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Exhibit No.: 090 Witness: James R. Pozzo Sponsoring Party: Union Electric Company Type of Exhibit: Direct Testimony Case No.: ER-2007.0002 Date Testimony Prepared: July 5, 2006



Issues: Normalized Billing Units

## **MISSOURI PUBLIC SERVICE COMMISSION**

CASE NO. ER-2007-0002

## DIRECT TESTIMONY

OF

**JAMES R. POZZO** 

ON

## **BEHALF OF**

UNION ELECTRIC COMPANY d/b/a AmerenUE

> St. Louis, Missouri July, 2006

AmerenUE Exhibit No. 90 Case No(s). 60-2007-000 Date 3/29/07 Rptr 40

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1		DIRECT TESTIMONY
2		OF
3		JAMES R. POZZO
4		CASE NO. ER-2007-0002
5		I. <u>INTRODUCTION</u>
6	Q.	Please state your name and business address.
7	Α.	James R. Pozzo, Ameren Services Company ("Ameren Services"), One
8	Ameren Plaz	a, 1901 Chouteau Avenue, St. Louis, Missouri 63103.
9	Q.	What is your position with Ameren Services?
10	Α.	I am a Rate Engineer in Ameren Services' Regulatory Policy Department.
11	Q.	What is Ameren Services?
12	А.	Ameren Services provides various corporate, administrative and technical
13	support serv	ices for Ameren Corporation ("Ameren") and its affiliates, including Union
14	Electric Con	npany d/b/a AmerenUE ("Company" or "AmerenUE"). Part of that work is
15	assistance in	the area of rate engineering, including work in the area of weather
16	normalizatio	n which is the subject of my direct testimony on this case.
17	Q.	Please describe your educational background, work experience and
18	duties of yo	ur position.
19	Α.	I received the degree of Bachelor of Science in Mechanical Engineering from
20	the Universi	ty of Missouri-Rolla, Missouri in December 1978.
21		I began working at Union Electric Company in January 1979 in the Power
22	Operations I	Department, working as an Engineer at the Ashley Plant for two (2) years and at
23	the Merame	c Plant for five (5) years. During this time I was responsible for operations and

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maintenance support for assigned plant equipment along with various other projects as
assigned.

3 I transferred into Union Electric's Rate Engineering Department in September 4 1985 and I assumed my current position with Ameren Services upon completion of the 5 merger of CIPSCO Inc. and Union Electric Company effective December 31, 1997. 6 My current duties and responsibilities include assignments related to the gas 7 and electric rates of Union Electric Company, now doing business as AmerenUE; Central 8 Illinois Public Service Company, now doing business as AmerenCIPS; Central Illinois Light 9 Company, now doing business as AmerenCILCO; and Illinois Power Company, now doing 10 business as AmerenIP. For each of these companies I participate in regulatory proceedings, 11 conduct rate analyses, develop and interpret the gas and electric tariffs, and perform other 12 rate or regulatory projects as assigned. 13 H. DEVELOPMENT OF WEATHER NORMALIZED BILLING UNITS 14 Q. What is the purpose of your direct testimony in this proceeding? 15 A. The purpose of my direct testimony is to develop weather normalized test year 16 billing units for the Company's electric operations. An Executive Summary of my testimony 17 is included in Attachment A of Company witness Wilbon L. Cooper's direct testimony. 18 Q. Please explain what is meant by the term "billing unit." 19 Α. A billing unit is a quantity of electric customers, and usage (kilowatt-hours), 20 demand (kilowatts) or reactive demand (kilovar) data to which filed rates are applied in 21 determining customers' bills.

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### Q. Please describe the billing units used by AmerenUE.

2 Α. AmerenUE uses a) customer count; b) kilowatt hours, which are energy units; 3 c) kilowatts, which are demand units; and d) kilowars, which are units of reactive demand. 4 Depending on a customer's rate class, two or more of these components are used to bill 5 virtually all customers. The weather normalized billing units I developed in this case are a 6 compilation of the individual customer billing units which occurred during the study period, 7 adjusted to reflect normal weather. The study period is the test year consisting of the twelve 8 months ending June 30, 2006, including nine months of actual data and three months of 9 budgeted data. Q. What was the initial step you took in the development of the Company's 10

#### 11 billing units for each customer class?

12 A. Existing Company reports contain aggregate kilowatt-hour sales and revenues 13 on a monthly basis for the Residential, Small General Service, Large General Service, Small 14 Primary Service, and Large Primary Service rate classes. A more detailed monthly report 15 provides the billing units that can be priced at the Company's filed rates to calculate customer 16 revenues. This report provides billing data both by revenue month, which is the month for 17 which the data was reported, and the primary month, which is the month the data should have 18 been reflected in customer bills. I used this report to assemble the billing data in the proper 19 primary month. I then applied the Company's existing filed rate values for each specific rate 20 class to the billing units for the class. This results in the "calculated revenue" for each class.

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1	Q.	Do the revenues calculated from this process exactly match the revenues
2	indicated on	the Company's books ("reported revenue") for the same time period?
3	Α.	While the comparison of calculated revenue and reported revenue match
4	closely, there	will always be some difference between the two. This results from billing
5	adjustments	which are made to a number of accounts each month due to corrected billings,
6	and initial an	d final bills, which apply to periods that are either longer or shorter than the
7	Company's s	tandard billing periods, causing such bills to be adjusted or prorated.
8	Q.	Did you analyze all of the rate classes using the billing unit reports?
9	А.	No, I analyzed the Large Primary Service class using individual customer data
10	because the c	class contains less than sixty customers and has a relatively simple rate structure.
11	Q.	After you verified the billing units associated with the Company's
12	reported rev	venues, how were these billing units and revenues adjusted to reflect normal
13	weather?	
14	А.	I used weather adjustment ratios provided by Company witness Richard A.
15	Voytas for th	e billing month to adjust the monthly reported sales to normal sales. The
16	weather adju	sted kilowatt-hours were priced at the last kilowatt-hour rate block by month for
17	each rate cla	ss and added or subtracted from actual billing units to develop normalized billing
18	units and rev	enues. The resulting normalized monthly billing units were then divided into
19	the summer	and winter billing periods for presentation on Schedules JRP-E1 through
20	JRP-E6, atta	ched hereto. Schedule JRP-E7 is a summary of the weather normalized billing
21	unit kilowatt	-hours and revenues. These weather normalized revenues and billing units are
22	used by Con	pany witness William M. Warwick in the development of his class cost of
23	service study	v and by Mr. Cooper, in his development of the Company's proposed rates in this

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1 case. The normalized revenues are also used by Company witness Gary S. Weiss as an

2 adjustment to revenues in Mr. Weiss's cost of service study.

- Q. What was the result of your analysis?
- 4 A. My analysis provides the normal billing units to be used to develop proposed

5 rates. The study also shows that sales should be reduced by 437,670 megawatt-hours and

6 revenues should be reduced by approximately \$37 million.

- 7 Q. Does this conclude your direct testimony?
- 8 A. Yes, it does.

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

In the Matter of Union Electric Company d/b/a AmerenUE for Authority to File Tariffs Increasing Rates for Electric Service Provided to Customers in the Company's Missouri Service Area.

Case No. ER-2007-0002

#### **AFFIDAVIT OF JAMES R. POZZO**

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## STATE OF MISSOURI ) ) ss CITY OF ST. LOUIS )

James R. Pozzo, being first duly sworn on his oath, states:

1. My name is James R. Pozzo. I work in the City of St. Louis, Missouri, and I

am employed by Ameren Services Company as a Rate Engineer in Regulatory Policy.

2. Attached hereto and made a part hereof for all purposes is my Direct

Testimony on behalf of Union Electric Company d/b/a AmerenUE consisting of 5 pages and Schedules JRP-E1 through JRP-E7, all of which have been prepared in written form for introduction into evidence in the above-referenced docket.

nouderfoir into evidence in the above-referencen docket.

3. I hereby swear and affirm that my answers contained in the attached testimony

to the questions therein propounded are true and correct.

James R. Pozzo

Subscribed and sworn to before me this 5<sup>th</sup> day of July, 2006.

Notary Public

My commission expires:

CAROLYN J. WOODSTOCK Notary Public - Notary Seal STATE OF MISSOURI Franklin County My Commission Expires: May 19, 2008

## Residential Service Rate AmerenUE - Missouri Weather Normalized-12 months ending June 2006 April-June Forecast

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Billing Components	-	Present
Summer (June - Septembe	er)	
Customer Charge	Per Month	\$7.25
Customer Charge TOD	Per Month	\$15.00
Energy Charge:		
All Kwh	Cents per Kwh	7.640 ¢
TOD On Peak	Cents per Kwh	11.11 ¢
TOD Off Peak	Cents per Kwh	4.56 ¢
Winter (October - May)		
Customer Charge	Per Month	\$7.25
Customer Charge TOD	Per Month	\$15.00
Energy Charge:		
0- 750 Kwh	Cents per Kwh	5.420 ¢
All Kwh Over 750	Cents per Kwh	3.660 ¢
TOD On Peak	Cents per Kwh	6.55 ¢
TOD Off Peak	Cents per Kwh	3.24 ¢

	Units	Rate	\$1,000	
Summer				
Customer Charge	4,047,891	\$7.25	\$29,347	
Customer Charge TOD	108	\$15.00	\$2	
Mwh	4,842,999	\$0.07640	\$370,005	
TOD On Peak Kwh	141	\$0.11110	\$16	
TOD Off Peak Kwh	307	\$0.04560	\$14	
-	4,843,447		\$399,384	
Winter				
Customer Charge	8,122,335	\$7.25	\$58,887	
Customer Charge TOD	217	\$15.00	\$3	
0-750 Mwh	4,979,288	\$0.05420	\$269,877	
Over 750 Mwh	3,334,003	\$0.03660	\$122,025	
TOD On Peak Kwh	287	\$0.06550	\$19	
TOD Off Peak Kwh	578	\$0.03240	\$19	
Total MWH	8,314,156		\$450,830	
Total Res	13,157,603		\$850,213	

## Small General Service Rate Comparison AmerenUE - Missouri Weather Normalized-12 months ending June 2006 April-June Forecast

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Billing Components		Present			
Summer (June - Septem	ber)				
Customer Charge:					
Single Phase Service	Per Month	\$7.25			
Three Phase Service	Per Month	\$15.10			
Single Phase Service TOD	Per Month	\$15.00			
Three Phase Service TOD	Per Month	\$30.00			
Energy Charge:					
All Kwh	Cents per Kwh	7.42 ¢			
TOD On Peak	Cents per Kwh	11.01 ¢			
TOD Off Peak	Cents per Kwh	4.49 ¢			
Winter (October - May)					
Customer Charge:					
Single Phase Service	Per Month	\$7.25			
Three Phase Service	Per Month	\$15.10			
Single Phase Service TOD	Per Month	\$15.00			
Three Phase Service TOD	Per Month	\$30.00			
Energy Charge:					
Base Use	Cents per Kwh	5.53 ¢			
Seasonal Use	Cents per Kwh	3.20 ¢			
TOD On Peak	Cents per Kwh	7.25 ¢			
TOD Off Peak	Cents per Kwh	<u>3.33</u> ¢		 	
Proof of Revenue					
	Units	Rate	1000's		
Summer	· · · · · · · · · · · · · · · · · · ·				
Customer Charge - Single Phase	369,238	\$7.25	\$2.677		
Customer Charge - Three Phase	139,514	\$15.10	\$2,107		
Single Phase Service TOD	544	\$15.00	\$8		
Three Phase Service TOD	281	\$30.00	\$8		

Customer Charge - Three Phase	139,514	\$15.10	\$2,107
Single Phase Service TOD	544	\$15.00	\$8
Three Phase Service TOD	281	\$30.00	\$8
Mwh	1,268,678	\$0.0742	\$94,136
TOD On Peak Kwh	2,684	\$0.1101	\$296
TOD Off Peak Kwh	4,664	\$0.0449	\$209
Summer Total MWH	1,276,026		\$99,441
Winter			
Customer Charge - Single Phase	740,475	\$7.25	\$5,368
Customer Charge - Three Phase	281,232	\$15.10	\$4,247
Single Phase Service TOD	1,340	\$15.00	\$20
Three Phase Service TOD	585	\$30.00	\$18
Winter Base Mwh	1,871,325	\$0.0553	\$103,484
Winter Seasonal Mwh	419,840	\$0.0320	\$13,435
TOD On Peak Kwh	5,298	\$0.0725	\$384
TOD Off Peak Kwh	9,389	\$0.0333	\$313
Winter Total MWH	2,305,852	-	\$127,269
Total	3,581,878		\$226,710

## Large General Service Rate Comparison AmerenUE - Missouri Weather Normalized-12 months ending June 2006 April-June Forecast

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<u>Summer (June - September)</u>		
Customer Charge Per Month	\$66.00	
Customer Charge TOD Per Month	\$80.00	
Energy Charge (¢ per kWh)		
First 150 kWh per KW	7.41 ¢	
Next 200 kWh per KW	5.58 ¢	
All over 300 kWh per KW	3.74 ¢	
TOD On Peak Adjust. per Kwh	0.88 ¢	
TOD Off Peak Adjust. per Kwh	-0.49 ¢	
Demand		
Per KW of Billing Demand	\$3.58	
Winter (October - May)		
Customer Charge Per Month	\$66.00	
Customer Charge TOD Per Month	\$80.00	
Energy Charge (¢ per kWh)		
First 150 kWh per KW	4_64 ¢	
Next 200 kWh per KW	3.48 ¢	
All over 350 kWh per KW	2.70 ¢	
Seasonal Energy Charge	2.70 ¢	
TOD On Peak Adjust. per Kwh	0.27 ¢	
TOD Off Peak Adjust. per Kwh	-0.15 ¢	
Demand		

	Units	Rate	\$1,000	
Summer				
Customer Charge	37,552	\$66.00	\$2,478	
Customer Charge TOD	84	\$80.00	\$7	
Summer Energy Mwh				
0-150 hours	1,139,107	\$0.0741	\$84,408	
151-350 hours	1,222,263	\$0.0558	\$68,202	
Over 350 hours	494,132	\$0.0374	\$18,481	
Seasonal	113	\$0.0000	\$0	
TOD On Peak	2,000	\$0.0088	\$18	
TOD Off Peak	3,158	-\$0.0049	-\$15	
Demand	8,319,125	\$3.58	\$ <u>29,782</u>	
			\$203,360	
Winter				
Customer Charge	75,312	\$66.00	\$4,971	
Customer Charge TOD	168	\$80.00	\$13	
Winter Energy Mwh				
0-150 hours	1,897,091	\$0.0464	\$88,025	
151-350 hours	2,021,758	\$0.0348	\$70,357	
Over 350 hours	852,489	\$0.0270	\$23,017	
Seasonal	334,520	\$0.0270	\$9,032	
TOD On Peak	3,288	\$0.0027	\$9	
TOD Off Peak	5,172	-\$0.0015	-\$8	
Demand	15,226,610	\$1.28	\$19,490	
			\$214,907	
	7,961,473		\$418,267	

Schedule JRP-E3

#### Small Primary Service Rate Comparison AmerenUE - Missouri Weather Normalized-12 months ending June 2006 April-June Forecast

Billing Components	Present	
Summer (June - September)		
Customer Charge Per Month	\$210.00	
Customer Charge TOD Per Month	\$224.00	
Energy Charge (¢ per kWh)		
First 150 kWh per KW	7.04 🔇	ŧ
Next 200 kWh per KW	5.31 0	t
All over 350 kWh per KW	3.56	t
TOD On Peak Adjust, per Kwh	0.88 ¢	t
TOD Off Peak Adjust, per Kwh	-0.49 d	ź
Demand	- •	
Per KW of Billing Demand	\$2.85	
Billing Kvars	24 4	t
Rider B 34kv	- ,	,
Per KW	81 c	ť
Rider 8 138kv	- · ,	r
Per KW	95 g	¢
Winter (October - May)		
Customer Charge Per Month	\$210.00	
Customer Charge TOD Per Month	\$224.00	
Energy Charge (¢ per kWh)		
First 150 kWh per KW	4.43 g	¢
Next 200 kWh per KW	3.30 g	¢
All over 300 kWh per KW	2.58 (	¢
Seasonal Energy Charge	2.58 g	¢
TOD On Peak Adjust, per Kwh	0.27	¢
TOD Off Peak Adjust, per Kwh	-0.15	¢
Demand		
Per KW of Billing Demand	\$1.04	
Billing Kvars	24 (	¢
Rider B 34kv		-
Per KW	81 (	¢
Rider B 138ky		

Proof of Revenue			
	Units	Rate	\$1,000
Summer			
Customer Charge	2,563	\$210.00	\$538
Customer Charge TOD	19	\$224.00	\$4
Summer Energy Mwh			
0-150 hours	466,903	\$0.0704	\$32,870
151-350 hours	530,728	\$0.0531	\$28,182
Over 350 hours	465,948	\$0.0356	\$16,588
Seasonal	-4,804	\$0.0000	\$0
TOD On Peak	5,182	\$0.0088	\$46
TOD Off Peak	7,926	-\$0.0049	(\$39)
Demand	3,205,417	\$2.85	\$9,135
Billing Kvars	618,614	\$0.24	\$148
Rider B 34kv	324,507	\$0.81	(\$263)
Rider B 138kv	0	\$0.95	\$0
			\$87,210
Winter _			
Customer Charge	5,078	\$210.00	\$1,066
Customer Charge TOD	40	\$224.00	\$9
Winter Energy Mwh			
0-150 hours	780,677	\$0.0443	\$34,584
151-350 hours	926,556	\$0.0330	\$30,576
Over 350 hours	745,533	\$0.0258	\$19,235
Seasonal	155,255	\$0.0258	\$4,006
TOD On Peak	10,205	\$0.0027	\$28
TOD Off Peak	16,333	-\$0.0015	(\$24)
Demand	5,685,807	\$1.04	\$5,913
Billing Kvars	1,226,639	\$0.24	\$294
Rider 8 34kv	563,733	\$0.81	(\$457)
Rider B 138kv	0	\$0.95	\$0
			\$95,230
	4,066,796		\$182,440

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Schedule JRP-E4

### Large Primary Service Rate Comparison AmerenUE - Missouri Weather Normalized-12 months ending June 2006 April-June Forecast

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Billing Components		Present	
Summer (June - Septe	ember)		
Customer Charge	Per Month	\$210.00	
Demand Charge	Per KW of Billing Demand	\$13.97	
Energy Charge:			
All Kwh	Cents per Kwh	2.34 ¢	
TOD On Peak	k Adjust, per Kwh	0.45 ¢	
TOD Off Peak	k Adjust, per Kwh	-0.25 ¢	
Reactive Charge	Cents per kVar	24 ¢	
Rider B 34kv	Per KW	81 ¢	
Rider B 138kv	Per KW	95 ¢	
Winter (October - May	ں م		
Customer Charge	Per Month	<b>\$</b> 210.00	
Demand Charge	Per KW of Billing Demand	\$6.34	
Energy Charge:			
All Kwh	Cents per Kwh	2.06¢	
TOD On Peal	k Adjust. per Kwh	0.2 ¢	
TOD Off Peal	k Adjust. per Kwh	-0.11¢	
Reactive Charge	Cents per kVar	24 ¢	
Rider B 34kv	Per KW	81 ¢	
Rider B 138kv	Per KW	95 ¢	

	Units	Rate	1000's
Summer			
Customer Charge	242	\$210.00	\$51
Summer Mwh	1,492,472	\$0.0234	\$34,924
TOD On Peak	29,851	\$0.0045	\$134
TOD Off Peak	51,376	-\$0.0025	-\$128
Demand	2,669,326	\$13.97	\$37,290
Billing Kvars	325,275	0.24	\$78
Rider B 34kv	681,130	0.81	(\$552)
Rider B 138kv	177,388	0.95	(\$169)
			\$71,629
Winter			
Customer Charge	488	\$210.00	\$102
Winter Mwh	2,653,640	\$0.0206	\$54,665
TOD On Peak	49,855	\$0.0020	\$100
TOD Off Peak	93,028	-\$0.0011	-\$102
Demand	4,848,009	\$6.34	\$30,736
Billing Kvars	609,400	\$0.24	\$146
Rider B 34kv	1,267,707	\$0.81	(\$1,027)
Rider B 138kv	355,245	\$0.95	(\$337)
			\$84,283
	4,146,112		\$155.912

### Large Transmission Service Rate AmerenUE - Missouri Weather Normalized-12 months ending June 2006 April-June Forecast

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lling Components		Present	
Summer (June - Septem	ber)		
Customer Charge	Per Month	\$210.00	
Demand Charge Energy Charge:	Per KW of Billing Demand	\$11.82	
All Kwh	Cents per Kwh	2.242 ¢	
Line Loss Kwh	Cents per Kwh	3.25 ¢	
Positive Charge	Cents per kVar	24 <i>t</i>	
Neachive Charge	eente por trea.	27 ψ	
Winter (October - May)		27 ¥	
<u>Winter (October - May)</u> Customer Charge	Per Month	\$210.00	·
<u>Winter (October - May)</u> Customer Charge Demand Charge Energy Charge:	Per Month Per KW of Billing Demand	\$210.00 \$4.50	
Winter (October - May) Customer Charge Demand Charge Energy Charge: All Kwh	Per Month Per KW of Billing Demand Cents per Kwh	\$210.00 \$4.50 1.974 ¢	
<u>Winter (October - May)</u> Customer Charge Demand Charge Energy Charge: All Kwh Line Loss Kwh	Per Month Per KW of Billing Demand Cents per Kwh Cents per Kwh	\$210.00 \$4.50 1.974 ¢ 3.25 ¢	

Proof of	Revenue			
		Units	Rate	1000's
	Summer			
	Customer Charge	4	\$210.00	\$1
	Summer Mwh	1,351,282	\$0.02242	\$30,296
	Line Loss Mwł	47837	\$0.03250	\$1,555
	Demand	1,845,439	\$11.82	\$21,806
	Billing Kvars	0	0.24	\$0
				\$53,657
	Winter			
	Customer Charge	8	\$210.00	\$2
	Winter Mwh	2,712,757	\$0.01974	\$53,550
	Line Loss Mwł	94,947	\$0.03250	\$3,086
	Demand	3,960,905	\$4.50	\$17,840
	Billing Kvars	0	\$0.24	\$0
			·	\$74,477
		4,064,039		\$128,134
	Annual Contribution Factor			\$9,074
				\$137,208

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# AmerenUE - Missouri Weather Normalized-12 months ending June 2006 April-June Forecast

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	Normal Bill Unit MWH	Billing Unit Revenue
Residential	13,157,603	\$850,213,202
Small General Service	3,581,878	\$226,709,603
Large General Service	7,961,473	\$418,267,034
Small Primary Service	4,066,796	\$182,439,828
Large Primary Service	4,146,112	\$155,912,021
Large Transmission Service	4,064,039	\$137,208,536
Lighting	228,072	\$27,110,909
MSD	<u> </u>	\$39,487
Total	37,205,973	\$1,997,900,620

Schedule JRP-E7