Exhibit No.:

Issues: Cost of Removal and Salvage

Witness: Edward F. Began, CPA

Sponsoring Party: MoPSC Staff

Type of Exhibit: Surrebuttal Testimony Case Nos.: WR-2003-0500

and WC-2004-0168

Date Testimony Prepared: (Consolidated)

December 5, 2003

MISSOURI PUBLIC SERVICE COMMISSION UTILITY SERVICES DIVISION

SURREBUTTAL TESTIMONY OF

EDWARD F. BEGAN, CPA

MISSOURI-AMERICAN WATER COMPANY

CASE NOS. WR-2003-0500 AND WC-2004-0168
(Consolidated)

Jefferson City, Missouri December 2003

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of the General Rate Increase for Water and Sewer Service Provided by Missouri-American Water Company.)	Case No. WR-2003-0500
Staff of the Missouri Public Service Commission, Complainant)	Case No. WC-2004-0168
v.	j	
Missouri-American Water Company, Respondent)	
AFFIDAVIT OF EDWARD	F. B	EGAN, CPA
STATE OF MISSOURI)) ss.		
COUNTY OF COLE)		
Edward F. Began, CPA, being of lawful a participated in the preparation of the following S answer form, consisting of pages to be answers in the following Surrebuttal Testimon knowledge of the matters set forth in such answer correct to the best of his knowledge and belief.	Surre pres y w	ebuttal Testimony in question and ented in the above case; that the vere given by him; that he has
Edwar	d F.	Began, CPA Began
Subscribed and sworn to before me this 44 day	of D	December 2003.
D SUZIE MANKIN Notary Public - Notary Seal STATE OF MISSOURI COLE COUNTY MY COMMISSION EXP. JUNE 21,2004)	erzillankin

1		SURREBUTTAL TESTIMONY
2		OF
3		EDWARD F. BEGAN, CPA
4		MISSOURI-AMERICAN WATER COMPANY
5		CASE NOS. WR-2003-0500 AND WC-2004-0168
6		(Consolidated)
7	Q.	Please state your name and business address.
8	A.	Edward F. Began, CPA, 1845 Borman Court, Suite 101, St. Louis, Missouri
9	63146.	
10	Q.	By whom are you employed and in what capacity?
11	A.	I am a Regulatory Auditor for the Missouri Public Service Commission
12	(MoPSC or 0	Commission).
13	Q.	Are you the same Edward F. Began, CPA, who filed direct testimony on
14	behalf of the	Staff of the Commission (Staff) in this case?
15	A.	Yes.
16	Q.	What is the purpose of your testimony?
17	A.	The purpose of my surrebuttal testimony is to respond to a portion of the
18	rebuttal testi	mony of Missouri-American Water Company's (MAWC or Company) witness
19	John J. Span	os.
20	Q.	What issue will you address?
21	A.	I will address cost of removal and salvage.
22	Q.	In his rebuttal testimony, has Mr. Spanos objected to the amount you have
23	calculated fo	or the current ongoing level of cost of removal and salvage?

A. No. Although Mr. Spanos recommends the use of a future accrual method of determining cost of removal and salvage as part of the depreciation rates, he has not

raised any objections to the amount I have calculated as the current ongoing level of cost of

removal and salvage.

- Q. Will Staff conduct any further examination of this amount?
- A. Yes. As part of the true-up, the Staff intends to examine the level of cost of removal and salvage through November 30, 2003, to determine if an update is appropriate.
- Q. In his rebuttal testimony on page 5, lines 9 through 15, Mr. Spanos states that the Staff's method of delaying recovery of cost of removal and salvage until it is incurred results in a higher present value of revenue requirements than the Company's method. As a basis for this statement, he relies on a study attached to his testimony as Schedule JJS-2. Is this statement correct?
- A. No. If the calculation is performed correctly, the cost of expensing the current actual cost of removal net of salvage is equal to or cheaper than the future accrual method proposed by the Company. In Schedule 1, attached to my surrebuttal testimony, I show the correct calculation of the cost, on a net present value (NPV) basis, of the Staff's expensing of the current actual cost of removal net of salvage value and the Company's future accrual method.
 - Q. Please explain Schedule 1.
- A. On Schedule 1-1 attached to this surrebuttal testimony, I have reproduced the table, which appears in Schedule JJS-2 Table D1, attached to Mr. Spanos' rebuttal testimony. Column 1 shows the Company's estimated annual accrual for future cost of removal net of salvage, \$16.29. Column 2 shows the actual cost of removal net of salvage,

experienced in year 10, as being equal to the total estimated accrual. Column 3 shows the effect that the future accrual method has on the accumulated depreciation reserve, which is a deduction from rate base. Column 4 shows the reduction in the revenue requirement arising from the increase in the accumulated depreciation reserve in Column 3. Column 5 is the revenue requirement associated with the income tax on the annual accrual and the actual amount incurred in year 10 for cost of removal and salvage. Column 6 shows the total annual revenue requirement of the future accrual method and is the sum of column 1, column 4 and column 5.

Schedule 1-1 shows that the NPV of the future accrual method is \$22.72. This example also shows that expensing the actual cost of removal experienced in year 10 has an NPV of \$75.45.

- Q. Why is the NPV for the future accrual method shown on Schedule 1-1 incorrect?
- A. Schedule 1 does not reflect the way revenue requirements are calculated. Mr. Spanos' calculation does not reflect that the annual accrual is not tax deductible. A tax deduction will only be realized when the cost of removal net of salvage is actually incurred in year 10. Therefore, the cost associated with the accrual must be factored-up for taxes to reflect the non-tax deductibility of the accrual.
 - Q. How have you corrected this flaw in Schedule 1-1?
- A. On Schedule 1-2, I have correctly completed the column entitled "Tax On Accrual" (Column 5) to account for the fact that the accrual is not deductible for income taxes. On Schedule 1-2, using a NPV discount rate of 8%, the expensing method is essentially equal to the NPV of the future accrual method.

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Q. Please explain your previous statement that the expensing method is the same or cheaper than the future accrual method.

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A. Using a discount factor of 8%, as shown on Schedule 1-2, the cost of Staff's method is equal to the cost of the Company's method. However, if a discount rate of 10% is used to compute the NPV, as shown on Schedule 1-3, expensing is cheaper than annual accrual. The 10% discount rate is equal to the utility's cost of capital that has been used in

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the study appearing in Mr. Spanos' Schedule JJS-2.

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Q. Please summarize your testimony.

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A. Once the calculations appearing in Schedule JJS-2–Table D-1 are corrected,

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they no longer support Mr. Spanos' claim that the Company's accrual of future cost of

11

removal and salvage is cheaper than the Staff's method of expensing current cost of

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removal and salvage. In fact, Schedules 1-2 and 1-3 attached to my surrebuttal testimony,

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show that the cost of the Staff's method is equal to or cheaper than the cost of the

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Company's method.

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Q. Does this conclude your surrebuttal testimony?

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A. Yes.

Missouri-American Water Company

Revenue Requirement Net Present Values Of Costs Of Removal Net Of Salvage Value

Actual Expense Versus Future Accrual Methods

WR-2003-0500

Source: J. J. Spanos Rebuttal Schedule JJS-2 - Table D	Source: J. J.	Spanos Reb	outtal Schedule	JJS-2 - Table D'
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Income Tax Rate	40.00%
Rate of Return (Pre-Tax)	13.33%
Net Present Value Discounted Rate	8.00%

Net Pres	ent value Dis	scounted Rate				8.00%
<u>Year</u>	Net S Annual Accrual	Salvage Actual Loss Experience	Effect Upon Rate Base At Beginning Of Year	Reduction In Rate Base Revenue Rqmt. (Pre-Tax)	Tax On Accrual	Revenue Requirement
	Column 1	Column 2	Column 3	Column 4	Column 5	Columns 1+4+5
1	16.29	0				16.29
2	16.29	0	(16.29)	(2.17)		14.12
3	16.29	0	(32.58)	(4.34)		11.95
4	16.29	0	(48.87)	(6.51)		9.78
5	16.29	0	(65.16)	(8.69)		7.60
6	16.29	0	(81.45)	(10.86)		5.43
7	16.29	0	(97.74)	(13.03)		3.26
8	16.29	0	(114.03)	(15.20)		1.09
9	16.29	0	(130.32)	(17.37)		(1.08)
10	16.29	162.90	(146.61)	(19.54)	(65.16)	(68.41)
Total	162.90			(97.72)	(65.16)	0.02
Net Pres	ent Values	\$75.45				\$22.72

Missouri-American Water Company

Revenue Requirement Net Present Values Of Costs Of Removal Net Of Salvage Value

Actual Expense Versus Future Accrual Methods

WR-2003-0500

Same As Schedule 1 - 1 And Corrected for Accrual Being Not Tax Deductible

Income Tax Rate Rate of Return (Pre-Tax) Net Present Value Discounted Rate			40.00% 13.33% 8.00%
Net Salvage	Effect Upon Rate Base	Reduction In Rate Base	

			Effect Upon	Reduction In		
	Net S	Salvage	Rate Base	Rate Base		
	Annual	Actual Loss	At Beginning	Revenue Rqmt.	Tax On	Revenue
Year	Accrual	Experience	Of Year	(Pre-Tax)	Accrual	Requirement
	Column 1	Column 2	Column 3	Column 4	Column 5	Columns 1+4+5
	40.00	•			40.00	0= 4=
1	16.29	0			10.86	27.15
2	16.29	0	(16.29)	(2.17)	10.86	24.98
3	16.29	0	(32.58)	(4.34)	10.86	22.81
4	16.29	0	(48.87)	(6.51)	10.86	20.64
5	16.29	0	(65.16)	(8.69)	10.86	18.46
6	16.29	0	(81.45)	(10.86)	10.86	16.29
7	16.29	0	(97.74)	(13.03)	10.86	14.12
8	16.29	0	(114.03)	(15.20)	10.86	11.95
9	16.29	0	(130.32)	(17.37)	10.86	9.78
10	16.29	162.90	(146.61)	(19.54)	(97.74)	(100.99)
Total	162.90	:		(97.72)	0.00	65.18

Net Present Values \$75.45 \$75.47

Missouri-American Water Company

Revenue Requirement Net Present Values Of Costs Of Removal Net Of Salvage Value

Actual Expense Versus Future Accrual Methods

WR-2003-0500

Same as Schedule 1 - 2 With NPV Discount Rate Examined At 10%

	eturn (Pre-	Гах) scounted Rate				40.00% 13.33% 10.00%
			Effect Upon	Reduction In		
	Net S	Salvage	Rate Base	Rate Base		
	Annual	Actual Loss	At Beginning	Revenue Rqmt.	Tax On	Revenue
Year	Accrual	Experience	Of Year	(Pre-Tax)	Accrual	Requirement

	Net S	Salvage	Rate Base	Rate Base		
	Annual	Actual Loss	At Beginning	Revenue Rqmt.	Tax On	Revenue
Year	Accrual	Experience	Of Year	(Pre-Tax)	Accrual	Requirement
	Column 1	Column 2	Column 3	Column 4	Column 5	Columns 1+4+5
1	16.29	0			10.86	27.15
2	16.29	0	(16.29)	(2.17)	10.86	24.98
3	16.29	0	(32.58)	(4.34)	10.86	22.81
4	16.29	0	(48.87)	(6.51)	10.86	20.64
5	16.29	0	(65.16)	(8.69)	10.86	18.46
6	16.29	0	(81.45)	(10.86)	10.86	16.29
7	16.29	0	(97.74)	(13.03)	10.86	14.12
8	16.29	0	(114.03)	(15.20)	10.86	11.95
9	16.29	0	(130.32)	(17.37)	10.86	9.78
10	16.29	162.90	(146.61)	(19.54)	(97.74)	(100.99)
Total	162.90			(97.72)	0.00	65.18

Net Present Values \$62.81 \$75.25