FILED³

MAY 2 5 2000

Witne Type

Exhibit No.:

Issues:

Cost of Service and Rate Design

Witness: Ernest Harwig

Type of Exhibit: Surrebuttal Testimony Sponsoring Party: Multiple Intervenors

Company: Missouri-American Water Company Case Nos.: WR-2000-281/SR-2000-282

(Consolidated)

Missouri Public Service Commission

Before the

Missouri Public Service Commission

In the matter of Missouri-American Water
Company's Tariff Sheets Designed to Implement
General Rate Increases for Water and Sewer
Service Provided to Customers in the Missouri
Service Area of the Company

Case Nos.: WR-2000-281/SR-2000-282
(Consolidated)
)

Surrebuttal Testimony of

Ernest Harwig

On behalf of

City of Warrensburg, Missouri
City of Joplin, Missouri
City of St. Peters, Missouri
City of O'Fallon, Missouri
City of Weldon Spring, Missouri
St. Charles County, Missouri
Central Missouri State University
Hawker Energy Products, Inc.
Harmon Industries, Inc.
Stahl Specialty Company
Swisher Mower and Machine Company
Missouri Industrial Energy Consumers
and
St. Joseph Industrial Water Users

Project 7265/7313 May 2000



Before the

Missouri Public Service Commission

In the matter of Missouri-American Water)			
Company's Tariff Sheets Designed to Implement)	Case Nos.:	WR-2000-281/SR-2000-28	2
General Rate Increases for Water and Sewer)		(Consolidated)	
Service Provided to Customers in the Missouri)		,	
Service Area of the Company)		,	

Affidavit of Ernest Harwig

State of Missouri)	
)	SS
County of St. Louis)	

Ernest Harwig, being first duly sworn on his oath, states:

- 1. My name is Ernest Harwig. My business address is 1215 Fern Ridge Parkway, Suite 208, St. Louis, Missouri 63141-2000. I am a consultant in the field of public utility regulation with the firm of Brubaker & Associates, Inc.
- 2. Attached hereto and made a part hereof for all purposes is my Surrebuttal Testimony which has been prepared in written form for introduction into evidence in the above-referenced docket.
- 3. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded are true and correct.

Ernest Harwig

Subscribed and sworn to before me this 25th day of May 2000.

CAROL SCHULZ
Notary Public - Notary Seal
STATE OF MISSOURI
St. Louis County

My Commission Expires: Feb. 26, 2004

Carol Schulz

My Commission expires on February 26, 2004.

Before the

Missouri Public Service Commission

In the matter of Missouri-American Water)		
Company's Tariff Sheets Designed to Implement)	Case Nos.:	WR-2000-281/SR-2000-282
General Rate Increases for Water and Sewer)		(Consolidated)
Service Provided to Customers in the Missouri)		
Service Area of the Company)		

Surrebuttal Testimony of Ernest Harwig

- 1 Q PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
- 2 A Ernest Harwig; 1215 Fern Ridge Parkway, Suite 208; St. Louis, MO 63141-2000.
- 3 Q HAVE YOU PREVIOUSLY SUBMITTED DIRECT AND REBUTTAL TESTIMONY IN
- 4 THIS PROCEEDING?
- 5 A Yes, I have.
- 6 Q WHAT IS THE SUBJECT OF YOUR SURREBUTTAL TESTIMONY?
- I will comment on statements made in the rebuttal testimonies of Mr. James M. Jenkins and Mr. William M. Stout filed on behalf of Missouri-American Water Company (MAWC or Company). I will also comment on statements made in the rebuttal testimony of Wendell Hubbs filed on behalf of the Staff of the Missouri Public Service Commission.

 Finally, I will respond to statements made by Ms. Hong Hu and Mr. James Busch in rebuttal testimony filed on behalf of the Office of Public Counsel (OPC). My decision not to respond to all statements made in rebuttal testimony by these or other witnesses

should not be construed as agreement with the positions stated in their rebuttal testimonies.

Mr. Jenkins' Testimony

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- Q ON PAGE 2 OF HIS REBUTTAL TESTIMONY, MR. JENKINS DISCUSSES YOUR THREE-PHASE PLAN PERTAINING TO THE RECOVERY OF PRUDENTLY-INCURRED COSTS ASSOCIATED WITH THE NEW ST. JOSEPH TREATMENT PLANT (SJTP). HE CRITICIZES YOUR PLAN FOR NOT RECOGNIZING A DEFERRAL FOR ANY AMOUNT NOT CURRENTLY RECOVERED IN RATES, AS DOES THE STAFF'S PHASE-IN PLAN. WHAT IS YOUR RESPONSE?
- The three-phase plan I propose is not a phase-in plan. Rather, it tracks the progress of treatment plant construction in three separate phases, consistent with the recommendations made by Dr. Charles Morris in his direct testimony. Each phase of construction would be recognized in rates as it is placed in service. Thus, there are no deferrals to be capitalized.

Mr. Stout's Testimony

AT PAGES 2 AND 3 OF HIS REBUTTAL TESTIMONY, MR. STOUT CRITICIZES THE ALLOCATION OF CORPORATE COSTS MADE BY OPC WITNESS HU BASED ON THE NUMBER OF CUSTOMERS IN EACH DISTRICT. MR. STOUT CONTENDS THAT THE USE OF THE NUMBER OF CUSTOMERS DOES NOT CONSIDER THE CAUSATIVE BASIS FOR CORPORATE COSTS AND ALLOCATES MORE COSTS TO THE LARGER DISTRICTS THAN IS APPROPRIATE. HE CONCLUDES THAT THE RESULTS OF HER ALLOCATIONS SHOULD NOT BE CONSIDERED IN EVALUATING THE ASSIGNED AND ALLOCATED COSTS OF SERVING EACH DISTRICT. DO YOU AGREE WITH MR. STOUT'S CRITICISM AND CONCLUSION?

1	Α	Yes, I do. The causative basis of various corporate costs should be considered in
2		making such allocations to the districts. They should not be allocated on one single
3		factor.

- 4 Q AT PAGES 4 THROUGH 7 OF HIS REBUTTAL TESTIMONY, MR. STOUT
 5 CRITICIZES THE INTRODUCTION OF AN "ECONOMIES OF SCALE" FACTOR BY
 6 MS. HU IN HER COST OF SERVICE STUDIES. HE STATES AT PAGE 5 THAT MS.
 7 HU HAS INTRODUCED MARGINAL OR INCREMENTAL COST CONCEPTS INTO
 8 THE ALLOCATION OF EMBEDDED COSTS, AND THAT THIS PROCEDURE IS
 9 INCONSISTENT. DO YOU AGREE WITH THIS CRITICISM?
- 10 A Yes, I do. Ms. Hu's attempt to graft a marginal cost procedure onto a recognized and
 11 accepted method for allocating embedded costs is improper and produces misleading
 12 results, as I stated in my rebuttal testimony at page 11.
- 13 Q MR. STOUT GOES ON TO SAY THAT MS. HU IS INCONSISTENT IN NOT
 14 EXTENDING HER LOGIC TO BOTH THE BASE AND THE EXTRA CAPACITY
 15 PORTIONS OF THE COST. USING THE EXAMPLE OF A WATER MAIN, MR. STOUT
 16 STATES THAT A LARGE PROPORTION OF THE COST OF A "ZERO-INCH" MAIN
 17 WOULD BE CONSIDERED A CUSTOMER COST. DO YOU AGREE WITH HIS
 18 CRITICISM?
- 19 A Yes, I do. I made much the same argument at page 10 of my rebuttal testimony.

Q	AT PAGE 9 OF HIS REBUTTAL TESTIMONY, MR. STOUT STATES THAT THE
	INTERCLASS SHIFTS PROPOSED BY MR. BUSCH OF THE OPC SHOULD BE
	REJECTED AS RELYING ON A COST STUDY THAT DOES NOT PRODUCE
	REASONABLE INDICATIONS OF COST RESPONSIBILITY. DO YOU AGREE WITH
	THIS CRITICISM?

Yes, I do, as I stated on page 14 of my rebuttal testimony.

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AT PAGE 11 OF HIS REBUTTAL TESTIMONY, MR. STOUT STATES THAT "ANY VARIATION IN THE VALUE OF THIS SERVICE [A SAFE AND RELIABLE PRODUCT] IS RELATIVELY MINOR IN COMPARISON TO THE POTENTIAL TEMPORAL VARIATIONS IN THE COST OF SERVICE. SINGE TARIFF PRICING (STP) IS FAR MORE CONSISTENT WITH THE VALUE OF SERVICE THAN DSP." WHAT IS YOUR RESPONSE TO HIS STATEMENT?

First, I am not certain what Mr. Stout means when he says that a variation in the value of service is relatively minor in comparison to the potential variations in the cost of providing that service. In any case, it would be difficult to quantify a variation in the "value of service" if he is referring to the quality of water at the tap.

More disturbing, however, is Mr. Stout's introduction of the concept of value of service as a basis for setting rates. An important purpose of utility regulation is the setting of rates which are primarily based upon the cost of service, rather than the value of service. Insofar as regulation is designed to prevent abuse of monopoly positions, it prevents a supplier from charging a price based on "what the traffic will bear," in other words, the value of service.

AT PAGE 12 OF HIS REBUTTAL TESTIMONY, MR. STOUT STATES THAT YOU ARE IGNORING THE FACTS WHEN YOU CRITICIZE THE "AGE OF PLANT" ARGUMENT HE USES AS A JUSTIFICATION FOR STP. WHAT IS YOUR RESPONSE?

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It is Mr. Stout who is conveniently ignoring the facts. In his response, he states that St. Charles should go from being a subsidy receiver in the last case to a subsidy giver in this case because its plant is no longer the youngest and most expensive. By contrast, he reasons, St. Joseph should go from a subsidy giver in the last case to a subsidy receiver in this case because its plant is now the youngest. Apart from why these events even justify inter-district subsidies at all, what Mr. Stout also ignores is the magnitude of the subsidy that St. Charles would be forced to pay in this case under the Company's STP proposal. This is shown in Table 1 below.

		TABLE	1	
1	Deviation Above or (Below) Cost (\$000)			
<u>Line</u>	Last Case		This Case	
1	St. Charles	\$(414)	St. Charles	\$ 3,190
2	St. Joseph	\$ 940	St. Joseph	\$(6,614)

In the last case, St. Charles received a subsidy of \$414,000. However, in this case, MAWC proposes that St. Charles provide a subsidy of \$3,190,000. At the same time, St. Joseph, which provided excess revenues of \$940,000 due to STP rates in the last case, is now slated to receive a subsidy of \$6,614,000 in this case. Clearly, under STP, the subsidy burden for St. Charles would be far greater than the subsidy it received, and it would remain in a subsidizing position for many years to come. Nonetheless, the magnitude of the subsidy reversal does not dissuade Mr. Stout from stating that "in this

1	case St. Joseph now requires a temporal subsidy, such as the one received by St.
2	Charles."

- Q ON PAGE 12 OF MR. STOUT'S REBUTTAL TESTIMONY, HE STATES THAT YOUR SEARCH FOR SUFFICIENT INVESTMENT IN THE NEXT FOUR YEARS TO REVERSE THE IMPACT OF THE ST. JOSEPH TREATMENT PLANT AS WELL AS THE CURRENT SIGNIFICANT INVESTMENTS IN MEXICO, PARKVILLE AND WARRENSBURG IS SHORT-SIGHTED, AND THAT PUBLIC POLICY SHOULD BE ESTABLISHED WITH A VIEW TO THE LONG-TERM FUTURE AND NOT THE NEXT FEW YEARS. WHAT IS YOUR RESPONSE?
 - A Given the magnitude of the investment in the SJTP, it will not be just "the next few years" during which customers in other districts would subsidize St. Joseph under STP rates. Further, as I stated in my direct testimony at pages 6 and 7, Mr. Stout fails to state the length of time that it would take for the other districts to "catch up" to the unit cost of providing water in St. Joseph. Finally, from a customer's perspective, the certain subsidies paid during "the next few years" carry much more weight than the uncertain prospect of becoming the receiver or an indeterminate level of subsidy somewhere in the distant future.
- 18 Q AT PAGES 12 AND 13 OF HIS REBUTTAL TESTIMONY, AS IT PERTAINS TO THE
 19 EFFECT OF TREATMENT REGULATIONS ON THE COST OF PRODUCING WATER,
 20 MR. STOUT CLAIMS THAT YOU ARE "SHORT-SIGHTED AND NOT MINDFUL OF
 21 THE TREND TO INCREASING LEVELS OF REGULATION THAT HAVE OCCURRED
 22 OVER THE PAST 30 YEARS." WHAT IS YOUR RESPONSE?
- 23 A The conclusions in my direct testimony do not depend on the fact that levels of 24 regulation have increased over the last 30 years. Rather, my point was that neither Mr.

Stout, nor anyone else, is in a position today to predict exactly what the treatment
requirements will be in the future. For that reason, they cannot specify what specific
measures will have to be taken by each of MAWC's operating districts or what these
measures would cost. Even more to the point, a rate order is due in this case in
September 2000. These rates must contemplate the costs of treatment technology in
place now in the various districts, not on future requirements. At such future time when
investments are made to comply with updated treatment standards, the costs should be
borne by the customers in the districts which directly benefit from these investments.

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9 Q AT PAGE 13 MR. STOUT STATES THAT THE NEED TO SEEK LARGE INCREASES
10 FROM A SINGLE DISTRICT CONSTITUTES A POTENTIAL DISINCENTIVE TO
11 PROVIDING THE HIGHEST AND BEST QUALITY SERVICE. WHAT IS YOUR
12 RESPONSE?

I do not believe that district-specific pricing constitutes a disincentive. If customers can see the benefits of pure water resulting from *prudent* investments made in their districts, this should minimize potential opposition. This has certainly been the case in Warrensburg.

AT PAGE 14 OF HIS REBUTTAL TESTIMONY MR. STOUT STATES THAT THE ABILITY TO ABSORB ADDITIONAL COSTS THROUGHOUT THE ENTIRE SYSTEM (AS COMPARED TO THE POTENTIAL IMPACT ON SMALLER DISTRICTS) IS GOOD PUBLIC POLICY AND SUPPORTS THE USE OF STP. DO YOU AGREE?

No, I do not. The magnitude of the increase in this case drives rates well above the DSP cost of service in several of the other districts and will keep them there for many years to come. In this case, the imposition of STP creates rate shock rather than diminishes it.

1	Q	AT PAGE 14 OF HIS REBUTTAL TESTIMONY, MR. STOUT CRITICIZES YOUR
2		EXPLANATION OF HOW STP ENABLES THE COMPANY TO EXPAND ITS RATE
3		BASE AND BENEFIT ITS SHAREHOLDER. WHAT IS YOUR RESPONSE?

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Mr. Stout claims that the expansion of rate base does not directly benefit the shareholder. He notes that the expansion of rate base requires either the sale of more stock or the issuance of debt, and that each requires an appropriate return. He concludes that the higher amount of return is required to service higher debt or to properly compensate a greater number of shares. It is true that additional securities may need to be issued. However, the larger scale of plant provides additional income for the common stockholder.

- 11 Q AT PAGE 15 OF HIS REBUTTAL TESTIMONY, MR. STOUT STATES THAT

 "ALTHOUGH IT MAY SOUND CORNY, HELPING THE LITTLE GUY IS AS

 AMERICAN AS APPLE PIE AND IS STILL GOOD PUBLIC POLICY. STP

 PROMOTES SUCH POLICY, DSP DOES NOT." PLEASE COMMENT.
 - A In this case, it is quite clear that STP does not unambiguously "help the little guy." It would force ratepayers on fixed incomes to pay rates above cost simply to subsidize the entire spectrum of customers in St. Joseph and other high-cost districts. Moreover, under the Company's STP proposal, all the "little guys" in the Joplin district, who are paying rates above cost already, would pay more, not less, than they do now.
- 20 Q AT PAGES 15 AND 16 OF HIS REBUTTAL TESTIMONY, MR. STOUT CLAIMS THAT
 21 YOUR PORTRAYAL OF MAWC'S RATE PROPOSAL AS ARBITRARILY PLACING
 22 THE BURDEN ON THE SHOULDERS OF A RELATIVELY FEW IS NOT ACCURATE.
 23 PLEASE COMMENT.

Α	Mr. Stout conveniently misconstrues my argument. He points out that there are
	approximately 54,000 customers in Joplin, St. Charles and Warrensburg who are paying
	the subsidy under STP, while only 41,000 customers in Brunswick, Mexico, Parkville and
	St. Joseph receive the subsidy. This is certainly not what I was referring to when I said
	that the burden was being placed on relatively few customers.

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To put my argument another way, there are only 54,000 customers in the entire state who would be forced to bear the burden of the costs of a water investment which in no way provides service to them, so that rates in St. Joseph and Brunswick are "more affordable." Thus, the other residents of Missouri, who are not customers of Missouri-American, are exempted from this burden.

AT PAGES 16 AND 17 OF HIS REBUTTAL TESTIMONY, MR. STOUT ATTEMPTS TO PORTRAY THE COMPANY'S PROPOSED STP RATES AS BEING AFFORDABLE. WHAT IS YOUR RESPONSE?

Mr. Stout claims that the monthly bill increase for the system-wide average residential customer will be \$8.84 under the Company's revised revenue requirement claim. He equates this to an increase of 29¢ per day, which is less than the price of a cup of coffee, a can of soda or a lottery ticket.

I believe Mr. Stout's testimony trivializes the impact of such an increase on many of MAWC's customers who must exist on fixed incomes. For them, a two-liter bottle of soda or any bottle of shampoo is not an inconsequential decision. Even under the Company's revised proposal, these customers, who must also purchase such items as medical care, housing and food, would see their water bills go up in excess of 40% per month. Mr. Stout's discussion also fails to address the large increase in the cost of water that would be imposed on businesses, manufacturers and public institutions.

1	Q	AT PAGES 18 AND 19 OF HIS REBUTTAL TESTIMONY, MR. STOUT OUTLINES
2		ALTERNATIVE RATE PROPOSALS WHICH MITIGATE THE IMPACT OF THE ST.
3		JOSEPH TREATMENT PLANT ON THE RATES IN OTHER DISTRICTS. PLEASE
4		COMMENT ON THIS.

A Mr. Stout's alternative rate proposal is similar to the proposal made by MAWC's sister company, Illinois-American Water Company, in a rate filing which it has recently made before the Illinois Commerce Commission. The overall increase requested by Illinois-American is about 9%. However, because it has recently completed and placed in service a new treatment plant in its Alton, Illinois District, it is proposing an Alton District Source of Supply Charge, under which all volumetric charges will be increased by 25%. The overall proposed increase for the Alton District is 27%.

12 Q WHAT CONCLUSION DO YOU DRAW FROM THIS?

A Illinois-American has advocated single tariff pricing in previous cases, and it is not abandoning the concept in its current rate filing. Nonetheless, it is proposing to recover the costs of the Alton plant from ratepayers in the Alton district.

Mr. Hubbs' Testimony

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- 17 Q AT PAGE 4 OF HIS REBUTTAL TESTIMONY, MR. HUBBS STATES THAT SOME
 18 LEVEL OF SUBSIDIZATION WILL OCCUR WHETHER THE COST OF SERVICE IS
 19 DONE ON AN STP OR A DSP BASIS. SHOULD ONE THEN BE INDIFFERENT TO A
 20 CHOICE BETWEEN STP AND DSP AS RATEMAKING METHODOLOGIES?
- A Absolutely not. The approaches taken by DSP and STP are diametrically opposed when it comes to creating relationship between rates and costs. First and foremost, DSP, as Mr. Hubbs points out, draws a circle around individual districts. Thus, only the costs of providing service in that district form the basis for rates. Second, DSP spreads district-

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specific costs to customers in the district on the basis of their usage patterns alone, relative to one another, and not on the basis of usage patterns averaged with one or more additional districts. Thus, DSP equitably allocates and recovers district-specific costs, with the intent of minimizing subsidies among customers.

STP, on the other hand, is a rate averaging device, which by its very nature glosses over very real cost differentials and thus creates subsidies. In a nutshell, DSP attempts to identify legitimate cost differentials, while STP obscures them.

AT PAGE 7 OF HIS REBUTTAL TESTIMONY, MR. HUBBS STATES THAT HE AGREES WITH MR. STOUT'S ARGUMENT THAT ELECTRIC, GAS AND TELEPHONE INDUSTRIES USE STP. WHAT IS YOUR RESPONSE?

Strictly speaking, I do not believe that gas, electric and telephone industries employ STP in the sense that it is used in this case. Keep in mind that these utilities are fundamentally different from water utilities in one very important respect: their service territories are regional and often transcend state boundaries, and they are interconnected. Water utilities, on the other hand, are local in their sphere of operations. The customers of an electric utility may receive energy from any number of power plants, and this energy can be sent over various transmission routes. Energy can even originate from a generating station outside the host utility's service territory. Thus, regional pricing is more acceptable for an electric utility. However, water service is usually provided from a relatively nearby source, and its operations are confined to a local area. Thus, it is more practical (and appropriate) to design rates for a water utility on a district-specific basis.

If STP were to be practiced in the electric industry in a manner analogous to that proposed by the Company, then rates would be averaged for, say, the Empire District

1	Electric Company with those of AmerenUE. Obviously, this has not been done in
2	Missouri.

- AT PAGE 9 OF HIS REBUTTAL TESTIMONY, MR. HUBBS STATES THAT HE

 DISAGREES WITH YOUR STATEMENT THAT STP IS AN UNDESIRABLE

 RATEMAKING POLICY. HE POINTS OUT THAT THE COMMISSION REGULATES

 MOST OTHER UTILITY INDUSTRIES IN MISSOURI WITH STP CONCEPTS. WHAT

 IS YOUR RESPONSE?
- Mr. Hubbs' disagreement is somewhat surprising, in that he, himself, pointed out the disadvantages of STP earlier in his testimony. Second, as I just stated, I do not believe that the Commission explicitly employs a "STP methodology" when it approves rates for electric, gas and telephone utilities. Even if it did, I do not believe that STP is appropriate for the separate operating districts of MAWC.
- 13 Q AT PAGE 9 OF HIS REBUTTAL TESTIMONY, MR. HUBBS STATES THAT HE
 14 DISAGREES WITH YOUR ASSESSMENTS OF THE ADVANTAGES OF DSP.
 15 PLEASE COMMENT.

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Mr. Hubbs goes on to say that "whenever you assign customers to a rate class instead of having rates for individual customers, subsidization will occur." This is apparently his objection to DSP rates. I would point out, however, that rates for all public utilities have traditionally been designed for customer classes rather than individual customers. It is acknowledged that all customers within a class do not exhibit identical usage patterns. However, they are still considered to be treated fairly in that they are placed in a class with other customers who are most like them in terms of load and usage characteristics. It is the relative homogeneity which creates an acceptable degree of fairness when assigning costs to customers within a particular class. While it is appropriate to

aggregate customers into homogenous groups for cost allocation purposes, it does not follow that it is appropriate to group districts together. The unit cost levels in the various districts vary too widely to justify such a grouping. In point of fact, STP can only serve to aggravate the degree of subsidization among districts. By glossing over district cost differentials and assigning the same peaking factors to customers within a particular class, regardless of size or the district in which they are located, STP creates far more distortion between rates and costs than does DSP. It is entirely inconsistent with the goal of parity between costs and rates, which customer classification is intended to accomplish. Thus, if Mr. Hubbs' goal is to minimize subsidization, DSP is the way to go, as he himself acknowledged earlier at page 4 of his rebuttal testimony.

Q AT PAGE 11 OF HIS REBUTTAL TESTIMONY, MR. HUBBS STATES THAT HE GENERALLY DISAGREES WITH YOUR BELIEF THAT DSP ADVANCES THE CAUSE OF FISCAL DISCIPLINE. PLEASE RESPOND.

Apparently, Mr. Hubbs believes that fiscal discipline will be enforced by the Commission when it considers the prudence of the Company's various investments after the fact. I would agree that the prospect of significant disallowance of investment by the Commission is a strong inducement for fiscal discipline. However, it is self-evident that the Company would have a harder task to justify a 100% rate increase than it would to justify a 33% rate increase, and that could influence its investment decisions.

Testimony of Ms. Hu

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21 Q AT PAGE 8 OF HER REBUTTAL TESTIMONY, MS. HU COMPLAINS THAT THE
22 COMPANY'S ALLOCATION METHOD (BASE-EXTRA CAPACITY) HAS ALLOCATED
23 TOO MUCH COST TO PEAK USAGE SO THAT THE RESIDENTIAL CLASS, BEING
24 THE HIGH PEAK USER, IS ALLOCATED A DISPROPORTIONATELY LARGE

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SHARE OF	COST.	SHE I	URTHE	R COMPLAINS	THAT	THE S	STAFF'S (COST S	TUDY

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No, I do not. While I do question the value of Mr. Stout's company-wide cost study and I would also modify some of the functionalization and classification techniques employed by Mr. Hubbs, I still believe that the base-extra capacity method which each of these witnesses has utilized is an appropriate method for allocating costs, and it classifies a reasonable share of costs to the extra capacity cost category.

WHY DOES MS. HU FIND FAULT WITH THE BASE-EXTRA CAPACITY METHOD?

Briefly, Ms. Hu believes that the base-extra capacity method produces results identical to a method that she calls the "pure peak responsibility method." She contends that this method gives inadequate weight to annual water consumption as a cost allocator, and instead allocates costs purely according to customers' peak water usage. Ms. Hu concludes that the Commission should reject any cost study that relies on the base-extra capacity method unless the method is modified in ways which she deems acceptable.

MS. HU PRESENTS AN ANALYSIS WHICH PURPORTS TO SHOW THE EQUIVALENCE BETWEEN THE BASE-EXTRA CAPACITY METHOD AND A PURE PEAK RESPONSIBILITY METHOD. IS HER ANALYSIS CORRECT?

No. It is simply wrong. Ms. Hu fails to consider that the base-extra capacity method utilizes **system coincident** peak day and peak hour demands to <u>classify</u> costs. At the same time, it utilizes the **noncoincident** peak day and peak hour demands of the individual customer classes to <u>allocate</u> the costs to them. These noncoincident peak demands represent the maximum demands of the customer classes regardless of when they occur. They are not the peak responsibility or contribution to system peak

demands. Thus, the base-extra capacity method simply does not utilize a customer class' contribution to the <u>system</u> peak as a basis for allocating costs to that class. Because the sum of the customer noncoincident demands is not equal to the system peak demand, the equivalence between the two methods which she attempts to demonstrate on her Schedule HH Reb-3 simply does not exist.

For example, Table 5B on Page 11 of Ms. Hu's rebuttal testimony shows average daily consumption of 38.3 million gallons. The corresponding maximum day volume is 65.1 million gallons, assuming the weight of 0.5882 shown in her Table 5C. However, the sum of the class noncoincident peaks is 70.6 million gallons. This demonstrates that the base-extra capacity method does not solely utilize class contributions that are coincident with the system peak.

- 12 Q WHAT CIRCUMSTANCES WOULD HAVE TO OCCUR FOR THE BASE-EXTRA

 13 CAPACITY METHOD TO PRODUCE RESULTS IDENTICAL TO THE PEAK

 14 RESPONSIBILITY METHOD?
- A All customer classes would have to exert their maximum day and maximum hour loads on the system on exactly the same day and the same hour.
- 17 Q IS SUCH AN EVENT LIKELY TO OCCUR?
- 18 A No.

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- 19 Q HAS ANY EVIDENCE SHOWING SUCH A COINCIDENCE OF CLASS PEAK
 20 DEMANDS IN ANY OF THE MISSOURI-AMERICAN DISTRICTS BEEN PRESENTED
 21 IN THIS CASE?
- 22 A No.

1	Q	DID MS. HU PROVIDE A NUMERICAL EXAMPLE TO SUBSTANTIATE THE								
2		EQUIVALENCE OF THE TWO METHODS WHICH SHE ALLEGES TO HAVE								
3		DEMONSTRATED IN HER SCHEDULE HH REB-3?								
4	Α	No, she did not.								
5	Q	AT PAGE 13 OF HER REBUTTAL TESTIMONY, MS. HU STATES THAT "THE FACT								
6		THAT THIS METHOD PRODUCES SIMILAR OR IDENTICAL RESULTS TO A PURE								
7		PEAK RESPONSIBILITY ALLOCATION METHOD HAS LONG BEEN RECOGNIZED								
8		BY MANY RESEARCHERS AND REGULATORS IN THE ELECTRICITY AREA. HAS								
9		MS. HU CITED ANY COMMISSION ORDERS WHICH EXPLICITLY RECOGNIZE THE								
10		ALLEGED EQUIVALENCE OF THESE TWO METHODS?								
11	Α	No, she has not. She has simply provided quotes from testimony filed in an electric case								
12		and a statement provided to the City of Austin pertaining to a water rate study. In any								
13		case, the assertions made by these witnesses are erroneous for the same reasons that								
14		Ms. Hu's exhibit is erroneous.								
15	Q	IN YOUR OPINION, DOES THE BASE-EXTRA CAPACITY METHOD ALLOCATE A								
16		SIGNIFICANT PROPORTION OF OPERATING AND CAPITAL COSTS ON THE								
17		BASIS OF AVERAGE DAY OR ANNUAL CONSUMPTION?								
18	Α	Yes, it most certainly does. I have personally performed or reviewed dozens of water								
19		cost of service studies as a regular part of my participation in rate cases and contract								
20		negotiations. Without exception, the largest proportion of the total cost of service is								
21		classified to the base, or average day, cost category in these studies. Much smaller								
22		proportions of total cost are allocated to the maximum day or maximum hour functions.								

Thus, based on my experience, I simply cannot accept Ms. Hu's contention that the

1	base-extra	capacity	method	is	equivalent	to	а	so-called	"pure	peak	responsibility
2	method."										

Mr. Busch's Rebuttal Testimony

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- 4 Q AT PAGE 7 OF HIS REBUTTAL TESTIMONY MR. BUSCH STATES THAT YOUR
 5 PROPOSED 35% ANNUAL INCREASE FOR THE FIRST STAGE OF A PHASE-IN IS
 6 EXCESSIVE. WHAT IS YOUR RESPONSE?
- I agree that 35% constitutes a substantial increase above present rates. However, I do believe that rates should be equated to prudently incurred district-specific costs on a fairly rapid basis.
- 10 Q AT PAGE 8 OF HIS REBUTTAL TESTIMONY, MR. BUSCH NOW RECOMMENDS
 11 THAT THE JOPLIN DISTRICT RECEIVE A ZERO PERCENT INCREASE IN ITS
 12 RATES. WHAT IS YOUR RESPONSE?
 - This is certainly a step in the right direction, as compared to his earlier recommendation that Joplin receive a 10% rate increase. Still, his new recommendation is made in spite of the fact that, even according to Mr. Busch's own Schedule JAB-R1, Joplin is above cost of service by \$715,000, or nearly 10%.

Thus, Mr. Busch's recommendation is unacceptable to Joplin ratepayers. Joplin has been in the position of subsidizing other districts since the last MAWC rate case in 1997. This should stop. The desire to mitigate rate shock in other districts is not a sufficient reason to keep Joplin in a subsidizing position; nor is it a reason to force Joplin ratepayers to provide a return on plant which in no way serves their needs for water service.

Q PLEASE COMMENT ON MR. BUSCH'S SCHEDULES JAB-R2 AND JAB-R3.

A These schedules show how OPC proposes to allocate its phase-in revenues among the various customer classes in each district. These revenue allocations are based on the cost of service study prepared by Ms. Hu. For the reasons which I have previously outlined, Ms. Hu's cost of service studies are not a reliable guide to customer class cost responsibility. Therefore, the Commission should ignore Mr. Busch's revenue allocations, as they would under-collect revenues from the residential class and over-collect revenues from the industrial and resale classes.

9 Q DOES THIS CONCLUDE YOUR SURREBUTTAL TESTIMONY?

10 A Yes, it does.

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