Exhibit No.:

Issues: Class Cost of Service Study Witness: William M. Warwick Sponsoring Party: Union Electric Company
Type of Exhibit: Direct Testimony
Case No.: GR-2007-0003

Date Testimony Prepared: July 3, 2006

#### MISSOURI PUBLIC SERVICE COMMISSION

**CASE NO. GR-2007-0003** 

**DIRECT TESTIMONY** 

**OF** 

WILLIAM M. WARWICK

ON

**BEHALF OF** 

UNION ELECTRIC COMPANY d/b/a AmerenUE

St. Louis, Missouri July 2006

#### TABLE OF CONTENTS

I.	INTRODUCTION	1
II.	PURPOSE AND SUMMARY OF TESTIMONY	2
III.	CLASS COST OF SERVICE STUDY	2
IV.	UNBUNDLING FUNCTIONAL COST COMPONENTS	12

1		DIRECT TESTIMONY
2		OF
3		WILLIAM M. WARWICK
4		CASE NO. GR-2007-0003
5		I. <u>INTRODUCTION</u>
6	Q.	Please state your name and business address.
7	A.	William M. Warwick, Ameren Services Company ("Ameren Services"), One
8	Ameren Plaza	a, 1901 Chouteau Avenue, St. Louis, Missouri.
9	Q.	What is your position with Ameren Services?
10	A.	I am the Managing Supervisor of Rate Engineering.
11	Q.	What is Ameren Services Company?
12	A.	Ameren Services Company provides various corporate, administrative and
13	technical sup	port services for Ameren Corporation ("Ameren") and its affiliates, including
14	Union Electri	c Company d/b/a AmerenUE ("Company" or "AmerenUE").
15	Q.	Please describe your educational background and employment
16	experience.	
17	A.	I received the degree of Bachelor of Science in Engineering Management
18	from the Univ	versity of Missouri-Rolla in December 1978.
19		I was employed at ACF Industries' Amcar Division-St. Louis Plant from
20	December 19	78 to December 1981 as an engineer in the Industrial Engineering Department
21	responsible fo	or project planning. I began working at Union Electric Company in the Rate
22	Engineering l	Department in December 1981.

1	My duties and responsibilities include assignments related to t	he Company's								
2	gas and electric rates, including participation in regulatory proceedings, rate analysis, the									
3	development and interpretation of the Company's gas and electric tariffs, including rules and									
4	regulations, and other rate or regulatory projects as assigned.									
5	II. PURPOSE AND SUMMARY OF TESTIMONY									
6	Q. What is the purpose of your direct testimony in this proceed	eding?								
7	A. I will discuss:									
8	(1) The development of a fully allocated embedded custom	ner class cost of								
9	service study for the Company's Missouri jurisdictional natural gas operation	s for the test								
10	year period of the twelve months ending June 30, 2006; and									
11	(2) The sub-aggregation, or unbundling, of the various fun	ctional cost								
12	components included in the Company's allocated class cost of service study.									
13	An Executive Summary of my testimony is included in Attachment A	of Company								
14	witness Wilbon L. Cooper's direct testimony.									
15	III. <u>CLASS COST OF SERVICE STUDY</u>									
16	Q. Please explain the information contained in Schedule WM	W-G1.								
17	A. Schedule WMW-G1 contains the results of the Company's cus	tomer class cost								
18	of service study for its Missouri jurisdictional natural gas operations for the to	est year ended								
19	June 30, 2006. This study is based upon the Company's present rate levels ar	d weather								
20	normalized sales during the test year. The Missouri natural gas jurisdictional	cost of service								
21	study sponsored by Company witness Gary S. Weiss and discussed in his dire	ect testimony								
22	provided the total rate base and expense items that formed the starting point f	or this study.								

1	Q.	What is generally meant by the term "cost of service study"?							
2	A. A cost of service study determines a utility's aggregate annual								
3	requirement necessary to recover its operating and maintenance expenses and taxes,								
4	depreciation of its plant, and a fair return on the utility's net investment in property and plan								
5	Q.	What information is provided by a class cost of service study?							
6	A.	A class cost of service study allocates the various costs identified in the cost							
7	of service stu	dy to each of the Company's rate classes, to determine as accurately as possible							
8	the respective	e cost of serving each of the Company's rate classes.							
9	Q.	What rate classes were included in the Company's class cost of service							
10	study?								
11	A.	The Company's existing residential, general service, interruptible service and							
12	standard and large volume transportation service classes were allocated their respective								
13	portions of th	e Company's operating costs in the class cost of service study.							
14	Q.	Were the rate base investment and expenses associated with the							
15	Company's	special contract customers considered in the class cost of service study you							
16	performed?								
17	A.	Yes, they were. However, in considering such costs in my study, I employed							
18	a cost of serv	ice approach similar to that utilized by the Commission Staff, for the lighting							
19	class, in the C	Company's past electric cases involving such studies. This approach consists of							
20	allocating the	e total of all Company investment and expense to the other customer classes, as							
21	if there were no special contract customers. This allocation of such costs to the non-special								
22	contract customers is offset by also allocating, or crediting, existing special contract revenues								
23	to the other customer classes. This allocation of special contract costs and revenues was								

12

13

14

15

16

17

18

19

20

21

22

- done based on each class' respective total net original cost rate base. This process presumes that the Company's current special contract revenues, which comprise about 1.6% of the
- 3 Company's total revenues, currently provide a fair and reasonable recovery of the
- 4 Company's total costs of providing such service. Said another way, it is presumed that
- 5 allocated special contract revenues are equivalent to allocated special contract costs.
- 6 Q. Did your class cost of service study include purchased gas costs?
- A. No, purchased gas costs, including the cost of the gas commodity, demand, pipeline transportation and a portion of storage costs, are fully recovered through the
- 9 Purchased Gas Adjustment ("PGA") clause of the Company's tariffs and do not affect the operating income or rate of return earned by the Company.
  - Q. Please describe the first step you took in the preparation of your class cost of service study.
  - A. The first step I took was to functionalize costs according to major functional areas, such as production, transmission and distribution plant, in order to determine which customer classes are responsible for such costs.
  - Q. What categories of cost did you examine in developing the customer class cost of service study summary included in Schedule WMW-G1 of your testimony?
  - A. I conducted an analysis of all elements of the Company's investment and expense associated with the Company's Missouri natural gas operation, for the purpose of allocating such costs to the customer classes served by the Company. As a part of this analysis, total expenses and investment in property and plant were classified into their customer-related, demand-related, and variable or commodity-related components.

expenses to the various rate classes.

#### 1 Q. Please describe these categories of cost in greater detail. 2 Customer-Related Costs are those costs which are unrelated to customer usage A. 3 and result from the very existence of a customer, i.e., the costs of making service available, 4 including the costs of meter reading, billing, etc., as well as the fixed costs associated with 5 the customer's meter, service pipe, and some portion of the Company's investment in 6 distribution mains. These costs do not vary from month-to-month and are unaffected by 7 year-to-year fluctuations in the consumption level of existing customers. 8 Demand-Related Costs are those costs which the Company incurs in order to meet the 9 maximum daily gas demands imposed by its customers. These costs include a significant 10 portion of all fixed costs associated with the Company's investment in plant and expenses to 11 meet the customers' expected maximum loads on the Company's system. 12 Commodity-Related Costs are those costs which are a function of the actual volume 13 of gas delivered or sold. Since purchased gas costs are excluded from the class cost of 14 service study, gas supply expenses not included in the Company's PGA and the costs of gas 15 stored underground are the only class cost of service study costs in this category. 16 Q. What was the next step in your class cost of service study? 17 A. The next step in the class cost of service study was to develop the appropriate 18 factors to allocate the rate base components and associated operating and maintenance

1	Q.	Please describe the development of the factors used to allocate such costs								
2	to each cust	omer class.								
3	A.	The allocation factors for each customer class were determined by calculating								
4	the proportion	nate share of total customer or property units of each class and the total								
5	commodity or demand related units of each class.									
6	Custo	omer-Related allocation factors are generally proportionate to the annual number								
7	of customer	bills rendered to each rate class or to the weighted average of the customer-								
8	related costs	of certain items, based on Company studies.								
9	Dema	and-Related allocation factors are proportionate to either the coincident peak or								
10	non-coincide	ent peak day delivered demand of the various rate classes (including the								
11	interruptible	class' peak demand). Coincident and non-coincident peak day demands are								
12	explained fur	rther, below.								
13	Commodity-Related allocation factors are proportionate to the volumes sold or									
14	transported t	o each rate class.								
15	Q.	After the various allocation factors for each class were derived, what was								
16	the next step	o in the study?								
17	A.	The next step was to apply these allocation factors to the various functional								
18	components	of rate base and operating and maintenance expenses, as developed in total for								
19	the Company	y's Missouri jurisdictional natural gas operations by Mr. Weiss.								
20	Q.	Please describe how those costs and expenses were allocated to the								
21	various cust	omer classes.								
22	A.	The original cost and depreciation reserves of the major functional								
23	components	of the Company's natural gas rate base for the test year were allocated to								

- 1 customer classes as described below. The resulting dollar amounts allocated to each class are
- 2 provided in Schedule WMW-G1.
- 3 (1) <u>Production Plant</u>. The Company operates a propane peak shaving
- 4 plant which produces gas primarily during the Company's highest periods of demand to
- 5 supplement gas supply from the pipelines normally serving the Company's customers. This
- 6 production plant was allocated to each customer class on the basis of the class coincident
- 7 peak demand allocation factor for each customer class. Coincident peak demand is the
- 8 customer class' peak load the day of the Company's system peak. The coincident peak day
- 9 demands for the rate classes were determined by Company witness James R. Pozzo and are
- discussed in his direct testimony. The coincident demand assigned to the interruptible class
- was only its assurance gas level, due to the likelihood of curtailment on the peak day.
- 12 Customers who only take transportation service on the Company's distribution system were
- 13 not allocated production plant since they purchase their gas supply from a third party.
- 14 (2) Transmission Plant. Transmission plant investment is demand related
- and was allocated to each customer class based upon the Average and Excess Demand
- method. This method allocates a portion of these costs according to the average use of all
- 17 customers and a portion according to the additional use related to the non-coincident peak of
- each customer class. Non-coincident peak demand is the customer class' actual peak day
- 19 load regardless of the day of its occurrence. The class non-coincident peak day demands
- were calculated by Mr. Pozzo.
- 21 <u>Distribution Plant.</u> The Company's distribution plant was allocated to
- each customer class based upon an analysis of the functions performed by the facilities in

1 Distribution Plant Accounts 374-387. This analysis determined the breakdown of each

2 account into its customer-related and demand-related functions.

The customer-related portions of the distribution system include Services (Account 380), Meters (Account 381), and House and Industrial Regulators (Accounts 383 and 385). Distribution Account 380, Services, was allocated to each of the customer classes by allocation factors which weigh the results of multiplying the current cost of the typical services arrangement, determined for each customer class, by the number of customers in that class. Distribution Account 381, Meters, was allocated to each of the customer classes by allocation factors which weigh the results of multiplying the current cost of the typical metering arrangement, determined for each customer class, by the number of meters used in serving that class. Distribution Accounts 383 and 385, House and Industrial Regulators, were allocated to each of the customer classes by allocation factors which weigh the results of multiplying the current cost of a typical regulator, determined for each customer class, by the number of regulators used in serving that class.

All distribution plant not located on the customer's property was classified as demand-related and allocated on a demand basis. Land and Land Rights (Account 374), Structures and Improvements (Account 375), Mains (Account 376), and Measuring and Regulating Equipment – General and City (Accounts 378 and 379) were all allocated based on the Average and Excess Demand method.

(4) <u>General and Intangible Plant</u>. The balances in these accounts were allocated to each customer class on the basis of the proportion of labor expense allocated to each class. This "labor ratio" method of allocation is the same as that employed by Mr.

Missouri.

1 Weiss, in arriving at the Missouri portion of General Plant and Administrative and General 2 ("A&G") expenses in his jurisdictional cost of service study 3 (5) Accumulated Reserves for Depreciation. As such reserves are 4 functionalized by type of plant, these reserves were allocated on the same basis as the 5 allocation of the various plant accounts, as described above. 6 (6) Materials and Supplies. This component consists of local materials 7 related to production, transmission and distribution facilities and was allocated on the basis 8 of allocated gross plant. 9 (7) Propane Costs. This component consists of fuel storage inventories 10 related to the propane production plant and was allocated on the basis of the class coincident 11 peak demand allocation factors, excluding transportation customers, for each customer class. 12 (8) Gas Stored Underground. This component consists of natural gas 13 storage inventories and was allocated based on winter (November-March) sales volumes to 14 each respective customer class. This is typically the period when such underground storage 15 is utilized. Transportation customers were not allocated stored gas since they purchase their 16 gas supply from third parties. 17 (9)Cash Working Capital. This item is related primarily to operating 18 expenses and was therefore allocated to each customer class in proportion to the total 19 operating expenses allocated to each such class. 20 (10)Customer Advances and Deposits. This component of rate base was 21 assigned to each customer class on the basis of an analysis of the sources of such deposits in

1	(11) <u>Total Accumulated Deferred Income Taxes</u> . This component is related										
2	primarily to investment in property, and was therefore allocated to each customer class on the										
3	basis of allocated gross plant.										
4	Q. How did you allocate the Missouri jurisdictional test year natural gas										
5	operating and maintenance expenses, as developed by Mr. Weiss, to the various										
6	customer classes?										
7	A. In general, with very few exceptions, the Missouri natural gas operating and										
8	maintenance expenses were allocated to the various customer classes on the same basis as the										
9	related investment in plant was allocated. This type of allocation employs the familiar and										
10	widely used "expenses follow plant" principle of cost allocation. For example, the allocator										
11	for distribution mains was utilized to allocate distribution main expenses. The only										
12	exceptions to this allocation procedure are as follows:										
13	(1) <u>Production Expenses</u> . This item consists of two categories: demand										
14	and commodity. The demand or fixed portion of production expenses was allocated on the										
15	same basis as production plant, while the commodity or variable portion was allocated based										
16	on volumes delivered to each customer class.										
17	(2) <u>Customer Accounts Expenses</u> . Account 903, Customer Records and										
18	Collection Expenses, was allocated to each class based on the number of annual bills in each										
19	customer class. Account 904, Uncollectible Accounts, was allocated to each customer class										
20	on the basis of the annual level of such activities applicable to each customer class in the										
21	Company's Missouri natural gas business. Accounts 902 and 905, Meter Reading and										
22	Miscellaneous Customer Accounts Expense, were allocated to each class based on the										

10

11

12

13

14

15

16

17

18

19

20

21

22

- number of customers in each customer class. Account 901, Supervision, was allocated to
   each class on the basis of the composite allocation of all other Customer Accounts Expenses.
- 3 <u>Customer Service and Sales Expense</u>. These expenses were allocated
   4 to each customer class using the composite allocation of Customer Accounts Expenses.
- 5 (4) <u>A&G Expense</u>. A&G expenses were allocated to the various customer 6 classes on the basis of the class composite distribution of previously allocated labor 7 expenses. As indicated earlier, this allocation of A&G expenses reflects the same method as 8 that utilized by Mr. Weiss in the Company's jurisdictional cost of service study.

#### Q. How did you allocate the test year depreciation expenses?

A. Since depreciation expenses are functionalized and are directly related to the Company's original cost investment in plant, this expense within each function was allocated to each customer class on the basis of the previously allocated original cost production, transmission, distribution and general plant.

#### Q. How did you allocate the test year real estate and property taxes?

A. Real estate and property tax expenses are directly related to the Company's original cost investment in plant. Thus, this expense was allocated to customer classes on the basis of gross plant.

#### Q. How did you allocate the test year income taxes?

A. Income tax expense is directly related to the Company's net operating income as a proportion of its net rate base investment, i.e. rate of return on its net original cost rate base. As a result, income taxes were allocated to each class on the basis of the net original cost rate base of each customer class.

1	Q.	Please identify Schedule WMW-G2.									
2	A.	Schedule WMW-G2 was derived from the class cost of service summary on									
3	Schedule WI	MW-G1. To develop Schedule WMW-G2, I modified the base revenues of each									
4	class in Schedule WMW-G1 to reflect the class revenues necessary for the Company to										
5	realize equalized rates of return from each customer class at the Company's current level of										
6	total Missour	i natural gas revenues.									
7	Q.	Please describe the method used to equalize rates of return for each									
8	customer cla	ass, as reflected in your Schedule WMW-G2.									
9	A.	The total net original cost rate base of each customer class was multiplied by									
10	the Missouri	jurisdictional test year return of 8.607%, as indicated in Mr. Weiss' testimony,									
11	to obtain the	required total net operating income of each class. This net operating income									
12	was then add	ed to the operating expenses of each class to obtain the total operating revenue									
13	of each class	required for equal class rates of return. The resulting cost of service of each									
14	customer cla	ss is set forth on line 5 of Schedule WMW-G2. However, the revenue									
15	requirement	of each customer class is as indicated in Mr. Cooper's Schedule WLC-G2.									
16	I	UNBUNDLING FUNCTIONAL COST COMPONENTS									
17	Q.	What is your second area of responsibility in this case?									
18	A.	My second area of responsibility was to disaggregate or unbundle the									
19	Company's c	lass revenue requirements in its allocated class cost of service study. These									
20	costs were di	vided into the following Functionalized Cost Categories.									
21		(1) Customer Related Costs									
22		(2) Distribution - Demand Related Costs									
23		(3) Transmission - Demand Related Costs									

1	(4) Production - Commodity Related Costs	
2	(5) Production - Demand Related Costs	
3	Q. Why is a breakdown of such costs necessary?	
4	A. This breakdown was required by Mr. Cooper for use in the development of	of
5	proposed rates in this case, which are discussed in Mr. Cooper's direct testimony.	
6	Q. Please describe the general method utilized in your analyses for the	
7	unbundling of the Company's revenue requirement.	
8	A. This unbundling process entailed a detailed analysis of the various	
9	components of the equalized customer class rates of return study presented in Schedule	
10	WMW-G2 of my testimony. As the Company's various components of cost presented in	
11	Schedule WMW-G1 were allocated to customer classes on either a customer, commodity	or or
12	demand related basis, the unbundling process consisted of extracting these various	
13	components of cost and summarizing them into the functional cost categories indicated	
14	earlier.	
15	Q. In this accounting of the Company's total costs, how did you reconcile	<b>;</b>
16	total costs with the Company's various sources of revenue?	
17	A. As the objective of the cost unbundling analysis was to unbundle the costs	3
18	associated with the Company's base rate revenues, the Company's miscellaneous revenue	;
19	sources associated with other revenues were deducted from the unbundled functional cos	t
20	categories in a manner reflective of where the costs associated with such services appear	in
21	the Company's accounts. Some examples of other Company revenues are late pay charge	es,
22	dishonored check charges, meter rentals and disconnect/reconnect charges.	

A.

Yes, it does.

10

1	Q.	Following this process of netting the Company's miscellaneous revenues
2	against their	r supporting costs, were the remaining unbundled costs the amounts which
3	are, in the a	ggregate, recovered in the Company's base rate revenues?
4	A.	Yes, the steps I have described will equate the Company's base rate revenues
5	with the cost	s associated with such revenues. The results of this analysis are contained in
6	Schedule W	MW-G3 of my testimony. As I indicated earlier, this information will be used by
7	Mr. Cooper	in the development of the revised rates being proposed by the Company in this
8	case.	
9	Q.	Does this conclude your direct testimony?

## BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Union El d/b/a AmerenUE for Autl Tariffs Increasing Rates f Service Provided to Custo Company's Missouri Ser	nority to File for Natural Gas omers in the	) ) ) ) ) LLIAM M. V		o. GR-2007-0003
STATE OF MISSOURI	)			
CITY OF ST. LOUIS	) ss )			
William M. Warwick, bei	ng first duly swor	n on his oath	, states:	
1. My name i	s William M. Wa	rwick. I worl	k in the C	City of St. Louis,
Missouri, and I am emplo	yed by Ameren S	ervices Comp	oanies as	Managing Supervisor of
Rate Engineering.				
2. Attached h	ereto and made a	part hereof fo	or all pur	poses is my Direct
Testimony on behalf of U	nion Electric Con	npany d/b/a A	merenU!	E consisting of 14 pages
and Schedules WMW-G1	through WMW-(	33, all of whi	ch have t	peen prepared in written
form for introduction into	evidence in the al	bove-referenc	ed docke	et.
3. I hereby sv	vear and affirm th	at my answer	s contain	ed in the attached
testimony to the questions	therein propound	led are true ar	nd correc	t.
Subscribed and gwarm to b		_		MWanurih Warwick
Subscribed and sworn to b	before me this	_ day of July	Yue	odstock y Public
My commission expires:	Notary	N J. WOODSTO Public - Notary Se E OF MISSOURI	OCK eal	

Franklin County
My Commission Expires: May 19, 2008

#### <u>AmerenUE</u>

#### MISSOURI GAS OPERATIONS CLASS COST OF SERVICE ALLOCATION STUDY 12 MONTHS ENDED JUNE 2006

TITLE: COST OF SERVICE SUMMARY (Current Rates)

		 TOTAL							I	RANSPORTA	TIC	N SERVICE
LINE #	<u>ITEM</u>	MISSOURI .	R	ESIDENTIAL		<u>GENERAL</u>	<u>IN</u>	TERRUPTIBLE				RGE VOLUME
1												
2	COST OF SERVICE SUMMARY											
3												
4	GAS OPERATING REVENUE											
5	Sale of Gas	\$ 56,213,886	\$	34,867,638	\$	13,249,271	\$	851,473	\$	3,127,331	\$	4,118,173
6	Special Contract Revenues	\$ 963,856	\$	604,954	\$	248,775	\$	15,640	\$	43,484	\$	51,003
7	Other Operating Revenues	\$ 2,163,673	\$	1,713,678	<u>\$</u>	341,156	\$	13,633	\$	44,896	\$	50,310
8												
9	TOTAL GAS OPERATING REVENUES	\$ 59,341,415	\$	37,186,270	\$	13,839,201	\$	880,746	\$	3,215,711	\$	4,219,487
10												
11	EXPENSES:											
12	Total Gas O&M Expenses	\$ 29,708,819	\$	21,427,122	\$	5,747,010	\$	311,536	\$	1,020,776	\$	1,202,375
13	Depreciation Expense	\$ 6,940,919	\$	4,507,491	\$	1,692,403	\$	90,953	\$	299,489	\$	350,583
14	Taxes Other than Income Taxes	\$ 6,290,533	\$	4,020,145	\$	1,538,349	\$	83,331	\$	300,317	\$	348,391
15												
16	INCOME TAXES	\$ 8,340,910	\$_	5,275,701	\$	2,073,584	\$	111,861	<u>\$</u>	407,409	\$	472,355
17												
18	NET UTILITY OPERATING INCOME	\$ 8,060,234	\$	1,955,810	\$	2,787,855	\$	283,065	\$	1,187,721	\$	1,845,784
19												
20	RATE BASE	\$ 218,130,143	\$	136,907,059	\$	56,300,163	\$	3,539,521	\$	9,840,831	\$	11,542,569
21												
22	RATE OF RETURN - REALIZED	3.70		1.43		4.95		8.00		12.07		15.99

#### <u>AmerenUE</u>

# MISSOURI GAS OPERATIONS CLASS COST OF SERVICE ALLOCATION STUDY 12 MONTHS ENDED JUNE 2006

#### TITLE: COST OF SERVICE SUMMARY (Equal Returns)

		TOTAL				TRANSPORTA	ATION SERVICE
LINE#	<u>ITEM</u>	<b>MISSOURI</b>	RESIDENTIAL	<b>GENERAL</b>	NTERRUPTIBLE	STANDARD	_ARGE VOLUME
1							
2	COST OF SERVICE SUMMARY						
3							
4	GAS OPERATING REVENUE						
5	Sale of Gas (Margin)	\$ 66,717,210	\$ 44,472,969	\$ 15,357,522	\$ 896,496	\$ 2,754,812	\$ 3,235,410
6	Special Contract Revenues	\$ 963,856	\$ 604,954	\$ 248,775	\$ 15,640	\$ 43,484	\$ 51,003
7	Other Operating Revenues	\$ 2,513,498	\$ 2,026,752	\$ 377,127	\$ 13,675	\$ 45,582	\$ 50,361
8							
9	TOTAL GAS OPERATING REVENU	\$ 70,194,564	\$ 47,104,675	\$ 15,983,424	\$ 925,811	\$ 2,843,878	\$ 3,336,775
10							
11	EXPENSES:						
12	Total Gas O&M Expenses	\$ 29,847,739	\$ 21,558,364	\$ 5,754,098	\$ 311,536	\$ 1,020,776	\$ 1,202,965
13	Depreciation Expense	\$ 6,940,919	\$ 4,507,491	\$ 1,692,403	\$ 90,953	\$ 299,489	\$ 350,583
14	Taxes Other than Income Tax	\$ 6,290,533	\$ 4,020,145	\$ 1,538,349	\$ 83,331	\$ 300,317	\$ 348,391
15							
16	INCOME TAXES	\$ 8,340,910	\$ 5,235,083	\$ 2,152,818	\$ 135,345	\$ 376,296	\$ 441,367
17							
18	NET UTILITY OPERATING INCOME	\$ 18,774,463	\$ 11,783,592	\$ 4,845,756	\$ 304,647	\$ 847,000	\$ 993,469
19							
20	RATE BASE	\$ 218,130,143	\$ 136,907,059	\$ 56,300,163	\$ 3,539,521	\$ 9,840,831	\$ 11,542,569
21							
22	RATE OF RETURN - REALIZED	8.607	8.607	8.607	8.607	8.607	8.607

### AmerenUE MISSOURI GAS OPERATIONS CLASS COST OF SERVICE ALLOCATION STUDY 12 MONTHS ENDED JUNE 2006

					<b>Transportation Service</b>		
	<u>Total</u>	<u>Residential</u>	<u>General</u>	<u>Interruptible</u>	<u>Standard</u>	Large Volume	
Base Revenue							
Customer	\$ 31,695,352	\$ 24,719,329	\$ 5,825,908	\$ 224,473	\$ 531,431	\$ 394,210	
Production Demand	\$ 1,715,045	\$ 1,157,633	\$ 556,997	\$ 414	\$ -	\$ -	
Production Energy	\$ 3,115,498	\$ 2,005,543	\$ 1,007,773	\$ 96,683	\$ 1,916	\$ 3,583	
Transmission Demand	\$ 840,594	\$ 461,598	\$ 222,454	\$ 15,970	\$ 61,748	\$ 78,824	
Distribution Demand	\$ 29,350,722	\$ 16,128,866	\$ 7,744,390	\$ 558,955	\$ 2,159,717	\$ 2,758,793	
	\$ 66,717,210	\$ 44,472,969	\$ 15,357,522	\$ 896,496	\$ 2,754,812	\$ 3,235,410	