Exhibit No.:

Issues:

Rate Design / Class Cost-Of-

Service

Witness: Sponsoring Party: Type of Exhibit:

William M. Warwick Union Electric Rebuttal Testimony

Case No.:

EC-2002-1

Date Testimony Prepared:

May 10, 2002

MISSOURI PUBLIC SERVICE COMMISSION

CASE NO. EC-2002-1

REBUTTAL TESTIMONY

OF

WILLIAM M. WARWICK

ON

BEHALF OF

UNION ELECTRIC COMPANY d/b/a AmerenUE

St. Louis, Missouri May 10, 2002

1		REBUTTAL TESTIMONY
2		OF
3		WILLIAM M. WARWICK
4		CASE NO. EC-2002-1
5	Q.	Please state your name and business address.
6	Α.	My name is William M. Warwick. My business address is 1901 Chouteau
7	Avenue, St. I	Louis, Missouri 63103.
8	Q.	By whom are you employed and in what capacity?
9	A.	I am employed by Ameren Services Company as a Consulting Rate
10	Engineer in t	he Rate Engineering Department of Corporate Planning. In this capacity, I
11	provide rate	engineering services to Union Electric Company d/b/a AmerenUE.
12	Q.	Please describe Ameren Services Company.
13	A.	Ameren Services is a subsidiary of Ameren Corporation which provides
14	various admi	nistrative and technical support services for its parent and other subsidiaries
15	including Un	nion Electric Company, doing business as AmerenUE, (referred to herein as
16	UE, Compar	y or AmerenUE).
17	Q.	Please summarize your education and business experience.
18	A.	This information is summarized in Appendix A to this testimony.
19	Q.	What are your responsibilities in this proceeding?
20	A.	I am responsible for:
21		(1) Developing a fully allocated embedded customer class cost of
22		service study for the Company's Missouri jurisdictional operations
23		for the test year established by the Missouri Public Service

1			Commission for this proceeding - the twelve months ending June
2			30, 2001.
3		(2)	Disaggregating, or unbundling, the various functional cost
4			components included in the Company's allocated class cost of
5			service study.
6		An E	xecutive Summary of my testimony is included in Appendix B of
7	Company wit	ness R	ichard J. Kovach's testimony.
8	Q.	Pleas	se identify Schedule 1 attached to your testimony.
9	A.	Sche	dule 1 contains the results of my customer class cost of service study
10	for the Comp	any's N	Missouri jurisdictional operations for the test year ending June 30,
11	2001. This st	tudy is	based upon the Company's present rate levels and weather
12	normalized sa	ales du	ring the test year. A Missouri jurisdictional cost of service study
13	prepared by I	Regulat	ory Accounting at my request provided the total rate base and
14	expense item	s that f	formed the starting point for this class cost of service study.
15	Q.	Wha	t categories of cost did you examine in developing the customer
16	class cost of	service	e study summary included in Schedule 1 of your testimony?
17	A.	I con	ducted a detailed analysis of all elements of the Company's
18	investment a	nd expe	enses, associated with the Company's Missouri operations, for the
19	purpose of al	locatin	g such costs to the non-lighting customer classes served by the
20	Company. A	s a par	t of this analysis, total expenses and investment in property and plant
21	were classific	ed into	their customer-related, energy-related, and demand-related
22	components.		

- Q. Were the rate base investment and expenses associated with the Company's lighting customers considered in the cost of service study you performed?
 - A. Yes, they were. However, in considering such lighting costs in my study, I employed a cost of service approach similar to that utilized by the Commission Staff in the Company's past cases involving such studies. This approach consists of allocating all direct lighting costs and the total of all other Company investment and expenses only to the non-lighting customer classes, as if there were no lighting customers. This allocation of such costs to the non-lighting classes is offset by also allocating, or crediting, existing lighting revenues to the non-lighting customer classes. This allocation of lighting costs and revenues was done based on each class' respective total net original cost rate base. This process presumes that the Company's current lighting revenues, which are about one percent of the Company's total revenues, currently provide a fair and reasonable recovery of the Company's total costs of providing lighting service. Said another way, it is presumed that allocated lighting revenues are equivalent to allocated lighting costs.
 - Q. Please describe the development of the factors used to allocate costs to each customer class.
 - A. The allocation factors for each customer class were determined by calculating the proportionate share of total customer or property units of each class and the total energy or demand related units of each class, including applicable losses. These calculations were developed at the various voltage levels on the Company's generation, transmission and distribution system that are associated with the facilities being allocated.

1	Q.	After the allocation factors for each class were derived, what was the
2	next step in	the study?
3	A.	The next step was to apply these allocation factors to the various
4	functional co	omponents of rate base and operating and maintenance expenses, as
5	developed in	total for the Company's Missouri jurisdictional operations.
6	Q.	Please describe how those costs and expenses were allocated to the
7	customer cl	asses.
8	A.	The original cost and depreciation reserves of the major functional
9	components	of the Company's Missouri electric rate base were allocated to customer
10	classes as de	scribed below. The resulting dollar amounts (in thousands) allocated to each
11	class are pro	vided in Schedule 1.
12		(1) Production Plant. Production plant was allocated to each customer
13	class on the	basis of the Four Non-Coincident Peak (4 NCP) Average and Excess
14	Demand allo	ocation factors for each customer class at the Company's generating stations.
15	The rebuttal	testimony sponsored by Mr. Kovach in this docket explains why the 4 NCP
16	Average and	Excess methodology should be used for the allocation of the Missouri
17	jurisdictiona	l Production Plant to the various customer classes.
18		(2) Transmission Plant. Transmission line and substation investment was
19	allocated to	each customer class on the basis of the twelve coincident peak (12 CP)
20	demands of	each class at their point of input to the Company's transmission system. Such
21	12 CP alloca	ation is consistent with the development of the Ameren Corporation (Ameren)
22	system trans	mission revenue requirement, under Ameren's Open Access Transmission
23	Tariff (OAT	T), on file with the Federal Energy Regulatory Commission (FERC).

1 (3) Distribution Plant. The Company's Missouri Distribution Plant was
2 allocated to each customer class based upon the results of a detailed analysis of the
3 function performed by the facilities in Distribution Plant Accounts 360-369. This
4 analysis determined the breakdown of each account into its customer related and primary
5 and secondary voltage demand-related functions. Primary distribution voltage is 600
6 volts and above, while secondary distribution voltage is below 600 volts.

The portion of the Distribution Plant accounts assigned to the customer component was derived using the generally accepted and widely used zero intercept methodology described in the National Association Of Regulatory Utility Commissioners (NARUC) Electric Utility Cost Allocation Manual. This approach to cost assignment is predicated on the fact that there is a zero or no load component in even the smallest available unit of utility distribution equipment. The zero intercept method identifies the portion of plant related to a hypothetical no-load or zero-intercept condition, i.e., the cost of making service available to a customer. The remaining, or demand-related portion of the Company's Distribution plant accounts was split between the primary and secondary voltage levels on the basis of a review of the functional utilization of the various equipment and hardware in such accounts. For all distribution accounts, with the exception of Account 369, Services, the demand-related investment in each account was allocated to each customer class on the basis of the non-coincident peak demand of each class at the appropriate primary and secondary voltage levels.

The demand-related investment in Account 369, Services, was allocated to each customer class on the basis of the sum of the maximum demands of each customer in the class at the secondary level. The maximum individual customer demands were

sizing of their service facilities. 2 Distribution Account 370, Meters, was allocated to each of the customer 3 4 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 5 meters used in serving that class. All metering cost is classified as customer related. 6 Account 371-1, Installation On Customer's Premises Substation 7 equipment, was allocated to the Primary class on the basis of such customers' historic use 8 of these facilities. 9 Account 373, Street Lighting & Signal Systems, was allocated to the 10 customer classes based on their net original cost rate base, as explained earlier. 11 12 (4) General Plant. The balance in this account was allocated to each customer class on the basis of the proportion of labor expense allocable to each class. 13 This "labor ratio" method of allocation is the same as that employed by Mr. Weiss, in 14 arriving at the Missouri portion of General Plant and Administrative and General (A&G) 15 expenses in his jurisdictional cost of service study. 16 (5) Accumulated Reserves for Depreciation. As such reserves are 17 functionalized by type of plant, these reserves were allocated on the same basis as the 18 19 allocation of the various plant accounts, as described above. 20 (6) Materials & Supplies. This component consists of fuel inventories, power pool materials related to power plants and transmission facilities, and local 21 materials related mainly to distribution facilities. Fuel inventories and power pool 22 23 materials are directly related to generation, and were therefore allocated on the basis of

used to reflect the fact that the maximum demand of individual customers dictates the

- Rebuttal Testimony of William A. Warwick the energy allocation factor. The local distribution materials were allocated on the basis 1 of the composite allocation of Distribution Plant, as previously described. 2 3 (7) Cash Working Capital. This item is related primarily to operating expenses and was therefore allocated to each customer class in proportion to the total 4 5 operating expenses allocated to each class. (8) Customer Advances for Construction and Deposits. This component 6 of rate base was assigned to each customer class on the basis of an analysis of the sources 7 8 of such deposits in Missouri. (9) Total Accumulated Deferred Income Taxes. This component is related 9 primarily to investment in property, and was therefore allocated to each customer class on 10 the basis of allocated gross plant. 11
 - Q. How did you allocate the Missouri jurisdictional test year operating and maintenance expenses to the customer classes?

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- A. With very few exceptions, the operating and maintenance expenses were allocated to the customer classes on the same basis as the related investment in plant was allocated. This type of allocation employs the familiar and widely used "expenses follow plant" principle of cost allocation. For example, the allocator for Transmission Lines was utilized to allocate Transmission Line expenses. The only exceptions to this procedure are as follows:
- 20 (1) Production Expenses. This item consists of two categories: (1) fixed,
 21 which includes standard operating crews, nuclear support staff and net interchange
 22 capacity charges; and (2) variable, which includes fuel, fuel handling, production plant
 23 maintenance expenses and net interchange power energy costs. The fixed portion of

- 1 production expenses was allocated on the same basis as Production Plant, while the
- 2 variable portion was allocated using a variable allocator based on the megawatthours
- 3 required at the generator to provide service to each respective customer class.
- 4 (2) System Revenues. This item consists of revenues derived from system
- 5 capacity sales, transmission service charges and miscellaneous rentals. Reserve capacity
- and transmission service charges primarily contribute to the reduction of fixed charges on
- 7 transmission facilities, while a significant portion of miscellaneous rental revenue is
- 8 associated with General Plant. Thus, these revenues were allocated to the customer
- 9 classes based on a weighting of the results of applying the previously mentioned
- 10 Transmission Plant allocators to the reserve capacity and transmission service revenues,
- and "labor ratio" allocators to the remaining miscellaneous rental revenue.
- 12 (3) Customer Accounts Expenses. An analysis of Account 903, Customer
- 13 Records & Collection Expenses, indicated that approximately 21 percent of such
- expenses are devoted to credit and collection activities. Therefore, this portion of
- 15 Account 903 and all of Account 904, Uncollectible Accounts, were allocated to each
- 16 customer class on the basis of the annual level of such activities applicable to each
- 17 customer class in the Company's Missouri jurisdiction. The remaining 79 percent of
- 18 Account 903, and other direct Customer Accounts Expenses were allocated to each
- 19 customer class utilizing a weighted billing and customer accounts administration
- allocation factor. Account 902, Meter Reading, was allocated to each class by weighting
- 21 the results of applying the monthly contract meter reading cost per meter to the respective
- 22 number of meters in each customer class. Account 901, Supervision, was allocated to

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- each class on the basis of the composite allocation of all other Customer Accounts 1 Expenses. 2
- (4) Customer Service & Sales Expenses. These expenses were allocated 3 to each customer class using the composite allocation of Customer Accounts Expenses. 4
- (5) Interest on Customer Surety Deposits. These expenses were allocated to each customer class on the basis of the previously allocated Customer Advances and 6 Deposits, since advances and deposit accounts are typically representative of where 7 surety deposits are booked.
- 9 (6) Administrative & General Expenses. The Electric Power Research Institute (EPRI) subscription included in the test year A&G Expenses is based upon a 10 11 formula incorporating the Company's kilowatthour sales and revenues. Therefore, this expense was allocated to each customer class on the basis of the application of this 12 formula to the sales and revenues of each customer class during the study period. 13

All remaining A&G expenses were allocated to the customer classes on the basis of the class composite distribution of previously allocated labor expense. As indicated earlier, this allocation of A&G expenses reflects the same methodology as that utilized by Mr. Weiss in the Company's jurisdictional cost of service study.

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

- 19 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 20 allocated to each customer class on the basis of the previously allocated original cost 21 production, transmission, distribution and general plant. 22
 - How did you allocate the test year real estate and property taxes? Q.

A. Real estate and property tax expenses are directly related to the Company's original cost investment in plant, so this expense was allocated to customer classes on the basis of the sum of the previously allocated production, transmission, distribution and general 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.

Q. Did you make any adjustments to Company witness James R. Pozzo's weather normalized base rate revenues?

A. Yes, despite Mr. Pozzo's effort to replicate Regulatory Accounting's weather normalized base rate revenues, there was a \$626,000 difference. As the cause of this difference can not be determined, such difference was allocated to the classes based on the allocation of net original cost rate base. Such treatment is consistent with the allocation of lighting revenues mentioned earlier in my testimony. This adjustment can be found on my Schedule 1, page 1, line 5 titled Base Rate Revenue Variance.

Q. Please identify Schedule 2.

A. Schedule 2 was derived from my class cost of service summary on page 1 of Schedule 1. To develop Schedule 2, I modified the base revenues of each class in Schedule 1 to reflect the class revenues necessary for the Company to realize equalized rates of return from each customer class at the Company's current level of total Missouri revenues.

1	Q.	Please describe the methodology used to equalize rates of return for
2	each custom	er class, as reflected in your Schedule 2.
3	A.	The total net original cost rate base of each customer class was multiplied
4	by the Misso	uri jurisdictional test year return of 9.094% to obtain the required total net
5	operating inc	come of each class. This net operating income was then added to the
6	operating ex	penses of each class to obtain the total operating revenue of each class
7	required for	equal class rates of return. The resulting revenue requirement to be derived
8	from the Co	mpany's base rates and assigned to each customer class is the sum of lines 1
9	and 5 of Sch	edule 2.
10	Q.	What is your second area of responsibility in this case?
11	A.	My second area of responsibility is to desegregate or unbundle the
12	Company's	class revenue requirements in its allocated class cost of service study. These
13	costs were d	ivided into the following Functionalized Cost Categories.
14		1) Customer Related Costs
15		2) Distribution - Demand Related Costs
16		3) Transmission - Demand Related Costs
17		4) Production - Energy Related Costs
18		5) Production - Demand Related Costs
19	Q.	Why is a breakdown of such costs necessary?
20	A.	This breakdown was required by Company witness Mr. Kovach for use in
21	the develop	ment of proposed rates in this case.
22	Q.	Please describe the general methodology utilized in your analyses for
23	the unbund	lling of the Company's revenue requirement.

1	A. This unbundling process entailed a detailed analysis of the various
2	components of the equalized customer class rates of return study presented in Schedule 2
3	of my testimony. As the Company's various components of cost presented in Schedule 1
4	were allocated to customer classes on either a customer, energy or demand related basis,
5	the unbundling process consisted of extracting these components of cost and assigning
6	them to the functional cost categories indicated earlier.
7	Q. In this accounting of the Company's total costs, how did you reconcile
8	total costs with the Company's various sources of revenue?
9	A. As the objective of the cost unbundling analysis was to unbundle the costs
10	associated with the Company's base rate revenues, the Company's miscellaneous revenue
11	sources associated with Other, Lighting and System revenues were deducted from the
12	unbundled functional cost categories in a manner reflective of where the costs associated
13	with such services appear in the Company's accounts. Some examples of Other
14	Company revenues are late payment charges, returned check charges, meter rentals,
15	substation rentals and disconnect/reconnect charges. System revenues generally consist
16	of transmission service charges and facility and land rental receipts.
17	Q. Following this process of netting the Company's miscellaneous
18	revenues against their supporting costs, were the remaining unbundled costs the
19	amounts which are, in the aggregate, recovered in the Company's base rate
20	revenues?
21	A. Yes, the steps I have described equated the Company's base rate revenues
22	with the costs associated with such revenues. The results of this analysis are contained in
23	Schedule 3 of my testimony. As I indicated earlier, this information will be used by Mr.

Rebuttal Testimony of William A. Warwick

- 1 Kovach in the development of the revised rates being proposed by the Company in this
- 2 case.
- 3 Q. Does this conclude your testimony?
- 4 A. Yes, it does.

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

	OF THE STATE OF MISSOURI						
The Staff of the Missour Commission,	i Public Service)))					
vs.) Case No. EC-2002-1					
Union Electric Company AmerenUE,	, d/b/a espondent.)))					
	AFFIDAVI	Γ OF WILLIAM M. WARWICK					
STATE OF MISSOUR CITY OF ST. LOUIS) ss)						
William M. War	wick, being first d	uly sworn on his oath, states:					
1. My name	is William M. Wa	rwick. I work in St. Louis, Missouri and I am					
employed by Ameren Se	ervices Company a	s a Consulting Rate Engineer.					
2. Attached	hereto and made a	part hereof for all purposes is my Rebuttal Testimony					
on behalf of Union Elec	tric Company d/b/a	a AmerenUE consisting of <u>13</u> pages, Appendix A					
and Schedules 1 through	3, all of which ha	we been prepared in written form for introduction into					
evidence in the above-re	eferenced docket.						
3. I hereby s	wear and affirm th	at my answers contained in the attached testimony to					
the questions therein pro	ppounded are true a	and correct.					
		William M. Warwick					
Subscribed and sworn to	before me this ${\cal J}$	day of May 2002					
My commission expires	:	DEBBY ANZALONE Notary Public - Notary Seal STATE OF MISSOURI					

St. Louis County
My Commission Expires: April 18, 2006

QUALIFICATIONS OF WILLIAM M. WARWICK

My name is William M. Warwick and I reside in St. Louis County, Missouri.

I am a Consulting Rate Engineer in the Rate Engineering Department of Corporate Planning at Ameren Services Company.

I received the degree of Bachelor of Science in Engineering Management from the University of Missouri-Rolla in December 1978.

I was employed at ACF Industries' Amcar Division-St. Louis Plant from December, 1978 to December, 1981, as an engineer in the Industrial Engineering Department, responsible for project planning. I began working at Union Electric Company in the Rate Engineering Department in December, 1981.

My duties and responsibilities include assignments related to the Company's gas and electric rates, including participation in regulatory proceedings, rate analysis, the development and interpretation of the Company's gas and electric tariffs, including rules and regulations, and other rate or regulatory projects as assigned.

TITI	LE: SUMMARY (\$000's)						SMALL		LARGE	5	SMALL	Ł	ARGE
		M	<u>ISSOURI</u>	RE	<u>ESIDENTIAL</u>	<u>G</u>	<u>EN SERV</u>	<u>G</u>	<u>EN SERV</u>	PR	RIMARY	PR	IMARY
		_		_	-0	_				_			
1	BASE REVENUE		1,773,763		786,445		226,660		393,395		204,361		162,901
2	OTHER REVENUE	\$	73,128		40,919		7,826		13,203		6,028		5,153
3	LIGHTING REVENUE	S	25,633		13,246		3,175		5,334		2,120		1,758
4	SYSTEM REVENUE	\$	(3,744)	\$	(1,892)	\$	(453)	\$	(787)	\$	(339)	\$	(272)
5	BASE RATE REVENUE VARIANCE	\$_	626	\$	323	\$	78	<u>\$</u>	130	<u>\$</u>	52	<u>5_</u>	43
6	TOTAL OPERATING REVENUE	\$	1,869,405	\$	839,040	\$	237,285	\$	411,275	\$	212,222	\$	169,582
7													
8	TOTAL PROD., T&D, CUST., AND A&G EXP.	\$	971,740	\$	455,212	\$	115,777	\$	204,379	\$	105,788	S	90,583
9	TOTAL DEPR. AND AMMORT. EXP.	\$	278,979	\$	144,806	\$	34,774	\$	57,982	\$	22,637	\$	18,780
10	REAL ESTATE AND PROPERTY TAXES	\$	78,116	\$	40,683	\$	9,750	\$	16,210	\$	6,273	\$	5,201
- 11	INCOME TAXES	\$	162,739	\$	84,096	\$	20,159	\$	33,864	\$	13,459	S	11,161
12	PAYROLL TAXES	\$	16,944	5	8,387	\$	1,996	\$	3,449	\$	1,681	\$	1,430
13	FEDERAL EXCISE TAX	\$	(117)	\$	(56)	\$	(14)	\$	(27)	\$	(11)	\$	(9)
14	REVENUE TAXES	\$	<u> </u>	\$	<u> </u>	\$		\$		\$		\$	
15	TOTAL OPERATING EXPENSES	\$	1,508,401	\$	733,129	\$	182,442	\$	315,857	\$	149,826	\$	127,146
16			, ,										
17	NET OPERATING INCOME	\$	361,003	\$	105,911	\$	54,843	\$	95,418	\$	62,395	\$	42,436
18			-				,						
19	GROSS PLANT IN SERVICE	S	8,145,416	\$	4,242,096	\$	1,016,695	\$	1,690,221	\$	654,097	\$	542,307
20	RESERVES FOR DEPRECIATION	\$	3,518,877	\$	1,833,165	\$	436,650	\$	732,878	\$	282,314	\$	233,870
21	NET PLANT IN SERVICE	\$	4,626,539	\$	2,408,931	\$	580,045	\$	957,343	\$	371,782	\$	308,437
22													
23	MATERIALS & SUPPLIES - FUEL	\$	125,294	\$	47,899	\$	14,244	\$	30,042	\$	17,701	\$	15,408
24	MATERIALS & SUPPLIES -LOCAL	\$	17,020	\$	10,316	\$	2,233	S	2.954	S	855	\$	661
25	CASH WORKING CAPITAL	\$	34,382				4,096				3,743		3,205
26	CUSTOMER ADVANCES & DEPOSITS	s	(23,301)				(7,755)		•		(714)		(1,515)
27	ACCUM. DEFERRED INCOME TAXES	-	(810,067)		•		(101,111)				(65,050)		(53,933)
28	TOTAL NET ORIGINAL COST RATE BASE		3,969,867				491,753	_			328,317		272,264
29	TO THE TOTAL COST WITH DITTE	Ψ	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*	-,00.,00	_	1, . 3 3	~	00,000	*	3.0,577	_	_,_,_,
30	RATE OF RETURN		9.094%	,	5.163%)	11.153%		11.551%		19.005%		15.586%

INE# ACCOUNT	# ITEM	ALLOCATION BASIS	MISSOURI <u>T</u> OTAL	RESIDENTIAL	SMALL GEN SERVICE	LARGE GEN SERVICE	PRIMARY	LARGE PRIMARY
HINE # ACCOUNT	# (IEM	<u>āksis</u>	IOTAL	KESIDENTIAL	GEN SERVICE	GEN SERVICE	PRIMARI	FRIMARI
1 2	PRODUCTION	A.F.1	\$4,562.947	\$2,167,336	\$558,468	\$1,037,746	\$434.210	\$365,186
3	TRANSMISSION							
4	LINES	A.F.2	\$267,771	\$126,903	\$30,730	\$58,810	\$27,426	\$23,903
5 6	SUBSTATION	A.F.3	\$172,068	\$81,547	\$19,747	\$37,791	\$17,624	\$15,360
7 8	TOTAL TRANSMISSION		\$439.839	\$208,449	\$50,477	\$96,601	\$ 45,049	\$39,263
9 10	DISTRIBUTION PLANT							
11 360	SUBSTATION LAND	A.F.8	\$15,317	\$7,702	\$1.876	\$3,295	\$1,331	\$1,113
12 13	OTHER LAND	A.F.5	\$3.084	\$1,565	\$381	\$669	\$266	\$203
14 361-362 15	SUBSTATIONS	A.F.8	\$450,035	\$226,309	\$55,125	\$96,812	\$39,099	\$32,691
15 364	POLES TOWERS FIXTURES							
17	CUSTOMER	A.F.4	\$63,546	\$55.802	\$7,225	\$478	\$37	\$3
18	PRIMARY	A.F.5	\$365,256	\$185,306	\$45,137	\$79,272	\$31,496	\$24,045
19	SECONDARY	A.F.6	\$109,720	\$65,647	\$15,990	\$28,083	\$0	\$0
20 21	LIGHTING-DIRECT	DIRECT	\$0	\$0	\$0	\$0	\$0	\$0
22 23	SUBTOTAL		\$538,522	\$306,755	\$68,352	\$107,833	\$31,534	\$24,048
24 365	OVERHEAD CONDUCTOR							
25	CUSTOMER	A,F,4	\$166,225	\$145,969	\$18,900	\$1,250	\$98	\$8
26	PRIMARY	A.F.5	\$403,498	\$204,707	\$49,862	\$87,572	\$34,794	\$26,563
27 28	SECONDARY	A.F.6	\$23,936	\$14,321	\$3,488	\$6,126	\$0	\$0
29 30	SUSTOTAL		\$593,659	\$364,997	\$72,251	\$94,948	\$34,892	\$26,571
31 366	UNDERGROUND CONDUIT							
32	CUSTOMER	A.F.4	\$6,979	\$6,129	\$794	\$52	\$4	\$0
33	PRIMARY	A.F.5	\$81,528	\$41,362	\$10,075	\$17,694	\$7,030	\$5,367
34 35	SECONDARY	A.F.6	\$36,118	\$21,610	\$5,264	\$9,244	\$0	\$0
36 37	SUBTOTAL		\$124,625	\$69,100	\$16,132	\$26,991	\$7,034	\$5,367
38 367	UNDERGROUND CONDUCTORS							
39	CUSTOMER	A.F.4	\$80.641	\$70,814	\$9,169	\$607	\$47	\$4
40	PRIMARY	A.F.5	\$185,493	\$94,107	\$22,922	\$40,258	\$15,995	\$12,211
41 42	SECONDARY	A.F.6	\$108,941	\$65,181	\$15,877	\$27,884	\$0	\$0
43	SUBTOTAL		\$375,075	\$230,101	\$47,968	\$68,748	\$16,043	\$12,215

TITLE: 9	GROSS PL	ANT IN SERVICE - PAGE 2							
LINE#	ACCOUNT	<u># ITEM</u>	ALLOCATION BASIS	MISSOUR! <u>TO</u> TAL	RESIDENTIAL	SMALL GEN SERVICE	LARGE GEN SERVICE	PRIMARY	LARGE <u>PRIMARY</u>
			91,510	101714	THE OFFICE AND ADDRESS OF THE OFFICE AND ADD	OCH DETTINE	OF IN OF IN IOC	<u> </u>	<u> </u>
1 2	368	LINE TRANSFORMERS							
3	300	CUSTOMER	A.F.15	\$178,087	\$156,485	\$20,262	\$1,340	\$0	\$0
4		SECONDARY	A.F.6	\$124,782	\$74,659	\$18,185	\$31,938	\$0 \$0	\$0
5		52001127111	71.7.0	4124,102	974,009	310,103	431,330		
6		SUBTOTAL		\$302.869	\$231,144	\$36,447	\$33,278	\$0	\$0
7					*-* ·	44-7	***************************************		
8	369-1	OVERHEAD SERVICES							
9		CUSTOMER	A.F.15	\$53,439	\$46,957	\$6.080	\$402	\$0	\$0
10		SECONDARY	A.F.16	\$54,519	\$36,600	\$7,083	\$10.836	\$0	\$0
11				*********	**************	***************************************			
12		SUBTOTAL		\$107.958	\$83,557	\$13,163	\$11,238	\$0	\$0
13 14	369-2	UNDERGROUND SERVICES							
15	309-2	CUSTOMER	A.F.15	\$24,130	\$21,203	\$2,745	\$182	\$0	\$0
16		SECONDARY	A.F.16	\$78,992	\$53,029	\$2,743 \$10,262	\$15,700	\$0 \$0	\$0
17		SECONDANT	A.C.IU	\$10,332	\$33,028	\$10,262	\$15,700	20	Φu
18		SUBTOTAL		\$103,122	\$74,232	\$13,008	\$15,862	\$0	\$0
19				***************************************	47 1,202	• 15,555	• .5,002	••	•
20	370	METERS	A.F.7	\$95,949	\$55,002	\$29,606	\$7,796	\$3,096	\$449
21									
22	371	CUSTOMER INSTALLATIONS	DIRECT	\$164	\$0	\$0	\$0	\$82	\$82
23	0.77	ATOEST 1 101 171 10	. =						
24 25	373	STREET LIGHTING	A.F.29	\$86,471	\$44,684	\$10,711	\$17,994	\$7,151	\$5,930
25 26		SUBTOTAL - CUSTOMER DIST PL	ANT	\$668.996	\$558,361	\$94,781	\$12,107	\$3,283	\$465
27		- DEMAND DIST PLANT	200	\$2,127.854	\$1,136,789	\$272.239	\$473.377	\$137,245	\$108,205
28		- DEMAND DIST FEATT		- 121,121,034 	\$1,130,768	\$272.239	3473,377	3137,240	\$100,200
29		DISTRIBUTION TOTAL		\$2,796,850	\$1,695,150	\$367,019	\$485,484	\$140,528	\$108,669
30					01,000,100	\$00. (0.10	4.60 , 16 1	4,,,,,,	4.401005
31		GENERAL PLANT	A.F.35	\$345,780	\$171,161	\$40,731	\$70,390	\$34,310	\$29,188
32									
33				\$0	\$0	\$0	\$0	\$0	\$0
34									
35 36				0	0	0	0	0	0
37		SUBTOTAL PRODIT&DIGENICOMA	ACM OF ANY	ED 445 446	64.040.000	\$4.04C.CDE	C4 CDC CC4	\$554.007	\$542,307
38		SUBTOTAL PROD, TAD, GEN, COM	ION PLANT	\$8,145,416	\$4,242,096	\$1,016,695	\$1,690,221	\$654,097	\$542,307
39				\$0	\$0	\$0	\$0	\$0	\$0
40				\$0	\$0	\$D	\$0	\$0	\$0
41				\$0	\$0	\$0	\$0	\$ D	\$0
42					***************				
43		TOTAL GROSS PLANT		\$8,145,416	\$4,242,096	\$1,016,695	\$1,690,221	\$654,097	\$542,307

TITLE: GROSS	S PLANT IN SERVICE - PAGE 3	ALLOCATION	MISSOURI		SMALL	LARGE		LARGE	
LINE # ACCO	<u>UNT# ITEM</u>	BASIS	TOTAL	RESIDENTIAL	GEN SERVICE	GEN SERVICE	PRIMARY	PRIMARY	
1									
2	MATERIALS & SUPPLIES - FUEL	A.F.11	\$125,294	\$47.899	\$14,244	\$30.042	\$17,701	\$15,408	
3	MATERIALS & SUPPLIES - LOCAL	A.F.18	\$17,020	\$10,316	\$2,233	\$2,954	\$855	\$661	
4	CASH WORKING CAPITAL	A.F.37	\$34,382	\$16,106	\$4,096	\$7,231	\$3,743	\$3,205	
5	CUSTOMER ADVANCES & DEPOSITS	A.F.12	(\$23,301)	(\$9,918)	(\$7,755)	(\$3,398)	(\$714)	(\$1,515)	
6	ACCUM DEFERRED INCOME TAXES	A.F.19	(\$810,067)	(\$421,879)	(\$101,111)	(\$168,094)	(\$65,050)	(\$53,933)	
7			+						
8	TOTAL GROSS RATE BASE		\$7,488,744	\$3,884,619	\$928,403	\$1,556,957	\$610,631	\$506,134	

TITLE:	RESERVES	FOR DEPRECIATION - PAGE 1							
LINE#	ACCOUNT#	ITEM	ALLOCATION BASIS	MISSOURI TOTAL	RESIDENTIAL	SMALL GEN SERVICE	LARGE GEN SERVICE	PRIMARY	LARGE <u>PRIMARY</u>
			<u>DAGIO</u>	101/15	KEOKAGIATAE	OC! TOL! TIOL	<u> </u>		
1 2		PRODUCTION	A.F.1	\$1,949,195	\$925,840	\$238,566	\$443,303	\$185,485	\$156,000
3		TRANSMISSION							
4		LINES	A.F.2	\$117,646	\$55,755	\$13,501	\$25,838	\$12,050	\$10,502
5		SUBSTATION	A.F.3	\$71,138	\$33,714	\$8,164	\$15,624	\$7,286	\$6,350
7		TOTAL TRANSMISSION		\$188,784	\$89,469	\$21,665	\$41,462	\$19,336	\$16,852
8 9		DISTRIBUTION PLANT							
10 11	360	SUBSTATION LAND	A.F.8	\$0	\$ 0	\$0	\$0	\$0	\$0
12		OTHER LAND	A.F.5	\$0 \$0	\$0	\$0 \$0	\$0	\$0 \$0	\$0
13	321	STIER CANS	A.I.J	30	30	30	40	40	•••
14 15	361-362	SUBSTATIONS	A.F.8	\$191,570	\$96,335	\$23,465	\$41,211	\$16,644	\$13,916
16	364	POLES TOWERS FIXTURES							
17	304	CUSTOMER	A.F.4	\$53,390	\$46,884	\$6,070	\$402	\$31	\$3
18		PRIMARY	A.F.5	\$306,885	\$155,693	\$37,923	\$66,604	\$26,463	\$20,203
19		SECONDARY	A.F.6	\$92,185	\$55,155	\$13,435	\$23,595	\$0	\$0
20		LIGHTING-DIRECT	DIRECT	\$0	\$0	\$0	\$0	\$0	\$0
21					***************************************	***********			*****
22		SUBTOTAL		\$452,460	\$257,732	\$57,428	\$90,600	\$26,494	\$20,205
23									
24	365	OVERHEAD CONDUCTOR							
25		CUSTOMER	A.F.4	\$62,818	\$55,163	\$7,142	\$472	\$37	\$3
26		PRIMARY	A.F.5	\$152,486	\$77,361	\$18,843	\$33,094	\$13,149	\$10,038
27		SECONDARY	A.F.6	\$9,045	\$5,412	\$1,318	\$2,315	\$0	\$0
28				4004	0.400		40-000	*************	**********
29 30		SUBTOTAL		\$224,349	\$137,936	\$27,304	\$35,882	\$13,186	\$10,042
31	366	UNDERGROUND CONDUIT							
32		CUSTOMER	A,F.4	\$1,842	\$1,618	\$209	\$14	\$1	\$0
33		PRIMARY	A.F.5	\$21,520	\$10,918	\$2,659	\$4,671	\$1,856	\$1,417
34		SECONDARY	A.F.6	\$9.533	\$5,704	\$1,389	\$2,440	\$0	\$0
35						***********			
36		SUBTOTAL		\$32.895	\$18,239	\$4,258	\$7,124	\$1,857	\$1,417
37									
38	367	UNDERGROUND CONDUCTORS							
39		CUSTOMER	A.F.4	\$17,282	\$15,176	\$1,965	\$130	\$10	\$1
40		PRIMARY	A.F.5	\$39,753	\$20,168	\$4,912	\$8,628	\$3,428	\$2,617
41		SECONDARY	A.F.6	\$23,346	\$13,968	\$3,402	\$ 5,975	\$0	\$0
42				**********		***************************************		*********	
43		SUBTOTAL		\$80,381	\$49,312	\$10,280	\$14,733	\$3,438	\$2,618

TITLE: !	RESERVES	FOR DEPRECIATION - PAGE 2							
LINE#	ACCOUNT#	<u>ITEM</u>	ALLOCATION BASIS	MISSOURI <u>TOTAL</u>	RESIDENTIAL	SMALL GEN SERVICE	LARGE GEN SERVICE	PRIMARY	LARGE <u>PRIMARY</u>
1	265	LINE TO A VOCO BUTCH							
2 3	368	LINE TRANSFORMERS CUSTOMER	A.F.15	\$55,896	\$49,116	\$6,360	\$421	\$0	\$0
4		SECONDARY	A.F.6	\$39,166	\$49,116 \$23,434	\$5,708	\$10,025	\$0 \$0	\$0 \$0
5		SECONDARI	A.F.U	\$33,100	\$23,434	33,700	\$10,023		
6		SUBTOTAL		\$95.062	\$72,549	\$12,067	\$10,445	\$0	\$0
7		002101112		450,002	912,045	\$12,00	\$10,170	•••	••
8	369-1	OVERHEAD SERVICES							
9		CUSTOMER	A.F.15	\$50.630	\$44,489	\$5,760	\$381	\$0	\$0
10		SECONDARY	A.F.16	\$51,652	\$34.675	\$6,710	\$10,266	\$0	\$0
11							***********		
12		SUBTOTAL		\$102,282	\$79,164	\$12,471	\$10,647	\$0	\$0
13									
14	369-2	UNDERGROUND SERVICES							
15		CUSTOMER	A.F.15	\$3,543	\$3,113	\$403	\$27	\$0	\$0
16		SECONDARY	A.F.16	\$11,598	\$7,786	\$1,507	\$2,305	\$0	\$0
17 18		SUBTOTAL		\$15,141	\$40.000	#A 040	60.220	\$D	\$0
19		SUBTOTAL		\$13,141	\$10,899	\$1,910	\$2,332	φU	ΦU
20	370	METERS	A.F.7	\$25,629	\$14,692	\$7,908	\$2,082	\$827	\$120
21				420,020	474,002	4 1,000	44,002	452.	• • • • • • • • • • • • • • • • • • • •
22	371	CUSTOMER INSTALLATIONS	DIRECT	\$26	\$0	\$0	\$0	\$13	\$13
23									
24	373	STREET LIGHTING	A.F.29	\$57,561	\$29,745	\$7,130	\$11,978	\$4,760	\$3,948
25									4
26		SUBTOTAL - CUSTOMER DIST PLAN	NT	\$271,030	\$230,250	\$35,818	\$3,929	\$907	\$127
27		- DEMAND DIST PLANT		\$1,006,326	\$536,353	\$128,404	\$223,106	\$66,313	\$52,151
28 29		DISTRIBUTION TOTAL		## D77 366	67cc co2	#4C4 000	#227 D2 4	£67.24D	\$52,278
30		DISTRIBUTION TOTAL		\$1,277,356	\$766,603	\$164,222	\$227,034	\$67,219	332,270
31		GENERAL PLANT	A.F.35	\$103.542	\$51,253	\$12,197	\$21,078	\$10.274	\$8,740
32		CENTEROL (DATE	71,7 .00	3.00.042	9 21,233	¥12,15°	Ψ21,070	\$10,E14	Q0,1 40
33				\$0	\$0	\$0	\$0	\$0	\$0
34				**	•	•			•
35				\$0	\$0	\$0	\$0	\$0	\$0
36				**********	***************************************	***************************************			***********
37		SUBTOTAL PROD.T&D.GEN,COMMO	N PLANT	\$3,518.877	\$1,833,165	\$436,650	\$732,878	\$282,314	\$233,870
38									_
39				\$0	\$0	\$0	\$0	\$0	\$ 0
40				\$0	\$0	\$0	\$0	\$0	\$0
41				\$0	\$ 0	\$0	\$0	\$0	\$0
42 43		TOTAL RESERVE FOR DEPRECIATION	Na.	#2 64B 077	#1 030 405	6400.050	#727 070	#202 244	\$233,870
43		TO THE RESERVE FOR DEPRECIATIO	NV.	\$3,518,877	\$1,833,165	\$436,65D	\$732,876	\$282,314	\$233,070

TITLE: RESERVES	FOR DEPRECIATION - PAGE 3	41100171011	MISSOURI		SMALL	LARGE		LARGE
LINE # ACCOUNT	# ITEM	ALLOCATION BASIS	TOTAL	RESIDENTIAL	GEN SERVICE	GEN SERVICE	PRIMARY	PRIMARY
1								
2	MATERIALS & SUPPLIES - FUEL	A.F.11	\$0	\$0	\$0	\$0	\$0	\$0
3	MATERIALS & SUPPLIES - LOCAL	A.F.18	\$0	\$0	\$0	\$0	\$0	\$0
4	CASH WORKING CAPITAL	A.F.37	\$0	\$0	\$0	\$0	\$0	\$0
5	CUSTOMER ADVANCES & DEPOSITS	A.F.12	\$0	\$0	\$0	\$0	\$0	\$0
6	ACCUM DEFERRED INCOME TAXES	A.F.19	\$0	\$0	\$0	\$0	\$0	\$0
7				******				****
8	RESERVES FOR DEPRECIATION		\$3,518,877	\$1,833,165	\$436,650	\$732,878	\$282,314	\$233,870

TITLE:	NET ORIGI	NAL COST - PAGE 1	ALLOCATION	MISSOURI		SMALL	LARGE		LARGE
LINE#	ACCOUNT	# <u>ITEM</u>	BASIS	TOTAL	RESIDENTIAL	GEN SERVICE	GEN SERVICE	PRIMARY	PRIMARY
1 2		PRODUCTION	A.F.1	\$2,613,752	\$1,241,496	\$319,902	\$594,443	\$248,725	\$209,186
3		TRANSMISSION							
4		LINES	A.F.2	\$150,125	\$71,148	\$17,229	\$32,972	\$15,376	\$13,401
5 6		SUBSTATION	A.F.3	\$100,930	\$47,833	\$11,583	\$22,167	\$10,337	\$9.010
7 8		TOTAL TRANSMISSION		\$251,055	\$118,980	\$28,812	\$55,139	\$25,714	\$22,411
9		DISTRIBUTION PLANT							
11	360	SUBSTATION LAND	A.F.8	\$15.317	\$7,702	\$1.676	\$3,295	\$1,331	\$1,113
12 13	321	OTHER LAND	A.F.5	\$3.084	\$1,565	\$381	\$669	\$266	\$203
14 15	361-362	SUBSTATIONS	A.F.8	\$258,465	\$129,974	\$31,659	\$55,601	\$22,455	\$18,775
16	364	POLES TOWERS FIXTURES							
17		CUSTOMER	A.F.4	\$10,156	\$8,918	\$1,155	\$76	\$6	\$1
18		PRIMARY	A.F.5	\$58,371	\$29,613	\$7,213	\$12,668	\$5,033	\$3,843
19		SECONDARY	A.F.6	\$17,535	\$10,491	\$2,555	\$4,488	\$0	\$9
20 21		LIGHTING-DIRECT	DIRECT	\$0	\$0	\$0	\$0	\$0	\$0
22 23		SUBTOTAL		\$86,062	\$49,023	\$10,923	\$17,233	\$5,039	\$3,843
24	365	OVERHEAD CONDUCTOR							
25		CUSTOMER	A.F.4	\$ 103,407	\$90,806	\$11,757	\$778	\$61	\$5
26		PRIMARY	A,F.5	\$251,012	\$127,346	\$31,019	\$54,477	\$21,645	\$16,524
27 28		SECONDARY	A.F.6	\$14 ,891	\$8,909	\$2,170	\$3,811	\$0	\$0
29 30		SUBTOTAL		\$369.310	\$227,062	\$44.946	\$59,066	\$21,706	\$16,530
31	366	UNDERGROUND CONDUIT							
32		CUSTOMER	A.F.4	\$5,137	\$4,511	\$584	\$39	\$3	\$0
33		PRIMARY	A.F.5	\$60,008	\$30,444	\$7,415	\$13,024	\$5,175	\$3,950
34		SECONDARY	A.F.6	\$26,585	\$15,906	\$3.874	\$6,804	\$0	\$0
35 36 37		SUBTOTAL		\$91,730	\$50,861	\$11,874	\$19,867	\$5,178	\$3,951
38	367	UNDERGROUND CONDUCTORS							
39		CUSTOMER	A.F.4	\$63,359	\$55,638	\$7,204	\$477	\$37	\$3
40		PRIMARY	A.F.5	\$145,740	\$73,939	\$18,010	\$31,630	\$12,567	\$9,594
41		SECONDARY	A.F.6	\$85,595	\$51,213	\$12,474	\$21,908	\$0	\$0
42 43		SUBTOTAL		\$294,694	\$180,789	\$37.688	\$54.015	\$12,605	\$9,597

TITLE: N	IET ORIGI	NAL COST - PAGE 2	ALLOCATION	MISSOURI		SMALL	LARGE		LARGE
LINE # A	CCOUNT	# ITEM	BASIS	TOTAL	RESIDENTIAL	GEN SERVICE	GEN SERVICE	PRIMARY	PRIMARY
1									
2	368	LINE TRANSFORMERS							
3		CUSTOMER	A.F.15	\$122,191	\$107,369	\$13,902	\$920	\$0	\$0
4 5		SECONDARY	A.F.6	\$85,616	\$51,225	\$12,477	\$21,914	\$0	\$0
6 7		SUBTOTAL		\$207,807	\$158.594	\$26,379	\$22,833	\$0	\$0
8	369-1	OVERHEAD SERVICES							
9		CUSTOMER	A.F.15	\$2,809	\$2,468	\$320	\$21	\$0	\$0
10 11		SECONDARY	A.F.16	\$2,867	\$1,925	\$372	\$570	\$0	\$0
12 13		SUBTOTAL		\$5,676	\$4,393	\$692	\$591	\$0	\$0
14	369-2	UNDERGROUND SERVICES							
15		CUSTOMER	A,F.15	\$20.587	\$18,090	\$2,342	\$155	\$0	\$0
16 17		SECONDARY	A.F.16	\$67,394	\$45,243	\$8,756	\$13,395	\$0	\$0
18 19		SUBTOTAL		\$87,981	\$63,333	\$11,098	\$13,550	\$0	\$0
20 21	370	METERS	A.F.7	\$70,320	\$40,311	\$21,698	\$5,714	\$2,269	\$329
22 23	371	CUSTOMER INSTALLATIONS	DIRECT	\$138	\$0	\$0	\$0	\$69	\$69
24 25	373	STREET LIGHTING	A.F.29	\$28,910	\$14.939	\$3,581	\$6,016	\$2,391	\$1,983
26 27		SUBTOTAL - CUSTOMER DIST PL - DEMAND DIST PLANT	ANT	\$397.966 \$1,121.528	\$328,111 \$600,436	\$58,962 \$143,835	\$8,179 \$250,271	\$2,376 \$70,932	\$338 \$56,054
28 29 30		DISTRIBUTION TOTAL		\$1,519,494	\$928,547	\$202,797	\$258.450	\$73,308	\$56,392
31 32		GENERAL PLANT	A.F.35	\$242.238	\$119,908	\$28.534	\$49,312	\$24.036	\$20,448
33 34				\$0	\$0	\$0	\$0	\$0	\$0
35 36				\$0	\$0	\$0	\$0	\$0	\$0
37 38		SUBTOTAL PROD,T&D,GEN,COMM	MON PLANT	\$4,626,539	\$2,408,931	\$580,045	\$957,343	\$371,782	\$308,437
39				\$0	\$0	\$0	\$0	\$0	\$0
40				\$0	\$0	\$0	\$0	\$0	\$0
41 42				\$0	\$0	\$0	\$0	\$0	\$0
42 43		TOTAL NET PLANT		\$4,626,539	\$2,408,931	\$580,045	\$957,343	\$371,782	\$308,437

TITLE: NET ORIG	INAL COST - PAGE 3							
LINE # ACCOUNT	<u>I# ITEM</u>	ALLOCATION BASIS	MISSOURI <u>TOTAL</u>	RESIDENTIAL	SMALL GEN SERVICE	LARGE GEN SERVICE	PRIMARY	LARGE <u>PRIMARY</u>
42								,
43 44								
44	MATERIALS & SUPPLIES - FUEL	A.F.11	\$125,294	\$47.899	\$14,244	\$30.042	\$17,701	\$15,408
46	MATERIALS & SUPPLIES - LOCAL	A.F.18	\$17.020	\$10.316	\$2.233	\$2.954	\$855	\$661
47	CASH WORKING CAPITAL	A.F.37	\$34,382	\$16,106	\$4,096	\$7,231	\$3,743	\$3,205
48	CUSTOMER ADVANCES & DEPOSITS	A.F.12	(\$23,301)	(\$9,918)	(\$7,755)	(\$3,398)	(\$714)	(\$1,515)
49	ACCUM DEFERRED INCOME TAXES	A.F.19	(\$810,067)	(\$421,879)	(\$101,111)	(\$168,094)	(\$65,050)	(\$53,933)
						*********		************
	TOTAL NET ORIGINAL COST RATE BA	SE	\$3,969,867	\$2.051,454	\$491,753	\$826,080	\$328,317	\$272,264

UNION ELECTRIC COMPANY ELECTRIC COST OF SERVICE ALLOCATION STUD YEAR: 12 MONTHS ENDED JUNE 2001 AVERAGE & EXCESS FOUR NONCOINCIDENT PEAK (\$000'a)

LINEA			ALLOCATION	TC LABOR	TAL MISSOU	R TOTAL	RESIDE	ENTIAL OTHER	SMALI LA <u>BOR</u>	.G.S OTHER	LARGE LABOR	G. S OTHER	PRIM LABOR	ARY OTHER	L. PRI LABOR	MAR) OTHER
LINE #	ACCOUNT	# ITEM	BASIS	LABOR	OTHER	TOTAL	ABUK	OTHER	LABOR	DINER	LABOR	OTHER	LABOR	OTHER	FVDOU	OTHER
1		OPERATING EXPENSES														
2		<u> </u>														
3																
4		PRODUCTION														
5		OTHER	A.F.1	\$78,807	\$47,233	\$126,040	\$37,432	\$22,435	\$9,645	\$5,781	\$17,923	510,742	\$7,499	\$4 ,495	\$6,307	53,780
6		VARIABLE	A.F.11	\$65,019	\$356,152	\$421,170	\$24,856	\$136,153	\$7,392	\$40,488	\$15,590	\$85,396	\$9,186	\$50,316	\$7,996	\$43,798
7					**********		**********			**********			**********		******	4 17 570
8		SUBTOTAL		\$143,826	\$403,385	\$547,211	\$62,288	\$158,588	\$17,037	\$46,269	\$33,513	\$96,138	\$16,685	\$54,811	\$14,303	\$47,579
10		SYSTEM REVENUE CREDIT:														
11		INTERRUPTIBLE SALES	A.F.1	\$0	\$0	so	\$0	so	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12		RENTALS	A.F.1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50
13							*******				***********			**********	********	
14		SUBTOTAL		50	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15																
16 17		TRANSMISSION LINES	A.F.2	\$622	\$3,159	\$3,781	\$295	\$1,497	\$71	\$363	\$137	\$694	\$64	\$324	\$56	\$282
18		SUBSTATIONS	A.F.3	\$4,140	\$11.005	\$15,145	\$1,962	\$5,215	\$475	51,263	\$909	\$2,417	\$424	\$1,127	\$370	\$982
19		SOBOTATIONS	N.I . J	54,140	311,003	\$15,145	51,502	45,215				***************************************	***********			
20		TOTAL TRANSMISSION EXPENSE	E	\$4,762	\$14,164	\$18,926	\$2,257	\$6,712	\$547	\$1,625	\$1,046	\$3,111	\$488	\$1,451	\$425	\$1,264
21																
22																
23		DISTRIBUTION OPERATING EXPENSE														
24																
25 26		01/00747/01/5	4.5-		*****		**		****	\$140	****	\$246	\$272	\$99	\$227	583
26 27	582	SUBSTATIONS	A.F.B	\$3,129	\$1,145	\$4,274	\$1,574	\$576	\$383	\$140	\$673	\$240	3212	299	3221	303
28	583-1	OVERHEAD LINES														
29		CUSTOMER	A.F 22	\$ 415	\$135	\$550	\$ 364	\$119	\$47	\$15	\$ 3	\$1	\$0	\$0	\$0	50
30		PRIMARY	A.F 23	\$1,103	\$360	\$1,462	\$559	\$182	\$136	\$44	\$239	\$78	\$95	\$31	\$73	5 24
31		SECONDARY	A.F 24	\$126	\$41	\$167	\$76	\$25	\$18	\$ 6	\$32	\$10	50	\$0	50	\$0
32 33		LIGHTING-DIRECT	A.F.25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
33 34		SUBTOTAL		\$1,643	\$536	\$2,179	\$1,000	\$326	\$202	\$66	\$274	\$89	\$95	\$31	\$73	\$24
35		SUBTOTAL		\$1,043	\$346	32,179	\$1,000	\$326	\$202	300	3214	945	355	451	3.5	424
36	583-2	OVERHEAD TRANSFORMERS														
37		CUSTOMER	A.F.20	\$ 656	\$504	\$1,160	\$577	\$443	\$ 75	\$57	\$ 5	54	\$0	\$0	\$0	\$0
38		SECONDARY	A.F.21	\$460	\$353	\$813	\$275	\$211	\$67	\$ 51	\$118	\$90	\$0	\$0	\$0	\$0
39 40		SUBTOTAL		******	***		foro.		*****	\$109	\$123	\$94	\$ D	\$0	\$0	Sp
40		SUBTOTAL		\$1,116	\$857	\$1,973	\$ 652	\$654	\$142	3 iGĐ	\$ 123	394	30	30	30	20

UNION ELECTRIC COMPANY ELECTRIC COST OF SERVICE ALLOCATION STUD YEAR: 12 MONTHS ENDED JUNE 2001 AVERAGE & EXCESS FOUR NONCOINCIDENT PEAK 15000*)

			ALLOCATION	TC	TAL MISSOU	R	RESIDE	ENTIAL	SMĄŲ	.g.s	LARGE	: G. \$	PRIM	ARY	Ę. PRI	MARY
LINE #	CCOUNT	# ITEM	<u>BASIS</u>	LABOR	OTHER	TOTAL	LABOR	<u>OTHER</u>	<u>LABOR</u>	OTHER	LABOR	<u>OTHER</u>	LABOR	OTHER	LABOR	OTHER
•																
2	584-1	UNDERGROUND LINES														
3		CUSTOMER	A.F.26	111.4	170.4	281.8	97.8	149.7	12.7	19.4	0.8	1.3	0.1	0.1	0.0	0.0
4		PRIMARY	A.F.27	257.2	393.6	650.8	130.5	199.7	31.8	48.6	55.8	85.4	22.2	33.9	16.9	25.9
5		SECONDARY	A.F.28	224.5	343.5	568.Q	140.5	214.9	31.4	48.0	52.6	80.5	0.0	0.0	0.0	0.0
7		SUBTOTAL		\$593	\$907	\$1,501	\$369	\$564	\$76	\$116	\$109	\$167	\$22	\$34	\$17	\$26
8 9	584-2	UNDERGROUND TRANSFORMERS														
10	204-2	CUSTOMER	A.F.20	261.5	(132.1)	129.4	229.7	(116.1)	29.7	(15.0)	2.0	(1.0)	0.0	0.0	0.0	0.0
11		SECONDARY	A.F.21	183.2	(92.6)	90.6	109.6	(55.4)	26.7	(13.5)	46.9	(23.7)	0.0	0.0	0.0	0.0
12							***************************************			***************************************	,		*********		*************	
13 14		SUBTOTAL		\$ 445	(\$225)	\$220	\$339	(\$171)	\$56	(\$29)	\$49	(\$25)	\$0	\$0	\$0	\$0
15	5B5	LIGHTING	A.F.29	\$440	\$113	\$553	\$227	\$58	\$ 55	\$14	\$92	\$23	\$36	\$9	\$30	\$8
16	F00	ALCTEON.		** ***		****					A. 1. 1. 2	4440	5 70	*70	\$11	\$11
17 18	586	METERS	A.F.7	\$2,410	\$2,443	\$4,853	\$1,381	\$1,400	\$744	\$754	\$196	\$198	\$78	579	311	311
19	587	CUSTOMER INSTALLATION	DIRECT	\$1,578	\$113	\$1.691	(\$201)	(\$14)	\$0	\$0	\$0	\$0	\$889	\$64	\$889	\$64
20		oo to the contract of the cont	•=51	***************************************	21.0			(01.17	***********				*********			
21		DIST OPERATING EXPENSE SUBTOTA														
22		CUSTOMER A582-A587		\$3,854	\$3,120	\$6,974	\$2,650	\$1,996	\$908	5831	\$207	\$204	\$7B	\$79	\$11	\$11
23		DEMAND A582-A58?		\$7,501	\$2,769	\$10,270	\$2,891	\$1,397	\$749	\$339	\$1,309	\$591	\$1,315	\$237	\$1,237	\$204
24 25	580	SUPERVISION & ENGS														
26	300	CUSTOMER	A.F.30	672.6	116.2	788.7	462.5	74.3	158.4	30.9	36.1	7.6	13.6	2.9	2.0	0.4
27		DEMAND	A.F.31	1.309.1	103.1	1,412.2	504.6	52.0	130.8	12.5	228.4	22.0	229.5	8.8	215.8	7.6
28								***********	***********					,		***********
29 30		SUBTOTAL		\$1,982	\$219	\$2,201	\$967	\$126	\$289	\$44	\$264	\$30	\$243	\$12	\$218	\$ B
31	581	DISPATCHING														
32	301	CUSTOMER	A.F.30	953.2	71.6	1,024.8	655.5	45.8	224.6	19.1	51,1	4,7	19.3	1.8	2.8	0.3
33		DEMAND	A.F.31	1,855.4	63.5	1,918.9	715.2	32.0	185.3	7.8	323.7	13.5	325.3	5.4	305.9	4,7
34							***************************************						*********		**********	
35 36		SUBTOTAL		\$2,809	\$135	\$2,944	\$1,371	\$78	\$410	\$27	\$375	\$18	\$ 345	\$7	\$309	\$5
37	588	MISCELLANEOUS														
38	V D C	CUSTOMER	A.F.30	2.049.3	4,695.7	6.745.0	1,409.1	3,003.1	482.8	1,250.3	109.9	306.4	41.5	118.8	6.0	17.2
39		DEMAND	A.F.31	3,988.7	4,167.0	8,155.7	1,537.5	2,103.1	398 4	510.5	696.0	689.1	699,3	357.2	657.6	307.1
40 41		SUBTOTAL		\$6,038	\$8,863	\$14,901	\$2,947	\$5.106	\$881	\$1,761	\$806	\$1,195	\$741	\$476	\$664	\$324

UNION ELECTRIC COMPANY ELECTRIC COST OF SERVICE ALLOCATION STUD YEAR: 12 MONTHS ENDED JUNE 2001 AVERAGE & EXCESS FOUR NONCOINCIDENT PEAK (\$000's)

			ALLOCATION	тс	TAL MISSOU	Ŕ	RESIDE	ENTIAL	SMALL	. G. S	LARGE	E G. S	PRIM	IARY	L. PRI	MARY.
LINE #	ACCOUNT	# ITEM	BASIŞ	LABOR	OTHER	TOTAL	LABOR	OTHER	LABOR	OTHER	ABOR	OTHER	LABOR	OTHER	LABOR	OTHER
1 2	589	RENTS														
3	203	CUSTOMER	A.F.30	0.0	87.6	87.6	0.0	56.0	0.0	23.3	0.0	5.7	0.0	2.2	0.0	0.3
4		DEMAND	A.F.31	0.0	77.8	77.8	0.0	39.2	0.0	9.5	0.0	16.6	0.0	8.7	0.0	5.7
5		SUBTOTAL		\$0	\$165	\$165	\$0	\$95	\$0	\$33	\$0	\$22	\$0	\$9	\$0	\$6
7		SUBTOTAL		30	\$ 165	3 (2)	30	393	30	323	30	322	3 0	39	•0	30
8		DIST OPERATING EXPENSE SUBTOTA														
9		CUSTOMER A580-589		\$7,529	\$8,091	\$15,520	\$5,177	\$5,175	\$1,774	\$2,154	\$404	\$528	\$152	\$205	\$22 \$ 2,416	\$30 \$529
10 11		DEMAND A580-589		\$14,654	\$7,180	\$21,834	\$5,648	\$3,624	\$1,464	\$880	\$2,557	\$1,532	\$2,569	\$816	32,410	3329
12		TOTAL DIST OPERATING EXPENSE:		\$22,183	\$15,272	\$37,454	\$10,825	\$8,798	\$3,237	\$3,034	\$2,961	\$2,060	\$2,722	\$820	\$2,438	\$559
13																
14 15		DISTRIBUTION MAINTENANCE EXPENSE														
15		E-VITAGO HOLI MINISTERNO E CAN CHOL														
17																
18 19	591-592	SUBSTATIONS	8.F.A	\$6,555	\$5,692	\$12,247	\$3,296	\$2,862	\$803	\$697	\$1,410	\$1,224	\$570	\$494	\$476	\$413
20	593	OVERHEAD LINES														
21		CUSTOMER	A.F.22	3,568.1	7,336.0	10,904.1	3,133.3	6,442.2	405.7	834.1	26.8	55.2	2.0	4.2	0.2	0.4
22		PRIMARY	A.F.23	9,485.9	19,503.4	28,989.3	4,812.5	9,894.7	1,172.2	2,410.1	2,058.7	4,232.8	818.0	1,681.B	624.5	1,283.9
23		SECONDARY	A.F.24	1,082.1	2,224.9	3,307.0	653.9	1,344.4	156.3	321.4	271.9	559.1	0.0	0.0	0.0	0.0
24 25		LIGHTING-DIRECT	A.F.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 26		SUBTOTAL		\$14,136	\$29,064	\$43,200	\$8.600	\$17,681	\$1,734	\$3,566	\$2,358	\$4.847	\$820	\$1,686	\$625	\$1,284
27		000101716		0.14,150	\$25,004	V-0,1-00	30,000	311,001	31,734	55,500	42,555	54,541	4020	\$1,500	****	.,
28	594	UNDERGROUND LINES														
29		CUSTOMER	A.F.26	780.9	242.1	1,023.0	685.8	2126	88.8	27.5	5.9	1.8	0.4	0 1	0.0	0.0
30 31		PRIMARY	A.F.27	1.803.5	559.2	2,362,7	915.0	283 7	222.9	69.1	391 4	121.4 114.4	185.5 0.0	48.2 0.0	118.7 0.0	36.8 0.0
32		SECONDARY	A.F.28	1,574.1	488.0	2,062,1	984.9	305.4	220.1	68.2	369,1	114.4	0.0	Ų.U	U.U	0.0
33		SUBTOTAL		\$4,158	\$1,289	\$5,448	\$2,586	\$802	\$532	\$165	\$766	\$238	\$156	\$48	\$119	\$37
34	ror	10055														
35 36	595	UNDERGROUND TRANSFORMERS			4500					47.0				0.0	0.0	
30		CUSTOMER SECONDARY	A.F.20 A.F.21	355.6 249.1	156.2 109.5	511.8 358.6	312.4 149.1	137.3 65.5	40.5 36.3	17.8 16.0	2.7 63.8	1.2 28.0	0.0 0.0	0.0 0.0	0.0	0.0 0.0
38		SECONDARI	A.F.21	249.1	109.5	336,6	149.1	93.3	30.3	10.0	D.3. a	25.0	0.0	0.0	0.0	0.0
39		SUBTOTAL		\$605	\$266	\$870	\$462	\$203	\$77	534	\$66	\$29	\$0	\$0	\$0	\$0
40				****			4 /		•	•	••-					•
41	596	LIGHTING	A.F.29	\$1,400	\$251	\$1,651	\$723	\$130	\$173	\$31	\$291	\$52	\$116	S21	\$96	\$17
42 43	597	METERS		6405	5000	F770	****	4105	****	éen.	220	\$23	* 10	\$9	\$ 2	\$1
44	201	METERO	A.F.7	\$485	\$288	5773	\$278	\$ 165	\$150	\$89	\$39	\$23	516	38	32	31
45		DIST MAINTENANCE EXPENSE SUBTOTA														
46		CUSTOMER A593-A597		\$5,189	\$8,022	\$13,212	\$4,410	\$6,957	\$685	\$968	\$75	\$82	\$16	\$14	\$2	\$2
47		DEMAND A593-A597		\$22,150	\$28,828	\$50,977	\$11,535	\$14,685	\$2,784	\$3,613	\$4,856	\$6,332	\$1,659	\$2,245	\$1,315	\$1,751

UNION ELECTRIC COMPANY ELECTRIC COST OF SERVICE ALLOCATION STUD YEAR. 12 MONTHS ENDED JUNE 2001 AVERAGE & EXCESS FOUR NONCOINCIDENT PEAK (\$000a)

			ALLOCATION		TAL MISSOU		RESIDE		SMALL		LARGE		PRIM		L. PRI	10.00
LINE #	ACCOUNT	# ITEM	BASIS	LABOR	OTHER	TOTAL	LABOR	OTHER	LABOR	OTHER	LABOR	OTHER	LABOR	<u>OTHER</u>	<u>LABOR</u>	<u>QTHER</u>
1																
2	590	SUPERVISION & ENGR				F00 D		400 B					1.5	0.2	0.0	0.0
3		CUSTOMER	A.F.32	425.7	142.9	569.6	362.6	123.9	56.3	17.2 64.4	6.1	1,5 112,8	136.4	40.0	108.2	31.2
4		DEMAND	A.F.33	1,821.3	513.4	2,334.7	948.5	265.1	228.9	•	399 3				100.2	31.2
5				******	8050	*********	44.044		***************************************	éan	2405	6114	\$138	\$40	\$108	\$31
6		SUBTOTAL		\$2,248	\$656	\$2,904	\$1,311	5389	\$265	\$82	\$405	\$114	3130	340	3100	931
1																
8	598	MISCELLANEOUS												0.5	0.0	0.1
9		CUSTOMER	A.F.32	2.0	313.2	315.1	1.7	271.6	0.3	37.8	0.0	3.2	0.0		0.5	58.4
10		DEMAND	A.F.33	8.4	1,125.4	1,133.8	44	581.1	1,1	141.0	1.6	247.2	0.6	97.5		
11						***************************************	**********	***********	**********		***************************************				***************************************	****
12		SUBTOTAL		\$10	\$1,439	\$1,449	\$6	\$853	51	\$179	\$2	\$250	\$1	\$88	\$1	\$66
13		DIST MAINTENANCE EXPENSE SUBTOTA														
14		CUSTOMER A590-A598		\$5,618	\$8,478	\$14,097	\$4,774	\$7,353	\$741	\$1,023	\$81	\$86	\$20	\$14	\$2	\$2
15		DEMAND A590-A598		\$23,980	\$30,466	\$54,446	\$12,488	\$15,732	\$3,014	\$3,818	\$5,25B	\$6,692	\$1,796	\$2,373	\$1,424	\$1,851
16				**********				**********	********		*******					
17		TOTAL MAINTENANCE OPERATING EXPENS	5	\$29,598	\$38,945	\$68,542	\$17,262	\$23,084	\$3,755	\$4,842	\$5,339	\$6,779	\$1,815	\$2,387	\$1,427	\$1,853
18				,							******					
19		TOTAL DISTRIBUTION EXPENSE:		\$51,780	\$54,216	\$105,997	\$28,087	\$31,883	\$6,992	\$ 7,876	\$8,299	\$8,839	\$4,537	\$3,208	\$3,864	\$2,412

UNION ELECTRIC COMPANY ELECTRIC COST OF SERVICE ALLOCATION STUDY YEAR: 12 MONTHS ENDED JUNE 2001 AVERAGE & EXCESS FOUR NONCOINCIDENT PEAK (\$000's)

TITLE: C	PERATING E	XPENSES - PAGE 5						(4000 3)								
			ALLOCATION	<u>T</u> (OTAL MISSOUR	J	RESIDE	NTIAL	SMALL	.G.S.	LARGE		PRIM		L. PRI	
LINE #	ACCT #	TEM	BASIS	LABOR	OTHER	TOTAL	LABOR	OTHER	<u>LABOR</u>	OTHER	LABOR	OTHER	LABOR	OTHER	LABOR	OTHER
,		CUSTOMER ACCOUNT EXPENSES														
3		GOSTOMEN HOUSENTY EXICITED														
4																
5	902	METER READING	A,F.7A	\$1,568	\$17,004	\$18,572	\$1,252	\$13,578	\$277	\$3,000	\$33	\$360	\$6	\$61	\$0	\$5
6	905	MISCELLANEOUS	A.F.7A	\$110	\$781	\$891	\$88	\$623	\$19	\$138	\$2	\$17	\$0	\$3 \$67	\$0 \$11	\$0
	903 904	CUSTOMER RECORDS	A.F.40	\$12,032	\$7,578 \$3,752	\$19,610	\$9,640	\$5,704 \$3,420	\$693	\$944 \$213	\$1,566 \$0	\$858 \$109	\$123 \$0	\$9	\$0	\$6 \$1
٥	904	UNCOLLECTIBLE ACCOUNTS CREDIT AND COLLECTION	A.F.13 A.F.13	\$0 \$3,158	\$3,752 \$1,989	\$3,752 \$5,147	\$0 \$2.878	\$1,813	\$0 \$180	\$213 \$113	\$92	\$58	\$7	\$5	S1	\$ 0
10	803	INTEREST ON SURETY DEPOSITS	A.F.12	\$0,130 \$0	\$1,150	\$1,150	\$2,570	\$490	\$180	\$383	\$0	\$168	\$0	\$35	\$0	\$75
11		MICHEO ON GONE TO DEF CONTO	D.F . 12	***************************************	41,100	41,100		4400							***************************************	
12		SUBTOTAL		\$16,867	\$32,254	\$49,121	\$13,650	\$25,628	\$1,168	\$4,791	\$1,693	\$1.568	\$136	\$180	\$12	\$88
13				·		·			•							
14	901	SUPERVISION	A.F.34	\$387	\$61	\$448	\$318	\$48	\$27	\$9	\$39	\$3	\$3	\$0	\$0	\$0
15							**********					A4 574	****	\$4.00	***	
16 17		TOTAL CUSTOMER ACCOUNT EXPENSES	3	\$17,255	\$32,315	\$49,570	\$14,176	\$25,676	\$1,195	\$4,800	\$1,732	\$1,571	\$139	\$180	\$12	\$88
18																
19																
20		CUSTOMER SERVICE & SALES EXPENSE	S													
21			-													
22																
23	908-1 & 908		DIRECT	\$0	\$0	50	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0
24	906-916	CUSTOMER SERVICES	A.F.34	\$2,746	\$3,501	\$6,247	\$2,256	\$2,782	\$190	\$520	\$276	\$ 170	\$22	\$19	\$2	\$9
25 26		SUBTOTAL		\$2,746	\$3,501	\$6,247	\$2,256	\$2,782	\$190	\$520	\$276	\$170	\$22	\$19	\$2	\$9
26 27		SUBTOTAL		\$2,740	\$3,501	30,247	\$2,230	\$2,102	\$190	\$520	\$275	3170	\$22	318	42	48
28	907	SUPERVISION	A.F.38	\$55	\$15	\$70	\$45	\$12	\$4	\$2	\$6	5 1	\$0	\$0	\$0	\$0
29					**********				***************************************							
30		TOTAL CUSTOMER SERVICE EXPENSES		\$2,801	\$3,516	\$6,317	\$2,301	\$2,793	\$194	\$522	\$281	\$171	\$23	\$20	\$2	\$10
31				*****************											440.007	
32		TOTAL PROD, T&D,CUST EXPENSES		\$220,424	\$507,596	\$728,020	\$109,110	\$225,653	\$25,965	\$61,093	\$44,871	\$109,829	\$21,871	\$59,669	\$18,607	\$51,352
33 34		A B C EVECUETS														
35		A & G EXPENSES														
38																
37		EPRI	A.F.14	\$0	\$2,085	\$2.085	\$0	\$840	\$0	\$256	\$0	\$489	\$0	\$272	\$0	\$228
38		OTHER	A.F.35	\$30,936	\$210,700	\$241,638	\$15,313	\$104,296	\$3,644	\$24,819	\$6,298	\$42,892	\$3,070	\$20,906	\$2,611	\$17,788
39				.,			*****			*********				•		
39		SUBTOTAL		\$30,936	\$212,784	\$243,720	\$15,313	\$105,138	\$3,644	\$25,075	\$6,298	\$43,381	\$3,070	\$21,178	\$2,611	\$18,013
40		TOTAL BOOD VID 01/07 110 F1:07:07:0		****	*****	4074 74-		*****	****	404 455	BE4 450	P150 040	***	*90 P/7	£24 24 P	660 3PF
41		TOTAL PROD, T&D, CUST, A&G EXPENSES		\$251,360	\$720,380	\$971,740	\$124,423	\$330,789	\$29,609	\$88,168	\$51,169	\$153,210	\$24,941	\$80,847	\$21,218	\$69,365
42																

UNION ELECTRIC COMPANY
ELECTRIC COST OF SERVICE ALLOCATION STUDY
YEAR: 12 MONTHS ENDED JUNE 2001
AVERAGE & EXCESS FOUR NONCOINDIDENT PEAK
AVERAGE & FACESS FOUR NONCOINDIDENT PEAK

	RY	OTHER		\$12,602	\$827	\$3,518	\$1,833	\$18,780	S	\$18,780		\$5.201	\$11,181	\$24,759	\$1,430	\$	\$42,541	\$130,687	88	\$130,687
	L. PRIMARY	LABOR A		8 8	2	0		2	8	S		25	S	ន	5	S	0\$	\$21,218	S S	\$21,218
	ARY.	OTHER		\$14,984	\$948	\$4,549	\$2,155	\$22,637	8	\$22,637		\$6,273	\$13,459	\$29,656	\$1,681	\$	\$51,258	\$154,741	88	\$154,741
	PRIMARY	LABOR		S 5	3 8	05	8	8	3	<u>\$</u>		2\$	0\$	8	5	3	9	\$24,841	នន	\$24,941
	s o	OTHER		\$35,811	\$2.034	\$15,718	17 ,421	\$57,982	24	\$57,982		\$18,210	\$33,884	\$75,120	\$3,449	-\$27	\$128,616	\$338,808	22	\$339,808
	LARGE G. S.	LABOR		88	3 2	S	0\$	\$0	\$	D\$		2	05	\$	S.	8	S	\$51,169	នន	\$51,189
	Ŋ	OTHER		\$19,272	51.083	\$11,881	\$2,558	\$34,774	S	\$34,774		\$8,750	\$20,159	\$44,718	\$1,996	-\$14	\$76,609	\$197,551	<u> </u>	\$197,551
	SMALL G. S.	LABOR		8,5	3	8	S.	S	\$	S.		8	S,	8	S	8	\$	\$29,609	88	\$29,809
(\$,000 \$)	ITIAL	OTHER		\$74.792	38 %	\$54,875	\$10,749	\$144,806	8	\$144,806		\$40,683	\$84,096	\$188,551	\$8,387	958-	\$319,661	\$795,257	88	\$785,257
	RESIDENTIAL	LABOR		2.5	2 2	2	3	\$	3	2		8	\$0	S	\$	S	9	\$124,423	9 9	\$124,423
		TOTAL		\$157,462	\$9.262	\$90,540	\$21,715	\$278,979	S .	\$278,979		\$78,116	\$162,739	\$361,003	\$16,944	-\$ 117	\$618,685	\$1,869,404	20 00	\$1,869,404
	TOTAL MISSOURI	OTHER		\$157,462	\$9.282	\$90,540	\$21,715	\$278,979	3	\$278,979		\$78,116	\$162,739	\$381,003	\$16,944	711 3 -	\$618,685	\$1,618,045	22	\$1,618,045
	101	LABOR		2.5	2 2	8	8	8	S	S		25	24	8	₽	8	8	\$251,380	2 2	\$251,360
	ALLOCATION	BASIS		A.F.1	A.E.17	A.F.18	A.F.35					A.F.19	A.F.29	A.F.29	A.F.35	A.F. 1				
PAGE 8		TEM	DEPRÉC & AMORTIZATION EXPENSES	DEPR-PRODUCTION PLANT	DEPR-TRANSMISSION PLANT	DEPR-DISTRIBUTION PLANT	DEPR-GENERAL PLANT	SUBTOTAL		TOTAL DEPREC & AMORTIZ EXPENSES	OTHER	REAL ESTATE & PROPERTY TAXES	INCOME TAXES	RETURN	PAYROLL TAXES	ENVIRONMENTAL TAX	SUBTOTAL	TOTAL OPERATING & OTHER EXPENSES		TOTAL COST OF SERVICE
TITI F. OPFRATING		LINE # ACCT #	- N 0	oʻ~eru	n so		∞ 0	, 5 t	- 2: 5	5 5 5	5 1	2 2	77	22	23	7, 1	189	1 #2 f	33 23	33.52

UNION ELECTRIC COMPANY EQUALIZED CLASS RATES OF RETURN ANALYSIS TEST YEAR: 12 MONTHS ENDED JUNE 2001

TITLE: SUMMARY EQUAL ROR (\$000's)	<u>N</u>	<u>IISSOURI</u>	<u>RE</u>	SIDENTIAL		SMALL EN SERV		LARGE EN SERV	-	SMALL RIMARY		ARGE IMARY
1 BASE REVENUE	\$	1,773,763	\$	867,085	\$	216,535	\$	373,097	\$	171,822	\$	145,223
2 OTHER REVENUE	\$	73,128	\$	40,919	\$	7,826	\$	13,203	\$	6,028	\$	5,153
3 LIGHTING REVENUE	\$	25,633	\$	13,246	\$	3,175	\$	5,334	\$	2,120	\$	1,758
4 SYSTEM REVENUE	\$	(3,744)	\$	(1,892)	\$	(453)	\$	(787)	\$	(339)	\$	(272)
5 BASE RATE REVENUE VARIANCE	\$	626	\$	323	\$	78	\$	130	\$	52	\$	43
6 TOTAL OPERATING REVENUE	\$	1,869,405	\$	919,680	\$	227,160	S	390,977	\$	179,682	\$	151,905
7	-	.,,	_		-	,	-					·
8 TOTAL PROD., T&D, CUSTOMER, AND A&G EXP.	\$	971,740	\$	455,212	\$	115,777	\$	204,379	\$	105,788	\$	90,583
9 TOTAL DEPR. AND AMOR. EXPENSES	\$	278,979	\$	144,806	\$	34,774	\$	57,982	\$	22,637	\$	18,780
10 REAL ESTATE AND PROPERTY TAXES	\$	78,116	\$	40,683	\$	9,750	\$	16,210	\$	6,273	\$	5,201
11 INCOME TAXES	\$	162,739	\$	84,096	\$	20,159	\$	33,864	\$	13,459	\$	11,161
12 PAYROLL TAXES	\$	16,944	\$	8,387	\$	1,996	\$	3,449	\$	1,681	\$	1,430
13 FEDERAL EXCISE TAX	\$	(117)	\$	(56)	\$	(14)	\$	(27)	\$	(11)	\$	(9)
14 REVENUE TAXES	\$		\$		\$	-	\$		\$_		\$	
15 TOTAL OPERATING EXPENSES	\$	1,508,401	\$	733,129	\$	182,442	\$	315,857	\$	149,826	S	127,146
16				-		•						
17 NET OPERATING INCOME	\$	361,003	\$	186,551	\$	44,718	\$	75,120	\$	29,856	\$	24,759
18												
19 GROSS PLANT IN SERVICE	\$	8,145,416	\$	4,242,096	\$	1,016,695	\$	1,690,221	\$	654,097	\$	542,307
20 RESERVES FOR DEPRECIATION	\$	3,518,877	\$	1,833,165	\$	436,650	\$	732,878	\$	282,314	\$	233,870
21 NET PLANT IN SERVICE	\$	4,626,539	\$	2,408,931	\$	580,045	\$	957,343	\$	371,782	\$	308,437
22						•		,				
23 MATERIALS & SUPPLIES - FUEL	\$	125,294	\$	47,899	\$	14,244	\$	30,042	\$	17,701	\$	15,408
24 MATERIALS & SUPPLIES -LOCAL	\$	17,020	\$	10,316	\$	2,233	\$	2,954	\$	855	\$	661
25 CASH WORKING CAPITAL	\$	34,382	\$	16,106	\$	4,096	\$	7,231	\$	3,743	\$	3,205
26 CUSTOMER ADVANCES & DEPOSITS	\$	(23,301)	\$	(9,918)	\$	(7,755)	\$	(3,398)	\$	(714)	\$	(1,515)
27 ACCUMULATED DEFERRED INCOME TAXES	\$	(810,067)	\$	(421,879)	\$	(101,111)	\$	(168,094)	\$	(65,050)	\$	(53,933)
28 TOTAL NET ORIGINAL COST RATE BASE 29	\$	3,969,867	\$	2,051,454	\$	491,753	\$	826,080	\$	328,317	S	272,264
30 RATE OF RETURN		9.094%		9.094%		9.094%		9.094%		9.094%		9.094%

UNION ELECTRIC COMPANY UNBUNDLED ELECTRIC COST OF SERVICE ANALYSIS TEST YEAR: 12 MONTHS ENDED JUNE 2001

			Unbu	ndi	ed Base R	eve	nue (\$000	's)			
	Total				Small		Large		Small		Large
	<u>Missouri</u>	R	<u>esidential</u>	<u>C</u>	Gen Serv	<u>C</u>	en Serv]	Primary]	Primary
Customer	\$ 164,587	\$	130,171	\$	23,871	\$	8,826	\$	1,460	\$	258
Production Demand	\$ 701,333	\$	333,223	\$	85,492	\$	159,629	\$	66,846	\$	56,142
Production Energy	\$ 521,885	\$	199,480	\$	59,320	\$	125,147	\$	73,745	\$	64,192
Transmission Demand	\$ 36,080	\$	17,200	\$	4,129	\$	7,921	\$	3,665	\$	3,166
Distribution Demand	\$ 349,877	\$	187,010	\$	43,722	\$	71,574	\$	26,105	\$	21,465
Total Base Revenue	\$ 1,773,762	\$	867,085	\$	216,535	\$	373,097	\$	171,822	\$	145,223
			Unbundled	l R	ate Reven	ue '	Variance ((\$0 (<u>)0's)</u>		
Customer	\$ 58	\$	48	\$	8	\$	2	\$	0	\$	0
Production Demand	\$ 351	\$	167	\$	43	\$	80	\$	34	\$	28
Production Energy	\$ 32	\$	12	\$	4	\$	8	\$	5	\$	4
Transmission Demand	\$ 33	\$	16	\$	4	\$	7	\$	3	\$	3
Distribution Demand	\$ 151	\$	81	\$	19	\$	34	\$	10	\$	8
Total Rate Revenue Variance	\$ 626	\$	323	\$	78	\$	130	\$	52	\$	43
			Total Ur	hu	ndled Rai	e R	evenue (\$6	በበበ	¹s)		
Customer	\$ 164,645	\$	130,219	\$	23,880	\$	8,827	\$	1,461	\$	258
Production Demand	\$ 701,684	\$	333,390	\$	85,535	\$	159,709	\$	66,879	\$	56,170
Production Energy	\$ 521,917	\$	199,492	\$	59,324	\$	125,155	\$	73,749	\$	64,196
Transmission Demand	\$ 36,114	\$	17,215	\$	4,133	\$	7,928	\$	3,669	\$	3,169
Distribution Demand	\$ 350,028	\$	187,091	\$	43,741	\$	71,608	\$	26,115	\$	21,473
Total Rate Revenue	\$ 1,774,388	\$	867,408	\$	216,613	\$	373,228	\$	171,873	\$	145,266