COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

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IN THE MATTER OF: NOTICE OF ADJUSTMENT OF THE RATES OF KENTUCKY-AMERICAN WATER COMPANY EFFECTIVE ON AND AFTER MAY 30, 2007

CASE NO. 2007-00143

Direct Testimony of Scott J. Rubin

on Behalf of the Office of the Attorney General

July 30, 2007

1		Introduction
2	Q.	Please state your name and business address.
3	A.	My name is Scott J. Rubin. My business address is 333 Oak Lane, Bloomsburg, PA.
4	Q.	By whom are you employed and in what capacity?
5	A.	I am an independent consultant and an attorney. My practice is limited to matters
6		affecting the public utility industry.
7	Q.	What is the purpose of your testimony in this case?
8	A.	I have been asked by the Office of the Attorney General ("AG") to review the cost of
9		service study and proposed rate design filed by Kentucky-American Water Company
10		("KAWC" or "Company").
11	Q.	What are your qualifications to provide this testimony in this case?
12	A.	I have testified as an expert witness before utility commissions or courts in the District of
13		Columbia and in the states of Arizona, Delaware, Kentucky, Illinois, Maine, Maryland,
14		New Jersey, New York, Ohio, Pennsylvania, and West Virginia. I also have testified as
15		an expert witness before two committees of the U.S. House of Representatives and one
16		committee of the Pennsylvania House of Representatives. I also have served as a
17		consultant to the staffs of the Connecticut Department of Public Utility Control and the
18		Delaware Public Service Commission, as well as to several national utility trade
19		associations, and state and local governments throughout the country. Prior to
20		establishing my own consulting and law practice, I was employed by the Pennsylvania
21		Office of Consumer Advocate from 1983 through January 1994 in increasingly
22		responsible positions. From 1990 until I left state government, I was one of two senior

1		attorneys in that Office. Among my other responsibilities in that position, I had a major
2		role in setting its policy positions on water and electric matters. In addition, I was
3		responsible for supervising the technical staff of that Office. I also testified as an expert
4		witness for that Office on rate design and cost of service issues.
5		Throughout my career, I developed substantial expertise in matters relating to the
6		economic regulation of public utilities. I have published articles, contributed to books,
7		written speeches, and delivered numerous presentations, on both the national and state
8		level, relating to regulatory issues. I have attended numerous continuing education
9		courses involving the utility industry. I also periodically participate as a faculty member
10		in utility-related educational programs for the Institute for Public Utilities at Michigan
11		State University, the American Water Works Association, and the Pennsylvania Bar
12		Institute. Appendix A to this testimony is my curriculum vitae.
12 13	Q.	Institute. Appendix A to this testimony is my curriculum vitae. Do you have any experience that is particularly relevant to the issues in this case?
	Q. A.	
13		Do you have any experience that is particularly relevant to the issues in this case?
13 14		Do you have any experience that is particularly relevant to the issues in this case? Yes, I do. I have testified on numerous occasions as a rate design and cost of service
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13 14 15 16		Do you have any experience that is particularly relevant to the issues in this case? Yes, I do. I have testified on numerous occasions as a rate design and cost of service expert. I also have worked as a consultant to local government entities on rate design issues – both to assist government-owned utilities in designing rates and to help
13 14 15 16 17		Do you have any experience that is particularly relevant to the issues in this case? Yes, I do. I have testified on numerous occasions as a rate design and cost of service expert. I also have worked as a consultant to local government entities on rate design issues – both to assist government-owned utilities in designing rates and to help government agencies obtain reasonable rates from their utility. I also served on the
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 13 14 15 16 17 18 19 		Do you have any experience that is particularly relevant to the issues in this case? Yes, I do. I have testified on numerous occasions as a rate design and cost of service expert. I also have worked as a consultant to local government entities on rate design issues – both to assist government-owned utilities in designing rates and to help government agencies obtain reasonable rates from their utility. I also served on the editorial committee for the preparation of the major rate design manual for the water utility industry, the American Water Works Association's Manual M1: <i>Principles of</i>

1		In the water sector, I testified on rate design and cost of service issues in the most
2		recent rate cases involving Pennsylvania American Water Co., Illinois American Water
3		Co., Kentucky American Water Co., Artesian Water Co., and Aqua Pennsylvania Inc. In
4		addition, the consulting work that I mentioned for the Connecticut DPUC involved a rate
5		case for a large water utility, Aquarion Water Company of Connecticut.
6		Summary
7	Q.	What is the primary focus of your direct testimony?
8	A.	My testimony focuses on four issues: (1) allocating costs, and ultimately revenue
9		responsibility, among the customer classes, as reflected in the Company's cost of service
10		study; (2) setting appropriate goals or limits on the amount by which rates should
11		increase for any class of customers; (3) establishing a process for moving toward single-
12		tariff pricing without making dramatic changes in rates; and (4) evaluating the
13		Company's rate design, particularly as it affects residential customers.
14	Q.	As part of your work, did you review the testimony and exhibits of any KAWC
15		witnesses?
16	A.	Yes. I reviewed the testimony and exhibits of Linda Bridwell, Paul Herbert, Michael
17		Miller, and Nick Rowe. Of course, I also reviewed other exhibits that are part of the
18		filing and numerous responses to discovery requests that were provided by these and
19		other witnesses.
20	Q.	Please summarize your conclusions.

21 A. My conclusions can be summarized as follows:

37		study?
36	Q.	Do you have any concerns with the way in which any items are allocated within that
35	A.	Yes, I did.
34	Q.	Did you review KAWC's cost of service study (KAWC Exhibit 36 revised)?
33		Cost of Service Issues
32		rates need to be recovered through the fixed charges for that service.
31		consumption charges only. Of course, any increases in fire protection
30		excluding fire protection service) should be recovered through increases in
29		increase found to be necessary for the water-consuming classes (that is,
28		KAWC's customer-related costs. I recommend, therefore, that any rate
27		that the existing customer charges are higher than is needed to recover
23 26		• I agree with KAWC's revised position that there should be no increase in customer (meter) charges in this case. The cost of service study shows
25		• I agree with KAWC's revised position that there should be no increase in
23 24		the reasonableness of taking further steps toward rate consolidation.
22 23		design of Central Division rates, and that would reduce Northern Division rates by a modest amount in this case. Future rate cases should consider
21		step in this case that would redesign Northern Division rates to match the
20		Northern Division to Central Division customers. I recommend an interim
19		transfer of more than \$450,000 of revenue responsibility from the
18		immediately, however, is not reasonable because it would result in the
17		schedules. The Company's proposal to accomplish this consolidation
16		for the Central Division and Northern Division onto a single set of rate
15		• KAWC should be permitted to move toward a consolidation of the rates
14		system-average increase.
13		that no class should receive a rate increase that is more than 150% of the
12		service, without having an undue impact on any one class, I recommend
11		• In attempting to move each customer class closer to its cost of providing
10		nom me outer customer classes.
9 10		from the other customer classes.
8 9		approximately \$53,000, with offsetting increases in revenue responsibility
7 8		change is to decrease the amount of revenue that needs to be collected through meter and consumption charges from the Residential class by
6 7		classes that actually pay these miscellaneous charges. The effect of that
5		recommend a change so that the revenue is allocated to the customer
4		allocates miscellaneous revenues among the customer classes. I
3		exception. That exception concerns the manner in which the Company
2		Exhibit 36, revised) is appropriate for use in designing rates, with one
1		• I conclude that the Company's revised cost of service study (KAWC

1	A.	Yes. While I examined numerous aspects of the Company's cost of service study, in
2		order to simplify the issues presented in this case, I am proposing only one adjustment to
3		the study. The adjustment is necessary in order to accurately reflect the actual source of
4		miscellaneous revenues to the Company At the outset, I should note that all of my
5		adjustments to the cost of service are made assuming the Company's proposed revenue
6		requirement. This is a standard practice because it allows different parties' cost of
7		service and rate design adjustments to be compared on an "apples-to-apples" basis. This
8		should not be taken, however, as an endorsement of the Company's proposed revenue
9		requirement.
10	Q.	With that understanding, please describe your adjustment to the cost of service
11		study?
12	A.	My adjustment allocates miscellaneous revenues in a manner that is more closely related
12 13	A.	My adjustment allocates miscellaneous revenues in a manner that is more closely related to the reasons why the Company receives those revenues. There are three types of
	A.	
13	А.	to the reasons why the Company receives those revenues. There are three types of
13 14	А.	to the reasons why the Company receives those revenues. There are three types of miscellaneous revenues: activation fees, charges for returned checks (known as "NSF
13 14 15	A.	to the reasons why the Company receives those revenues. There are three types of miscellaneous revenues: activation fees, charges for returned checks (known as "NSF check fees"), and reconnection fees. All of these charges are tariffed, and the tariff
13 14 15 16	Α.	to the reasons why the Company receives those revenues. There are three types of miscellaneous revenues: activation fees, charges for returned checks (known as "NSF check fees"), and reconnection fees. All of these charges are tariffed, and the tariff describes when the Company is permitted to levy the charge. The Company shows total
13 14 15 16 17	A.	to the reasons why the Company receives those revenues. There are three types of miscellaneous revenues: activation fees, charges for returned checks (known as "NSF check fees"), and reconnection fees. All of these charges are tariffed, and the tariff describes when the Company is permitted to levy the charge. The Company shows total revenues from these three charges of \$986,550. KAWC Exh. 36 revised, p. 25 of 45.
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 13 14 15 16 17 18 19 20 	A.	to the reasons why the Company receives those revenues. There are three types of miscellaneous revenues: activation fees, charges for returned checks (known as "NSF check fees"), and reconnection fees. All of these charges are tariffed, and the tariff describes when the Company is permitted to levy the charge. The Company shows total revenues from these three charges of \$986,550. KAWC Exh. 36 revised, p. 25 of 45. The Company's cost of service study treats miscellaneous revenues as a credit to billing and collecting costs. The effect of treating these tariffed revenues in this fashion is to credit 90.5% of the revenues to the Residential class, 7.5% to the Commercial class,

1	Q.	Do you agree that these charges are related to the Company's billing and collecting
2		costs?
3	A.	I agree that the miscellaneous charges help to recover some of the Company's billing and
4		collecting costs, but I disagree with the way in which the Company reflects these
5		revenues in its cost of service study.
6		In particular, these revenues should not be "allocated" among the customer
7		classes. The revenues should be directly assigned to each customer class based on the
8		amount of these revenues that are actually billed to each class. For example, activation
9		fees and reconnection fees generally are not paid by sales for resale or fire protection
10		customers. Similarly, while any customer could pay an NSF check fee, in practice most
11		such fees are paid by residential customers.
12	Q.	Does KAWC have data showing the amount of these revenues that are billed to each
12 13	Q.	Does KAWC have data showing the amount of these revenues that are billed to each customer class?
	Q. A.	
13	-	customer class?
13 14	-	customer class? Yes, it does. In response to AG data requests 1-39(c) and 2-2, the Company provided
13 14 15	-	customer class? Yes, it does. In response to AG data requests 1-39(c) and 2-2, the Company provided actual data for the six months ending January 2007. These data show that Residential
13 14 15 16	-	customer class? Yes, it does. In response to AG data requests 1-39(c) and 2-2, the Company provided actual data for the six months ending January 2007. These data show that Residential customers provide approximately 96% of these miscellaneous revenues, with
13 14 15 16 17	-	customer class? Yes, it does. In response to AG data requests 1-39(c) and 2-2, the Company provided actual data for the six months ending January 2007. These data show that Residential customers provide approximately 96% of these miscellaneous revenues, with Commercial customers providing approximately 4% of these revenues. The remaining
 13 14 15 16 17 18 	-	customer class? Yes, it does. In response to AG data requests 1-39(c) and 2-2, the Company provided actual data for the six months ending January 2007. These data show that Residential customers provide approximately 96% of these miscellaneous revenues, with Commercial customers providing approximately 4% of these revenues. The remaining customer classes pay either none or an extremely small amount (well less than one-half of
 13 14 15 16 17 18 19 	A.	customer class? Yes, it does. In response to AG data requests 1-39(c) and 2-2, the Company provided actual data for the six months ending January 2007. These data show that Residential customers provide approximately 96% of these miscellaneous revenues, with Commercial customers providing approximately 4% of these revenues. The remaining customer classes pay either none or an extremely small amount (well less than one-half of one percent) of these revenues.

1		cost of serving the Residential and Public Fire classes by approximately \$53,000 and
2		\$400 respectively, as shown on Schedule SJR-1. The cost of serving the other customer
3		classes increases by between \$100 (Sales for Resale) and \$35,000 (Commercial).
4	Q.	You refer to changing the allocation of revenues as affecting the "cost of service."
5		Why does a revenue allocation affect cost?
6	A.	The Company's cost of service study is not strictly a study of costs. It is designed to
7		determine the amount of revenue from meter and consumption charges that each
8		customer class should be responsible for paying. Thus, revenues that the Company
9		receives for items other than meter and consumption charges are treated as credits (or
10		negative costs) in the study. In actuality, of course, these are revenues that the Company
11		receives from its customers pursuant to the Company's tariffs. But as long as we
12		recognize that the purpose of the cost of service study is to develop revenue targets for
13		meter and consumption charges only (as well as for fire protection charges), then the
14		methodology used by KAWC is appropriate.
15	Q.	After reflecting your change to miscellaneous revenues, what is the cost of service,
16	ו	or revenue target, for each customer class?

A. I show the resulting cost of service for each customer class, under the Company's study
and with my revision, on Schedule SJR-2. The net effect is slightly different than the
figures shown on Schedule SJR-1 because of composite allocation factors in the cost of

20 service model that are affected by the change in allocation of miscellaneous revenues.

1

Appropriate Limits on Class Rate Increases

2 Q. Has the Company proposed any limits on the amount by which the rates to any 3 customer class should be increased in this case.

A. Yes, KAWC witness Herbert states that one of his guidelines was to avoid "excessive
increases to any one class." Herbert direct testimony, p. 10, lines 6-7. Reviewing the
Company's proposed rates, the effect of the Company's proposal is to limit the
percentage increase to a customer class to no more than 134% of the system average
increase. Specifically, the highest customer class increases proposed by the Company are
to the Industrial and Sales for Resale classes, with percentage increase of 29.7%. This is
134% of the system-average increase of 22.2%. KAWC Exh. 36 revised, Schedule A.

11 Q. Did the Company explain how it chose this percentage?

A. No, it did not. In fact, the Company did not even acknowledge that it chose a maximum
percentage increase. When asked how it determined if an increase to a class was
excessive, Mr. Herbert responded, "The witness determined that the rate changes would
not result in excessive increases by reviewing comparative bill analysis." Response to
AG 1-35.

17 Q. Do you support establishing a maximum class percentage increase as being a

18 reasonable way to ensure that no class receives an excessive rate increase?

A. Yes, I do. I have frequently recommended establishing a limit on the maximum
percentage increase that a class, or individual customer, would be required to pay. This
ensures that no customer or group of customers is being asked to bear an unusually large
portion of the proposed rate increase.

Q. Do you agree with the Company's apparent use of a 134% of the system average as a threshold for class rate increases in this case?

A. No, I do not. Under present rates, the Industrial class of customers is providing revenue
equal to just 63% of the cost of service. The next lowest class (Sales for Resale) is
providing 77% of its costs. At the other extreme, the Public Fire and Residential classes
are already paying 89% and 85% of the cost of serving them. I show these figures on
Schedule SJR-3, under the Company's cost of service study and with my recommended
change to the cost of service study.

9 **Q**.

What do you recommend?

10 A. Given the magnitude of the under-recovery of revenue by the Industrial class, I believe it 11 is appropriate to establish a higher threshold for the maximum rate increase to a class. I 12 recommend that the threshold should be set at 150% of the system-average increase. 13 Under the Company's proposed revenue requirement, the system-average increase is 14 22.2%. Applying the 150% limit on a class rate increase would result in no class 15 receiving an increase of more than 33.3%. Of course, if the Commission finds that 16 KAWC's revenue requirement is lower than the Company projects, then the maximum 17 increase to any customer class would be lowered in proportion to the system average 18 increase.

19

Moving Toward Single-Tariff Pricing

20 **Q.**

Does KAWC have more than one rate area?

A. Yes, it does. Most KAWC customers are located in the Central Division, which is
KAWC's main system. Over the last several years, KAWC also has acquired three water

1		systems that make up what the Company calls its Northern Division. These are the Tri-
2		Village, Owenton, and Elk Lake Shores systems. Each of these three systems in the
3		Northern Division has different rates at the present time. Most Northern Division
4		customers pay rates that are significantly higher than Central Division customers for the
5		same type of service.
6	Q.	What has KAWC proposed?
7	A.	The Company proposes to place all Northern Division customers on the Central Division
8		rate schedule at the conclusion of this case.
9	Q.	What would be the impact of the Company's proposal?
10	A.	Under the Company's proposed rates (as revised), I calculate that total revenues collected
11		from the three Northern Division systems would decline by approximately \$452,000.
12		I show this calculation on Schedule SJR-4. ¹
13	Q.	In your opinion, is it reasonable to reduce rates by more than \$450,000 for Northern
14		Division customers at this time?
15	A.	No, it is not reasonable to implement that type of rate decrease at this time. The
16		Company's proposal represents a 34.5% decrease for Tri-Village, a 4.5% decrease for
17		Elk Lake, and a 10.2% decrease for Owenton, as shown on my schedule. The decrease
18		for Elk Lake is not unreasonable, but I consider the other decreases to be excessive,

¹ There appears to be an error on KAWC Exh. 37M (revised), so I had to rely on my own calculation of the difference. The exhibit shows a proposed 5/8-inch customer charge of \$8.34 per month, which was the Company's original proposal. But revised Exhibit 36 shows that there should be no increase in customer charges, and the rate schedules in revised Exhibit 36 show the 5/8-inch customer charge remaining at \$7.95 per month. Revised Exhibit 36 also shows the remaining customer charges in the Central Division remaining at the current levels. Further, Exhibit 36 shows the customer charges in the Northern Division being set equal to the Central Division charges.

1		particularly when other customers (Central Division customers) are being asked to pay
2		higher rates to pay for these decreases.
3	Q.	But the Company says that eliminating the Northern Division would result in cost
4		savings and simplified administration. Do you disagree?
5	A.	I do not disagree with the Company about the potential administrative benefits of single-
6		tariff pricing. I recommend, therefore, that the Commission permit KAWC to
7		consolidate all accounting records for the two rate areas and not require KAWC to keep
8		any separate records for the Northern Division. All record keeping and other
9		administrative and operational functions for the two divisions should be combined.
10		I disagree, however, with the Company's proposal to immediately lower the
11		Northern Division rates to the level of the Central Division. I recommend instead a
12		phased approach to combining the rates of the two divisions.
13		Specifically, I recommend the following:
14 15 16		• The Central Division rate <u>structure</u> (a customer charge plus a flat consumption charge that differs for each customer class) should be adopted for all Northern Division rate areas.
17 18 19 20		• I accept the Company's proposal to set rates for Elk Lake equal to Central Division rates. When the effects of my recommendations are flowed through, this results in a rate decrease of approximately 6% for Elk Lake customers. This is also shown on Schedule SJR-4.
21 22 23 24 25 26 27 28		• Rates for Tri-Village should be set so that the 5/8- and 3/4- inch customer charges are equal to 150% of Central Division rates. Customer charges from 1 inches to 4 inches should be equal to Central Division rates, and customer charges larger than 4 inches should be equal to 50% of Central Division rates. I also recommend that the consumption charges in Tri-Village should equal 150% of Central Division rates. Under my rate design proposal, this results in a rate decrease of approximately 4% for Tri-Village customers.

1 2 3 4		• In Owenton, I recommend that the customer charges should be the same as those in Tri-Village, but the consumption charges should be the same as Central Division rates. Under my rate design proposal, this results in approximately a 5% rate decrease for Owenton customers.
5	Q.	Why are you proposing differing treatment for different meter sizes in Tri-Village
6		and Owenton?
7	A.	At the present time, customer charges in these rate areas do not vary with meter size.
8		This is not reasonable and not consistent with standard industry practice, where it is
9		recognized that the increased cost and capacity of larger meters should result in
10		customers paying higher customer charges for larger meters. To immediately begin
11		charging those higher rates, however, could cause dramatic rate increases for some
12		customers. For example, Owenton has four customers with 6-inch meters. KAWC's
13		customer charge for a 6-inch meter is \$397.73 per month, but these customers are
14		currently paying a customer charge of only \$39.35 per month. I do not consider a 10-fold
15		increase in the rate, in one step, to be reasonable, even if consumption charges are
16		declining. Indeed, according to the Company's bill frequency analysis (AG 1-26), more
17		than 50% of the bills rendered to these customers showed consumption of less than 55 ccf
18		per month. At 55 ccf, a customer with a 6-inch meter in Owenton would pay about \$230
19		per month today. Under existing Central Division rates, the charge to the customer
20		would be over \$490 per month. And, of course, if Central Division rates are increased
21		further in this case, such a customer would face an even steeper rate increase.
22		In my opinion, therefore, it is reasonable and necessary to phase in the rate
23		changes for larger meter sizes in Owenton and Tri-Village.

1		In contrast, most customers with 5/8-inch meters still would have their rates
2		reduced if their meter charges were reduced to a level equal to 150% of Central Division
3		charges. I consider this to be a reasonable interim measure on the road to eventually
4		having the entire service area served under a common set of rate schedules.
5	Q.	What is the effect of your proposals for Northern Division customers?
6	A.	The effect of my proposals is that rates would decrease by between 4% and 6% for each
7		of the Northern Division rate areas, as summarized on Schedule SJR-4. I would
8		eliminate the current, out-dated rate structures that include minimum consumption
9		allowances and decreasing charges as customers use more water. Instead, the rates would
10		have the same structure as the Central Division tariffs, but with some differences in the
11		charges. I consider this to be a reasonable and significant step toward achieving single-
12		tariff pricing without imposing a large burden on Central Division customers.
13	Q.	You mentioned that the Company's proposal would result in rate reductions of
14		
		more than \$450,000 to the Northern Division that would be paid by Central Division
15		more than \$450,000 to the Northern Division that would be paid by Central Division customers. What is the effect of your proposal?
	A.	
15	A.	customers. What is the effect of your proposal?
15 16	A.	customers. What is the effect of your proposal? My proposal results in rate reductions of approximately \$74,000 for the Northern
15 16 17	A.	customers. What is the effect of your proposal? My proposal results in rate reductions of approximately \$74,000 for the Northern Division. I consider this to be a much more reasonable result than the Company's
15 16 17 18	А. Q.	customers. What is the effect of your proposal?My proposal results in rate reductions of approximately \$74,000 for the NorthernDivision. I consider this to be a much more reasonable result than the Company'sproposal. This figure also is shown on Schedule SJR-4.
15 16 17 18 19		 customers. What is the effect of your proposal? My proposal results in rate reductions of approximately \$74,000 for the Northern Division. I consider this to be a much more reasonable result than the Company's proposal. This figure also is shown on Schedule SJR-4. Rate Design Under Company Proposed Revenue Requirement

1	KAWC's proposed revenue requirement; I am simply using it so that the effect of my
2	cost of service and rate design proposals can be compared with the Company's proposals
3	on an "apples-to-apples" basis.
4	My rate design includes (1) increasing the threshold increase for customer classes
5	to 150% of the system average; (2) phasing in the lowering of Northern Division rates,
6	while still moving all customer classes closer to the class cost of service; and
7	(3) increasing only the consumption charges for these water-consuming customer classes.
8	These rates collect approximately the same revenue as the Company's proposed
9	rates (the difference is approximately \$228 out of total proposed revenue of more than
10	\$56 million from the non-fire customer classes), as I show on Schedule SJR-6. ² But that
11	revenue is collected in a way that is more equitable. The revenue collected from the
12	Commercial, Other Public Authority, and Sales for Resale classes is approximately equal
13	to the cost of serving those classes (the difference is less than \$100 for each class), as
14	shown on that schedule.
15	
15	Residential customers will continue to subsidize Industrial customers, but the
16	amount of the subsidy will decline. Specifically, under the Company's proposed rates,
17	Residential customers would subsidize all other customer classes, including subsidies of
18	\$115,000 to Commercial customers and \$435,000 to Industrial customers. In contrast,
19	my proposal eliminates the subsidies to all but the Industrial class, whose subsidy is
20	reduced by \$55,000 to \$380,000. These figures also are shown on Schedule SJR-6.

 $^{^2}$ I have not included the fire protection classes on Schedules SJR-5 and SJR-6 because I am not proposing any changes in the Company's proposed rates to those classes.

1	Q.	Why does Schedule SJR-6 show both the Company's rates and your rates
2		recovering between \$25,000 and \$26,000 less than the cost of service?
3	A.	Schedule SJR-6 does not show all customer classes or all charges. I have not included
4		the fire protection classes or miscellaneous revenue sources, because I am not proposing
5		any changes in those rates. The revenue difference is reflected in those other charges, so
6		both my rates and the Company's rates would result in the Company collecting its full
7		revenue requirement.
8	Q.	What do you conclude about your proposed rates?
9	A.	I conclude that my proposed rates would enable the Company to recover its revenue
10		requirement in a way that is equitable to all classes of customers and all rate areas. In my
11		opinion, my proposal is superior to KAWC's proposal in that I have eliminated or greatly
12		reduced the cross-subsidies present in the Company's proposal. Moreover, I have done
13		so without imposing an undue burden on any particular customer or class of customers.
14		Rate Design Under AG Proposed Revenue Requirement
15	Q.	How do you propose to design rates if KAWC is awarded a lower revenue
16		requirement than it requested?
17	A.	I propose to scale back each of the rates that I propose on Schedule SJR-5, with a
18		limitation that no rates in the Central Division should be decreased below existing rates
19		unless there is a decrease in the overall revenue requirement.
20	Q.	Can you provide an example of how this would work?
21	A.	Yes, as an example I have designed rates to recover the revenue requirement proposed by
22		AG witness Majoros. Mr. Majoros is recommending a revenue requirement for KAWC

1		of no more than \$57,844,021, which is an increase of \$4,840,724, as opposed to the
2		Company's proposed increase of \$11,005,465. On Schedule SJR-7, I show how this
3		lower revenue requirement translates into revenue that needs to be collected from the
4		water-consuming classes of customers. As I show on that schedule, out of the total
5		revenue requirement of \$57,844,021, the water-consuming classes are responsible for
6		\$50,547,398 in meter and consumption charge revenue.
7	Q.	How would you propose to design rates to collect that \$50,547,398 from the water-
8		consuming customer classes?
9	A.	I propose to design rates to collect a lower revenue requirement by following the same
10		basic methodology I did in designing rates under the Company's revenue requirement. I
11		first determine the revenue target for each customer class by looking at the cost of service
12		(reduced for each class in proportion to that class's contribution to the total cost of
13		service). The revenue target is then reduced further if it would require an rate increase
14		that is more than 150% of the system average increase. Using Mr. Majoros's proposed
15		revenue requirement, the system-average increase for the consumption classes is 10.39%,
16		so the maximum increase is 15.59%.
17		Because the Company's existing customer charges already exceed the customer-
18		related costs, I then adjust the consumption charge for each class so that the total revenue
19		from the class is approximately equal to the class's revenue target. The resulting rates are
20		shown on Schedule SJR-8. Schedule SJR-9 shows a summary of the revenues that would
21		be received from each class under these rates.

1	Q.	Please summarize the rates that would collect the AG's proposed revenue
2		requirement.
3	A.	The proposed rates enable the Commercial and Other Public Authority classes to cover
4		their full cost of service with increases of between roughly 13.4 and 14.4 percent. With
5		the limit of a 15.59% increase, the Industrial and Sales for Resale classes cannot fully
6		recover their costs of service. The Industrial shortfall is approximately \$403,000; the
7		Sales for Resale shortfall is approximately \$11,000. These shortfalls are made up by
8		having the Residential class continue to subsidize these large users, so Residential rates
9		are approximately \$414,000 higher than the class cost of service.
10		Conclusion
11	Q.	Does this conclude your direct testimony?

12 A. Yes, it does.