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### MISSOURI PUBLIC SERVICE COMMISSION

CASE NO. ER-2007-0002

### DIRECT TESTIMONY

OF

### JOHN F. WIEDMAYER

ON

### **BEHALF OF**

## UNION ELECTRIC COMPANY d/b/a AmerenUE

St. Louis, Missouri July, 2006

Ameren UE Exhibit No. 72 Case No(s). <u>FR-2007-0002</u> Date 3/27/07 Rptr <u>MV</u>

# TABLE OF CONTENTS

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I.	INTRODUCTION 1
II.	OUTLINE OF DEPRECIATION STUDY REPORT
III.	METHODS AND PROCEDURES USED IN THE STUDY7
IV.	STATISTICAL ANALYSES OF DATA 8
V.	SURVIVOR CURVE AND NET SALVAGE ESTIMATES 10
VI.	CALCULATION OF DEPRECIATION 11
VII.	RESERVE VARIANCE AMORTIZATION 12
VIII.	EXAMPLES OF PRESENTATION15

1		DIRECT TESTIMONY
2		OF
3		JOHN F. WIEDMAYER
4		CASE NO. ER-2007-0002
5		I. <u>INTRODUCTION</u>
6	Q.	Please state your name and address.
7	Α.	My name is John F. Wiedmayer. My business address is 1010 Adams
8	Avenue, Auc	lubon, Pennsylvania 19403.
9	Q.	Are you associated with any firm?
10	Α.	Yes. I am associated with the firm of Gannett Fleming, Inc.
11	Q.	How long have you been associated with Gannett Fleming, Inc.?
12	Α.	I have been associated with the firm since I graduated from college in June,
13	1986.	
14	Q.	What is your position with the firm?
15	А.	I am Project Manager, Depreciation Studies of Gannett Fleming's Valuation
16	and Rate Div	vision.
17	Q.	What is your educational background?
18	А.	I have a Bachelor of Arts degree in Engineering from Lafayette College and a
19	Master of Ba	siness Administration from the Pennsylvania State University.
20	Q.	Do you belong to any professional societies?
21	А.	Yes. I am a member of the National and Pennsylvania Societies of
22	Professional	Engineers and the Society of Depreciation Professionals. I am currently the past

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President of the Society of Depreciation Professionals. In 2005, I served as President of the
 Society of Depreciation Professionals.

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### Q. Do you hold any special certification as a depreciation expert?

A. Yes. The Society of Depreciation Professionals has established national
standards for depreciation professionals. The Society administers an examination to become
certified in this field. I passed the certification exam in September 1997.

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### Q. Please outline your experience in the field of depreciation.

8 Α. In June, 1986, I was employed by Gannett Fleming Valuation and Rate 9 Consultants, Inc. as a Depreciation Analyst. I held that position from June, 1986 through 10 December, 1995. In January, 1996, I was assigned to the position of Supervisor of 11 Depreciation Studies. In August 2004, I was promoted to my present position as Project 12 Manager of Depreciation Studies. I am responsible for conducting depreciation and 13 valuation studies, including the preparation of testimony, exhibits, and responses to data 14 requests for submission to the appropriate regulatory bodies. My additional duties include 15 determining final life and salvage estimates, conducting field reviews, presenting 16 recommended depreciation rates to management for their consideration and supporting such 17 rates before regulatory bodies.

During the course of my employment with Gannett Fleming I have assisted in the preparation of numerous depreciation studies for utility companies in various industries. I assisted in the preparation of depreciation studies for the following telephone companies: Alberta Government Telephone, Telus, and United Telephone of Pennsylvania. I assisted in the preparation of depreciation studies for the following companies in the railroad industry: CSX Transportation, Union Pacific Railroad, Burlington Northern Railroad, Burlington

Northern Santa Fe Railway, Amtrak, Norfolk & Western, Southern Railway, and Norfolk
 Southern Corporation.

3 I assisted in the preparation of depreciation studies for the following 4 organizations in the electric industry: AmerenUE, Arizona Public Service Company, UGI 5 Utilities, Penelec, Metropolitan Edison, the City of Red Deer, Nova Scotia Power, 6 Newfoundland Power, Owen Electric Cooperative, Bangor Hydro Electric Company, Maine 7 Public Service Company, Michigan Electric Transmission Company, PECO, Jackson Electric 8 Cooperative Corporation, Houston Lighting and Power, TXU, Maritime Electric, Nolin 9 Rural Electric Cooperative, AmerenCIPS, AmerenCILCO, AmerenIP, and the City of Calgary - Electric System. 10 11 I assisted in the preparation of depreciation studies for the following gas 12 companies: UGI Utilities, North Penn Gas, Equitable Gas, Centra Gas Alberta, Questar Gas 13 and Dominion East Ohio. In each of the above studies, I assembled and analyzed historical and 14 15 simulated data, performed field reviews, developed preliminary estimates of service lives 16 and net salvage, calculated annual depreciation, and prepared reports for submission to 17 state public utility commissions or other regulatory agencies. 18 О. Have you previously testified on the subject of utility plant depreciation? 19 Yes. I have submitted testimony to the Kentucky Public Service Commission, Α. 20 the Newfoundland and Labrador Board of Commissioners of Public Utilities, the Nova 21 Scotia Utility and Review Board, the Federal Energy Regulatory Commission, the Utah 22 Public Service Commission and the Arizona Corporation Commission.

### 1 Q. Have you received any additional education relating to utility plant 2 depreciation?

3 Α. Yes. I have completed the following courses conducted by Depreciation Programs, Inc.: "Techniques of Life Analysis," "Techniques of Salvage and Depreciation 4 5 Analysis," "Forecasting Life and Salvage," "Modeling and Life Analysis Using Simulation" 6 and "Managing a Depreciation Study." In 2000, I became an instructor at the Society of 7 Depreciation Professional annual conference lecturing on "Salvage Concepts," "Depreciation 8 Models," and "Data Requirements for a Depreciation Study."

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#### Q. What is the purpose of your testimony in this proceeding?

10 Α. The purpose of my testimony is to sponsor the depreciation study conducted 11 for Union Electric Company d/b/a AmerenUE (the "Company" or "AmerenUE"). The 12 depreciation study report titled, "Depreciation Study – Calculated Annual Depreciation 13 Accruals Related to Electric Plant at December 31, 2005" is attached hereto as Schedule 14 JFW-E1. My testimony will address (1) the methods and procedures I used in the depreciation study, (2) the statistical analyses of service life and salvage data I performed, 15 16 (3) my estimates of survivor curves and net salvage percents, (4) my calculation of 17 depreciation accrual rates, (5) my proposed amortization of the reserve variance and (6) 18 several examples of the manner in which the study results are presented in the depreciation 19 study report. A summary of my testimony is included as Attachment A. 20

### Q. What is the purpose of the depreciation study?

21 Α. The purpose of the depreciation study is to determine the annual depreciation 22 accrual rates applicable to AmerenUE's electric plant as of December 31, 2005.

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1	Q.	Please define the concept of depreciation.
2	Α.	Depreciation refers to the loss in service value not restored by current
3	maintenance,	incurred in connection with the consumption or prospective retirement of utility
4	plant in the c	ourse of service from causes that can be reasonably anticipated or contemplated,
5	against which	the company is not protected by insurance. Among the causes to be given
6	consideration	are wear and tear, decay, action of the elements, inadequacy, obsolescence,
7	changes in th	e art, changes in demand and the requirements of public authorities.
8		II. OUTLINE OF DEPRECIATION STUDY REPORT
9	Q.	Does Schedule JFW-E1 accurately portray the results of your
10	depreciation	study as of December 31, 2005?
11	Α.	Yes.
12	Q.	In preparing the depreciation study, did you follow generally accepted
13	practices in	the field of depreciation?
14	Α.	Yes.
15	Q.	Please describe the contents of your report.
16	Α.	The depreciation study report consists of three parts. Part I, Introduction,
17	includes brie	f descriptions of the basis of the study and a summary of the study results.
18	Part II, Meth	ods Used in the Estimation of Depreciation, presents detailed discussions of
19	survivor curv	es, methods of life analysis including an example of the retirement rate method,
20	group proced	ures for calculating annual and accrued depreciation including the true-up
21	provision for	monitoring the book accumulated depreciation. Part III, Results of Study,
22	includes a qu	alification and description of the results, and summaries of the detailed

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1	depreciation calculations. Appendices A through C include graphs and tables that relate to
2	the service life and net salvage analyses, and detailed depreciation calculations.
3	The tables on pages III-4 through III-8 present summaries of the depreciation
4	calculations as of December 31, 2005. Appendix A presents the results of the retirement rate
5	analyses prepared as the historical bases for the service life estimates. Appendix B presents
6	the results of the net salvage analyses. Appendix C presents the detailed depreciation
7	calculations related to surviving original cost as of December 31, 2005. The detailed
8	depreciation calculations present the annual and accrued depreciation amounts by account
9	and vintage year. The whole life annual accrual rate is also set forth on the tables in
10	Appendix C.
11	Q. Are any aspects of your depreciation study supported by any other
12	witness in this proceeding?
13	A. Yes. AmerenUE witness William M. Stout is providing direct testimony in
14	support of adopting the life span approach to straight-line whole life depreciation, the accrual
15	of both interim and terminal net salvage during the life of power plants, and the life span for
16	AmerenUE's power plants. I have incorporated Mr. Stout's recommendations regarding
17	these items into my depreciation study.
18	Q. Please summarize your recommendations and their bases.
19	A. I recommend that the Commission approve the annual depreciation accrual
20	rates presented in Schedule 1 of Schedule JFW-E1 and the remaining life amortization of the
21	variance between the calculated accrued depreciation and the book accumulated depreciation
22	that I have determined and presented in Schedule 2 of Schedule JFW-E1.

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1	The annual depreciation accrual rates and the reserve variance amortization
2	that I am recommending are based on standard professional and industry practices using
3	estimates of survivor curves and net salvage percents. These estimates are based on
4	informed judgment that incorporates statistical analyses of historical retirement data, field
5	reviews of the property, discussions with management regarding the outlook for plant, and a
6	review of the estimates made for other electric utilities. Further, my estimated survivor
7	characteristics for Production Plant incorporate estimated dates of final retirement that are
8	consistent with industry experience and the outlook of AmerenUE management.
9	III. METHODS AND PROCEDURES USED IN THE STUDY
10	Q. What was the basis for determining the annual depreciation related to
11	electric plant as of December 31, 2005?
12	A. A study of service life and net salvage was prepared which incorporated
13	available historical data through 2005. The survivor curve and net salvage estimates
14	resulting from the study are the bases of the calculated annual and accrued depreciation as of
15	December 31, 2005. The straight-line method, average service procedure and the average
16	remaining life basis using the survivor curve and net salvage estimates and attained ages
17	were applied by depreciable group to electric plant as of December 31, 2005 to calculate
18	depreciation. Use of the remaining life basis recognizes the current status of the accumulated
19	provision for depreciation and aims to allocate the previously unallocated service value over
20	the remaining life.
21	Q. Please outline the steps you took to perform the depreciation study.
22	A. I reviewed the available sources of data, observed the electric plant during a
23	field survey, and discussed past causes of retirement and the outlook for future retirements

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with AmerenUE engineering and operations management. I specified the data to be extracted 1 2 and coded for the historical analyses, supervised the statistical analyses of data, and calculated depreciation. 3 Briefly describe the steps you took to conduct the service life and net 4 Q. 5 salvage study. 6 Α. I assembled and compiled historical data from the continuing property and 7 other records of AmerenUE; I analyzed the data to obtain historical trends of survivor and 8 salvage characteristics; I obtained supplementary information from AmerenUE's 9 management and operating personnel concerning past practices and future plans as they 10 relate to plant operations; and I selected appropriate survivor curves and net salvage percents. 11 12 IV. STATISTICAL ANALYSES OF DATA 13 Q. What historical data did you analyze for the purpose of estimating the 14 service lives and net salvage characteristics of AmerenUE's electric plant? 15 A. The service life data consisted of the entries made by AmerenUE to record 16 electric plant transactions from the earliest available year through 2005. For most plant 17 accounts, the plant accounting data comprised the period 1923 through 2005. The 18 transactions included additions, retirements, transfers, acquisitions and the related balances. I classified data by depreciable group, type of transaction, the year in which the transaction 19 20 took place, and the year in which the plant was installed. 21 The net salvage data consisted of the entries to accumulated depreciation. The 22 transactions included retirements, cost of removal and gross salvage.

1	Q.	What method did you use to analyze the service life data?
2	А.	I used the retirement rate method. That method is the most appropriate when
3	aged retireme	ent data are available, because it develops the average rates of retirement
4	actually expe	rienced during the period of study. Other methods of life analysis infer the rates
5	of retirement	based on a selected type survivor curve. The retirement rate method is
6	described in l	Part II of the depreciation study report.
7	Q.	Please describe how you used the retirement rate method to analyze
8	AmerenUE'	s service life data.
9	Α.	Each retirement rate analysis resulted in a life table which, when plotted,
10	formed an or	iginal survivor curve. Each original survivor curve as plotted from the life table
11	represents the	e average survivor pattern experienced by the several vintage groups during the
12	experience ba	and studied. The survivor patterns do not necessarily describe the life
13	characteristic	s of the property group; therefore, interpretation of the original curves is
14	required in or	rder to use them as valid considerations in service life estimation. Iowa type
15	survivor curv	ves were used in these interpretations.
16	Q.	Please explain briefly what an "Iowa type survivor curve" is and how you
17	use it in esti	mating service life characteristics for each depreciable group.
18	Α.	Iowa type curves are a widely used group of survivor curves that contain the
19	range of surv	ivor characteristics usually experienced by utility and other industrial properties.
20	The Iowa cur	ves were developed at the Iowa State College Engineering Experiment Station
21	through an ex	xtensive process of observation and classification of the ages at which industrial
22	property had	been retired.

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1	Iowa type curves are used to smooth and extrapolate original survivor curves
2	determined by the retirement rate method. The Iowa curves were used in this study to
3	describe the forecasted rates of retirement based on the observed rates of retirement and the
4	outlook for future retirements.
5	The estimated survivor curve designations for each depreciable group indicate
6	the average service life, the family within the Iowa system and the relative height of the
7	mode. For example, the Iowa 34-R2 indicates an average service life of thirty-four years for
8	the depreciable group; a Right, or R, type curve (i.e., the mode occurs to the right of or after
9	average life for right modal curves); and a relatively low height, 2, for the mode (possible
10	modes for R type curves range of 0.5 to 5).
11	Q. What method of analysis was used in the study of net salvage?
12	A. The method of analysis for net salvage consisted of expressing annual
13	amounts of gross salvage and cost of removal as percents of the related retirement amounts.
14	The annual amounts and percents were smoothed through the use of a three-year moving
15	average. The most recent five-year average also was computed.
16	Q. Did you prepare the schedules of net salvage amounts and percents
17	presented in Appendix B of the depreciation study report?
18	A. Yes, I did.
19	V. <u>SURVIVOR CURVE AND NET SALVAGE ESTIMATES</u>
20	Q. What were the bases for your estimates of survivor curves and net
21	salvage?
22	A. The survivor curve and net salvage estimates were based on my judgment
23	which incorporated the analyses of historical data, a review of utility policies and outlook

1	with engineer	ring and operations management, and comparisons of survivor curve and net
2	salvage estim	nates from studies of other electric utilities.
3	Q.	Are the factors which you considered in the estimation of survivor curve
4	and net salv	age percents presented in the depreciation study report?
5	Α.	Yes. The factors which I considered in estimating survivor curves and net
6	salvage perce	ents are set forth in Part II of the report.
7		VI. <u>CALCULATION OF DEPRECIATION</u>
8	Q.	What method of depreciation was used to calculate the annual
9	depreciation	as of December 31, 2005?
10	Α.	The straight-line method, average service procedure and remaining life basis
11	was used to c	calculate the annual and accrued depreciation.
12	Q.	Why is this method and procedure appropriate for AmerenUE?
13	Α.	The straight-line method is used throughout the regulated utility industry to
14	describe the	loss in service value of utility property. The average service life procedure is
15	widely used	throughout the electric industry and has been approved for AmerenUE by the
16	Missouri Pul	olic Service Commission.
17	Q.	Please describe the average service life procedure.
18	Α.	When considering more than a single item of property, a group procedure is
19	appropriate t	because normally all of the items within a group do not have identical lives, but
20	have lives th	at are dispersed over a range of time. In the average service life procedure, a
21	constant acc	rual rate based on the average life of all property in the group is applied to the
22	surviving pro	operty. The accrued depreciation is based on the average service life of the

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group and the average remaining life of each vintage within the group derived from the area 1 under the survivor curve between the attained age of the vintage and the maximum age. 2 Did you calculate the annual depreciation rates and accrued depreciation 3 О. amounts? 4 Yes, the annual and accrued depreciation calculations summarized in Part III 5 Α. of the depreciation study report and detailed in Appendix C were prepared under my 6 7 supervision. 8 VII. **RESERVE VARIANCE AMORTIZATION** 9 О. Please explain what you mean by the term "Reserve Variance 10 Amortization". 11 А. The reserve variance amortization is a way to adjust annual depreciation 12 expense in order to align the book reserve with the calculated accrued depreciation or theoretical reserve. The reserve variance is the difference between the company's book 13 accumulated depreciation (i.e., book reserve) and the theoretical reserve. A reduction in the 14 reserve variance is achieved by either increasing or decreasing the amortization amounts 15 depending on whether a reserve excess or deficiency exists. 16 17 Q. How did you determine the reserve variance amortization for AmerenUE? 18 19 A. The reserve variance amortization for AmerenUE as of December 31, 2005 is 20 calculated in Schedule 2 on pages III-9 through III-14 of the depreciation study report. Each account's reserve variance amortization shown in column 7 is the reserve variance in column 21 5 divided by the composite remaining life in column 6. 22

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1	Q. Did you make any adjustments to the book accumulated depreciation
2	amounts maintained at the plant account level?
3	A. Yes. The initial calculations revealed that the book accumulated depreciation
4	for Distribution Plant exceeded the theoretical reserve by approximately \$90 million or 6%
5	of the calculated accrued depreciation ("CAD") amount, a.k.a., theoretical reserve. The
6	accumulated depreciation for General Plant was under-accrued by approximately \$81
7	million. That is, book reserve was less than the theoretical reserve by \$81 million or 39% of
8	the CAD. I reallocated the total book reserve amounts for Distribution and General Plant in
9	proportion the theoretical reserve amounts calculated at the plant account level. The reserve
10	variance amortizations presented on Schedule 2 in Schedule JFW-E1, are based on book
11	reserve amounts that have been reallocated in the manner described above.
12	Q. Would you comment on the reserve imbalance and your proposed
13	adjustment to the book reserve amounts?
14	A. The Company has been using the same depreciation accrual rates since 1983
15	so it is not surprising that several large reserve variances have developed. As a matter of
16	practice, I recommend that electric companies update their depreciation rates at a minimum
17	of every five years in connection with complete depreciation study that includes a service life
18	and net salvage study. Companies that update their depreciation studies every five years are
19	less prone to having large reserve variances develop. Also, conducting a depreciation study
20	every five years is accepted industry practice and is consistent with the regulations of the
21	Missouri Public Service Commission. <sup>1</sup>

<sup>&</sup>lt;sup>1</sup> AmerenUE has complied with Missouri Public Service Commission regulations requiring periodic submission of depreciation studies, but depreciation rates were not changed after 1983.

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1	The reserve variances were caused by depreciation accrual rates that were too
2	high for Distribution Plant since the service lives were too short. Conversely, depreciation
3	accrual rates for General Plant were too low since the service lives were too long. Generally,
4	Distribution Plant assets are lasting longer due to improved maintenance practices and better
5	equipment and protective devices; as a result Gannett Fleming is recommending longer lives
6	for Distribution Plant. For example, the existing average service life estimate for Account
7	368, Line Transformers is 40 years and the proposed average service life estimate is 45 years.
8	The existing average service lives for certain General Plant accounts are
9	extremely long and inappropriate, and Gannett Fleming is recommending shorter lives for
10	General Plant. For example, in 1983 (the year in which AmerenUE's depreciation rates were
11	last changed) personal computers ("PC") were grouped in Account 391, Office Furniture and
12	Equipment, an account with a 28-year average service life and a depreciation accrual rate of
13	3.29 percent. Most companies currently depreciate their PC equipment over a 3 to 5 year
14	period using annual accrual rates ranging from 20 to 33 percent. As a result of the accrual
15	rate for PC equipment being too low, AmerenUE is significantly under accrued by nearly \$42
16	million for PC equipment. AmerenUE has been monitoring the reserve variance but was
17	precluded from changing accrual rates outside of a general rate case.
18	Also the average remaining life for PC equipment is very short, slightly less
19	than 2 years. The reserve variance amortization amount calculated for PC equipment prior to
20	the reserve reallocation was an increase to depreciation expense of approximately \$26
21	million versus a reduction of \$1,846 after the reserve reallocation. The average remaining
22	lives in General Plant are much shorter than those in Distribution Plant and this produces
23	significantly higher amortization amounts even though the reserve variance in total are

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roughly offsetting (i.e., \$90 million reserve excess in Distribution Plant versus \$81 million 1 reserve deficiency in General Plant). The total reserve variance amortization amount prior to 2 3 the reserve reallocation that I am recommending was an increase to depreciation of approximately \$50 million versus an increase of \$8.5 million. By rebalancing the book 4 5 reserve related to distribution and general plant, the Company's annual depreciation 6 provision is reduced by approximately \$41.5 million. 7 VIII. **EXAMPLES OF PRESENTATION** 8 О. Please illustrate the procedure followed in your depreciation study and 9 the manner in which it is presented in the depreciation study report using an account as 10 an example. 11 I will use Account 355, Poles and Fixtures, to illustrate the manner in which A. 12 the study was conducted. As the initial step of the service life study, aged plant account data were compiled for the years 1930 through 2005. These data have been coded in the course of 13 14 AmerenUE's normal recordkeeping according to: 1) account or property group; 2) type of transaction; 3) year in which the transaction took place; and, 4) year in which the electric 15 16 plant was placed in service. The retirements and other transactions were analyzed by the 17 retirement rate method. The survivor curve estimate is based on the statistical analysis for 18 the period 1930-2005. The original and smooth survivor curves are plotted on page A-59 of 19 Appendix A in the depreciation study report. The original life table for the 1930-2005 20 experience band is set forth on pages A-60 and A-61. The net salvage estimate is based in 21 part on the analysis of 1961 through 2005 removal cost and salvage experienced for Account 22 355 as shown on pages B-65 through B-67 of Appendix B in the depreciation study report.

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1	The calculation of annual depreciation for the original cost of poles and pole
2	fixtures at December 31, 2005 is presented by vintage, on pages C-82 and C-83 in the
3	depreciation study report. The accrued depreciation was calculated by the average service
4	life procedure using the Iowa 52-R4 survivor curve.
5	The total depreciation accrual on page C-83 of the depreciation study report
6	was brought forward to column 7 of Schedule 1 on page III-6. The total calculated accrued
7	depreciation on page C-83 was brought forward to column 4 of Schedule 2 on page III-9.
8	The calculated accrued depreciation was used to determine the reserve
9	variance amortization in column 7 of Schedule 2 in the manner previously described. The
10	reserve variance amortizations in column 7 of Schedule 2 were also presented in column 4 of
11	Schedule 3, pages III-15 through III-18, and added to whole-life annual accruals in column 3
12	to determine the total annual depreciation for this account in column 5 of Schedule 3.
13	Q. Does this conclude your direct testimony?
14	A. Yes, it does.

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

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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 JOHN F. WIEDMAYER**

STATE OF PENNSYLVANIA ) ss COUNTY OF Montgomery )

John F. Wiedmayer, being first duly sworn on his oath, states:

1. My name is John F. Wiedmayer. I work in Audubon, Pennsylvania and I am a Project Manager with the firm of Gannett Fleming, Inc.

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 16 pages, Attachment A and Schedule JFW-E1, all of which have been prepared in written form for introduction into evidence in the above-referenced docket.

3. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded are true and correct.

John F. Kiedmayer

Subscribed and sworn to before me this 3 - 4 day of July, 2006.

pomera Debleus Notary Public

My commission expires: 4/13/2010

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL JAMES R. GIBBONS, Notary Public Lower Providence Twp., Montgomery County My Commission Expires April 13, 2010

# **EXECUTIVE SUMMARY**

### John F. Wiedmayer

Project Manager, Depreciation Studies Practice Gannett Fleming, Inc.

\* \* \* \* \* \* \* \* \* \*

The purpose of my testimony is to sponsor the depreciation study conducted for Union Electric Company d/b/a AmerenUE (the "Company" or "AmerenUE"), titled "Depreciation Study – Calculated Annual Depreciation Accruals Related to Electric Plant at December 31, 2005." The recommendations in the direct testimony of AmerenUE witness William M. Stout in support of adopting the life span approach to straight-line whole life depreciation, the accrual of both interim and terminal net salvage during the life of power plants, and the life span for AmerenUE's power plants are incorporated into my depreciation study.

My testimony addresses (1) the methods and procedures I used in the depreciation study, (2) the statistical analyses of service life and salvage data I performed, (3) my estimates of survivor curves and net salvage percents, (4) my calculation of depreciation accrual rates, (5) my proposed amortization of the reserve variance and (6) several examples of the manner in which the study results are presented in the depreciation study report. The specific annual depreciation accrual rates that I recommend the Commission approve are presented in Schedule 1 of Schedule JFW-E1 and the remaining life amortization of the variance between the calculated accrued depreciation and the book accumulated depreciation that I have determined are presented in Schedule 2 of Schedule JFW-E1.

Attachment A - 1

These annual depreciation accrual rates and the reserve variance amortization are based on standard professional and industry practices using estimates of survivor curves and net salvage percents. These estimates are based on informed judgment that incorporates statistical analyses of historical retirement data, field reviews of the property, discussions with management regarding the outlook for plant, and a review of the estimates made for other electric utilities. Further, my estimated survivor characteristics for Production Plant incorporate estimated dates of final retirement that are consistent with industry experience and the outlook of AmerenUE management

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