Exhibit No.: Sponsoring Party: MoPSC Staff

Issue: Depreciation Witness: Gregory E. Macias Type of Exhibit: Surrebuttal Testimony Case Nos.: WR-2003-0500 AND WC-2004-0168 Date Testimony Prepared: December 5, 2003

# MISSOURI PUBLIC SERVICE COMMISSION

# UTILITY SERVICES DIVISION

# SURREBUTTAL TESTIMONY

OF

**GREGORY E. MACIAS** 

**FILED**<sup>3</sup>

JAN 2 3 2004

Missouri Public Service Commission

# **MISSOURI-AMERICAN WATER COMPANY**

### CASE NOS. WR-2003-0500 AND WC-2004-0168

Jefferson City, Missouri December 2003

	Exhibit No. 69	
Case	No(s). WE-2003-0500	
Date	12/16/03 _ Rotr SUCM	

### **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.	) )	
Missouri-American Water Company, Respondent	) ) )	

#### AFFIDAVIT OF GREGORY E. MACIAS

STATE OF MISSOURI ) ) ss. COUNTY OF COLE )

Gregory E. Macias, being of lawful age, on his oath states: that he has participated in the preparation of the following Surrebuttal Testimony in question and answer form, consisting of  $\underline{7}$  pages to be presented in the above case; that the answers in the following Surrebuttal Testimony were given by his; that he has knowledge of the matters set forth in such answers; and that such matters are true and correct to the best of his knowledge and belief.

Gregor E Macias

Subscribed and sworn to before me this  $3^{-2}$  day of December 2003.

D SUZIE MANKIN	
Notary Public - Notary Seal	
STATE OF MISSOURI	
COLECOUNTY	
MY COMMISSION EXP. JUNE 21,200	4

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1		SURREBUTTAL TESTIMONY
2		OF
3		GREGORY E. MACIAS
4		MISSOURI-AMERICAN WATER COMPANY
5		CASE NOS. WR-2003-0500 AND WC-2004-0168
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7	Q.	Please state your name and business address.
8	А.	Gregory E. Macias, P.O. Box 360, Jefferson City, MO 65102.
9	Q.	By whom are you employed and in what capacity?
10	А.	I am employed by the Missouri Public Service Commission (PSC or
11	Commission)	as a Utility Engineering Specialist II in the Engineering and Management
12	Services Depa	artment.
13	Q.	Are you the same Gregory E. Macias who has previously filed direct testimony
14	on behalf of t	he Staff of the Missouri Public Service Commission (Staff) in this proceeding?
15	A.	Yes.
16	Q.	What is the purpose of your surrebuttal testimony?
17	A.	I will respond to the rebuttal testimony of Missouri-American Water Company
18	(MAWC or C	Company) witness John J. Spanos.
19	Q.	What issues will you address?
20	А.	I will address cost of removal and gross salvage, the use of the depreciation
21	rate as a cash	flow mechanism, survivor curves and plant accounting data, and the treatment
22	of the reserve	variance.

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### **COST OF REMOVAL AND GROSS SALVAGE**

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Q. What treatment of cost of removal and gross salvage has Staff proposed?

A. The Staff has proposed that MAWC collect cost of removal less gross salvage

4 on a current basis that reflects the Company's recent historical costs.

Q. On page 2, line 3 through 15 of his rebuttal testimony, Mr. Spanos states that

6 he is "...not aware of any authoritative texts on the subject of depreciation that support Staff's

- 7 proposal..." to treat cost of removal and gross salvage as an operating expense on a current
- 8 basis. Is this a true statement?
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A. I believe that Mr. Spanos' statement is wrong and misleading. The excerpt

10 from <u>Public Utility Depreciation Practices</u> that Mr. Spanos provides in his testimony is taken

11 out of context. The full text as noted on page 157 of that publication reads:

Historically, most regulatory commissions have required that both gross salvage and cost of removal be reflected in depreciation rates. The theory behind this requirement is that, since most physical plant placed in service will have some residual value at the time of its retirement, the original cost recovered through depreciation should be reduced by that amount. *Closely associated with this reasoning are the accounting principle that revenues be matched with costs and the regulatory principle that utility customers who benefit from the consumption of plant pay for the cost of that plant, no more, no less. The application of the latter principal also requires that the estimated cost of removal of plant be recovered over its life.* 

Some commissions have abandoned the above procedure and moved to current-period accounting for gross salvage and/or cost of removal. In some jurisdictions gross salvage and cost of removal are accounted for as income and expense, respectively, when they are realized. Other jurisdictions consider only gross salvage in depreciation rates, with the cost of removal being expensed in the year incurred. [*italicized text denotes Spanos quote;* Spanos Rebuttal, p. 2, ll. 10-15]

While this publication does not appear to be endorsing either method, there is clearly support for Staff's proposal on the same page of the same authoritative text cited by Mr. Spanos for his supporting statement.

Q. Why has Staff proposed current-period accounting for cost of removal and gross salvage, as opposed to Mr. Spanos' position of collecting future, unknown, cost of removal less gross salvage ratably over the life of the plant?

A. The Staff chose the current-period accounting position, as set forth in my rebuttal testimony, because:

The Company's estimation of future, unknown, cost of removal and gross salvage is based on a simple formula (ratio) that has no empirical support for its validity. This ratio compares dollars from up to 122 years ago to today's dollar. Using this ratio to develop a revenue requirement for the cost of removal results in an amount greater than what the Company currently spends for cost of removal less gross salvage.

2) It is unknown and cannot be predicted whether distant future events will necessitate the removal of plant currently in service in the same manner as today, if at all. Plant could be sold or abandoned in place, in which case the Company would experience far less cost of removal than anticipated, if any at all. A practical example of this is abandoned gas mains that have been sold or leased to telecommunications companies to be used as conduit for optical fiber telephone lines rather than being removed.

3) With current-period accounting, future Company management will not face the burden of spending more for cost of removal than they are collecting in rates.

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For example, if the Company collects \$2.4 million more each year than is spent for cost of removal for 5 years, then over some future period the Company must spend \$12 million more than is collected in revenue for cost of removal for the balance to be zero.

Mr. Spanos explains that his proposed net salvage accrual exceeds the net Q. salvage cost because of system growth, and only when the growth stops and the plant reaches a steady state will the annual accrual be equal to the actual annual costs. Does Mr. Spanos provide specific details about his proposal?

9 Mr. Spanos does not explain when the steady state will occur. A. No. 10 Mr. Spanos does not explain what the Company will do with the excess dollars collected for 11 cost of removal before the steady state period is reached. Mr. Spanos does not explain how 12 long the steady state will exist. If the plant remains forever in a steady state, then the 13 Company will never need the excess cost of removal dollars it previously collected from 14 ratepayers. Only if the plant were to experience a reduction could the excess cost of removal 15 dollars be needed. The Company has not demonstrated that it is prepared for this event by 16 retaining the excess cost of removal dollars in a fund where the cash will be available. 17 Mr. Spanos has not addressed this ultimate balancing of the cost of removal accrual with the actual cost of removal.

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**CASH FLOW** 

20 Q. Are you aware of any authoritative text on deprecation that supports the need 21 for cash flow to address infrastructure issues as a consideration in the determination of 22 depreciation rates?

23 A. No.

Q.

Q. What is Staff's position on manipulating depreciation rates for cash flow
 goals?

A. The Staff believes that it is not appropriate to use depreciation rates to achievea targeted level of cash flow. Depreciation is intended to recover the original cost of plant.

### 5 SURVIVOR CURVES AND PLANT ACCOUNTING DATA

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Why didn't you use the life span procedure in your depreciation study?

A. The Company has not given any indication of a final retirement of any life span property. The Staff is not aware of any plans for construction of new plant to replace retired life span plant. The Staff does not believe that a final retirement of a life span property is likely to occur in the foreseeable future. Establishing an arbitrary final retirement date for life span plant only serves to artificially raise depreciation rates.

Q. Why did you choose not to use the combined file of the Missouri-American
districts used by Mr. Spanos in his depreciation study?

14 A. The data file for the combined districts used by Mr. Spanos was incomplete 15 and contained multiple erroneous entries. Mr. Spanos did not deny these points in his rebuttal 16 Mr. Spanos does, however, stand firmly behind the idea that an adequate testimony. 17 depreciation study of the MAWC districts, other than St. Louis and Jefferson City, can be performed using incomplete and erroneous data. Mr. Spanos claims that the software utilized 18 19 by both him and the Staff "...enables the use of a database that consists of retirements for a 20 recent period, say 1984 through 2002, rather than requiring a complete history of 21 retirements." I agree that the software has that ability, however that is not the approach 22 Mr. Spanos used for his analysis, nor would that approach be appropriate for long lived 23 accounts such as mains.

1 Mr. Spanos used data files that are not an accurate representation of the Company's 2 plant in service and relied heavily on his judgment to estimate survivor curves. Mr. Spanos 3 did not explain in his study or testimony filings why his judgment superseded the plots of the 4 data. Mr. Spanos has essentially used survivor curves that were derived from his judgment, 5 without citing supporting evidence, to arrive at average service lives to determine depreciation 6 rates. Whereas Mr. Spanos has apparently used his experience with other water utilities 7 around the Country as a foundation for his judgment-based depreciation rates, the Staff has 8 used actual data from a Missouri utility, which also happens to be a division of MAWC. 9 I believe that the Staff's surrogate depreciation rates are more appropriate for the MAWC 10 districts, other than St. Louis, than Mr. Spanos' unsubstantiated, judgment-based depreciation 11 rates.

Q. Will it be possible in the future to use the combined file for survivor curvedeterminations?

A. Yes. As I stated in my direct testimony, I believe that the Company and Staff
can work together to "clean up" the database for use in future depreciation studies.

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### **RESERVE VARIANCE**

Q. Mr. Spanos characterizes your recommendation to eliminate the amortizations of the reserve deficiency for the St. Louis district as unreasonable and inappropriate. Please explain why you believe it is necessary.

A. The inclusion of future cost of removal in the calculation of the theoretical depreciation reserve has created a reserve deficiency. The Staff's position of using current-period accounting for cost of removal and gross salvage results in lower depreciation rates and a depreciation reserve excess. The Staff has not recommended reducing this reserve

- 1 excess; however, the reserve excess will only continue to grow if the currently ordered reserve
- 2 deficiency amortizations are not stopped.
  - Q. Does this conclude your surrebuttal testimony?
  - A. Yes.

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