Exhibit No.: Issue: Witness: Sponsoring Party: Type of Exhibit: Case No.: Date Testimony Prepared:

Depreciation Guy C. Gilbert, PE, RG MoPSC Staff Surrebuttal Testimony WR-2010-0131 April 15, 2010

MISSOURI PUBLIC SERVICE COMMISSION

UTILITY SERVICES DIVISION

REBUTTAL TESTIMONY

OF

GUY C. GILBERT, PE, RG

MISSOURI-AMERICAN WATER COMPANY

CASE NO. WR-2010-0131

Jefferson City, Missouri April 2010

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1		REBUTTAL TESTIMONY						
2	OF							
3		GUY C. GILBERT, PE, RG						
4		MISSOURI-AMERICAN WATER COMPANY						
5		CASE NO. WR-2010-0131						
6	Q.	Would you please state your name and business address?						
7	А.	Guy C. Gilbert, 200 Madison Street, Jefferson City, Missouri, 65101.						
8	Q.	By whom are you employed and in what capacity?						
9	А.	I am employed by the Missouri Public Service Commission (PSC or						
10	Commission)	as a Utility Regulatory Engineer II in the Engineering and Management						
11	Services Department.							
12	Q.	Would you please describe your work experience and educational						
13	background?							
14	А.	A copy of my work and educational experience was provided in Appendix 1,						
15	pages 10 to 13 of the Staff's Report in this case.							
16	Q.	Have you previously testified before the Commission?						
17	А.	Yes. The cases in which I have filed testimony before the Commission are						
18	listed in Appendix 1, pages 8 and 9 of the Staff's Report in this case.							
19	EXECUTIVE SUMMARY							
20	Q.	Please state the purpose of your testimony.						
21	А.	The purpose of my rebuttal testimony is to compare and contrast my						
22	previously fi	led report regarding depreciation with that of Missouri-American Water						
23	Company (M	AWC or Company). In addition I will offer the Staff's position in response to						

Company witness Mr. John J. Spanos' testimony filed in the Company's direct case 1 2 regarding policy issues that are in disagreement with the policy directives provided 3 previously by the Commission. The Commission gave direction in Case No. ER-2004-0570 4 (The Empire District Electric Company) regarding the parameters that should be part of the 5 computation of depreciation for utilities. The parameters delineated by the Commission 6 included the value of an asset, average service life and net salvage. The Commission further 7 stated in its order why lifespan and terminal net salvage estimates were not appropriate 8 variables to be included in the depreciation computation.

9 Mr. Spanos disagrees with the Commission's previous order and seeks to introduce 10 additional parameters and alternative methods that result in the Company appearing to 11 require additional depreciation accruals. Mr. Spanos' position disagrees with the Commission's previous order and seeks to introduce a lifespan component to the 12 13 computation of depreciation rates. Use of lifespan minimizes the time ratepayers have to 14 return the Company's investment and net salvage. Mr. Spanos includes an adjustment to the 15 computation of the depreciation accrual rate (depreciation rate) for any perceived over or 16 under accrual of the depreciation reserve based upon the company's methodology. 17 Mr. Spanos also includes amortization of the General Plant accounts in direct contradiction to 18 the Commission's rules. The rules address the depreciation of plant accounts, not the 19 amortization of plant accounts. Another contradiction arises from the fact that the Company 20 has adopted a numerical system of accounts that is different from that stated in the 21 Commission's rules. This has caused some confusion regarding what the Company's various 22 depreciation accounts actually represent.

23

Q.

What is the difference between the Company and Staff's positions?

1	A. The difference between the Staff and the Company's depreciation annual						
2	accrual in the present case is approximately \$2,337,324, plus additional amounts for						
3	transportation equipment that the Company has not yet quantified. The Company believes it						
4	needs \$2,337,324 more depreciation expense included in rates then the \$1,757,816 increase						
5	Staff has determined. This is a 128% increase over Staff's recommended increase. This						
6	does not include additional amounts for transportation equipment that the Company has not						
7	yet quantified and terminal net salvage amounts. Please observe Schedule GCG-R1 for a						
8	detailed comparison by account.						
9	Q. Are the Staff and Company in agreement with the basic parameters for the						
10	computation of depreciation rates, such as average service life, net salvage and Iowa curve?						
11	A. Yes. The only difference is the Company's failure to comply with the						
12	implementation of these basic parameters of average service life, net salvage and Iowa curve.						
	This similarity of empirical data is shown in Schedule GCG-R2.						
13	This similarity of empirical data is shown in Schedule GCG-R2.						
13 14 15	 This similarity of empirical data is shown in Schedule GCG-R2. LIFESPAN Q. What retirement date(s) is MAWC proposing for all its major facilities? 						
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14 15 16 17	LIFESPAN Q. What retirement date(s) is MAWC proposing for all its major facilities? A. The Company proposes that all major facilities will be in service at least sixty-five (65) years before retirement.						
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No. That would be unprecedented for a water utility company of MAWC's 1 A. 2 size. For example MAWC acquired the St. Joseph water treatment facility that had provided 3 service for approximately 100 years. This treatment facility was later sold prior to green or 4 brown fielding of the site. The Company treats this major retirement as an outlier and 5 something that is not treated in the computation of depreciation rates. The Company also has 6 water treatment facilities in St. Louis and Springfield that are near a similar vintage. Often a 7 determination involving the replacement of a water works may consider real estate value and 8 system growth or expansion, resulting in economies of scale that an entirely new water 9 treatment facility may take advantage of, as was the case with the St. Joseph water works.

Q. Are there any additional requirements to using the life span approach for
retirement of life span accounts, of which the Company has failed to include in this
case when using life span for retirement of accounts 312, Collecting and Impounding
Reservoirs; account 313 Lake, River and Other Intakes; account 321 Structures and
Improvements-Pumping Plant; and account 331 Structures and Improvements-Water
Treatment Plant?

A. Yes. Normally, when the life span method of depreciation is used for the
computation of depreciation, additional amounts for terminal net salvage or final retirement
and removal cost are added to the depreciable amounts or cost. The Company has failed to
include these values or additional costs in this case. It is expected that recovery for these
final net salvage amounts would be sought by the Company under the lifespan method of
depreciation.

Q.

1 ADDITIONAL ADJUSTMENTS TO THE COMPUTATION OF DEPRECIATION 2 RATES

Q. Does the Company propose additional methods and techniques for the
computation of the depreciation rates based upon estimated amounts resulting from estimated
parameters?

A. Yes, the Company uses the estimated lifespan and the resultant estimated
amortization periods to determine an estimated rate for depreciation of certain General Plant
accounts, plus an adjustment for the remaining life technique.

9

What is the Company's capitalization limit and why does it exist?

A. The Company's capitalization limit for non-routine general plant accounts is
\$1,500 and was last revised January 1, 2003. The capitalization limit sets a threshold,
determined by the Company, at which continuing property records will be maintained to a
degree of detail that enables the individual continuing property items to be physically
identified by location.

Q. How is this accounting policy implemented by the Company for PCs, fax
machines and similar equipment that does not meet the capitalization threshold?

A. The Company has chosen to track PCs as stated in the previous answer, even
though they are under the capitalization limit, and incorporate their values in depreciable
amounts. However, the Company does not maintain the information at a detail suitable for
the determination of depreciation rates.

Q. How does the Company derive its estimated adjustment for the depreciationreserve?

A. The actuarial analysis uses the same data sets, algorithms and software as
Staff used. The analysis yields results that are interpreted by the depreciation analyst,

1	resulting in an estimated average service life for that particular group or account of assets.							
2	This interpretation is aided by engineering judgment and selection and interpretation of a							
3	survivor curve. The Staff's analysis regarding depreciable life ends here. The Company							
4	however, takes this estimated average service life and estimates a remaining life that is used							
5	to adjust the period over which the future depreciation amount and accruals will need to be							
6	made before everything in the account is retired.							
7	Q. Does the Company make this additional adjustment for all depreciated plant							
8	accounts?							
9	A. Yes. For the non-life span accounts and all other accounts, this period is							
10	called the remaining life, even when it is recommended that the account be simply amortized							
11	over a pre-specified period.							
12	Q. What is the result of these additional estimated amounts and periods?							
13	A. It constrains and limits the amount of time that the ratepayers have available							
14	to return the investment made by the Company for service to the ratepayer, as if at some							
15	certain date in the future the Company will be exiting the business of providing water							
16	service.							
17	Q. Does the Staff believe there is an estimated inadequacy of the reserve for							
18	depreciation?							
19	A. No. Staff believes the reserve to currently be over-accrued by more than							
20	\$64 million.							
21	Q. Is the theoretical reserve over-accrual of \$64 million addressed in this case?							
22 23	A. Yes. Staff recommends that no action be taken regarding the reserve							
23	over-accrual of \$64 million, but that Staff continue to monitor it. Meanwhile, Staff's							

3

4

- 1 recommended depreciation rates are intended to be corrective to the depreciation reserve
- 2 over-accrual on a going-forward basis.
 - Q. Does this conclude your prepared rebuttal testimony?
 - A. Yes. It does.

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 and Sewer) Services Provided in Missouri Service Areas)

Case No. WR-2010-0131

AFFIDAVIT OF GUY C. GILBERT MS, PE, RG

STATE OF MISSOURI)) SS. COUNTY OF COLE)

Guy C. Gilbert, of lawful age, on his oath states: that he has participated in the preparation of the foregoing Rebuttal Testimony in question and answer form, consisting of $\underline{7}$ pages to be presented in the above case; that the answers in the foregoing Rebuttal Testimony were given by him; 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.

Guy C. Gilbert MS, PE, RG

D. SUZIE MANKIN Notary Public - Notary Seal State of Missouri Commissioned for Cole County My Commission Expires: December 08, 2012 Commission Number: 08412071

Subscribed and sworn to before me this <u>154</u> day of <u>April</u>, 2010. D. SUZIE MANKIN Notary Public - Notary Seal State of Missouri Commissioned for Cole County

Schedule GCG-R1 Missouri American Water Company Case No. WR-2010-0131 Annual Accrual Comparison: Current, Staff, Company

		Recommended					
	WATER	Current	Staff	Company	Company less	Change	
Account		Annual	Annual	Annual	Staff Annual	in	
Number	Account Description	Accrual	Accrual	Accrual	Difference	Method	
	SOURCE OF SUPPLY PLANT		***	Aa (a a a a	* (* * *		
311.00	Structures and Improvements	\$349,826	\$337,494	\$349,826	\$12,332		
312.00	Collecting and Impounding Reservoir	\$1,388	\$1,388	\$1,411	\$22	Lifespan	
313.00	Lake, River, and Other Intake Wells and Springs	\$17,796	\$17,788	\$53,086	\$35,298	Lifespan	
314.00 315.00	Infiltration Galleries and Tunnels	\$113,419 \$30	\$123,483 \$30	\$151,452 \$32	\$27,969 \$2		
316.00	Supply Mains	\$332,223	\$370,784	\$357,139	مع (\$13,645)		
317.00	Miscellaneous Source of Supply-Othe	\$69	\$69	\$81	(\$10,840)		
					•		
	PUMPING PLANT						
321.00	Structures and Improvements	\$332,389	\$345,839	\$1,239,255	\$893,417	Lifespan	
322.00	Boiler Plant Equipmen	\$7	\$8	\$103	\$95		
323.00	Power Generation Equipmen	\$70,406	\$70,406	\$70,758	\$352		
324.00	Pumping Equipment	\$1,379,119	\$1,480,319	\$1,294,337	(\$185,982)		
	WATER TREATMENT PLANT						
331.00	Structures and Improvement:	\$1,499,114	\$1,551,997	\$3,071,805	\$1,519,808	Lifespan	
332.00	Water Treatment Equipmen	\$3,042,836	\$3,162,020	\$2,999,054	(\$162,966)		
333.00	Miscellaneous Water Treatment-Othe	\$49,339	\$49,389	\$44,746	(\$4,643)		
		• • • • • • •	+ -,	* , -	(+) /		
	TRANSMISSION & DISTRIBUTION PLANT	•	•				
341.00	Structures and Improvements	\$278,852	\$250,653	\$223,499	(\$27,154)		
341.10	Structures and Improvements-Special Crossing	\$0	¢000,400	\$0	\$0 \$70.040		
342.00	Distribution Reservoirs & Standpipe:	\$608,420	\$608,420 \$10,700,447	\$681,430	\$73,010 (\$202,422)		
343.00 344.00	Mains-Transmission & Distributior Mains-Fire	\$11,653,326 \$8,513	\$10,790,117 \$8,867	\$10,487,993 \$9,080	(\$302,123) \$213		
344.00 345.00	Services	\$847,120	\$803,960 \$803,960	\$9,080 \$860,872	\$56,912		
346.00	Meters	\$1,915,025	\$1,891,383	\$1,678,602	(\$212,781)		
347.00	Meter Installations	\$0	ψ1,001,000	\$0	(\$212,701)		
348.00	Fire Hydrants	\$1,043,580	\$1,003,442	\$940,309	(\$63,133)		
349.00	Miscellaneous Transmission & Distribution-Other	\$628	\$628	\$0	(\$628)		
	GENERAL PLANT		•		•		
390.00	Structures and Improvements-Shop and Garage	\$21,090	\$21,090	\$39,984	\$18,893		
390.10	Structures and Improvements-Office Buildings	\$179,929	\$179,929	\$173,932	(\$5,998)		
390.30	Structures and Improvements-Miscellaneou	\$100,637	\$100,637	\$92,670	(\$7,967)		
390.90 391.00	Structures and Improvements-Leasehol Office Furniture	\$2,707 \$73,874	\$2,707 \$92,343	\$7,418 \$105,640	\$4,711 \$13,297	Amortize	
391.00 391.20	Computer Hardware	\$73,874 \$0	\$92,343 \$1,348,008	\$1,854,185	\$506,177	Amortize	
391.20	Computer Natural	\$1,332,803	\$1,865,365	\$1,834,185 \$2,333,571	\$468,207	Amortize	
391.30	Other Office Equipment	\$33,173	\$33,173	\$47,570	\$14,397	Amortize	
392.10	Transportation Equipment-Light Truck	\$0 \$0	\$87,876	\$33,120	(\$54,757)	741101420	
392.10	New Account Transportation Equipment-Light True		<i>\\</i> 01,010	N/A	(, , ,	N/A	
392.20	Transportation Equipment-Heavy Trucks	\$355,732	\$426,878	\$0	(\$426,878)		
392.20	New Account Transportation Equipment-Heavy Transportation		. ,	N/A	N/A	N/A	
392.30	Transportation Equipment-Autos	\$0	\$195,141	\$82,176	(\$112,965)		
392.30	New Account Transportation Equipment-Autos as	of 1-1-09		N/A	N/A	N/A	
392.40	Transportation Equipment-Other	\$0	\$22,635	\$2,277	(\$20,358)		
392.40	New Account Transportation Equipment-Other as			N/A	N/A	N/A	
393.00	Stores Equipment	\$11,670	\$16,338	\$15,194	(\$1,144)	Amortize	
394.00	Tools, Shop, and Garage Equipmen	\$394,823	\$394,823	\$457,995	\$63,172	Amortize	
395.00	Laboratory Equipmen	\$84,882	\$141,469	\$320,216	\$178,747	Amortize	
396.00	Power Operated Equipmen	\$103,413	\$117,202	\$22,599	(\$94,603)	A	
397.10	Communications Equipment-Non-Telephon	\$137,681	\$183,574	\$184,768 \$5,528	\$1,193 (\$0,412)	Amortize	
397.20	Communications Equipment-Telephon	\$9,961	\$14,941 \$124,010	\$5,528	(\$9,413)	Amortize	
398.00	Miscellaneous Equipmen	\$93,008 \$45,548	\$124,010 \$45,548	\$156,253 \$160,520	\$32,243	Amortize	
399.00	Other Tangible Equipmen Total	\$45,548 \$26,524,356	\$45,548 \$28,282,172	<i>\$169,529</i> \$30,619,496	\$123,982 \$2,337,324	Amortize	
	<u>. 10(a)</u>	ψ20,027,000	Ψ <u>2</u> 0,202,172	φ00,010, 4 00	ψ2,007,024		

Missouri American Water Company Case No. WR-2010-0131 Recommended Annual Depreciation Rates & Parameters Comparison

		Recommended					Staff	Company		
	WATER	Average	Average					Whole Life	Whole Life	Change
Account		Service	Service	Iowa	lowa	Net	Net	Depreciation	Depreciation	in
Number	Account Description	Life (Years)		Curve	Curve	<u>Salvage</u>	<u>Salvage</u>	Rate (%)	Rate (%)	Method
	Staff Company Staff Company Staff Company									
044.00	SOURCE OF SUPPLY PLANT			54	54	00.000/	00.000/	0.000/	0.45%	
311.00	Structures and Improvements	55	55	R4	R4	-30.00%	-30.00%	2.36%	2.45%	l ife en en
312.00 313.00	Collecting and Impounding Reservoir: Lake, River, and Other Intake:	80 65	80 65	R2.5 R1.5	R2.5 R1.5	0.00% -15.00%	0.00% -15.00%	1.25% 1.77%	1.27% 5.28%	Lifespan
313.00	Wells and Springs	65 55	65 55	R1.5 R2.5	R1.5 R2.5	0.00%	0.00%	1.82%	2.23%	Lifespan
314.00	Infiltration Galleries and Tunnels	60	60	R2.5	R2.5	0.00%	0.00%	1.67%	1.77%	
316.00	Supply Mains	70	70	R3	R3	-25.00%	-25.00%	1.79%	1.72%	
317.00	Miscellaneous Source of Supply-Othe	25	25	SQ	SQ	0.00%	0.00%	4.00%	4.68%	
011.00		20	20	UQ	ÖĞ	0.0070	0.0070	1.0070	1.0070	
	PUMPING PLANT									
321.00	Structures and Improvements	75	75	R2.5	R2.5	-35.00%	-35.00%	1.80%	6.45%	Lifespan
322.00	Boiler Plant Equipment	45	45	R4	R4	0.00%	0.00%	2.22%	29.62%	
323.00	Power Generation Equipment	50	50	R3	R3	0.00%	0.00%	2.00%	2.01%	
324.00	Pumping Equipment	42	42	R1.5	R1.5	-10.00%	-10.00%	2.62%	2.29%	
	WATER TREATMENT PLANT						a	,	_	
331.00	Structures and Improvements	80	80	R3	R3	-35.00%	-35.00%	1.69%	3.34%	Lifespan
332.00	Water Treatment Equipment	45	45	R2.5	R2.5	-30.00%	-30.00%	2.89%	2.74%	
333.00	Miscellaneous Water Treatment-Othe	30	30	SQ	SQ	0.00%	0.00%	3.33%	3.02%	
	TRANSMISSION & DISTRIBUTION RI									
341.00	TRANSMISSION & DISTRIBUTION PL/ Structures and Improvements	50	50	R2.5	R2.5	-20.00%	-20.00%	2.40%	2.14%	
341.00	Structures and Improvements-Special	50	50	RZ.3	K2.5	-20.00%	-20.00%	2.40%	2.14%	
341.10	Crossing	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
342.00	Distribution Reservoirs & Standpipes	60	60	R3	R3	-35.00%	-35.00%	2.25%	2.52%	
343.00	Mains-Transmission & Distributior	90	90	R2.5	R2.5	-25.00%	-25.00%	1.39%	1.35%	
344.00	Mains-Fire	80	80	S1	S1	-25.00%	-25.00%	1.56%	1.60%	
345.00	Services	65	65	S0.5	S0.5	-90.00%	-90.00%	2.92%	3.13%	
346.00	Meters	40	40	R1	R1	4.00%	4.00%	2.40%	2.13%	
347.00	Meter Installations	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.13%	
348.00	Fire Hydrants	65	65	R1.5	R1.5	-20.00%	-20.00%	1.85%	1.73%	
	Miscellaneous Transmission &									
349.00	Distribution-Other	50	50	R3	R3	0.00%	0.00%	2.00%	none	
	GENERAL PLANT									
200.00	Structures and Improvements-Shop and	50	50	DO	Da	20.000/	20.000/	0.400/	4 550/	
390.00	Garage Structures and Improvements-Office	50	50	R3	R3	-20.00%	-20.00%	2.40%	4.55%	
390.10	Buildings	50	50	R1	R1	-20.00%	-20.00%	2.40%	2.32%	
390.10	Structures and Improvements-	50	50			-20.0078	-20.00 /8	2.4076	2.5270	
390.30	Miscellaneous	50	50	R2.5	R2.5	-20.00%	-20.00%	2.40%	2.21%	
000.00	Structures and Improvements-			112.0	112.0	20.0070	20.0070	2.40%	2.2170	
390.90	Leasehold	20	20	R4	R4	0.00%	0.00%	5.00%	13.70%	
391.00	Office Furniture	20	20	SQ	SQ	0.00%	0.00%	5.00%	5.72%	Amortize
391.20	Computer Hardware	5	5	SQ	SQ	0.00%	0.00%	20.00%	27.51%	Amortize
391.25	Computer Software	5	5	SQ	SQ	0.00%	0.00%	20.00%	25.02%	Amortize
391.30	Other Office Equipment	15	15	SQ	SQ	0.00%	0.00%	6.67%	9.56%	Amortize
392.10	Transportation Equipment-Light Trucks	8	8	L1.5	L1.5	10.00%	10.00%	11.25%	4.24%	
392.10		0							14.26%	
392.20	Transportation Equipment-Heavy Trucks		9	L2	L2	10.00%	10.00%	10.00%	0.00%	
392.20									12.27%	
392.30	Transportation Equipment-Autos	5	5	L2	L2	10.00%	10.00%	18.00%	7.58%	
392.30				00.5	00.5	15 000/	45.000/	F 070/	21.03%	
392.40	Transportation Equipment-Other	15 Other as of	15	S2.5	S2.5	15.00%	15.00%	5.67%	0.57% 6.26%	
392.40				80	80	0.00%	0.00%	4.00%	6.26%	Amortiza
393.00 394.00	Stores Equipment Tools, Shop, and Garage Equipmen	25 20	25 20	SQ SQ	SQ SQ	0.00% 0.00%	0.00% 0.00%	4.00% 5.00%	3.72% 5.80%	Amortize Amortize
394.00 395.00	Laboratory Equipment	20 15	20 15	SQ	SQ	0.00%	0.00%	5.00% 6.67%	5.80% 15.09%	Amortize
395.00 396.00	Power Operated Equipment	15 11	15	L1.5	L1.5	0.00% 15.00%	15.00%	7.73%	1.49%	AMUTUZE
000.00	Communications Equipment-Non-									
397.10	Telephone	15	15	SQ	SQ	0.00%	0.00%	6.67%	6.71%	Amortize
397.20	Communications Equipment-Telephone	10	10	SQ	SQ	0.00%	0.00%	10.00%	3.70%	Amortize
398.00	Miscellaneous Equipment	15	15	SQ	SQ	0.00%	0.00%	6.67%	8.40%	Amortize
399.00	Other Tangible Equipment	20	20	SQ	SQ	0.00%	0.00%	5.00%	18.61%	Amortize