$0</u>       | <u>\$0</u>       | <u>0.00%</u>         |
| 25     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 26     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 27     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 28     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 29     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 30     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 31     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 32     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 33     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 34     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 35     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 36     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 37     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 38     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 39     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |
| 40     |                               |                               |                                 |                 |                  |                               |                                 |                  |                  |                  |                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates**

12 Month Updated Test Period Ending December 31, 2006

Missouri Public Service Commission  
 Company: Missouri-American Water Company  
 District: Brunswick

Case No. WR-2007-0216

STAFF - BRUNSWICK

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| Line # | Class/<br>Description      | Present Pro Forma Rates       |                    |                 |                  | Proposed Pro Forma Rates      |                    |                  |                  | Dollar<br>Change | Percentage<br>Change |
|--------|----------------------------|-------------------------------|--------------------|-----------------|------------------|-------------------------------|--------------------|------------------|------------------|------------------|----------------------|
|        |                            | Customer<br>Meter<br>Billings | Sales<br>(000 Gal) | Current<br>Rate | Total<br>Revenue | Customer<br>Meter<br>Billings | Sales<br>(000 Gal) | Proposed<br>Rate | Total<br>Revenue |                  |                      |
| 1      |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 2      | <b>Miscellaneous:</b>      |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 3      | <u>Minimum Charge:</u>     |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 4      | 5/8" Monthly               | 0                             |                    | \$0.00          | \$0              | 0                             |                    | \$ 1.38          | \$0              | \$0              | 0.00%                |
| 5      | 3/4" Monthly               | 0                             |                    | 0.00            | 0                | 0                             |                    | \$ 1.44          | 0                | 0                | 0.00%                |
| 6      | 1" Monthly                 | 0                             |                    | 0.00            | 0                | 0                             |                    | \$ 1.57          | 0                | 0                | 0.00%                |
| 7      | 1-1/2" Monthly             | 0                             |                    | 0.00            | 0                | 0                             |                    | \$ 2.03          | 0                | 0                | 0.00%                |
| 8      | 2" Monthly                 | 0                             |                    | 0.00            | 0                | 0                             |                    | \$ 2.31          | 0                | 0                | 0.00%                |
| 9      | 3" Monthly                 | 0                             |                    | 0.00            | 0                | 0                             |                    | \$ 5.32          | 0                | 0                | 0.00%                |
| 10     | 4" Monthly                 | 0                             |                    | 0.00            | 0                | 0                             |                    | \$ 7.33          | 0                | 0                | 0.00%                |
| 11     | 6" Monthly                 | 0                             |                    | 0.00            | 0                | 0                             |                    | \$ 11.37         | 0                | 0                | 0.00%                |
| 12     | 8" Monthly                 | 0                             |                    | 0.00            | 0                | 0                             |                    | \$ 24.48         | 0                | 0                | 0.00%                |
| 13     | 10" Monthly                | 0                             |                    | 0.00            | 0                | 0                             |                    | 0.00             | 0                | 0                | 0.00%                |
| 14     | 12" Monthly                | 0                             |                    | 0.00            | 0                | 0                             |                    | 0.00             | 0                | 0                | 0.00%                |
| 15     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 16     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 17     | <u>Volumetric Charges:</u> |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 18     | First Block                |                               | 0                  | \$0.0000        | 0                |                               | 0                  | \$0.0000         | 0                | 0                | 0.00%                |
| 19     | Second Block               |                               | 0                  | 0.0000          | 0                |                               | 0                  | 0.0000           | 0                | 0                | 0.00%                |
| 20     | Third Block                |                               | 0                  | 0.0000          | 0                |                               | 0                  | 0.0000           | 0                | 0                | 0.00%                |
| 21     | Fourth Block               |                               | 0                  | 0.0000          | 0                |                               | 0                  | 0.0000           | 0                | 0                | 0.00%                |
| 22     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 23     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 24     | Total                      |                               | <u>0</u>           |                 | <u>\$0</u>       |                               | <u>0</u>           |                  | <u>\$0</u>       | <u>\$0</u>       | <u>0.00%</u>         |
| 25     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 26     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 27     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 28     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 29     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 30     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 31     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 32     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 33     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 34     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 35     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 36     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 37     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 38     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 39     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |
| 40     |                            |                               |                    |                 |                  |                               |                    |                  |                  |                  |                      |

**Test Year Operating Revenues at Present Rates vs Proposed Rates  
12 Month Updated Test Period Ending December 31, 2006**

Missouri Public Service Commission  
Company: Missouri-American Water Company  
District: Brunswick

Case No. WR-2007-0216  
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| Line # | Connection Size                | Number of Connections | Present Rates |                | Proposed Rates |                 | Dollar Change  | Percentage Change |
|--------|--------------------------------|-----------------------|---------------|----------------|----------------|-----------------|----------------|-------------------|
|        |                                |                       | Annual Rate   | Total Revenue  | Annual Rate    | Total Revenue   |                |                   |
| 1      |                                |                       |               |                |                |                 |                |                   |
| 2      | <b>Private Fire Service:</b>   |                       |               |                |                |                 |                |                   |
| 3      |                                |                       |               |                |                |                 |                |                   |
| 4      | Private Fire Hydrant           | 3.00                  | \$1,252.68    | \$3,758        | 2,646.87       | \$7,941         | \$4,183        | 111.31%           |
| 5      |                                |                       |               |                |                |                 |                |                   |
| 6      | 2"                             | 0.00                  | 179.52        | 0              | 379.32         | 0               | 0              | 0.00%             |
| 7      |                                |                       |               |                |                |                 |                |                   |
| 8      | 3"                             | 0.00                  | 308.52        | 0              | 651.89         | 0               | 0              | 0.00%             |
| 9      |                                |                       |               |                |                |                 |                |                   |
| 10     | 4"                             | 0.00                  | 489.48        | 0              | 1,034.25       | 0               | 0              | 0.00%             |
| 11     |                                |                       |               |                |                |                 |                |                   |
| 12     | 6"                             | 1.00                  | 1,003.80      | 1,004          | 2,120.99       | 2,121           | 1,117          | 111.25%           |
| 13     |                                |                       |               |                |                |                 |                |                   |
| 14     | 8"                             | 0.00                  | 1,727.16      | 0              | 3,649.43       | 0               | 0              | 0.00%             |
| 15     |                                |                       |               |                |                |                 |                |                   |
| 16     | 10"                            | 0.00                  | 2,654.88      | 0              | 5,609.67       | 0               | 0              | 0.00%             |
| 17     |                                |                       |               |                |                |                 |                |                   |
| 18     | 12"                            | 0.00                  | 3,785.40      | 0              | 7,998.42       | 0               | 0              | 0.00%             |
| 19     |                                |                       |               |                |                |                 |                |                   |
| 20     |                                |                       |               |                |                |                 |                |                   |
| 21     |                                |                       |               |                |                |                 |                |                   |
| 22     | Total                          | <u>4.00</u>           |               | <u>\$4,762</u> |                | <u>\$10,062</u> | <u>\$5,300</u> | <u>111.30%</u>    |
| 23     |                                |                       |               |                |                |                 |                |                   |
| 24     |                                |                       |               |                |                |                 |                |                   |
| 25     |                                |                       |               |                |                |                 |                |                   |
| 26     | <b>Public Fire Protection:</b> |                       |               |                |                |                 |                |                   |
| 27     |                                |                       |               |                |                |                 |                |                   |
| 28     | Public Fire Hydrants           | <u>58</u>             | 0.00          | <u>0</u>       | 58.00          | <u>0</u>        | <u>0</u>       | <u>0.00%</u>      |
| 29     |                                |                       |               |                |                |                 |                |                   |
| 30     |                                |                       |               |                |                |                 |                |                   |
| 31     |                                |                       |               |                |                |                 |                |                   |
| 32     |                                |                       |               |                |                |                 |                |                   |
| 33     |                                |                       |               |                |                |                 |                |                   |
| 34     |                                |                       |               |                |                |                 |                |                   |
| 35     |                                |                       |               |                |                |                 |                |                   |
| 36     |                                |                       |               |                |                |                 |                |                   |
| 37     |                                |                       |               |                |                |                 |                |                   |
| 38     |                                |                       |               |                |                |                 |                |                   |
| 39     |                                |                       |               |                |                |                 |                |                   |
| 40     |                                |                       |               |                |                |                 |                |                   |

MISSOURI-AMERICAN WATER COMPANY  
BRUNSWICK DISTRICT  
COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2006, ALLOCATED TO CUSTOMER CLASSIFICATIONS  
**PSC STAFF STUDY**

| Account<br>(1)                            | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Residential<br>(4) | Commercial<br>(5) | Industrial<br>(6) | Public<br>Authorities<br>(7) | Sales for<br>Resale<br>(8) | Fire Protection |                |
|-------------------------------------------|-----------------------|---------------------------|--------------------|-------------------|-------------------|------------------------------|----------------------------|-----------------|----------------|
|                                           |                       |                           |                    |                   |                   |                              |                            | Private<br>(9)  | Public<br>(10) |
| <b>OPERATION AND MAINTENANCE EXPENSES</b> |                       |                           |                    |                   |                   |                              |                            |                 |                |
| <b>SOURCE OF SUPPLY EXPENSES</b>          |                       |                           |                    |                   |                   |                              |                            |                 |                |
| Super & Eng Oper SS                       | 2                     | \$ 4,331                  | \$ 3,308           | \$ 878            | \$ 8              | \$ 95                        | \$ -                       | \$ 6            | \$ 37          |
| Labor & Exp Oper SS                       | 2                     | 141                       |                    |                   |                   |                              |                            |                 |                |
| Labor & Exp Oper SS                       | 2                     | 50                        | 39                 | 10                | 0                 | 1                            | 0                          | 0               | 0              |
| Purchased Water                           | 1                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| <b>TOTAL SS EXPENSE - OPERATION</b>       |                       | <b>4,523</b>              | <b>3,347</b>       | <b>888</b>        | <b>8</b>          | <b>96</b>                    | <b>0</b>                   | <b>7</b>        | <b>37</b>      |
| Misc Exp Oper SS                          | 2                     | 6,947                     | 5,306              | 1,408             | 13                | 152                          | 0                          | 10              | 59             |
| Misc Exp Oper SS                          | 2                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Rents Oper SS                             | 2                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Super & Eng Maint SS                      | 2                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Struct & Improve Maint SS                 | 2                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Struct & Improve Maint SS                 | 2                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Collect & Impound Maint SS                | 2                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Lake, River & Oth Maint SS                | 2                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Lake, River & Oth Maint SS                | 2                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Wells & Springs Maint SS                  | 2                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Wells & Springs Maint SS                  | 2                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Infiltr Gall & Tunnels Maint SS           | 2                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Supply Mains Maint SS                     | 2                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Misc Plant Maint SS                       | 2                     | 77                        | 59                 | 16                | 0                 | 2                            | 0                          | 0               | 1              |
| Misc Plant Maint SS                       | 2                     | 404                       | 309                | 82                | 1                 | 9                            | 0                          | 1               | 3              |
| <b>TOTAL SS EXPENSE - MAINTENANCE</b>     |                       | <b>7,428</b>              | <b>5,673</b>       | <b>1,506</b>      | <b>13</b>         | <b>163</b>                   | <b>0</b>                   | <b>11</b>       | <b>63</b>      |
| <b>TOTAL SS EXPENSE</b>                   |                       | <b>11,951</b>             | <b>9,020</b>       | <b>2,394</b>      | <b>21</b>         | <b>259</b>                   | <b>0</b>                   | <b>18</b>       | <b>100</b>     |
| <b>POWER AND PUMPING EXPENSES</b>         |                       |                           |                    |                   |                   |                              |                            |                 |                |
| Super & Eng Oper P                        | 6                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Fuel for Power Prod                       | 1                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Labor & Exp Oper Pwr Prod                 | 6                     | (833)                     | (540)              | (143)             | (1)               | (15)                         | 0                          | (20)            | (113)          |
| Labor & Exp Oper Pwr Prod                 | 6                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Purch Fuel/Power for Pump                 | 1                     | (219)                     | (162)              | (48)              | (0)               | (5)                          | 0                          | (1)             | (3)            |
| Labor & Exp Oper Pump                     | 6                     | 2,226                     | 1,442              | 383               | 3                 | 41                           | 0                          | 53              | 303            |
| Labor & Exp Oper Pump                     | 6                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Expenses Transferred                      | 6                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Misc Exp Oper P                           | 6                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| Rents Oper P                              | 6                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0               | 0              |
| <b>TOTAL PUMPING EXPENSE - OPERATION</b>  |                       | <b>1,173</b>              | <b>740</b>         | <b>192</b>        | <b>2</b>          | <b>21</b>                    | <b>0</b>                   | <b>33</b>       | <b>187</b>     |

MISSOURI-AMERICAN WATER COMPANY

BRUNSWICK DISTRICT

COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2006, ALLOCATED TO CUSTOMER CLASSIFICATIONS

PSC STAFF STUDY

| Account                                       | Factor Ref. | Cost of Service | Residential   | Commercial    | Industrial | Public Authorities | Sales for Resale | Fire Protection |            |
|-----------------------------------------------|-------------|-----------------|---------------|---------------|------------|--------------------|------------------|-----------------|------------|
| (1)                                           | (2)         | (3)             | (4)           | (5)           | (6)        | (7)                | (8)              | Private         | Public     |
| Super & Eng Maint P                           | 6           | 0               | 0             | 0             | 0          | 0                  | 0                | 0               | 0          |
| Struct & Improve Maint P                      | 6           | 0               | 0             | 0             | 0          | 0                  | 0                | 0               | 0          |
| Power Prod Equip Maint P                      | 6           | 0               | 0             | 0             | 0          | 0                  | 0                | 0               | 0          |
| Pump Equip Maint F                            | 6           | 1,778           | 1,152         | 308           | 3          | 33                 | 0                | 42              | 242        |
| Pump Equip Maint F                            | 6           | 1,082           | 701           | 186           | 2          | 20                 | 0                | 26              | 147        |
| TOTAL PUMPING EXPENSES - MAINTENANCE          |             | <u>2,860</u>    | <u>1,853</u>  | <u>492</u>    | <u>4</u>   | <u>53</u>          | <u>0</u>         | <u>68</u>       | <u>389</u> |
| <b>TOTAL PUMPING EXPENSES</b>                 |             | 4,033           | 2,592         | 684           | 6          | 74                 | 0                | 101             | 576        |
| <b>WATER TREATMENT</b>                        |             |                 |               |               |            |                    |                  |                 |            |
| Super & Eng Oper WT                           | 2           | 11,573          | 8,840         | 2,346         | 21         | 253                | 0                | 17              | 98         |
| Chemicals                                     | 1           | 4,422           | 3,279         | 961           | 8          | 105                | 0                | 10              | 58         |
| Labor & Exp Oper WT                           | 2           | 8,903           | 6,800         | 1,805         | 16         | 195                | 0                | 13              | 76         |
| Labor & Exp Oper WT                           | 2           | 5,849           | 4,468         | 1,186         | 11         | 128                | 0                | 9               | 50         |
| Misc Exp Oper WT                              | 2           | 785             | 600           | 159           | 1          | 17                 | 0                | 1               | 7          |
| Misc Exp Oper WT                              | 1           | 7,987           | 5,923         | 1,736         | 15         | 189                | 0                | 18              | 105        |
| Misc Exp Oper WT                              | 2           | 1,247           | 952           | 253           | 2          | 27                 | 0                | 2               | 11         |
| Rents Oper WT                                 | 2           | 0               | 0             | 0             | 0          | 0                  | 0                | 0               | 0          |
| TOTAL WT EXPENSE - OPERATION                  |             | <u>40,766</u>   | <u>30,862</u> | <u>8,444</u>  | <u>75</u>  | <u>915</u>         | <u>0</u>         | <u>71</u>       | <u>405</u> |
| Super & Eng Maint WT                          | 2           | 11,608          | 8,865         | 2,353         | 21         | 254                | 0                | 17              | 99         |
| Struct & Improve Maint WT                     | 2           | 39,116          | 29,877        | 7,929         | 70         | 857                | 0                | 59              | 332        |
| Struct & Improve Maint WT                     | 2           | 0               | 0             | 0             | 0          | 0                  | 0                | 0               | 0          |
| WT Equip Maint WT                             | 2           | 484             | 370           | 98            | 1          | 11                 | 0                | 1               | 4          |
| WT Equip Maint WT                             | 2           | 3,551           | 2,712         | 720           | 6          | 78                 | 0                | 5               | 30         |
| TOTAL WT EXPENSE - MAINTENANCE                |             | <u>54,758</u>   | <u>41,824</u> | <u>11,099</u> | <u>99</u>  | <u>1,199</u>       | <u>0</u>         | <u>82</u>       | <u>465</u> |
| <b>TOTAL WT EXPENSE</b>                       |             | 95,524          | 72,686        | 19,544        | 173        | 2,114              | 0                | 153             | 870        |
| <b>TRANSMISSION AND DISTRIBUTION EXPENSES</b> |             |                 |               |               |            |                    |                  |                 |            |
| Super & Eng Oper TD                           | 11          | 1,444           | 572           | 133           | 1          | 14                 | 0                | 108             | 616        |
| Storage Facility Exp                          | 5           | 0               | 0             | 0             | 0          | 0                  | 0                | 0               | 0          |
| Storage Facility Exp                          | 5           | 0               | 0             | 0             | 0          | 0                  | 0                | 0               | 0          |
| TD Lines Exp                                  | 7           | 6,055           | 2,365         | 552           | 3          | 60                 | 0                | 459             | 2,616      |
| TD Lines Exp                                  | 7           | 472             | 184           | 43            | 0          | 5                  | 0                | 36              | 204        |
| Meter Expense                                 | 9           | 62              | 50            | 11            | 0          | 1                  | 0                | 0               | 0          |
| Meter Expense                                 | 9           | 0               | 0             | 0             | 0          | 0                  | 0                | 0               | 0          |
| Customer Install Exp                          | 10          | 25              | 20            | 4             | 0          | 0                  | 0                | 0               | 0          |
| Customer Install Exp                          | 10          | 0               | 0             | 0             | 0          | 0                  | 0                | 0               | 0          |
| Misc Exp Oper TD                              | 11          | 1,537           | 609           | 142           | 1          | 15                 | 0                | 115             | 655        |

MISSOURI-AMERICAN WATER COMPANY

BRUNSWICK DISTRICT

COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2006, ALLOCATED TO CUSTOMER CLASSIFICATIONS

PSC STAFF STUDY

| Account<br>(1)                               | Factor<br>Ref.<br>(2) | Cost of<br>Service<br>(3) | Residential<br>(4) | Commercial<br>(5) | Industrial<br>(6) | Public<br>Authorities<br>(7) | Sales for<br>Resale<br>(8) | Fire Protection<br>Private<br>(9) | Public<br>(10) |
|----------------------------------------------|-----------------------|---------------------------|--------------------|-------------------|-------------------|------------------------------|----------------------------|-----------------------------------|----------------|
| Misc Exp Oper TD                             | 11                    | 171                       | 68                 | 16                | 0                 | 2                            | 0                          | 13                                | 73             |
| Misc Exp Oper TD                             | 11                    | 1,268                     | 502                | 117               | 1                 | 13                           | 0                          | 95                                | 541            |
| Rents Oper TD                                | 11                    | 15                        | 6                  | 1                 | 0                 | 0                            | 0                          | 1                                 | 6              |
| <b>TOTAL T &amp; D EXPENSE OPERATION</b>     |                       | <b>11,050</b>             | <b>4,376</b>       | <b>1,020</b>      | <b>6</b>          | <b>111</b>                   | <b>0</b>                   | <b>827</b>                        | <b>4,711</b>   |
| Super & Eng Maint TD                         | 12                    | 1,444                     | 564                | 132               | 1                 | 14                           | 0                          | 109                               | 624            |
| Struct & Improve Maint TD                    | 12                    | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| Struct & Improve Maint TD                    | 12                    | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| Dist Res Stand Maint TD                      | 5                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| TD Main Maint TD                             | 7                     | 58                        | 23                 | 5                 | 0                 | 1                            | 0                          | 4                                 | 25             |
| TD Main Maint TD                             | 7                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| Fire Main Maint TD                           | 8                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| Services Maint TD                            | 10                    | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| Services Maint TD                            | 10                    | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| Meters Maint TD                              | 9                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| Meters Maint TD                              | 9                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| Hydrants Maint TD                            | 8                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| Hydrants Maint TD                            | 8                     | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| Misc Plant Maint TD                          | 12                    | 3,618                     | 1,413              | 330               | 2                 | 36                           | 0                          | 274                               | 1,563          |
| Misc Plant Maint TD                          | 12                    | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
|                                              |                       | 0                         |                    |                   |                   |                              |                            |                                   |                |
| <b>TOTAL T &amp; D EXPENSE - MAINTENANCE</b> |                       | <b>5,121</b>              | <b>2,000</b>       | <b>467</b>        | <b>3</b>          | <b>51</b>                    | <b>0</b>                   | <b>388</b>                        | <b>2,212</b>   |
| <b>TOTAL T &amp; D EXPENSE</b>               |                       | <b>16,170</b>             | <b>6,376</b>       | <b>1,487</b>      | <b>9</b>          | <b>161</b>                   | <b>0</b>                   | <b>1,215</b>                      | <b>6,923</b>   |
| <b>CUSTOMER ACCOUNTS</b>                     |                       |                           |                    |                   |                   |                              |                            |                                   |                |
| Supervision CA                               | 13                    | 1,444                     | 1,183              | 234               | 6                 | 19                           | 0                          | 1                                 | 0              |
| Meter Reading Exp CA                         | 14                    | 799                       | 655                | 130               | 4                 | 11                           | 0                          | 0                                 | 0              |
| Meter Reading Exp CA                         | 14                    | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| Meter Reading Exp CA                         | 14                    | (1)                       | (1)                | (0)               | (0)               | (0)                          | 0                          | 0                                 | 0              |
| Cust Rec & Collection CA                     | 13                    | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| Cust Rec & Collection CA                     | 13                    | 2,343                     | 1,920              | 380               | 10                | 31                           | 0                          | 2                                 | 0              |
| Uncollectible Accts                          | 13                    | 2,234                     | 1,830              | 362               | 10                | 30                           | 0                          | 2                                 | 0              |
| Misc Cust Accts Exp CA                       | 13                    | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| Misc Cust Accts Exp CA                       | 13                    | 0                         | 0                  | 0                 | 0                 | 0                            | 0                          | 0                                 | 0              |
| Misc Cust Accts Exp CA                       | 13                    | 2,124                     | 1,740              | 344               | 9                 | 28                           | 0                          | 1                                 | 0              |
| Cust Serv & Info Exp CA                      | 13                    | (0)                       | (0)                | (0)               | (0)               | (0)                          | 0                          | (0)                               | 0              |
| <b>TOTAL CUSTOMER ACCOUNTING EXPENSE</b>     |                       | <b>8,944</b>              | <b>7,329</b>       | <b>1,450</b>      | <b>39</b>         | <b>119</b>                   | <b>0</b>                   | <b>6</b>                          | <b>0</b>       |

**MISSOURI-AMERICAN WATER COMPANY**

**BRUNSWICK DISTRICT**

**COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2006, ALLOCATED TO CUSTOMER CLASSIFICATIONS**

**PSC STAFF STUDY**

| Account                                           | Factor Ref. | Cost of Service | Residential    | Commercial    | Industrial | Public Authorities | Sales for Resale | Fire Protection |               |
|---------------------------------------------------|-------------|-----------------|----------------|---------------|------------|--------------------|------------------|-----------------|---------------|
| (1)                                               | (2)         | (3)             | (4)            | (5)           | (6)        | (7)                | (8)              | Private         | Public        |
| <b>ADMINISTRATIVE AND GENERAL EXPENSES</b>        |             |                 |                |               |            |                    |                  |                 |               |
| Salaries AG                                       | 15          | 21,828          | 15,464         | 3,981         | 39         | 424                | 0                | 255             | 1,445         |
| Other Supplies & Exp AG                           | 15          | 11,775          | 8,421          | 2,168         | 21         | 231                | 0                | 139             | 787           |
| Other Supplies & Exp AG                           | 15          | 4               | 3              | 1             | 0          | 0                  | 0                | 0               | 0             |
| Other Supplies & Exp AG                           | 15          | (1)             | (1)            | (0)           | (0)        | (0)                | 0                | (0)             | (0)           |
| Mgmt Fees-Corporate/Shared Service Center         | 15          | 45,579          | 32,594         | 8,391         | 82         | 893                | 0                | 538             | 3,045         |
| Mgmt Fees-Call Center                             | 13          | 30,741          | 25,189         | 4,983         | 135        | 409                | 0                | 22              | 0             |
| Mgmt Fees-Belleville Lab                          | 2           | 20,174          | 15,409         | 4,089         | 38         | 442                | 0                | 30              | 171           |
| Mgmt Fees- Financial ITS                          | 15          | 0               | 0              | 0             | 0          | 0                  | 0                | 0               | 0             |
| Mgmt Fees- Customer Billings ITS                  | 13          | 0               | 0              | 0             | 0          | 0                  | 0                | 0               | 0             |
| Outside Services AG                               | 15          | 49,239          | 35,211         | 9,065         | 89         | 965                | 0                | 581             | 3,289         |
| Outside Services AG                               | 15          | 3,423           | 2,448          | 630           | 6          | 67                 | 0                | 40              | 229           |
| Outside Services AG                               | 15          | 31,182          | 22,298         | 5,741         | 58         | 611                | 0                | 368             | 2,083         |
| Property Insurance                                | 15          | (3,367)         | (2,408)        | (620)         | (6)        | (66)               | 0                | (40)            | (225)         |
| Ins Gen Liab Oper AG                              | 15          | 0               | 0              | 0             | 0          | 0                  | 0                | 0               | 0             |
| Ins Work Comp AG                                  | 18          | 0               | 0              | 0             | 0          | 0                  | 0                | 0               | 0             |
| Ins Other Oper AG                                 | 15          | 0               | 0              | 0             | 0          | 0                  | 0                | 0               | 0             |
| Property Insurance                                | 15          | 0               | 0              | 0             | 0          | 0                  | 0                | 0               | 0             |
| Injuries & Damages                                | 16          | 24,601          | 17,400         | 4,527         | 42         | 485                | 0                | 317             | 1,803         |
| Employee Pension & Benefits                       | 18          | 36,339          | 25,703         | 6,686         | 62         | 716                | 0                | 489             | 2,664         |
| Employee Pension & Benefits                       | 16          | 5,657           | 0              | 0 #           | 0          | 0                  | 0                | 0               | 0             |
| Employee Pension & Benefits                       | 16          | 16,999          | 12,024         | 3,128         | 29         | 335                | 0                | 219             | 1,246         |
| Reg Commission Exp                                | 15          | 811             | 580            | 149           | 1          | 16                 | 0                | 10              | 54            |
| Rents AG                                          | 15          | 2,353           | 1,682          | 433           | 4          | 46                 | 0                | 28              | 157           |
| Goodwill Advertising Exp                          | 15          | 0               | 0              | 0             | 0          | 0                  | 0                | 0               | 0             |
| Misc Exp AG                                       | 15          | 12,849          | 9,188          | 2,366         | 23         | 252                | 0                | 152             | 858           |
| Research & Development                            | 15          | 0               | 0              | 0             | 0          | 0                  | 0                | 0               | 0             |
| <b>TOTAL A &amp; G OPERATIONS</b>                 |             | <b>309,984</b>  | <b>221,205</b> | <b>55,718</b> | <b>620</b> | <b>5,825</b>       | <b>0</b>         | <b>3,128</b>    | <b>17,606</b> |
| General Plant Maint AG                            | 15          | 1,556           | 1,113          | 287           | 3          | 31                 | 0                | 18              | 104           |
| General Plant Maint AG                            | 15          | 255             | 182            | 47            | 0          | 5                  | 0                | 3               | 17            |
| <b>TOTAL A &amp; G EXPENSE - MAINTENANCE</b>      |             | <b>1,811</b>    | <b>1,295</b>   | <b>333</b>    | <b>3</b>   | <b>35</b>          | <b>0</b>         | <b>21</b>       | <b>121</b>    |
| <b>TOTAL A &amp; G EXPENSE</b>                    |             | <b>311,795</b>  | <b>222,500</b> | <b>56,051</b> | <b>623</b> | <b>5,861</b>       | <b>0</b>         | <b>3,149</b>    | <b>17,727</b> |
| <b>Total Operation &amp; Maintenance Expenses</b> |             | <b>448,416</b>  | <b>320,503</b> | <b>81,610</b> | <b>872</b> | <b>8,588</b>       | <b>0</b>         | <b>4,642</b>    | <b>26,197</b> |

**MISSOURI-AMERICAN WATER COMPANY**

**BRUNSWICK DISTRICT**

**COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2006, ALLOCATED TO CUSTOMER CLASSIFICATIONS**

**PSC STAFF STUDY**

| Account                             | Factor Ref. | Cost of Service | Residential | Commercial | Industrial | Public Authorities | Sales for Resale | Fire Protection |        |
|-------------------------------------|-------------|-----------------|-------------|------------|------------|--------------------|------------------|-----------------|--------|
| (1)                                 | (2)         | (3)             | (4)         | (5)        | (6)        | (7)                | (8)              | Private         | Public |
| <b>DEPRECIATION EXPENSE</b>         |             |                 |             |            |            |                    |                  |                 |        |
| Struct & Imp SS                     | 2           | 588             | 448         | 119        | 1          | 13                 | 0                | 1               | 5      |
| Struct & Imp P                      | 8           | 992             | 643         | 171        | 1          | 18                 | 0                | 24              | 135    |
| Struct & Imp WT                     | 2           | 4,464           | 3,410       | 905        | 8          | 98                 | 0                | 7               | 38     |
| Struct & Imp TD                     | 7           | 702             | 274         | 64         | 0          | 7                  | 0                | 53              | 303    |
| Struct & Imp Offices                | 15          | 102             | 73          | 19         | 0          | 2                  | 0                | 1               | 7      |
| Struct & Imp Store, Shop, Gar       | 15          | 12              | 9           | 2          | 0          | 0                  | 0                | 0               | 1      |
| Struct & Imp Misc                   | 15          | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| Collect & Impounding                | 1           | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| Lake, River & Other Intakes         | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| Wells & Springs                     | 2           | 3,255           | 2,486       | 660        | 6          | 71                 | 0                | 5               | 28     |
| Supply Mains                        | 2           | 1,291           | 986         | 262        | 2          | 28                 | 0                | 2               | 11     |
| Power Generation Equip Other        | 6           | 30              | 19          | 5          | 0          | 1                  | 0                | 1               | 4      |
| Pump Equip Electric                 | 6           | 2,444           | 1,583       | 421        | 4          | 45                 | 0                | 58              | 333    |
| Pump Equip Other                    | 6           | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| WT Equip Non-Media                  | 2           | 7,442           | 5,684       | 1,508      | 13         | 163                | 0                | 11              | 63     |
| Dist Reservoirs & Standpipe         | 5           | 1,190           | 602         | 140        | 1          | 15                 | 0                | 65              | 368    |
| Elevated Tanks & Standpipes         | 5           | 535             | 270         | 63         | 0          | 7                  | 0                | 29              | 165    |
| Ground Level Facilities             | 5           | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| TD Mains Not Classified by          | 4           | 4,081           | 1,594       | 372        | 2          | 40                 | 0                | 309             | 1,763  |
| TD Mains 4 & Less                   | 4           | 858             | 335         | 78         | 0          | 8                  | 0                | 65              | 370    |
| TD Mains 6 to 8"                    | 4           | 3,741           | 1,461       | 341        | 2          | 37                 | 0                | 284             | 1,616  |
| TD Mains 10 to 16"                  | 3           | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| TD Mains 18 & Grtr                  | 3           | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| Services                            | 10          | 5,815           | 4,720       | 968        | 30         | 89                 | 0                | 8               | 0      |
| Meters Bronze Case                  | 9           | 653             | 520         | 116        | 5          | 13                 | 0                | 0               | 0      |
| Meters Plastic Case                 | 9           | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| Meters Other                        | 9           | 344             | 274         | 61         | 2          | 7                  | 0                | 0               | 0      |
| Meters Other-Rem Rdr Unts           | 9           | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| Meter Installations                 | 9           | 2,330           | 1,855       | 413        | 17         | 45                 | 0                | 0               | 0      |
| Meter Installation Other            | 9           | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| Hydrants                            | 8           | 1,557           | 0           | 0          | 0          | 0                  | 0                | 0               | 1,557  |
| Utility Plant Acquisition Adjustmen | 17          | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| Other P/E WT Res Hand Equip         | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| Other P/E TD                        | 7           | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| Other P/E CPS                       | 15          | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| Office Furniture & Equip            | 15          | 249             | 178         | 46         | 0          | 5                  | 0                | 3               | 17     |
| Comp & Periph Equip                 | 15          | 1,930           | 1,380       | 355        | 3          | 38                 | 0                | 23              | 129    |
| Computer Software                   | 15          | 4,796           | 3,430       | 883        | 9          | 94                 | 0                | 57              | 320    |
| Comp Software Personal              | 15          | 0               | 0           | 0          | 0          | 0                  | 0                | 0               | 0      |
| Data Handling Equipment             | 15          | 3,142           | 2,247       | 578        | 6          | 62                 | 0                | 37              | 210    |

MISSOURI-AMERICAN WATER COMPANY

BRUNSWICK DISTRICT

COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2006, ALLOCATED TO CUSTOMER CLASSIFICATIONS

PSC STAFF STUDY

| Account                                                | Factor Ref. | Cost of Service   | Residential       | Commercial        | Industrial      | Public Authorities | Sales for Resale | Fire Protection  |                  |
|--------------------------------------------------------|-------------|-------------------|-------------------|-------------------|-----------------|--------------------|------------------|------------------|------------------|
| (1)                                                    | (2)         | (3)               | (4)               | (5)               | (6)             | (7)                | (8)              | Private          | Public           |
| Other Office Equipment                                 | 15          | 209               | 149               | 38                | 0               | 4                  | 0                | 2                | 14               |
| Trans Equip Lt Duty Trks                               | 15          | 0                 | 0                 | 0                 | 0               | 0                  | 0                | 0                | 0                |
| Trans Equip Hvy Duty Trks                              | 15          | 0                 | 0                 | 0                 | 0               | 0                  | 0                | 0                | 0                |
| Trans Equip Autos                                      | 15          | 0                 | 0                 | 0                 | 0               | 0                  | 0                | 0                | 0                |
| Trans Equip Other                                      | 15          | 0                 | 0                 | 0                 | 0               | 0                  | 0                | 0                | 0                |
| Stores Equipment                                       | 15          | 458               | 328               | 84                | 1               | 9                  | 0                | 5                | 31               |
| Tools,Shop,Garage Equip                                | 15          | 1,852             | 1,181             | 304               | 3               | 32                 | 0                | 19               | 110              |
| Tools,Shop,Garage Equip Oth                            | 15          | 0                 | 0                 | 0                 | 0               | 0                  | 0                | 0                | 0                |
| Laboratory Equipment                                   | 2           | 1,032             | 789               | 209               | 2               | 23                 | 0                | 2                | 9                |
| Laboratory Equip Other                                 | 2           | 0                 | 0                 | 0                 | 0               | 0                  | 0                | 0                | 0                |
| Power Operated Equipment                               | 15          | 0                 | 0                 | 0                 | 0               | 0                  | 0                | 0                | 0                |
| Comm Equip Non-Telephone                               | 15          | 1                 | 0                 | 0                 | 0               | 0                  | 0                | 0                | 0                |
| Comm Equip Telephone                                   | 15          | 13                | 9                 | 2                 | 0               | 0                  | 0                | 0                | 1                |
| Misc Equipment                                         | 15          | 1,227             | 878               | 226               | 2               | 24                 | 0                | 14               | 82               |
| Other Tangible Property                                | 15          | 7,068             | 5,054             | 1,301             | 13              | 139                | 0                | 83               | 472              |
| <b>Total Depreciation Expense</b>                      |             | <b>64,203</b>     | <b>42,871</b>     | <b>10,717</b>     | <b>134</b>      | <b>1,138</b>       | <b>0</b>         | <b>1,168</b>     | <b>8,162</b>     |
| Amort-Other UP                                         | 18          | 720               | 454               | 113               | 1               | 12                 | 0                | 17               | 121              |
| <b>Taxes Other Than Income</b>                         |             |                   |                   |                   |                 |                    |                  |                  |                  |
| Utility Reg Assessment Fee                             | 19          | 887               | 611               | 155               | 2               | 16                 | 0                | 13               | 82               |
| Property Taxes                                         | 18          | 21,408            | 13,511            | 3,374             | 41              | 360                | 0                | 514              | 3,612            |
| FUTA                                                   | 16          | 115               | 81                | 21                | 0               | 2                  | 0                | 1                | 8                |
| FICA                                                   | 16          | 8,616             | 6,094             | 1,585             | 15              | 170                | 0                | 111              | 632              |
| SUTA                                                   | 16          | 296               | 209               | 54                | 1               | 6                  | 0                | 4                | 22               |
| Other Taxes & Licenses                                 | 15          | 566               | 404               | 104               | 1               | 11                 | 0                | 7                | 38               |
| Gross Receipts Tax                                     | 19          | 0                 | 0                 | 0                 | 0               | 0                  | 0                | 0                | 0                |
| <b>Total Taxes, Other Than Income</b>                  |             | <b>31,887</b>     | <b>20,911</b>     | <b>5,294</b>      | <b>59</b>       | <b>565</b>         | <b>0</b>         | <b>650</b>       | <b>4,393</b>     |
| <b>Income Taxes</b>                                    | 18          | 49,762            | 31,405            | 7,843             | 95              | 836                | 0                | 1,194            | 8,395            |
| <b>Utility Income Available for Return</b>             | 18          | 99,606            | 62,862            | 15,698            | 189             | 1,673              | 0                | 2,391            | 16,804           |
| <b>Total Cost of Service</b>                           |             | <b>694,595</b>    | <b>479,006</b>    | <b>121,275</b>    | <b>1,350</b>    | <b>12,812</b>      | <b>0</b>         | <b>10,062</b>    | <b>64,071</b>    |
| <b>Less: Other Water Revenues</b>                      | 19          | 210               | (210)             | 0                 | 0               | 0                  | 0                | 0                | 0                |
| <b>Revenue Contribution</b>                            | 19          | 0                 | 0 #               | 0                 | 0               | 0                  | 0                | 0                | 0                |
| <b>Total Other Water Revenues</b>                      |             | <b>210</b>        | <b>(210)</b>      | <b>0</b>          | <b>0</b>        | <b>0</b>           | <b>0</b>         | <b>0</b>         | <b>0</b>         |
| <b>Total Cost of Service Related to Sales of Water</b> |             | <b>\$ 694,385</b> | <b>\$ 479,216</b> | <b>\$ 121,275</b> | <b>\$ 1,350</b> | <b>\$ 12,812</b>   | <b>\$ -</b>      | <b>\$ 10,062</b> | <b>\$ 64,071</b> |
| <b>Reallocation of Public Fire</b>                     | 20          |                   | 49,948            | 12,646            | 141             | 1,336              |                  |                  | (64,071)         |
| <b>Total</b>                                           |             | <b>\$ 694,385</b> | <b>\$ 529,164</b> | <b>\$ 133,921</b> | <b>\$ 1,491</b> | <b>\$ 14,148</b>   | <b>\$ -</b>      | <b>\$ 10,062</b> | <b>\$ -</b>      |
|                                                        |             |                   | \$ 9,574          |                   |                 |                    |                  |                  | 61               |
|                                                        |             |                   | <b>\$ 538,738</b> |                   |                 |                    |                  |                  | \$ -             |
| True - up allowance                                    |             | \$ 4,597          |                   |                   |                 |                    |                  |                  |                  |
|                                                        |             | <b>\$ 698,982</b> |                   |                   |                 |                    |                  |                  |                  |

**MISSOURI-AMERICAN WATER COMPANY**

**BRUNSWICK DISTRICT**

**COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2006, ALLOCATED TO CUSTOMER CLASSIFICATIONS**

**PSC STAFF STUDY**

| Account                          | Factor Ref. | Cost of Service | Residential | Commercial | Industrial | Public Authorities | Sales for Resale | Fire Protection Private | Fire Protection Public |
|----------------------------------|-------------|-----------------|-------------|------------|------------|--------------------|------------------|-------------------------|------------------------|
| (1)                              | (2)         | (3)             | (4)         | (5)        | (6)        | (7)                | (8)              | (9)                     | (10)                   |
| <b>RATE BASE</b>                 |             |                 |             |            |            |                    |                  |                         |                        |
| Organization                     | 17          | \$ 1,001        | \$ 632      | \$ 158     | \$ 2       | \$ 17              | \$ -             | \$ 24                   | \$ 168                 |
| Franchises                       | 17          | 1,092           | 689         | 172        | 2          | 18                 | 0                | 26                      | 184                    |
| Land & Ld Rights SS              | 2           | 11,981          | 9,151       | 2,429      | 22         | 262                | 0                | 18                      | 102                    |
| Land & Ld Rights P               | 6           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Land & Ld Rights WT              | 2           | 1,468           | 1,121       | 298        | 3          | 32                 | 0                | 2                       | 12                     |
| Land & Ld Rights TD              | 7           | 591             | 231         | 54         | 0          | 6                  | 0                | 45                      | 255                    |
| Land & Land Rights AG            | 15          | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Struct & Imp SS                  | 2           | 23,993          | 18,326      | 4,863      | 43         | 525                | 0                | 36                      | 204                    |
| Struct & Imp P                   | 6           | 57,331          | 37,139      | 9,867      | 86         | 1,066              | 0                | 1,370                   | 7,808                  |
| Struct & Imp Pumps (STL)         | 6           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Struct & Imp Pump Boosters       | 6           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Struct & Imp WT                  | 2           | 273,867         | 209,180     | 55,513     | 493        | 5,998              | 0                | 411                     | 2,328                  |
| Struct & Imp WT Nth Plt (ST      | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Struct & Imp WT Ctrl Plt 1       | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Struct & Imp WT Ctrl Plt 3       | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Struct & Imp WT Sth Plt (ST      | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Struct & Imp WT Meramec (ST      | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Struct & Imp TD                  | 7           | 26,302          | 10,274      | 2,399      | 13         | 260                | 0                | 1,994                   | 11,362                 |
| Struct & Imp TD Spec Cross       | 7           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Struct & Imp Offices             | 15          | 4,270           | 3,053       | 786        | 8          | 84                 | 0                | 50                      | 285                    |
| Struct & Imp Leasehold           | 15          | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Struct & Imp Leasehold           | 15          | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Struct & Imp Store, Shop, Gar    | 15          | 500             | 358         | 92         | 1          | 10                 | 0                | 6                       | 33                     |
| Struct & Imp Misc                | 15          | 17,568          | 12,563      | 3,234      | 32         | 344                | 0                | 207                     | 1,174                  |
| Collect & Impounding             | 1           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Lake, River & Other Intakes      | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Wells & Springs                  | 2           | 194,932         | 148,889     | 39,513     | 351        | 4,269              | 0                | 292                     | 1,657                  |
| Infiltration Galleries & Tunnels | 2           | 1,804           | 1,378       | 366        | 3          | 40                 | 0                | 3                       | 15                     |
| Supply Mains                     | 2           | 80,682          | 61,625      | 16,354     | 145        | 1,767              | 0                | 121                     | 686                    |
| Supply Mains Ctrl Plt (STL)      | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Supply Mains Sth Plt (STL)       | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Supply Mains Meramec Plt (S      | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Power Generation Equip Othe      | 6           | 1,498           | 970         | 258        | 2          | 28                 | 0                | 36                      | 204                    |
| Boiler Plant Equipment P         | 6           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Pump Equip Steam                 | 6           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Pump Equip Electric              | 6           | 100,165         | 64,887      | 17,238     | 150        | 1,863              | 0                | 2,394                   | 13,642                 |
| Pump Equip Elec Pre46 (STL)      | 6           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Pump Equip Elec Post46 (STL      | 6           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Pump Equip Elec Boosters Po      | 6           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Pump Equip Diesel                | 6           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Pump Equip Diesel Stratman)      | 6           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Pump Equip Diesel Ctrl Plt       | 6           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Pump Equip Hydraulic             | 6           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Pump Equip Other                 | 6           | 19,582          | 12,685      | 3,370      | 29         | 364                | 0                | 468                     | 2,667                  |
| WT Equip Non-Media               | 2           | 193,914         | 148,112     | 39,306     | 349        | 4,247              | 0                | 291                     | 1,648                  |
| WT Equip Non-Med North (STL      | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| WT Equip Non Media Ctrl 1 &      | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| WT Equip Non Media Ctrl 3 (      | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| WT Equip Non Media Sth (STL      | 2           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| WT Equip Non Media Mer (STL      | 2           | 73,777          | 56,351      | 14,955     | 133        | 1,616              | 0                | 111                     | 627                    |
| WT Equip Filter Media            | 5           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |
| Dist Reservoirs & Standpipe      | 5           | 52,904          | 26,743      | 6,243      | 37         | 682                | 0                | 2,873                   | 16,337                 |
| Elevated Tanks & Standpipes      | 5           | 23,775          | 12,018      | 2,805      | 17         | 307                | 0                | 1,291                   | 7,342                  |
| Ground Level Facilities          | 5           | 0               | 0           | 0          | 0          | 0                  | 0                | 0                       | 0                      |

**MISSOURI-AMERICAN WATER COMPANY**

**BRUNSWICK DISTRICT**

**COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2006, ALLOCATED TO CUSTOMER CLASSIFICATIONS**

**PSC STAFF STUDY**

| Account                               | Factor Ref | Cost of Service  | Residential      | Commercial     | Industrial   | Public Authorities | Sales for Resale | Fire Protection |                |
|---------------------------------------|------------|------------------|------------------|----------------|--------------|--------------------|------------------|-----------------|----------------|
| (1)                                   | (2)        | (3)              | (4)              | (5)            | (6)          | (7)                | (8)              | Private         | Public         |
| TD Mains Not Classified by            | 7          | 272,057          | 106,285          | 24,812         | 136          | 2,693              | 0                | 20,622          | 117,529        |
| TD Mains 4 & Less                     | 4          | 57,171           | 22,331           | 5,214          | 29           | 566                | 0                | 4,334           | 24,698         |
| TD Mains 6 to 8"                      | 4          | 249,384          | 97,409           | 22,744         | 125          | 2,469              | 0                | 18,903          | 107,734        |
| TD Mains 10 to 16"                    | 3          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| TD Mains 18 & Grtr                    | 3          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| TD Mains AC 4 (STL)                   | 4          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| TD Mains CI <10 1900-28 (S*           | 4          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| TD Mains CI <10 1929-56 (S*           | 4          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| TD Mains CI <10 1957-93 (S*           | 4          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| TD Mains CI 12 (STL)                  | 3          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| TD Mains CI 16 (STL)                  | 3          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| TD Mains DI 6-8 (STL)                 | 4          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| TD Mains DI 12 (STL)                  | 3          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| TD Mains DI 16 & >(STL)               | 3          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| TD Mains Galve 1 (STL)                | 4          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| TD Mains LJ 20 (STL)                  | 3          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| Fire Mains                            | 8          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| Services                              | 10         | 188,793          | 153,262          | 31,434         | 963          | 2,889              | 0                | 245             | 0              |
| Meters Bronze Case                    | 9          | 26,875           | 21,393           | 4,768          | 191          | 524                | 0                | 0               | 0              |
| Meters Plastic Case                   | 9          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| Meters Other                          | 9          | 14,149           | 11,263           | 2,510          | 100          | 276                | 0                | 0               | 0              |
| Meters Other-Rem Rdr Units            | 9          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| Meter Installations                   | 9          | 95,879           | 76,320           | 17,009         | 681          | 1,870              | 0                | 0               | 0              |
| Meter Installation Other              | 9          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| Hydrants                              | 8          | 81,097           | 0                | 0              | 0            | 0                  | 0                | 0               | 81,097         |
| Other P/E Intangible                  | 15         | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| Other P/E WT Res Hand Equip           | 2          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| Other P/E TD                          | 7          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| Other P/E CPS                         | 15         | 7,277            | 5,204            | 1,340          | 13           | 143                | 0                | 86              | 486            |
| Office Furniture & Equip              | 15         | 6,237            | 4,460            | 1,148          | 11           | 122                | 0                | 74              | 417            |
| Comp & Periph Equip                   | 15         | 13,509           | 9,660            | 2,487          | 24           | 265                | 0                | 159             | 902            |
| Computer Software                     | 15         | 33,563           | 24,001           | 6,179          | 60           | 658                | 0                | 396             | 2,242          |
| Comp Software Personal                | 15         | 651              | 465              | 120            | 1            | 13                 | 0                | 8               | 43             |
| Data Handling Equipment               | 15         | 47,111           | 33,689           | 8,673          | 85           | 923                | 0                | 556             | 3,147          |
| Other Office Equipment                | 15         | 3,126            | 2,236            | 576            | 6            | 61                 | 0                | 37              | 209            |
| Trans Equip Lt Duty Trks              | 15         | 34,315           | 24,538           | 6,317          | 62           | 673                | 0                | 405             | 2,292          |
| Trans Equip Hvy Duty Trks             | 15         | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| Trans Equip Autos                     | 15         | 827              | 591              | 152            | 1            | 16                 | 0                | 10              | 55             |
| Trans Equip Other                     | 15         | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| Stores Equipment                      | 15         | 16,014           | 11,452           | 2,948          | 28           | 314                | 0                | 189             | 1,070          |
| Tools,Shop,Garage Equip               | 15         | 33,036           | 23,624           | 6,082          | 59           | 648                | 0                | 390             | 2,207          |
| Tools,Shop,Garage Equip Otr           | 15         | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| Laboratory Equipment                  | 2          | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| Laboratory Equip Other                | 2          | 25,810           | 19,714           | 5,232          | 46           | 565                | 0                | 39              | 219            |
| Power Operated Equipment              | 15         | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |
| Comm Equip Non-Telephone              | 15         | 12               | 9                | 2              | 0            | 0                  | 0                | 0               | 1              |
| Comm Equip Telephone                  | 15         | 193              | 138              | 36             | 0            | 4                  | 0                | 2               | 13             |
| Misc Equipment                        | 15         | 141,351          | 101,080          | 26,023         | 254          | 2,770              | 0                | 1,668           | 9,442          |
| Other Tangible Property               | 17         | 24,548           | 15,497           | 3,871          | 47           | 412                | 0                | 589             | 4,129          |
| <b>Total Utility Plant in Service</b> |            | <b>2,535,983</b> | <b>1,600,976</b> | <b>399,948</b> | <b>4,845</b> | <b>42,679</b>      | <b>0</b>         | <b>60,780</b>   | <b>426,674</b> |
| <b>Other Rate Base Items</b>          |            |                  |                  |                |              |                    |                  |                 |                |
| Add:                                  |            |                  |                  |                |              |                    |                  |                 |                |
| Other Utility Plant Adjustments       | 17         | 0                | 0                | 0              | 0            | 0                  | 0                | 0               | 0              |

**MISSOURI-AMERICAN WATER COMPANY**

**BRUNSWICK DISTRICT**

**COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2006, ALLOCATED TO CUSTOMER CLASSIFICATIONS**

**PSC STAFF STUDY**

| Account                              | Factor Ref. | Cost of Service | Residential  | Commercial | Industrial | Public Authorities | Sales for Resale | Fire Protection Private | Public     |
|--------------------------------------|-------------|-----------------|--------------|------------|------------|--------------------|------------------|-------------------------|------------|
| (1)                                  | (2)         | (3)             | (4)          | (5)        | (6)        | (7)                | (8)              | (9)                     | (10)       |
| Cash Working Capital                 | 15          | 11,831          | 8,460        | 2,178      | 21         | 232                | 0                | 140                     | 790        |
| Materials and Supplies               | 15          | 4,586           | 3,279        | 844        | 8          | 90                 | 0                | 54                      | 306        |
| Prepayments                          | 15          | 3,784           | 2,706        | 697        | 7          | 74                 | 0                | 45                      | 253        |
| Deferred OPEB Asset                  | 16          | 22,991          | 16,261       | 4,230      | 39         | 453                | 0                | 297                     | 1,685      |
| Security Deferral AAO                | 17          | 0               | 0            | 0          | 0          | 0                  | 0                | 0                       | 0          |
| Regulatory Deferrals                 | 17          | 0               | 0            | 0          | 0          | 0                  | 0                | 0                       | 0          |
| Less:                                |             |                 |              |            |            |                    |                  |                         |            |
| Accumulated Deferred ITC (3%)        | 17          | 0               | 0            | 0          | 0          | 0                  | 0                | 0                       | 0          |
| Deferred Income Taxes                | 17          | (133,012)       | (83,970)     | (20,976)   | (253)      | (2,235)            | 0                | (3,192)                 | (22,373)   |
| Pensions                             | 16          | (55,053)        | (38,939)     | (10,130)   | (94)       | (1,085)            | 0                | (710)                   | (4,035)    |
| Total Other Rate Base Elements       |             | (144,874)       | (92,203)     | (23,157)   | (271)      | (2,470)            | 0                | (3,368)                 | (23,373)   |
| Total Original Cost Measure of Value |             | \$ 2,391,109    | \$ 1,508,774 | \$ 376,791 | \$ 4,574   | \$ 40,209          | \$ -             | \$ 57,412               | \$ 403,301 |

|                               |           |           |         |        |        |        |        |         |
|-------------------------------|-----------|-----------|---------|--------|--------|--------|--------|---------|
| T&D OP BASIS FOR FACTOR 11    | 6,614     | 2,619     | 610     | 4      | 66     | 0      | 495    | 2,820   |
| FACTOR 11                     |           | 0.3960    | 0.0923  | 0.0006 | 0.0100 | 0.0000 | 0.0748 | 0.4263  |
| T&D Mnt BASIS FOR FACTOR 12   | 58        | 23        | 5       | 0      | 1      | 0      | 4      | 25      |
| FACTOR 12                     |           | 0.3906    | 0.0912  | 0.0005 | 0.0099 | 0.0000 | 0.0758 | 0.4320  |
| A&G BASIS FOR FACTOR 15       | 124,432   | 88,963    | 22,910  | 226    | 2,438  | 0      | 1,464  | 8,309   |
| FACTOR 15                     |           | 0.7151    | 0.1841  | 0.0018 | 0.0196 | 0.0000 | 0.0118 | 0.0668  |
| LABOR BASIS FOR FACTOR 16     | 119,072   | 84,204    | 21,910  | 201    | 2,352  | 0      | 1,535  | 8,726   |
| FACTOR 16                     |           | 0.7073    | 0.1840  | 0.0017 | 0.0197 | 0.0000 | 0.0129 | 0.0733  |
| UPIS BASIS FOR FACTOR 17      | 2,509,342 | 1,584,158 | 395,747 | 4,794  | 42,232 | 0      | 60,141 | 422,193 |
| FACTOR 17                     |           | 0.6313    | 0.1577  | 0.0019 | 0.0168 | 0.0000 | 0.0240 | 0.1682  |
| RATE BASE BASIS FOR FACTOR 18 | 2,391,109 | 1,508,774 | 376,791 | 4,574  | 40,209 | 0      | 57,412 | 403,301 |
| FACTOR 18                     |           | 0.6311    | 0.1576  | 0.0019 | 0.0168 | 0.0000 | 0.0240 | 0.1687  |
| TOTAL COS BASIS FOR FACTOR 19 | 692,898   | 477,815   | 120,971 | 1,347  | 12,780 | 0      | 10,040 | 63,935  |
| FACTOR 19                     |           | 0.6896    | 0.1746  | 0.0019 | 0.0184 | 0.0000 | 0.0145 | 0.0923  |
| COS w/o Fire Factor 20        | 614,443   | 479,006   | 121,275 | 1,350  | 12,812 |        |        |         |
| FACTOR 20                     |           | 0.7796    | 0.1974  | 0.0022 | 0.0209 |        |        |         |

**Table of Factors - Table Name "FACTORS"**

|    | 2<br>Residential | 4<br>Commercial | 6<br>Industrial | 8<br>Public | 10<br>Resale | 12<br>Private Fire | 14<br>Public Fire |
|----|------------------|-----------------|-----------------|-------------|--------------|--------------------|-------------------|
| 1  | 0.7416           | 0.2173          | 0.0019          | 0.0237      | -            | 0.0023             | 0.0132            |
| 2  | 0.7638           | 0.2027          | 0.0018          | 0.0219      | -            | 0.0015             | 0.0085            |
| 3  | 0.8480           | 0.1721          | 0.0015          | 0.0186      | (0.0001)     | 0.0239             | 0.1362            |
| 4  | 0.3906           | 0.0912          | 0.0005          | 0.0099      | -            | 0.0758             | 0.4320            |
| 5  | 0.5055           | 0.1180          | 0.0007          | 0.0129      | -            | 0.0543             | 0.3088            |
| 6  | 0.8478           | 0.1721          | 0.0015          | 0.0186      | -            | 0.0239             | 0.1362            |
| 7  | 0.3906           | 0.0912          | 0.0005          | 0.0099      | -            | 0.0758             | 0.4320            |
| 8  | -                | -               | -               | -           | -            | -                  | 1.0000            |
| 9  | 0.7960           | 0.1774          | 0.0071          | 0.0195      | -            | -                  | -                 |
| 10 | 0.8118           | 0.1665          | 0.0051          | 0.0153      | -            | 0.0013             | -                 |
| 11 | 0.3960           | 0.0923          | 0.0008          | 0.0100      | -            | 0.0748             | 0.4263            |
| 12 | 0.3906           | 0.0912          | 0.0005          | 0.0099      | -            | 0.0758             | 0.4320            |
| 13 | 0.8194           | 0.1621          | 0.0044          | 0.0133      | -            | 0.0007             | -                 |

MISSOURI-AMERICAN WATER COMPANY  
 BRUNSWICK DISTRICT  
 COST OF SERVICE FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2006, ALLOCATED TO CUSTOMER CLASSIFICATIONS  
**PSC STAFF STUDY**

| Account | Factor | Cost of | Residential | Commercial | Industrial | Public      | Sales for | Fire Protection |        |
|---------|--------|---------|-------------|------------|------------|-------------|-----------|-----------------|--------|
| (1)     | Ref.   | Service | (4)         | (5)        | (6)        | Authorities | Resale    | Private         | Public |
|         | (2)    | (3)     |             |            |            | (7)         | (8)       | (9)             | (10)   |
|         |        |         | 14          | 0.8201     | 0.1623     | 0.0044      | 0.0133    | -               | -      |
|         |        |         | 15          | 0.7151     | 0.1841     | 0.0018      | 0.0196    | -               | 0.0118 |
|         |        |         | 16          | 0.7073     | 0.1840     | 0.0017      | 0.0197    | -               | 0.0129 |
|         |        |         | 17          | 0.6313     | 0.1577     | 0.0019      | 0.0168    | -               | 0.0240 |
|         |        |         | 18          | 0.8311     | 0.1576     | 0.0019      | 0.0168    | -               | 0.0240 |
|         |        |         | 19          | 0.6896     | 0.1746     | 0.0019      | 0.0184    | -               | 0.0145 |
|         |        |         | 20          | 0.7796     | 0.1974     | 0.0022      | 0.0209    | -               | -      |

# PSC STAFF STUDY

|                                           |   | Base          | Max Day      | Max Hour     | Meters   | Services | Billing & Collecting | Fire Service |
|-------------------------------------------|---|---------------|--------------|--------------|----------|----------|----------------------|--------------|
| <b>OPERATION AND MAINTENANCE EXPENSES</b> |   |               |              |              |          |          |                      |              |
| <b>SOURCE OF SUPPLY EXPENSES</b>          |   |               |              |              |          |          |                      |              |
| Super & Eng Oper SS                       | 2 | 4,331         | 2,751        | 1,537        | 0        | 0        | 0                    | 43           |
| Labor & Exp Oper SS                       | 2 | 141           | 90           | 50           | 0        | 0        | 0                    | 1            |
| Labor & Exp Oper SS                       | 2 | 50            | 32           | 18           | 0        | 0        | 0                    | 1            |
| Purchased Water                           | 1 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| <b>TOTAL SS EXPENSE - OPERATION</b>       |   | <b>4,523</b>  | <b>2,873</b> | <b>1,605</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>45</b>    |
| Misc Exp Oper SS                          | 2 | 6,947         | 4,413        | 2,465        | 0        | 0        | 0                    | 69           |
| Misc Exp Oper SS                          | 2 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Rents Oper SS                             | 2 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Super & Eng Maint SS                      | 2 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Struct & Improve Maint SS                 | 2 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Struct & Improve Maint SS                 | 2 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Collect & Impound Maint SS                | 2 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Lake, River & Oth Maint SS                | 2 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Lake, River & Oth Maint SS                | 2 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Wells & Springs Maint SS                  | 2 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Wells & Springs Maint SS                  | 2 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Infil Gall & Tunnels Maint SS             | 2 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Supply Mains Maint SS                     | 2 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Misc Plant Maint SS                       | 2 | 77            | 49           | 27           | 0        | 0        | 0                    | 1            |
| Misc Plant Maint SS                       | 2 | 404           | 257          | 143          | 0        | 0        | 0                    | 4            |
| <b>TOTAL SS EXPENSE - MAINTENANCE</b>     |   | <b>7,428</b>  | <b>4,718</b> | <b>2,635</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>74</b>    |
| <b>TOTAL SS EXPENSE</b>                   |   | <b>11,951</b> | <b>7,591</b> | <b>4,240</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>120</b>   |
| <b>POWER AND PUMPING EXPENSES</b>         |   |               |              |              |          |          |                      |              |
| Super & Eng Oper P                        | 6 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Fuel for Power Prod                       | 1 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Labor & Exp Oper Pwr Prod                 | 6 | (833)         | (449)        | (251)        | 0        | 0        | 0                    | (133)        |
| Labor & Exp Oper Pwr Prod                 | 6 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Purch Fuel/Power for Pump                 | 1 | (219)         | (216)        | 0            | 0        | 0        | 0                    | (3)          |
| Labor & Exp Oper Pump                     | 6 | 2,226         | 1,199        | 670          | 0        | 0        | 0                    | 356          |
| Labor & Exp Oper Pump                     | 6 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Expenses Transferred                      | 6 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Misc Exp Oper P                           | 6 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| Rents Oper P                              | 6 | 0             | 0            | 0            | 0        | 0        | 0                    | 0            |
| <b>TOTAL PUMPING EXPENSE - OPERATION</b>  |   | <b>1,173</b>  | <b>535</b>   | <b>419</b>   | <b>0</b> | <b>0</b> | <b>0</b>             | <b>220</b>   |

# PSC STAFF STUDY

|                                               |    |        | Base   | Max Day | Max Hour | Meters | Services | Billing & Collecting | Fire Service |
|-----------------------------------------------|----|--------|--------|---------|----------|--------|----------|----------------------|--------------|
| Super & Eng Maint P                           | 6  | 0      | 0      | 0       | 0        | 0      | 0        | 0                    | 0            |
| Struct & Improve Maint P                      | 6  | 0      | 0      | 0       | 0        | 0      | 0        | 0                    | 0            |
| Power Prod Equip Maint P                      | 6  | 0      | 0      | 0       | 0        | 0      | 0        | 0                    | 0            |
| Pump Equip Maint P                            | 6  | 1,778  | 958    | 535     | 0        | 0      | 0        | 0                    | 285          |
| Pump Equip Maint P                            | 6  | 1,082  | 583    | 326     | 0        | 0      | 0        | 0                    | 173          |
| TOTAL PUMPING EXPENSES - MAINTENANCE          |    | 2,860  | 1,541  | 861     | 0        | 0      | 0        | 0                    | 458          |
| <b>TOTAL PUMPING EXPENSES</b>                 |    | 4,033  | 2,076  | 1,280   | 0        | 0      | 0        | 0                    | 677          |
| <b>WATER TREATMENT</b>                        |    |        |        |         |          |        |          |                      |              |
| Super & Eng Oper WT                           | 2  | 11,573 | 7,351  | 4,106   | 0        | 0      | 0        | 0                    | 116          |
| Chemicals                                     | 1  | 4,422  | 4,353  | 0       | 0        | 0      | 0        | 0                    | 69           |
| Labor & Exp Oper WT                           | 2  | 8,903  | 5,655  | 3,159   | 0        | 0      | 0        | 0                    | 89           |
| Labor & Exp Oper WT                           | 2  | 5,849  | 3,715  | 2,075   | 0        | 0      | 0        | 0                    | 58           |
| Misc Exp Oper WT                              | 2  | 785    | 499    | 279     | 0        | 0      | 0        | 0                    | 8            |
| Misc Exp Oper WT                              | 1  | 7,987  | 7,863  | 0       | 0        | 0      | 0        | 0                    | 124          |
| Misc Exp Oper WT                              | 2  | 1,247  | 792    | 442     | 0        | 0      | 0        | 0                    | 12           |
| Rents Oper WT                                 | 2  | 0      | 0      | 0       | 0        | 0      | 0        | 0                    | 0            |
| TOTAL WT EXPENSE - OPERATION                  |    | 40,768 | 30,229 | 10,061  | 0        | 0      | 0        | 0                    | 476          |
| Super & Eng Maint WT                          | 2  | 11,606 | 7,372  | 4,118   | 0        | 0      | 0        | 0                    | 116          |
| Struct & Improve Maint WT                     | 2  | 39,116 | 24,847 | 13,878  | 0        | 0      | 0        | 0                    | 391          |
| Struct & Improve Maint WT                     | 2  | 0      | 0      | 0       | 0        | 0      | 0        | 0                    | 0            |
| WT Equip Maint WT                             | 2  | 484    | 307    | 172     | 0        | 0      | 0        | 0                    | 5            |
| WT Equip Maint WT                             | 2  | 3,551  | 2,256  | 1,260   | 0        | 0      | 0        | 0                    | 36           |
| TOTAL WT EXPENSE - MAINTENANCE                |    | 54,758 | 34,782 | 19,428  | 0        | 0      | 0        | 0                    | 548          |
| <b>TOTAL WT EXPENSE</b>                       |    | 95,524 | 65,011 | 29,489  | 0        | 0      | 0        | 0                    | 1,023        |
| <b>TRANSMISSION AND DISTRIBUTION EXPENSES</b> |    |        |        |         |          |        |          |                      |              |
| Super & Eng Oper TD                           | 11 | 1,444  | 213    | 0       | 488      | 14     | 5        | 0                    | 724          |
| Storage Facility Exp                          | 5  | 0      | 0      | 0       | 0        | 0      | 0        | 0                    | 0            |
| Storage Facility Exp                          | 5  | 0      | 0      | 0       | 0        | 0      | 0        | 0                    | 0            |
| TD Lines Exp                                  | 7  | 6,055  | 907    | 0       | 2,073    | 0      | 0        | 0                    | 3,075        |
| TD Lines Exp                                  | 7  | 472    | 71     | 0       | 162      | 0      | 0        | 0                    | 240          |
| Meter Expense                                 | 9  | 62     | 0      | 0       | 0        | 62     | 0        | 0                    | 0            |
| Meter Expense                                 | 9  | 0      | 0      | 0       | 0        | 0      | 0        | 0                    | 0            |
| Customer Install Exp                          | 10 | 25     | 0      | 0       | 0        | 0      | 25       | 0                    | 0            |
| Customer Install Exp                          | 10 | 0      | 0      | 0       | 0        | 0      | 0        | 0                    | 0            |
| Misc Exp Oper TD                              | 11 | 1,537  | 227    | 0       | 519      | 14     | 6        | 0                    | 770          |

# PSC STAFF STUDY

|                                          |    |               | Base         | Max Day  | Max Hour     | Meters     | Services  | Billing & Collecting | Fire Service |
|------------------------------------------|----|---------------|--------------|----------|--------------|------------|-----------|----------------------|--------------|
| Misc Exp Oper TD                         | 11 | 171           | 25           | 0        | 58           | 2          | 1         | 0                    | 86           |
| Misc Exp Oper TD                         | 11 | 1,268         | 187          | 0        | 428          | 12         | 5         | 0                    | 635          |
| Rents Oper TD                            | 11 | 15            | 2            | 0        | 5            | 0          | 0         | 0                    | 8            |
| TOTAL T & D EXPENSE OPERATION            |    | 11,050        | 1,633        | 0        | 3,734        | 104        | 41        | 0                    | 5,537        |
| Super & Eng Maint TD                     | 12 | 1,444         | 216          | 0        | 494          | 0          | 0         | 0                    | 733          |
| Struct & Improve Maint TD                | 12 | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Struct & Improve Maint TD                | 12 | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Dist Res Stand Maint TD                  | 5  | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| TD Main Maint TD                         | 7  | 58            | 9            | 0        | 20           | 0          | 0         | 0                    | 30           |
| TD Main Maint TD                         | 7  | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Fire Main Maint TD                       | 8  | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Services Maint TD                        | 10 | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Services Maint TD                        | 10 | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Meters Maint TD                          | 9  | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Meters Maint TD                          | 9  | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Hydrants Maint TD                        | 8  | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Hydrants Maint TD                        | 8  | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Misc Plant Maint TD                      | 12 | 3,618         | 542          | 0        | 1,239        | 0          | 0         | 0                    | 1,837        |
| Mat and Sup Maint TD                     | 12 | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Misc Maint TD                            | 0  | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Amort Def Maint TD                       | 0  | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| TOTAL T & D EXPENSE - MAINTENANCE        |    | 5,121         | 767          | 0        | 1,753        | 0          | 0         | 0                    | 2,600        |
| <b>TOTAL T &amp; D EXPENSE</b>           |    | <b>16,170</b> | <b>2,400</b> | <b>0</b> | <b>5,487</b> | <b>104</b> | <b>41</b> | <b>0</b>             | <b>8,137</b> |
| <b>CUSTOMER ACCOUNTS</b>                 |    |               |              |          |              |            |           |                      |              |
| Supervision CA                           | 13 | 1,444         | 0            | 0        | 0            | 0          | 0         | 1,443                | 1            |
| Meter Reading Exp CA                     | 14 | 799           | 0            | 0        | 0            | 0          | 0         | 799                  | 0            |
| Meter Reading Exp CA                     | 14 | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Meter Reading Exp CA                     | 14 | (1)           | 0            | 0        | 0            | 0          | 0         | (1)                  | 0            |
| Cust Rec & Collection CA                 | 13 | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Cust Rec & Collection CA                 | 13 | 2,343         | 0            | 0        | 0            | 0          | 0         | 2,342                | 2            |
| Uncollectible Accts                      | 13 | 2,234         | 0            | 0        | 0            | 0          | 0         | 2,232                | 2            |
| Misc Cust Accts Exp CA                   | 13 | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Misc Cust Accts Exp CA                   | 13 | 0             | 0            | 0        | 0            | 0          | 0         | 0                    | 0            |
| Misc Cust Accts Exp CA                   | 13 | 2,124         | 0            | 0        | 0            | 0          | 0         | 2,123                | 1            |
| Cust Serv & Info Exp CA                  | 13 | (0)           | 0            | 0        | 0            | 0          | 0         | (0)                  | (0)          |
| <b>TOTAL CUSTOMER ACCOUNTING EXPENSE</b> |    | <b>8,944</b>  | <b>0</b>     | <b>0</b> | <b>0</b>     | <b>0</b>   | <b>0</b>  | <b>8,938</b>         | <b>6</b>     |

# PSC STAFF STUDY

|                                                   |    |                | Base           | Max Day        | Max Hour      | Meters     | Services   | Billing & Collecting | Fire Service  |
|---------------------------------------------------|----|----------------|----------------|----------------|---------------|------------|------------|----------------------|---------------|
| <b>ADMINISTRATIVE AND GENERAL EXPENSES</b>        |    |                |                |                |               |            |            |                      |               |
| Salaries AG                                       | 15 | 21,628         | 11,310         | 6,085          | 954           | 17         | 6          | 1,553                | 1,700         |
| Other Supplies & Exp AG                           | 15 | 11,775         | 6,159          | 3,314          | 519           | 9          | 4          | 845                  | 926           |
| Other Supplies & Exp AG                           | 15 | 4              | 2              | 1              | 0             | 0          | 0          | 0                    | 0             |
| Other Supplies & Exp AG                           | 15 | (1)            | (0)            | (0)            | (0)           | (0)        | (0)        | (0)                  | (0)           |
| Mgmt Fees-Corporate/Shared Service Center         | 15 | 45,579         | 23,838         | 12,826         | 2,010         | 36         | 14         | 3,273                | 3,583         |
| Mgmt Fees-Call Center                             | 13 | 30,741         | 0              | 0              | 0             | 0          | 0          | 30,719               | 22            |
| Mgmt Fees-Belleville Lab                          | 2  | 20,174         | 12,815         | 7,158          | 0             | 0          | 0          | 0                    | 202           |
| Mgmt Fees- Financial ITS                          | 15 | 0              | 0              | 0              | 0             | 0          | 0          | 0                    | 0             |
| Mgmt Fees- Customer Billings ITS                  | 13 | 0              | 0              | 0              | 0             | 0          | 0          | 0                    | 0             |
| Mgmt Fees-Other ITS                               | 15 | 49,239         | 25,752         | 13,856         | 2,171         | 39         | 15         | 3,535                | 3,870         |
| Outside Services AG                               | 15 | 3,423          | 1,790          | 963            | 151           | 3          | 1          | 246                  | 269           |
| Outside Services AG                               | 15 | 31,182         | 16,308         | 8,775          | 1,375         | 25         | 9          | 2,239                | 2,451         |
| Property Insurance                                | 15 | (3,367)        | (1,781)        | (947)          | (148)         | (3)        | (1)        | (242)                | (285)         |
| Ins Gen Liab Oper AG                              | 15 | 0              | 0              | 0              | 0             | 0          | 0          | 0                    | 0             |
| Ins Work Comp AG                                  | 16 | 0              | 0              | 0              | 0             | 0          | 0          | 0                    | 0             |
| Ins Other Oper AG                                 | 15 | 0              | 0              | 0              | 0             | 0          | 0          | 0                    | 0             |
| Property Insurance                                | 15 | 0              | 0              | 0              | 0             | 0          | 0          | 0                    | 0             |
| Injuries & Damages                                | 16 | 24,801         | 13,299         | 7,134          | 1,210         | 22         | 10         | 807                  | 2,121         |
| Employee Pension & Benefits                       | 16 | 36,339         | 19,645         | 10,538         | 1,788         | 33         | 15         | 1,192                | 3,132         |
| Employee Pension & Benefits                       | 16 | 5,657          | 0              | 0              | 0             | 0          | 0          | 0                    | 0             |
| Employee Pension & Benefits                       | 16 | 16,999         | 9,190          | 4,930          | 836           | 15         | 7          | 558                  | 1,465         |
| Reg Commision Exp                                 | 15 | 811            | 424            | 228            | 36            | 1          | 0          | 58                   | 64            |
| Rents AG                                          | 15 | 2,353          | 1,230          | 662            | 104           | 2          | 1          | 169                  | 185           |
| Goodwill Advertising Exp                          | 15 | 0              | 0              | 0              | 0             | 0          | 0          | 0                    | 0             |
| Misc Exp AG                                       | 15 | 12,849         | 6,720          | 3,616          | 567           | 10         | 4          | 923                  | 1,010         |
| Research & Development                            | 15 | 0              | 0              | 0              | 0             | 0          | 0          | 0                    | 0             |
| TOTAL A & G OPERATIONS                            |    | 309,984        | 146,721        | 79,138         | 11,573        | 211        | 84         | 45,874               | 20,734        |
| General Plant Maint AG                            | 15 | 1,556          | 814            | 438            | 69            | 1          | 0          | 112                  | 122           |
| General Plant Maint AG                            | 15 | 255            | 133            | 72             | 11            | 0          | 0          | 18                   | 20            |
| TOTAL A & G EXPENSE - MAINTENANCE                 |    | 1,811          | 947            | 510            | 80            | 1          | 1          | 130                  | 142           |
| <b>TOTAL A &amp; G EXPENSE</b>                    |    | <b>311,795</b> | <b>147,668</b> | <b>79,648</b>  | <b>11,653</b> | <b>212</b> | <b>84</b>  | <b>46,004</b>        | <b>20,876</b> |
| <b>Total Operation &amp; Maintenance Expenses</b> |    | <b>448,416</b> | <b>224,747</b> | <b>114,658</b> | <b>17,140</b> | <b>316</b> | <b>126</b> | <b>54,942</b>        | <b>30,840</b> |

# PSC STAFF STUDY

|                                     |    |       | Base  | Max Day | Max Hour | Meters | Services | Billing & Collecting | Fire Service |
|-------------------------------------|----|-------|-------|---------|----------|--------|----------|----------------------|--------------|
| <b>DEPRECIATION EXPENSE</b>         |    |       |       |         |          |        |          |                      |              |
| Struct & Imp SS                     | 2  | 588   | 373   | 209     | 0        | 0      | 0        | 0                    | 6            |
| Struct & Imp P                      | 6  | 992   | 534   | 299     | 0        | 0      | 0        | 0                    | 159          |
| Struct & Imp WT                     | 2  | 4,464 | 2,836 | 1,584   | 0        | 0      | 0        | 0                    | 45           |
| Struct & Imp TD                     | 7  | 702   | 105   | 0       | 240      | 0      | 0        | 0                    | 357          |
| Struct & Imp Offices                | 15 | 102   | 54    | 29      | 5        | 0      | 0        | 7                    | 8            |
| Struct & Imp Store, Shop, Gar       | 15 | 12    | 6     | 3       | 1        | 0      | 0        | 1                    | 1            |
| Struct & Imp Misc                   | 15 | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| Collect & Impounding                | 1  | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| Lake, River & Other Intakes         | 2  | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| Wells & Springs                     | 2  | 3,255 | 2,068 | 1,155   | 0        | 0      | 0        | 0                    | 33           |
| Supply Mains                        | 2  | 1,291 | 820   | 458     | 0        | 0      | 0        | 0                    | 13           |
| Power Generation Equip Othe         | 6  | 30    | 16    | 9       | 0        | 0      | 0        | 0                    | 5            |
| Pump Equip Electric                 | 6  | 2,444 | 1,317 | 736     | 0        | 0      | 0        | 0                    | 391          |
| Pump Equip Other                    | 6  | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| WT Equip Non-Media                  | 2  | 7,442 | 4,727 | 2,640   | 0        | 0      | 0        | 0                    | 74           |
| Dist Reservoirs & Standpipe         | 5  | 1,190 | 231   | 0       | 527      | 0      | 0        | 0                    | 432          |
| Elevated Tanks & Standpipes         | 5  | 535   | 104   | 0       | 237      | 0      | 0        | 0                    | 194          |
| Ground Level Facilities             | 5  | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| TD Mains Not Classified by          | 4  | 4,081 | 611   | 0       | 1,397    | 0      | 0        | 0                    | 2,072        |
| TD Mains 4 & Less                   | 4  | 858   | 128   | 0       | 294      | 0      | 0        | 0                    | 435          |
| TD Mains 6 to 8"                    | 4  | 3,741 | 560   | 0       | 1,281    | 0      | 0        | 0                    | 1,900        |
| TD Mains 10 to 16"                  | 3  | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| TD Mains 18 & Grtr                  | 3  | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| Services                            | 10 | 5,815 | 0     | 0       | 0        | 0      | 5,807    | 0                    | 8            |
| Meters Bronze Case                  | 9  | 653   | 0     | 0       | 0        | 653    | 0        | 0                    | 0            |
| Meters Plastic Case                 | 9  | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| Meters Other                        | 9  | 344   | 0     | 0       | 0        | 344    | 0        | 0                    | 0            |
| Meters Other-Ram Rdr Unts           | 9  | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| Meter Installations                 | 9  | 2,330 | 0     | 0       | 0        | 2,330  | 0        | 0                    | 0            |
| Meter Installation Other            | 9  | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| Hydrants                            | 8  | 1,557 | 0     | 0       | 0        | 0      | 0        | 0                    | 1,557        |
| Utility Plant Acquisition Adjustmen | 17 | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| Other P/E WT Res Hand Equip         | 2  | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| Other P/E TD                        | 7  | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| Other P/E CPS                       | 15 | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| Office Furniture & Equip            | 15 | 249   | 130   | 70      | 11       | 0      | 0        | 18                   | 20           |
| Comp & Periph Equip                 | 15 | 1,930 | 1,010 | 543     | 65       | 2      | 1        | 139                  | 152          |
| Computer Software                   | 15 | 4,796 | 2,508 | 1,350   | 212      | 4      | 1        | 344                  | 377          |
| Comp Software Personal              | 15 | 0     | 0     | 0       | 0        | 0      | 0        | 0                    | 0            |
| Data Handling Equipment             | 15 | 3,142 | 1,643 | 884     | 139      | 3      | 1        | 226                  | 247          |

# PSC STAFF STUDY

|                                                        |    |                   | Base              | Max Day           | Max Hour         | Meters           | Services         | Billing & Collecting | Fire Service     |
|--------------------------------------------------------|----|-------------------|-------------------|-------------------|------------------|------------------|------------------|----------------------|------------------|
| Other Office Equipment                                 | 15 | 209               | 109               | 59                | 9                | 0                | 0                | 15                   | 16               |
| Trans Equip Lt Duty Trks                               | 15 | 0                 | 0                 | 0                 | 0                | 0                | 0                | 0                    | 0                |
| Trans Equip Hvy Duty Trks                              | 15 | 0                 | 0                 | 0                 | 0                | 0                | 0                | 0                    | 0                |
| Trans Equip Autos                                      | 15 | 0                 | 0                 | 0                 | 0                | 0                | 0                | 0                    | 0                |
| Trans Equip Other                                      | 15 | 0                 | 0                 | 0                 | 0                | 0                | 0                | 0                    | 0                |
| Stores Equipment                                       | 15 | 458               | 240               | 129               | 20               | 0                | 0                | 33                   | 36               |
| Tools,Shop,Garage Equip                                | 15 | 1,652             | 864               | 465               | 73               | 1                | 0                | 119                  | 130              |
| Tools,Shop,Garage Equip Otr                            | 15 | 0                 | 0                 | 0                 | 0                | 0                | 0                | 0                    | 0                |
| Laboratory Equipment                                   | 2  | 1,032             | 656               | 366               | 0                | 0                | 0                | 0                    | 10               |
| Laboratory Equip Other                                 | 2  | 0                 | 0                 | 0                 | 0                | 0                | 0                | 0                    | 0                |
| Power Operated Equipment                               | 15 | 0                 | 0                 | 0                 | 0                | 0                | 0                | 0                    | 0                |
| Comm Equip Non-Telephone                               | 15 | 1                 | 0                 | 0                 | 0                | 0                | 0                | 0                    | 0                |
| Comm Equip Telephone                                   | 15 | 13                | 7                 | 4                 | 1                | 0                | 0                | 1                    | 1                |
| Misc Equipment                                         | 15 | 1,227             | 642               | 345               | 54               | 1                | 0                | 88                   | 96               |
| Other Tangible Property                                | 15 | 7,068             | 3,696             | 1,969             | 312              | 6                | 2                | 507                  | 556              |
| <b>Total Depreciation Expense</b>                      |    | <b>64,203</b>     | <b>25,997</b>     | <b>13,326</b>     | <b>4,897</b>     | <b>3,343</b>     | <b>5,814</b>     | <b>1,498</b>         | <b>9,330</b>     |
| Amort-Other UP                                         | 18 | 720               | 272               | 134               | 74               | 40               | 54               | 8                    | 139              |
| <b>Taxes Other Than Income</b>                         |    |                   |                   |                   |                  |                  |                  |                      |                  |
| Utility Reg Assessment Fee                             | 19 | 887               | 410               | 208               | 51               | 17               | 24               | 75                   | 95               |
| Property Taxes                                         | 18 | 21,408            | 8,086             | 3,980             | 2,199            | 1,175            | 1,618            | 225                  | 4,125            |
| FUTA                                                   | 16 | 115               | 62                | 33                | 6                | 0                | 0                | 4                    | 10               |
| FICA                                                   | 16 | 8,816             | 4,658             | 2,499             | 424              | 8                | 3                | 283                  | 743              |
| SUTA                                                   | 16 | 296               | 160               | 86                | 15               | 0                | 0                | 10                   | 25               |
| Other Taxes & Licenses                                 | 15 | 566               | 296               | 159               | 25               | 0                | 0                | 41                   | 44               |
| Gross Receipts Tax                                     | 19 | 0                 | 0                 | 0                 | 0                | 0                | 0                | 0                    | 0                |
| <b>Total Taxes, Other Than Income</b>                  |    | <b>31,887</b>     | <b>13,671</b>     | <b>6,964</b>      | <b>2,719</b>     | <b>1,201</b>     | <b>1,646</b>     | <b>636</b>           | <b>5,043</b>     |
| <b>Income Taxes</b>                                    | 18 | <b>49,762</b>     | <b>18,795</b>     | <b>9,251</b>      | <b>5,111</b>     | <b>2,732</b>     | <b>3,762</b>     | <b>523</b>           | <b>9,589</b>     |
| <b>Utility Income Available for Return</b>             | 18 | <b>99,606</b>     | <b>37,621</b>     | <b>18,517</b>     | <b>10,230</b>    | <b>5,468</b>     | <b>7,530</b>     | <b>1,048</b>         | <b>19,194</b>    |
| <b>Total Cost of Service</b>                           |    | <b>694,595</b>    | <b>321,103</b>    | <b>162,849</b>    | <b>40,169</b>    | <b>13,100</b>    | <b>18,932</b>    | <b>58,652</b>        | <b>74,134</b>    |
| <b>Less: Other Water Revenues</b>                      | 19 | <b>210</b>        | <b>210</b>        | <b>0</b>          | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>             | <b>0</b>         |
| Revenue Shift                                          | 19 | 0                 | 0                 | 0                 | 0                | 0                | 0                | 0                    | 0                |
| <b>Total Other Water Revenues</b>                      |    | <b>210</b>        | <b>210</b>        | <b>0</b>          | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>             | <b>0</b>         |
| <b>Total Cost of Service Related to Sales of Water</b> |    | <b>694,805</b>    | <b>321,313</b>    | <b>162,849</b>    | <b>40,169</b>    | <b>13,100</b>    | <b>18,932</b>    | <b>58,652</b>        | <b>74,134</b>    |
| Reallocation of Public Fire                            | 20 | 0                 | 39,250            | 19,907            | 4,908            | 0                | 0                | 0                    | (64,065)         |
| <b>Total</b>                                           |    | <b>\$ 694,805</b> | <b>\$ 360,563</b> | <b>\$ 182,756</b> | <b>\$ 45,077</b> | <b>\$ 13,100</b> | <b>\$ 18,932</b> | <b>\$ 58,652</b>     | <b>\$ 10,070</b> |
|                                                        |    |                   | 23,212            |                   |                  | 5,714            | 5,494            | 64,859               |                  |
|                                                        |    |                   | 15,533            |                   |                  | 2,29             | 3,45             |                      |                  |
|                                                        |    |                   |                   |                   |                  | 0.19             | 0.29             | 0.90                 |                  |
|                                                        |    |                   |                   |                   |                  |                  |                  | 1.38                 |                  |

# PSC STAFF STUDY

|        |                                         |    | Base    | Max Day | Max Hour | Meters | Services | Billing & Collecting | Fire Service |
|--------|-----------------------------------------|----|---------|---------|----------|--------|----------|----------------------|--------------|
| 0.0    | <b>RATE BASE</b>                        |    |         |         |          |        |          |                      |              |
| (0.1)  | Organization                            | 17 | 1,001   | 379     | 187      | 103    | 55       | 75                   | 192          |
| (0.1)  | Franchises                              | 17 | 1,092   | 414     | 204      | 112    | 60       | 82                   | 210          |
| 2.4    | Land & Ld Rights SS                     | 2  | 11,981  | 7,610   | 4,251    | 0      | 0        | 0                    | 120          |
| 0.0    | Land & Ld Rights P                      | 6  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.3    | Land & Ld Rights WT                     | 2  | 1,468   | 932     | 521      | 0      | 0        | 0                    | 15           |
| 0.0    | Land & Ld Rights TD                     | 7  | 591     | 89      | 0        | 202    | 0        | 0                    | 300          |
| 0.0    | Land & Land Rights AG                   | 15 | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 4.8    | Struct & Imp SS                         | 2  | 23,993  | 15,240  | 8,513    | 0      | 0        | 0                    | 240          |
| 5.7    | Struct & Imp P                          | 6  | 57,331  | 30,896  | 17,262   | 0      | 0        | 0                    | 9,179        |
| 0.0    | Struct & Imp Pumps (STL)                | 6  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Struct & Imp Pump Boosters              | 6  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 54.8   | Struct & Imp WT                         | 2  | 273,867 | 173,960 | 97,168   | 0      | 0        | 0                    | 2,739        |
| 0.0    | Struct & Imp WT Nth Pit (ST             | 2  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Struct & Imp WT Ctrl Pit 1              | 2  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Struct & Imp WT Ctrl Pit 3              | 2  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Struct & Imp WT Sth Pit (ST             | 2  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Struct & Imp WT Meramec (ST             | 2  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Struct & Imp TD                         | 7  | 26,302  | 3,940   | 0        | 9,006  | 0        | 0                    | 13,356       |
| 0.0    | Struct & Imp TD Spec Cross              | 7  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| (3.4)  | Struct & Imp Offices                    | 15 | 4,270   | 2,233   | 1,202    | 188    | 3        | 1                    | 307          |
| 0.0    | Struct & Imp Leasehold                  | 15 | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Struct & Imp Leasehold                  | 15 | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| (0.4)  | Struct & Imp Store,Shop,Gar             | 15 | 500     | 262     | 141      | 22     | 0        | 0                    | 36           |
| (14.1) | Struct & Imp Misc                       | 15 | 17,568  | 9,188   | 4,944    | 775    | 14       | 5                    | 1,261        |
| 0.0    | Collect & Impounding                    | 1  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Lake, River & Other Intakes             | 2  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 39.0   | Wells & Springs                         | 2  | 194,932 | 123,821 | 69,162   | 0      | 0        | 0                    | 1,949        |
| 0.4    | Supply Mains                            | 2  | 1,804   | 1,146   | 640      | 0      | 0        | 0                    | 18           |
| 16.1   | Supply Mains Nth Pit (STL)              | 2  | 80,682  | 51,249  | 28,626   | 0      | 0        | 0                    | 807          |
| 0.0    | Supply Mains Ctrl Pit (STL)             | 2  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Supply Mains Sth Pit (STL)              | 2  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Supply Mains Meramec Pit (S             | 2  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.1    | Power Generation Equip Othe             | 6  | 1,498   | 807     | 451      | 0      | 0        | 0                    | 240          |
| 0.0    | Boiler Plant Equipment P                | 6  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Pump Equip Steam                        | 6  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 10.0   | Pump Equip Electric                     | 6  | 100,165 | 53,979  | 30,160   | 0      | 0        | 0                    | 16,036       |
| 0.0    | Pump Equip Elec Pre46 (STL)             | 6  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Pump Equip Elec Post46 (STL)            | 6  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Pump Equip Elec Boosters Po             | 6  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Pump Equip Diesel                       | 6  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Pump Equip Diesel Stratman <sup>1</sup> | 6  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Pump Equip Diesel Ctrl Pit              | 6  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | Pump Equip Hydraulic                    | 6  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 2.0    | Pump Equip Other                        | 6  | 19,582  | 10,553  | 5,896    | 0      | 0        | 0                    | 3,135        |
| 38.8   | WT Equip Non-Media                      | 2  | 193,914 | 123,174 | 68,801   | 0      | 0        | 0                    | 1,939        |
| 0.0    | WT Equip Non-Med North (STL             | 2  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | WT Equip Non Media Ctrl 1 &             | 2  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | WT Equip Non Media Ctrl 3 (             | 2  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 0.0    | WT Equip Non Media Sth (STL             | 2  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 14.8   | WT Equip Non Media Mer (STL             | 2  | 73,777  | 46,863  | 26,176   | 0      | 0        | 0                    | 738          |
| 0.0    | WT Equip Filter Media                   | 5  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |
| 10.6   | Dist Reservoirs & Standpipe             | 5  | 52,904  | 10,253  | 0        | 23,442 | 0        | 0                    | 19,209       |
| 4.8    | Elevated Tanks & Standpipes             | 5  | 23,775  | 4,608   | 0        | 10,535 | 0        | 0                    | 8,633        |
| 0.0    | Ground Level Facilities                 | 5  | 0       | 0       | 0        | 0      | 0        | 0                    | 0            |

# PSC STAFF STUDY

|         |                                 |    | Base      | Max Day | Max Hour | Meters  | Services | Billing & Collecting | Fire Service |
|---------|---------------------------------|----|-----------|---------|----------|---------|----------|----------------------|--------------|
| 0.0     | TD Mains Not Classified by      | 7  | 272,057   | 40,754  | 0        | 93,152  | 0        | 0                    | 138,151      |
| 0.0     | TD Mains 4 & Less               | 4  | 57,171    | 8,564   | 0        | 19,575  | 0        | 0                    | 29,031       |
| 0.0     | TD Mains 6 to 8"                | 4  | 249,384   | 37,358  | 0        | 85,389  | 0        | 0                    | 126,637      |
| 0.0     | TD Mains 10 to 16"              | 3  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | TD Mains 18 & Grtr              | 3  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | TD Mains AC 4 (STL)             | 4  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | TD Mains CI <10 1900-28 (S"     | 4  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | TD Mains CI <10 1929-56 (S"     | 4  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | TD Mains CI <10 1957-93 (S"     | 4  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | TD Mains CI 12 (STL)            | 3  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | TD Mains CI 16 (STL)            | 3  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | TD Mains DI 6-8 (STL)           | 4  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | TD Mains DI 12 (STL)            | 3  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | TD Mains DI 16 & >(STL)         | 3  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | TD Mains Galve 1 (STL)          | 4  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | TD Mains LJ 20 (STL)            | 3  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | Fire Mains                      | 6  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | Services                        | 10 | 188,793   | 0       | 0        | 0       | 188,548  | 0                    | 245          |
| 0.0     | Meters Bronze Case              | 9  | 26,875    | 0       | 0        | 26,875  | 0        | 0                    | 0            |
| 0.0     | Meters Plastic Case             | 9  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | Meters Other                    | 9  | 14,149    | 0       | 0        | 14,149  | 0        | 0                    | 0            |
| 0.0     | Meters Other-Ram Rdr Units      | 9  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | Meter Installations             | 9  | 95,879    | 0       | 0        | 95,879  | 0        | 0                    | 0            |
| 0.0     | Meter Installation Other        | 9  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | Hydrants                        | 8  | 81,097    | 0       | 0        | 0       | 0        | 0                    | 81,097       |
| 0.0     | Other P/E Intangible            | 15 | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | Other P/E WT Res Hand Equip     | 2  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | Other P/E TD                    | 7  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| (5.8)   | Other P/E CPS                   | 15 | 7,277     | 3,806   | 2,048    | 321     | 8        | 523                  | 572          |
| (5.0)   | Office Furniture & Equip        | 15 | 6,237     | 3,262   | 1,755    | 275     | 5        | 448                  | 490          |
| (10.8)  | Comp & Periph Equip             | 15 | 13,509    | 7,065   | 3,801    | 596     | 11       | 970                  | 1,062        |
| (26.9)  | Computer Software               | 15 | 33,563    | 17,553  | 9,445    | 1,480   | 27       | 2,410                | 2,638        |
| (0.5)   | Comp Software Personal          | 15 | 651       | 340     | 183      | 29      | 1        | 47                   | 51           |
| (37.7)  | Data Handling Equipment         | 15 | 47,111    | 24,639  | 13,257   | 2,078   | 38       | 3,383                | 3,703        |
| (2.5)   | Other Office Equipment          | 15 | 3,126     | 1,635   | 880      | 138     | 3        | 224                  | 246          |
| (27.5)  | Trans Equip Lt Duty Trks        | 15 | 34,315    | 17,947  | 9,656    | 1,513   | 27       | 2,484                | 2,697        |
| 0.0     | Trans Equip Hvy Duty Trks       | 15 | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| (0.7)   | Trans Equip Autos               | 15 | 827       | 432     | 233      | 36      | 1        | 59                   | 65           |
| 0.0     | Trans Equip Other               | 15 | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| (12.8)  | Stores Equipment                | 15 | 16,014    | 8,375   | 4,506    | 706     | 13       | 1,150                | 1,259        |
| (26.4)  | Tools,Shop,Garage Equip         | 15 | 33,036    | 17,278  | 9,296    | 1,457   | 26       | 2,372                | 2,597        |
| 0.0     | Tools,Shop,Garage Equip Otr     | 15 | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 0.0     | Laboratory Equipment            | 2  | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| 5.2     | Laboratory Equip Other          | 2  | 25,810    | 16,395  | 9,157    | 0       | 0        | 0                    | 258          |
| 0.0     | Power Operated Equipment        | 15 | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |
| (0.0)   | Comm Equip Non-Telephone        | 15 | 12        | 6       | 3        | 1       | 0        | 1                    | 1            |
| (0.2)   | Comm Equip Telephone            | 15 | 193       | 101     | 54       | 9       | 0        | 14                   | 15           |
| (113.1) | Misc Equipment                  | 15 | 141,351   | 73,926  | 39,776   | 6,234   | 113      | 10,149               | 11,110       |
| (2.5)   | Other Tangible Property         | 17 | 24,548    | 9,296   | 4,578    | 2,516   | 1,343    | 1,846                | 4,718        |
| 0.0     |                                 |    |           |         |          |         |          |                      |              |
| (80.7)  | Total Utility Plant in Service  |    | 2,535,983 | 960,330 | 472,933  | 259,889 | 138,648  | 190,659              | 487,454      |
| 0.0     |                                 |    |           |         |          |         |          |                      |              |
| 0.0     | Other Rate Base Items           |    |           |         |          |         |          |                      |              |
| 0.0     | Add:                            |    |           |         |          |         |          |                      |              |
| 0.0     | Other Utility Plant Adjustments | 17 | 0         | 0       | 0        | 0       | 0        | 0                    | 0            |

# PSC STAFF STUDY

|        |                                      |    |              | Base       | Max Day    | Max Hour   | Meters     | Services   | Billing & Collecting | Fire Service |
|--------|--------------------------------------|----|--------------|------------|------------|------------|------------|------------|----------------------|--------------|
| (9.5)  | Cash Working Capital                 | 15 | 11,831       | 6,188      | 3,329      | 522        | 9          | 4          | 849                  | 930          |
| (3.7)  | Materials and Supplies               | 15 | 4,586        | 2,398      | 1,290      | 202        | 4          | 1          | 329                  | 360          |
| (3.0)  | Prepayments                          | 15 | 3,784        | 1,979      | 1,065      | 167        | 3          | 1          | 272                  | 297          |
| (25.3) | OPEB's Contributed to External Func  | 16 | 22,991       | 12,429     | 6,687      | 1,131      | 21         | 9          | 754                  | 1,982        |
| 0.0    | Premature Retirement                 | 17 | 0            | 0          | 0          | 0          | 0          | 0          | 0                    | 0            |
| 0.0    | Regulatory Deferrals                 | 17 | 0            | 0          | 0          | 0          | 0          | 0          | 0                    | 0            |
|        | Less:                                |    |              |            |            |            |            |            |                      |              |
| 0.0    | Accumulated Deferred ITC (3%)        | 17 | 0            | 0          | 0          | 0          | 0          | 0          | 0                    | 0            |
| 13.3   | Deferred Income Taxes                | 17 | (133,012)    | (50,372)   | (24,807)   | (13,634)   | (7,276)    | (10,002)   | (1,370)              | (25,565)     |
| 60.6   | Pensions                             | 16 | (55,053)     | (28,762)   | (15,965)   | (2,709)    | (50)       | (22)       | (1,806)              | (4,746)      |
| 0.0    |                                      |    |              |            |            |            |            |            |                      |              |
| 32.4   | Total Other Rate Base Elements       |    | (144,874)    | (57,140)   | (28,420)   | (14,320)   | (7,288)    | (10,009)   | (971)                | (26,741)     |
| 0.0    |                                      |    |              |            |            |            |            |            |                      |              |
| (48.3) | Total Original Cost Measure of Value |    | \$ 2,391,109 | \$ 903,191 | \$ 444,512 | \$ 245,568 | \$ 131,359 | \$ 180,650 | \$ 25,120            | \$ 460,713   |

|           |                               |           |         |         |         |         |         |        |         |
|-----------|-------------------------------|-----------|---------|---------|---------|---------|---------|--------|---------|
| 0.0       | T&D OP BASIS FOR FACTOR 11    | 6,614     | 978     | 0       | 2,235   | 62      | 25      | 0      | 3,315   |
| 1.0000    | FACTOR 11                     |           | 0.1478  | 0.0000  | 0.3379  | 0.0094  | 0.0037  | 0.0000 | 0.5011  |
| 0.0       | T&D Mnt BASIS FOR FACTOR 12   | 58        | 9       | 0       | 20      | 0       | 0       | 0      | 30      |
| 1.0000    | FACTOR 12                     |           | 0.1498  | 0.0000  | 0.3424  | 0.0000  | 0.0000  | 0.0000 | 0.5078  |
| (122.3)   | A&G BASIS FOR FACTOR 15       | 124,432   | 65,078  | 35,010  | 5,487   | 104     | 41      | 8,938  | 9,774   |
| 0.9992    | FACTOR 15                     |           | 0.5230  | 0.2814  | 0.0441  | 0.0008  | 0.0003  | 0.0718 | 0.0786  |
| (144.1)   | LABOR BASIS FOR FACTOR 16     | 119,072   | 64,370  | 34,525  | 5,856   | 109     | 43      | 3,907  | 10,262  |
| 0.9989    | FACTOR 16                     |           | 0.5406  | 0.2900  | 0.0492  | 0.0009  | 0.0004  | 0.0328 | 0.0862  |
| (78.0)    | UPIS BASIS FOR FACTOR 17      | 2,509,342 | 950,241 | 487,964 | 257,158 | 137,191 | 188,655 | 25,816 | 482,334 |
| 0.9999    | FACTOR 17                     |           | 0.3787  | 0.1865  | 0.1025  | 0.0547  | 0.0752  | 0.0103 | 0.1922  |
| (48.3)    | RATE BASE BASIS FOR FACTOR 18 | 2,391,109 | 903,191 | 444,512 | 245,568 | 131,359 | 180,650 | 25,120 | 460,713 |
| 1.0001    | FACTOR 18                     |           | 0.3778  | 0.1859  | 0.1027  | 0.0549  | 0.0756  | 0.0105 | 0.1927  |
| (6,010.5) | TOTAL COS BASIS FOR FACTOR 19 | 692,896   | 320,269 | 162,413 | 40,082  | 13,083  | 18,908  | 58,519 | 73,976  |
| 0.9913    | FACTOR 19                     |           | 0.4622  | 0.2344  | 0.0578  | 0.0189  | 0.0273  | 0.0845 | 0.1068  |
| 0         | TOTAL COS BASIS FOR FACTOR 20 | 524,121   | 321,103 | 162,849 | 40,169  |         |         |        |         |
| 1.0000    | FACTOR 20                     |           | 0.6126  | 0.3107  | 0.0766  |         |         |        |         |

| 20     |    | 2      | 4       | 6        | 8      | 10       | 12                   | 14           |
|--------|----|--------|---------|----------|--------|----------|----------------------|--------------|
| Total  |    | Base   | Max Day | Max Hour | Meters | Services | Billing & Collecting | Fire Service |
| 1.0000 | 1  | 0.9845 | -       | -        | -      | -        | -                    | 0.0155       |
| 1.0002 | 2  | 0.6352 | 0.3548  | -        | -      | -        | -                    | 0.0100       |
| 1.0002 | 3  | 0.5389 | 0.3011  | -        | -      | -        | -                    | 0.1601       |
| 1.0000 | 4  | 0.1498 | -       | 0.3424   | -      | -        | -                    | 0.5078       |
| 1.0002 | 5  | 0.1938 | -       | 0.4431   | -      | -        | -                    | 0.3631       |
| 1.0001 | 6  | 0.5389 | 0.3011  | -        | -      | -        | -                    | 0.1601       |
| 1.0000 | 7  | 0.1498 | -       | 0.3424   | -      | -        | -                    | 0.5078       |
| 1.0000 | 8  | -      | -       | -        | -      | -        | -                    | 1.0000       |
| 1.0000 | 9  | -      | -       | -        | 1.0000 | -        | -                    | -            |
| 1.0000 | 10 | -      | -       | -        | -      | 0.9987   | -                    | 0.0013       |
| 1.0000 | 11 | 0.1478 | -       | 0.3379   | 0.0094 | 0.0037   | -                    | 0.5011       |
| 1.0000 | 12 | 0.1498 | -       | 0.3424   | -      | -        | -                    | 0.5078       |
| 0.9999 | 13 | -      | -       | -        | -      | -        | 0.9993               | 0.0007       |

# PSC STAFF STUDY

|        |    | Base   | Max Day | Max Hour | Meters | Services | Billing &<br>Collecting | Fire<br>Service |
|--------|----|--------|---------|----------|--------|----------|-------------------------|-----------------|
| 1.0001 | 14 | -      | -       | -        | -      | -        | 1.0000                  | -               |
| 0.9992 | 15 | 0.5230 | 0.2814  | 0.0441   | 0.0008 | 0.0003   | 0.0718                  | 0.0786          |
| 0.9989 | 16 | 0.5406 | 0.2900  | 0.0492   | 0.0009 | 0.0004   | 0.0328                  | 0.0862          |
| 0.9999 | 17 | 0.3787 | 0.1865  | 0.1025   | 0.0547 | 0.0752   | 0.0103                  | 0.1922          |
| 1.0001 | 18 | 0.3777 | 0.1859  | 0.1027   | 0.0549 | 0.0756   | 0.0105                  | 0.1927          |
| 0.9913 | 19 | 0.4622 | 0.2344  | 0.0578   | 0.0189 | 0.0273   | 0.0845                  | 0.1068          |
| 1.0000 | 20 | 0.6126 | 0.3107  | 0.0766   | -      | -        | -                       | -               |

**MISSOURI-AMERICAN WATER COMPANY  
BRUNSWICK DISTRICT  
PSC STAFF STUDY  
FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS**

**FACTOR 1.**

**ALLOCATION OF COSTS THAT VARY WITH THE AMOUNT OF WATER CONSUMED.**

Factors are based on the pro forma test year average daily consumption for each customer classification.

| Customer<br>Classification | Average Daily<br>Consumption,<br>Thousand Gallons | Allocation<br>Factor |
|----------------------------|---------------------------------------------------|----------------------|
| (1)                        | (2)                                               | (3)                  |
| Residential                | 47.9                                              | 0.7416               |
| Commercial                 | 14.0                                              | 0.2173               |
| Industrial                 | 0.1                                               | 0.0019               |
| Other Public Authority     | 1.5                                               | 0.0237               |
| Sales for Resale           | 0.0                                               | 0.0000               |
| Private Fire Protection    | 0.1                                               | 0.0023               |
| Public Fire Protection     | 0.9                                               | 0.0132               |
| Total                      | 64.6                                              | 1.0000               |

**FACTOR 2.**

**ALLOCATION OF COSTS ASSOCIATED WITH FACILITIES SERVING BASE AND  
MAXIMUM DAY EXTRA CAPACITY FUNCTIONS.**

Factors are based on the weighting of the factors for average daily consumption (Factor 1) and the factors derived from maximum day extra capacity demand for each customer classification, as follows:

| Customer<br>Classification | Average Daily<br>Consumption |                    | Maximum Day<br>Extra Capacity |                    | Allocation<br>Factor |
|----------------------------|------------------------------|--------------------|-------------------------------|--------------------|----------------------|
|                            | Allocation<br>Factor 1       | Weighted<br>Factor | Allocation<br>Factor          | Weighted<br>Factor |                      |
| (1)                        | (2)                          | (3)=(2)x<br>0.6452 | (4)                           | (5)=(4)x<br>0.3548 | (6)=(3)+(5)          |
| Residential                | 0.7416                       | 0.4785             | 0.8037                        | 0.2853             | 0.7638               |
| Commercial                 | 0.2173                       | 0.1402             | 0.1762                        | 0.0625             | 0.2027               |
| Industrial                 | 0.0019                       | 0.0012             | 0.0017                        | 0.0006             | 0.0018               |
| Other Public Authority     | 0.0237                       | 0.0153             | 0.0185                        | 0.0066             | 0.0219               |
| Sales for Resale           | 0.0000                       | 0.0000             | 0.0000                        | 0.0000             | 0.0000               |
| Private Fire Protection    | 0.0023                       | 0.0015             |                               |                    | 0.0015               |
| Public Fire Protection     | 0.0132                       | 0.0085             |                               |                    | 0.0085               |
| Total                      | 1.0000                       | 0.6452             | 1.0001                        | 0.3550             | 1.0002               |

The derivation of the maximum day extra capacity factors in column 4 and the basis for the column 3 and 5 weightings are presented on the following page.

**MISSOURI-AMERICAN WATER COMPANY  
BRUNSWICK DISTRICT  
PSC STAFF STUDY**

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 2. MAX DAY CLASS ALLOCATION AND MAX DAY TO AVERAGE DAY  
MAXIMUM DAY EXTRA CAPACITY FUNCTIONS, cont.**

| Customer<br>Classification<br>(1) | Average Daily<br>Consumption,<br>Thousand Gal.<br>(2) | Maximum Day Extra Capacity |                                                          |                             |
|-----------------------------------|-------------------------------------------------------|----------------------------|----------------------------------------------------------|-----------------------------|
|                                   |                                                       | Factor*<br>(3)             | Rate of Flow,<br>Thousand Gal.<br>Per Day<br>(4)=(2)x(3) | Allocation<br>Factor<br>(5) |
| Residential                       | 47.9                                                  | 1.00                       | 47.9                                                     | 0.8037                      |
| Commercial                        | 14.0                                                  | 0.75                       | 10.5                                                     | 0.1762                      |
| Industrial                        | 0.1                                                   | 0.50                       | 0.1                                                      | 0.0017                      |
| Other Public Authority            | 1.5                                                   | 0.75                       | 1.1                                                      | 0.0185                      |
| Sales for Resale                  | 0.0                                                   | 0.90                       | 0.0                                                      | 0.0000                      |
| <b>Total</b>                      | <b>63.6</b>                                           |                            | <b>59.6</b>                                              | <b>1.0001</b>               |

The weighting of the factors is based on the maximum day ratio of 1.55, based on a review of maximum day ratios experienced during the period 1990 through 2006 .

|                               | Maximum<br>Day<br>Ratio | Weight        |
|-------------------------------|-------------------------|---------------|
| Average Day                   | 1.00                    | 0.6452        |
| Maximum Day<br>Extra Capacity | 0.55                    | 0.3548        |
| <b>Total</b>                  | <b>1.55</b>             | <b>1.0000</b> |

\* Ratio of maximum day to average day minus 1.0.

**MISSOURI-AMERICAN WATER COMPANY  
BRUNSWICK DISTRICT  
PSC STAFF STUDY**

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 3.**

**ALLOCATION OF COSTS ASSOC. WITH FACILITIES SERVING BASE, MAX DAY EXTRA CAPACITY  
AND FIRE PROTECTION FUNCTIONS.**

Factors are based on the weighting of the average daily consumption, the maximum day extra capacity demand, and the fire protection demand for each customer classification.

| Customer<br>Classification | Average Daily<br>Consumption |                     | Maximum Day<br>Extra Capacity |                     | Fire Protection      |                     | Allocation<br>Factor |
|----------------------------|------------------------------|---------------------|-------------------------------|---------------------|----------------------|---------------------|----------------------|
|                            | Allocation<br>Factor         | Weighted<br>Factor  | Allocation<br>Factor          | Weighted<br>Factor  | Allocation<br>Factor | Weighted<br>Factor  |                      |
| (1)                        | (2)                          | (3)=(2) X<br>0.5474 | (4)                           | (5)=(4) X<br>0.3011 | (6)                  | (7)=(6) X<br>0.1516 | (8)=(3)+(5)+(7)      |
| Residential                | 0.7416                       | 0.4060              | 0.8037                        | 0.2419              |                      |                     | 0.6480               |
| Commercial                 | 0.2173                       | 0.1190              | 0.1762                        | 0.0531              |                      |                     | 0.1721               |
| Industrial                 | 0.0019                       | 0.0010              | 0.0017                        | 0.0005              |                      |                     | 0.0015               |
| Other Public Authority     | 0.0237                       | 0.0130              | 0.0185                        | 0.0056              |                      |                     | 0.0186               |
| Sales for Resale           | 0.0000                       | 0.0000              | 0.0000                        | 0.0000              |                      |                     | -0.0001              |
| Private Fire Protection    | 0.0023                       | 0.0013              |                               |                     | 0.1494               | 0.0226              | 0.0239               |
| Public Fire Protection     | 0.0132                       | 0.0072              |                               |                     | 0.8506               | 0.1290              | 0.1362               |
| Total                      | 1.0000                       | 0.5475              | 1.0001                        | 0.3011              | 1.0000               | 0.1516              | 1.0002               |

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 3. Continued**

**ALLOCATION OF COSTS ASSOC WITH FACILITIES SERVING BASE, MAXIMUM  
DAY EXTRA CAPACITY AND FIRE PROTECTION FUNCTIONS, cont.**

The weighting of the factors is based on the potential demand of general and fire protection service. The bases for the potential demand of general service are the maximum day ratio of 1.55. The system demand for fire protection is 300 Gallons per minute for 2 hours.

|                 | <u>Ratio</u> | <u>Rate of Flow,<br/>(GPD)</u> | <u>Weight</u> |
|-----------------|--------------|--------------------------------|---------------|
| Average Day     | 1.00         | 130,000                        | 0.5474        |
| Maximum Day     |              |                                |               |
| Extra Capacity  | <u>0.55</u>  | <u>71,500</u>                  | <u>0.3011</u> |
| Subtotal        | <u>1.55</u>  | 201,500                        | 0.8485        |
| Fire Protection |              | <u>36,000</u>                  | <u>0.1516</u> |
| Total           |              | <u>237,500</u>                 | <u>1.0001</u> |

The public and private fire protection allocation factors in column 6 on the previous page are based on the deliverability of 300 gallons per minute for 2 hours.

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 4.**

**ALLOCATION OF COSTS ASSOC. WITH FACILITIES SERVING BASE AND MAX HOUR EXTRA CAPACITY FUNCT'S.**

Factors are based on the weighting of the average daily consumption, the maximum day extra capacity demand, and the fire protection demand for each customer classification.

| Customer<br>Classification | Average Hourly Consumption |                      |                     | Maximum Hour<br>Extra Capacity |                     | Fire Protection      |                     | Allocation<br>Factor |
|----------------------------|----------------------------|----------------------|---------------------|--------------------------------|---------------------|----------------------|---------------------|----------------------|
|                            | Thousand<br>Gallons        | Allocation<br>Factor | Weighted<br>Factor  | Allocation<br>Factor           | Weighted<br>Factor  | Allocation<br>Factor | Weighted<br>Factor  |                      |
| (1)                        | (2)                        | (3)                  | (4)=(3) X<br>0.1521 | (5)                            | (6)=(5) X<br>0.3424 | (7)                  | (8)=(7) X<br>0.5055 | (9)=(4)+(6)+(8)      |
| Residential                | 2.00                       | 0.7416               | 0.1129              | 0.8110                         | 0.2777              |                      |                     | 0.3906               |
| Commercial                 | 0.59                       | 0.2174               | 0.0331              | 0.1698                         | 0.0581              |                      |                     | 0.0912               |
| Industrial                 | 0.01                       | 0.0019               | 0.0003              | 0.0007                         | 0.0002              |                      |                     | 0.0005               |
| Other Public Authority     | 0.06                       | 0.0237               | 0.0036              | 0.0185                         | 0.0063              |                      |                     | 0.0099               |
| Sales for Resale           | 0.00                       | 0.0000               | 0.0000              | 0.0000                         | 0.0000              |                      |                     | 0.0000               |
| Private Fire Protection    | 0.01                       | 0.0023               | 0.0003              |                                |                     | 0.1494               | 0.0755              | 0.0758               |
| Public Fire Protection     | 0.04                       | 0.0132               | 0.0020              |                                |                     | 0.8506               | 0.4300              | 0.4320               |
| Total                      | 2.69                       | 1.0001               | 0.1522              | 1.0000                         | 0.3423              | 1.0000               | 0.5055              | 1.0000               |

The maximum hour extra capacity factors in column 5 are determined as follows:

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 4. Continued**

**ALLOCATION OF COSTS ASSOCIATED WITH FACILITIES SERVING BASE AND  
MAXIMUM HOUR EXTRA CAPACITY FUNCTIONS, cont.**

The weighting of the factors is based on the potential demand of general and fire protection service. The bases for the potential demand of general service are the maximum hour ratio of 3.25 and the average daily system sendout for 2006 of 0.130 MGD. The system demand for fire protection is 300 gallons per minute.

|                                | <u>Ratio</u> | <u>Rate of Flow,<br/>(GPM)</u> | <u>Weight</u> |
|--------------------------------|--------------|--------------------------------|---------------|
| Average Hour                   | 1.00         | 90.3                           | 0.1521        |
| Maximum Hour<br>Extra Capacity | <u>2.25</u>  | <u>203</u>                     | <u>0.3424</u> |
| Subtotal                       | <u>3.25</u>  | 293                            | 0.4945        |
| Fire Protection                |              | <u>300</u>                     | <u>0.5055</u> |
| Total                          |              | <u>593</u>                     | <u>1.0000</u> |

The maximum hour extra capacity factors in column 5 of the previous page are determined as follows:

| <u>Customer<br/>Classification</u> | <u>Average<br/>Hourly<br/>Consumption<br/>Thousand Gal.</u> | <u>Maximum Hour Extra Capacity</u> |                                   |                              |
|------------------------------------|-------------------------------------------------------------|------------------------------------|-----------------------------------|------------------------------|
|                                    |                                                             | <u>Factor*</u>                     | <u>1,000 Gallons<br/>Per Hour</u> | <u>Allocation<br/>Factor</u> |
| (1)                                | (2)                                                         | (3)                                | (4)=(2)x(3)                       | (5)                          |
| Residential                        | 2.00                                                        | 3.5                                | 6.99                              | 0.8110                       |
| Commercial                         | 0.59                                                        | 2.5                                | 1.46                              | 0.1698                       |
| Industrial                         | 0.01                                                        | 1.2                                | 0.01                              | 0.0007                       |
| Other Public Authority             | 0.06                                                        | 2.5                                | 0.16                              | 0.0185                       |
| Sales for Resale                   | <u>0.00</u>                                                 | <u>3.2</u>                         | <u>0.00</u>                       | <u>0.0000</u>                |
| Total                              | <u>2.65</u>                                                 |                                    | <u>8.61</u>                       | <u>1.0000</u>                |

\* Ratio of Maximum Hour To Average Hour Minus 1.0.

The public and private fire protection allocation factors in column 7 on the previous page are based on the relative potential demands (see Schedule E).

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FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

**FACTOR 5.**

**ALLOCATION OF COSTS ASSOCIATED WITH STORAGE FACILITIES.**

Factors are based on the weighting of the average hourly consumption, the maximum hour extra capacity demand, and the fire protection demand for each customer classification.

| Customer<br>Classification | Average Hourly Consumption |                      |                     | Maximum Hour<br>Extra Capacity |                     | Fire Protection      |                     | Allocation<br>Factor |
|----------------------------|----------------------------|----------------------|---------------------|--------------------------------|---------------------|----------------------|---------------------|----------------------|
|                            | Thousand<br>Gallons        | Allocation<br>Factor | Weighted<br>Factor  | Allocation<br>Factor           | Weighted<br>Factor  | Allocation<br>Factor | Weighted<br>Factor  |                      |
| (1)                        | (2)                        | (3)                  | (4)=(3) X<br>0.1969 | (5)                            | (6)=(5) X<br>0.4431 | (7)                  | (8)=(7) X<br>0.3600 | (9)=(4)+(6)+(8)      |
| Residential                | 1.996                      | 0.7416               | 0.1460              | 0.8110                         | 0.3595              |                      |                     | 0.5055               |
| Commercial                 | 0.585                      | 0.2174               | 0.0428              | 0.1698                         | 0.0752              |                      |                     | 0.1180               |
| Industrial                 | 0.005                      | 0.0019               | 0.0004              | 0.0007                         | 0.0003              |                      |                     | 0.0007               |
| Other Public Authority     | 0.064                      | 0.0237               | 0.0047              | 0.0185                         | 0.0082              |                      |                     | 0.0129               |
| Sales for Resale           | 0.000                      | 0.0000               | 0.0000              | 0.0000                         | 0.0000              |                      |                     | 0.0000               |
| Private Fire Protection    | 0.006                      | 0.0023               | 0.0005              |                                |                     | 0.1494               | 0.0538              | 0.0543               |
| Public Fire Protection     | 0.035                      | 0.0132               | 0.0026              |                                |                     | 0.8506               | 0.3062              | 0.3088               |
| Total                      | <u>2.691</u>               | <u>1.0001</u>        | <u>0.1970</u>       | <u>1.0000</u>                  | <u>0.4432</u>       | <u>1.0000</u>        | <u>0.3600</u>       | <u>1.0002</u>        |

The weighting of the factors is based on the ratio of the capacity required for a 2 hour demand of fire flow, as related to total storage capacity. The calculation is shown on the following page.