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Exhibit No.: Issue: Witness: Sponsoring Party: Type of Exhibit: Case No.: Date Testimony Prepared:

Depreciation Rosella L. Schad, P.E., C.P.A. MoPSC Staff Direct Testimony ER-2006-0314 August 08, 2006

MISSOURI PUBLIC SERVICE COMMISSION

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UTILITY SERVICES DIVISION



NOV 1 3 2006

DIRECT TESTIMONY

Bervice Commission

OF

ROSELLA L. SCHAD, P.E., C.P.A.

KANSAS CITY POWER & LIGHT COMPANY

CASE NO. ER-2006-0314

Jefferson City, Missouri August 2006

SHO Exhibit No. Case No(s). 22-200 Date () -16-06 Rptr

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of the Application of Kansas City) Power & Light Company for Approval to Make) Certain Changes in its Charges for Electric Service) to Begin the Implementation of Its Regulatory Plan.)

Case No. ER-2006-0314

AFFIDAVIT OF ROSELLA L. SCHAD

STATE OF MISSOURI) SS. COUNTY OF COLE)

Rosella L. Schad, of lawful age, on her oath states: that she has participated in the preparation of the foregoing Direct Testimony in question and answer form, consisting of 12. pages to be presented in the above case; that the answers in the foregoing Direct Testimony were given by her; that she has knowledge of the matters set forth in such answers; and that such matters are true and correct to the best of her knowledge and belief.

Rosella L. Schad

Subscribed and sworn to before me this $\frac{444}{100}$ day of August 2006.



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1	DIRECT TESTIMONY OF		
2	ROSELLA L. SCHAD, P.E., C.P.A.		
3	KANSAS CITY POWER & LIGHT COMPANY		
4	CASE NO. ER-2006-0314		
5	Q. Please state your name and business address.		
6	A. Rosella L. Schad, P.O. Box 360, Jefferson City, MO 65102		
7	Q. By whom are you employed and in what capacity?		
8	A. I am employed by the Missouri Public Service Commission (Commission) as		
9	an Engineer in the Engineering & Management Services Department.		
10	Q. Please describe your educational training and professional background.		
11	A. I received a Bachelor of Science degree (1978) in Mechanical Engineering and		
12	a Masters of Public Administration (2004) from the University of Missouri-Columbia. I am		
13	currently enrolled at the University of Missouri-Columbia in a Masters of Business		
14	Administration, with an emphasis in Finance. My anticipated completion date is May 2008.		
15	I am a Licensed Professional Engineer and Certified Public Accountant in the State of		
16	Missouri. I am a member of the National Society of Professional Engineers, the Society of		
17	Depreciation Professionals, and the Missouri Society of Certified Public Accountants. I was		
18	employed by Union Electric (now AmerenUE) as an Engineer Intern during the summer of		
19	1977. I was employed as a Mechanical Engineer by Union Electric in its Nuclear		
20	Construction Department from 1978 to 1980. I have been with the Missouri Public Service		
21	Commission's Staff (Staff) since 1999. In my current position I have completed training in		
22	depreciation concepts, attended numerous industry seminars for electric, natural gas,		
23	telecommunications, water, and wastewater regulatory matters and made on-site tours of		

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1	many of the facilities of the electric, natural gas, telecommunications, water, and wastewater			
2	utilities operating in the State of Missouri, which are regulated by the Commission			
3	Q. Please describe your duties while employed by the Commission.			
4	A. I am responsible for engineering analyses and depreciation rate determinations			
5	of companies regulated by the Commission.			
6	Q. Have you previously filed testimony before this Commission?			
7	A. Yes. Schedule 1, attached to my testimony, shows a list of Commission cases			
8	in which I have filed testimony and the issues that I addressed.			
9	Q. What expert knowledge, skill, experience, training, or education do you have			
10	in these matters?			
11	A. I have acquired general knowledge of these topics through my experience and			
12	analyses in prior rate cases before this Commission presented in Schedule 1 and I have			
13	assisted in Staff's depreciation rate filings in GR-2005-0284, ER-2001-672, ER-2001-299,			
14	WR-2000-844, and GR-2000-512. I have also reviewed prior Commission decisions with			
15	regard to depreciation issues. I have reviewed the testimony, workpapers, and responses to			
16	Staff's data requests addressing these issues in prior cases.			
17	I have attended the National Conference of Regulatory Commission Engineers'			
18	meeting and symposiums offered on current topics of regulation. I have received formal			
19	depreciation training offered by Depreciation Programs, Inc., the Society of Depreciation			
20	Professionals, and Gannett Fleming Valuation and Rate Consultants, Inc. I have had on-going			
21	discussions with Gannett Fleming technical personnel regarding the functionality of the			
22	Gannett Fleming software, including data input requirements, statistical analysis, and			

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23 interpretation of results.

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1	I have attended with other members of the Staff several of the Chapter 22 Electric		
2	Resource Planning (Integrated Resources Planning) semi-annual meetings of the electric		
3	utilities regulated by the Commission, where resource planning, capacity upgrades, and		
4	proposed generation additions are discussed. I have toured all the major generating facilities		
5	of all electric companies in the state of Missouri regulated by the Commission and met with		
6	company engineers, operating personnel and management to discuss plant operations, both		
7	past and present, as well as any future activities being considered.		
8	EXECUTIVE SUMMARY		
9	Q. Please summarize the remainder of your testimony.		
10	A. The Staff conducted a depreciation study of Kansas City Power and Light		
11	Company's capital assets and has recommended depreciation rates which, when applied to the		
12	Missouri jurisdictionally allocated plant-in-service as of June 30, 2006, generated the		
13	depreciation expense used in the Staff's revenue requirement program. The depreciation rates		
14	determined in this study will decrease the currently ordered annual depreciation expense from		
15	approximately \$65 million to \$55 million, a difference of approximately \$10 million.		
16	The depreciation system used in this current study is the straight line method, broad		
17	group procedure and whole life technique. The depreciation rates are based on Staff's		

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20 following equation:

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Depreciation Rate = (100% - Net Salvage %) ÷ Average Service Life

estimate of average service life, (except as noted above for wind generation assets and nuclear

generation assets) and net salvage for each capital plant account, and are calculated by the

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1	Staff also analyzed the accumulated reserve for depreciation by comparing it to a			
2	theoretical depreciation reserve that was calculated using the mortality characteristics			
3	determined in the depreciation study. This comparison is on a total company basis and not			
4	Missouri jurisdictionally allocated plant-in-service basis.			
5	DEPRECIATION ISSUES			
6	Q. What matters will you address in your direct testimony?			
7	A. I will address the Staff's recommendation regarding depreciation rates for			
8	Kansas City Power & Light Company (KCPL).			
9	Q. When were depreciation rates for the Company last adopted by a Commission			
10	order?			
11	A. Depreciation rates were last adopted for the Company by Stipulation and			
12	Agreement (S&A) in EO-2005-0329.			
13	Q. Was there specific language in the S&A that depreciation rate changes may			
14	occur subsequent to the Report and Order approving KCPL's regulatory plan?			
15	A. Yes. On page 32 of the S&A it is noted, "Paragraph III.B.1.i does not preclude			
16	KCPL, or any other party from requesting that this amortization be directed toward specific			
17	plan accounts or from requesting additional changes in depreciation rates that may result from			
18	depreciation studies."			
19	DEPRECIATION STUDY			
20	O. What is the definition of depreciation?			

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1	A. Depreciation is the loss, not restored by current maintenance, which is due to		
2	all factors causing the ultimate retirement of the property. These factors embrace wear and		
3	tear, decay, inadequacy, obsolescence, and requirements of public authorities.		
4	The purpose of depreciation in a regulatory setting is to recover the cost of capital		
5	assets allocated rationally over the assets' useful lives. Annual depreciation expense, when		
6	accumulated over the life of the asset, yields the full recovery of the original cost of the		
7	utility's assets.		
8	Q. Please describe the depreciation study that you conducted in this case.		
9	A. I performed a broad group-average life depreciation study, where all units of		
10	plant within a particular depreciation category are considered to be one group when analyzing		
11	mortality data to determine average service lives. The average service life (ASL), expressed		
12	in years, is the expected period of useful service of all units of the group, or capital plant		
13	account, regardless of the placement date.		
14	Q. Briefly describe the different capital plant account classifications.		
15	A. Capital plant accounts are classified by function: Production (Generation),		
16	Transmission, Distribution, and General.		
17	Q. What are the steps involved in life estimation?		
18	A. Determining an account's average service life begins with four primary steps.		
19	The first primary step is to collect and review the historical placement and retirement plant		
20	data. The mortality data is checked for reasonableness and to ensure that sufficient data exists		
21	to perform a statistical analysis. The second primary step is touring a utility's facilities to		
22	gain familiarity with the facilities and to discuss with operations personnel, engineers,		
23	accountants and others, current trends and developments that may influence the useful life of		

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1	plant in service. The third primary step is to perform a statistical analysis of the retirement
2	experience of the utility plant accounts. The fourth primary step in the process of determining
3	average service life is applying experience and informed judgment to the results of the life
4	analysis to confirm that the results are reasonable for the type of plant in question.
5	Q. If Staff is unable to perform the steps involved in life estimation as noted
6	above, how does Staff make life estimations?
7	A. In those instances Staff uses informed judgment and recognition of current
8	developments to develop service life estimations, including the review of average service
9	lives for plant at other Missouri Commission-regulated utilities.
10	Q. How did you evaluate the retirement experience of the Company's plant
11	accounts?
12	A. I used the retirement rate method of life analysis using the Gannett Fleming
13	software. The retirement rate method analyzes historical plant data by calculating the ratio of
14	retirements to exposures during an age interval, then solving for the percent surviving by age,
15	to develop a survivor curve for an account. The required data are plant additions in dollars by
16	year, or vintage, and retirements from each vintage in dollars by year. The exposures at a
17	given age are the dollars remaining from the various vintages that have lived to that age. The
18	retirement ratio is the dollars retired during an age interval divided by the exposures at the
19	beginning of that interval. The survivor ratio is then calculated by subtracting the retirement
20	ratio from one. Multiplying each successive survivor ratio by the percent surviving of the
21	previous age will generate a survivor curve. This original survivor curve can then be
22	smoothed or fitted to an empirically developed statistical model known as the Iowa type
23	curves.

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Q. What are the Iowa-type curves?

A. The Iowa curves are widely used models of the life characteristics of utility
property. The system of Iowa curves is a family of curve shapes empirically derived from
analysis of mortality data of 176 types of utility and industrial property. The curves were
developed at the Iowa Engineering Experiment Station at what is presently known as Iowa
State University. The Iowa curves were first published in 1935 and reconfirmed in 1980.

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Q. How do the Iowa-type curves help determine an account's average service life?

A. Smoothing the original survivor curve by fitting it to an Iowa-type curve eliminates irregularities and extrapolates stub curves to zero percent. The original survivor curve is both mathematically and visually matched with various Iowa-type curves to determine which has the most appropriate fit. The average service life of an account's original survivor curve is estimated as the area under the selected Iowa-type curve.

13

Q. What can cause an account's average service life to change over time?

A. Subsequent developments such as technological changes, environmental
 regulations, regulatory requirements, or accounting changes can all affect the average service
 life of property in an account. Examples of these factors include different vintages of plant
 manufactured from different materials, changes in installation practices, or the development
 of a life extending maintenance procedure.

Q. Are there any other elements that are factored into the depreciation ratecalculation?

A. Yes. Consideration was given to the net salvage that property in an account
 may experience.

23 Q. What is net salvage?

1	A. Net salvage is gross salvage, or recovered marketable value of retired plant,
2	less cost of removal, or the cost associated with the retirement from service and disposition of
3	plant. Negative net salvage occurs when the cost of removal exceeds gross salvage; this is
4	also referred to as net cost of removal or net salvage expense.

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Q. Was net salvage calculated in your depreciation study?

A. Yes. Net salvage rates realized by the Company were developed by taking the
experienced net salvage for the last ten years, exclusive of the highest and lowest net salvage
amounts, and dividing by the original cost of plant retired for the last ten years for each
account. Excluding the highest and lowest net salvage amounts in determining a ten year
average eliminates outliers that can result from the delayed timing of data entry into the
accounting system.

Q. Is the Staff's determination of net salvage for mass property accounts
calculated consistent with the Commission's depreciation policy provided in the Report and
Order for Case No. ER-2004-0570?

A. Yes. The net salvage for mass property accounts is determined using the traditional accrual method. In the traditional accrual method of the depreciation formula, net salvage equals the gross salvage value of the asset minus the cost of removing the asset from service. The net salvage percentage is determined by dividing the net salvage experienced for a period of time by the original cost of the property retired during the same period of time.

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Q. Did the Staff include any net salvage for Production plant accounts?

A. The Production plant accounts have interim net salvage determined using the
 traditional accrual method as explained above. The Staff did not include terminal net salvage
 for the Generation units. This is consistent with the Commission's decision in Case

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1	No. ER-2004-0570, page 53, Report and Order, "Second, with respect to Terminal Net		
2	Salvage of Production Plant Accounts, this Commission generally has not allowed the accrual		
3	of this item. The reason is that generating plants are rarely retired and any allowance for this		
4	item would necessarily be purely speculative."		
5	Q. Were there any plant assets that the Staff assigned depreciation rates on a basis		
6	other than a broad group-average service life depreciation study?		
7	A. Yes. Wind generation assets and nuclear generation assets.		
8	Q. What is the basis for the wind generation assets' depreciation rates?		
9	A. The Company will retain ownership when construction is completed of		
10	approximately 100 MWs of wind generation near Spearville, Kansas, but does not have		
11	historical data for this type of plant. The basis for the 20-year life assigned to these assets		
12	reflects (1) the provision for a 20-year life for wind assets at page 23 of the KCPL regulatory		
13	plan Stipulation and Agreement approved by the Commission and (2) Staff has no basis for		
14	proposing a different average service life.		
15	Q. What is the basis for the Wolf Creek generation plant assets' depreciation		
16	rates?		
17	A. The basis for these rates is the expected extension of the nuclear unit's		
18	operating license from 40 years to 60 years (Schedule 5), plus an allowance for interim net		
19	salvage.		
20	Q. What were the results of Staff's depreciation study?		
21	A. The depreciation rates determined in the Staff's study will decrease the		
22	2 currently ordered depreciation accrual by approximately \$10 million, based on June 30, 2006		
23	Missouri jurisdictional allocated plant-in-service balances.		

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DEPRECIATION RESERVE ANALYSIS

Q. When was the last time the Staff performed a depreciation study for KCPL
 plant assets?

A. The Staff last performed a depreciation study for KCPL plant assets in the mid-1980s for Case No. EO-85-224, with rates authorized in Depreciation Order No. 148, dated June 9, 1986. Depreciation rates were subsequently revised in Case No. EO-94-199 and Case No. EO-2005-0329. In addition, the Company was to begin a \$3.5 million annual amortization on the effective date of the Order for Case No. EO-94-199. Further information regarding this amortization can be found in the direct testimony of Cary G. Featherstone.

9 Q. Please summarize Staff's recommendation for depreciation rates for the
10 Company's plant accounts.

A. The Staff's recommended average service lives, net salvage percentages, and
 depreciation rates for each account are provided in Schedule 3.

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Q. Did Staff analyze the Company's accumulated provision for depreciation?

15 Yes. The revised estimate of average service life and the selected Iowa-type Α. curve are used to compute the "calculated" accumulated depreciation, or theoretical reserve. 16 17 The theoretical reserve is the amount that would be in the accumulated provision for depreciation, or book depreciation reserve, if the depreciation rate corresponding to the 18 19 revised estimates had been applied from the original placement of plant to the date of the 20 study. The theoretical reserve can be thought of as the difference between the original cost of plant currently in service and the summation of annual depreciation expense that is to be 21 22 collected from the study date until the date of final retirement of the account.

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Q. What are the results of your analysis of the book depreciation reserve?

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1	A. My analysis indicates that the book depreciation reserve is over-accrued by		
2	approximately \$800 million. A comparison of the theoretical reserve to the book reserve is		
3	presented in Schedule 4. This comparison, using 12-31-05 plant and accumulated reserve		
4	balances from the company's response to DR 173, is on a total company basis and not		
5	Missouri jurisdictionally allocated plant-in-service basis.		
6	Q. What caused the book depreciation reserve to be over-accrued?		
7	A. Current expectations varying from previous study estimates of average service		
8	life, retirement dispersion pattern, net salvage, and the expected extension of the Wolf Creek		
9	operating license, combined with actual plant experience created the theoretical over-accrual		
10	of the book depreciation reserve.		
11	Q. What are Staff's criteria for an adjustment of an over-accrual of depreciation		
12	reserve?		
13	A. The need for, magnitude of and timing of a reserve imbalance adjustment		
14	should be based on consideration of several factors including the characteristics of the		
15	account, the causes for the difference, the magnitude of the imbalance, and the year-to-year		
16	volatility of the accumulated provision for depreciation.		
17	Q. What is the effect of adjusting an over-accrual of depreciation reserve?		
18	A. An adjustment for an over-accrual of depreciation reserve is a negative		
19	amortization and the effect is an increase to rate base in the revenue requirement.		
20	Q. What is the Staff's recommendation for adjusting the depreciation reserve		
21	over-accrual?		

A. The Staff does not propose an adjustment of the depreciation reserve at this
 time. The depreciation reserve imbalance should again be noted and continued to be
 monitored in future depreciation studies.

4 <u>**RECOMMENDATION**</u>

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Q. Please summarize the Staff's proposal regarding depreciation in this case.

A. The Staff recommends that the Commission order the depreciation rates
proposed in Schedule 2. Additionally, the Commission should note the accumulated
depreciation reserve over-accrual in Schedule 4 and make no adjustment at this time.

9 10 Q. Does this conclude your direct testimony?

A. Yes, it does.

CASE PROCEEDING PARTICIPATION

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ROSELLA L. SCHAD

COMPANY	CASE NO.	ISSUES
	FILING	
Silverleaf Resorts, Inc. and	WO-2005-0206	Depreciation
Algonquin Water Resources of	Rebuttal	
Missouri, LLC	<u> </u>	
Laclede Gas Company	GR-99-315	Depreciation, Cost of Removal,
	Supplemental	and Net Salvage
	Rebuttal	
Laclede Gas Company	GR-99-315	Depreciation, Cost of Removal,
	Supplemental Direct	and Net Salvage
AQUILA, INC. d/b/a AQUILA	ER-2004-0034 and	Production Plant Retirement
NETWORKS-MPS (Electric)	HR-2004-0024	Dates; Accumulated
AND AQUILA NETWORKS – L&P	(Consolidated)	Depreciation; Cost of Removal
(Electric and Steam)	Surrebuttal	and Depreciation
AQUILA, INC. d/b/a AQUILA	GR-2004-0072	Depreciation; Accumulated
NETWORKS-MPS AND AQUILA	Rebuttal	Depreciation; Cost of Removal
NETWORKS-L&P		and Production Plant
		Retirement Dates
AQUILA, INC. d/b/a AQUILA	ER-2004-0034 and	Production Plant Retirement
NETWORKS-MPS (Electric)	HR-2004-0024	Dates; Accumulated
AND AQUILA NETWORKS – L&P	(Consolidated)	Depreciation Reserve Balances;
(Electric and Steam)	Rebuttal	Cost of Removal and
		Depreciation
AQUILA, INC. d/b/a AQUILA	GR-2004-0072	Depreciation and Accumulated
NETWORKS-MPS AND AQUILA	Direct	Depreciation Reserve
NETWORKS-L&P		
AQUILA, INC. d/b/a AQUILA	ER-2004-0034 and	Depreciation and Accumulated
NETWORKS-MPS (Electric)	HR-2004-0024	Depreciation Reserve
AND AQUILA NETWORKS – L&P	(Consolidated)	
(Electric and Steam)	Direct	
Laclede Gas Company	GR-2002-356	Decommissioning
	Rebuttal	
Laclede Gas Company	GR-2002-356	Depreciation
	Direct	
Union Electric Company d/b/a	EC-2002-1	Depreciation; Steam Production
AmerenUE	Surrebuttal	Plant Retirement Dates;
		Decommissioning Costs;
		Callaway Interim Additions
Laclede Gas Company	GR-2001-629	Depreciation
	Direct	
Ozark Telephone Company	TC-2001-402	Depreciation Rates
	Direct	

COMPANY	CASE NO./ FILING	ISSUES
Northeast Missouri Rural Telephone	TR-2001-344	Depreciation Rates
Company	Direct, Surrebuttal	
Oregon Farmers Mutual Telephone	TT-2001-328	Depreciation Rates
Company	Rebuttal	
KLM Telephone Company	TT-2001-120	Depreciation Rates
	Rebuttal	
Holway Telephone Company	TT-2001-119	Depreciation Rates
	Rebuttal	
Peace Valley Telephone Company	TT-2001-118	Depreciation Rates
	Rebuttal	
Iamo Telephone Company	TT-2001-116	Depreciation Rates
	Rebuttal	
Osage Water Company	WR-2000-557	Depreciation
	Direct	
Osage Water Company	SR-2000-556	Depreciation
	Direct	

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Case No. ER-2006-0314 Kansas City Power and Light Company SCHEDULE 2 Depreciation Rate Recommendation

Account

345.00

Accessory Electric Equipment

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Number	Description	Rate
	STEAM PRODUCTION PLANT	
311.00	Structures and Improvements	1.87%
311.00	Structures and Improvements-Hawthorn 5 Rebuild	1.87%
312.00	Boiler Plant Equipment (including trains)	2.35%
312.00	Boiler Plant Equipment-Hawthorn 5 Rebuild	2.35%
314.00	Turbogenerator Units	2.38%
315.00	Accessory Electric Equipment	2.26%
315.00	Accessory Electric Equipment-Hawthorn 5 Rebuild	2.26%
315.00	Accessory Electric Equipment-(like 391)	2.26%
316.00	Miscellaneous Power Plant Equipment	2.80%
316.00	Miscellaneous Power Plant Equipment-Hawthorn 5 Rebuild	2.80%
	NUCLEAR PRODUCTION PLANT	
321.00	Nuc Structures & Improvements	1.75%
322.00	Nuc Reactor Plant Equipment	1.76%
323.00	Nuc Turbogenerator Units	1.70%
324.00	Nuc Accessory Electric Equipment	1.68%
325.00	Nuc Miscellaneous Power Plant Equipment	1.65%
328.00	Nuc Plant Write-Off	1.68%
	OTHER PRODUCTION PLANT	
341.00	Structures and Improvements	1.74%
342.00	Fuel Holders and Accessories	2.8 6 %
344.00	Generators	2.94%
345.00	Accessory Electric Equipment	2.86%
	OTHER PRODUCTION PLANT-WIND	
341.00	Structures and Improvements	5.00%
344.00	Generators	5.00%
345.00	Accessory Electric Equipment	5.00%

Depreciation

Case No. ER-2006-0314 Kansas City Power and Light Company SCHEDULE 2 Depreciation Rate Recommendation

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Account Number	Description	Depreciation Rate
	TRANSMISSION PLANT	
352.00	Structures and Improvements	1.69%
353.00	Station Equipment	1.97%
353.00	Station Equipment-Communication Equipment (like 397)	1.97%
354.00	Towers and Fixtures	1.82%
355.00	Poles and Fixtures	2.29%
356.00	Overhead Conductors and Devices	0.82%
357.00	Underground Conduit	1.67%
358.00	Underground Conductors and Devices	1.67%
	DISTRIBUTION PLANT	
361.00	Structures and Improvements	1.70%
362.00	Station Equipment	1.91%
362.00	Station Equipment-Communication Equipment (like 397)	1.91%
364.00	Poles, Towers and Fixtures	2.18%
365.00	Overhead Conductors and Devices	1.78%
366.00	Underground Conduit	1.95%
367.00	Underground Conductors and Devices	1.60%
368.00	Line Transformers	3.00%
369.00	Overhead Services	3.93%
370.00	Meters	1.77%
371.00	Installations on Customers' Premises	4.28%
373.00	Street Lighting and Signal Systems	5.00%
	GENERAL PLANT	
390.00	Structures and Improvements	1.70%
391.00	Office Furniture and Equipment	3.45%
392.00	Transportation Equipment	7.75%
393.00	Stores Equipment	3.33%
394.00	Tools, Shop and Garage Equipment	2.45%
395.00	Laboratory Equipment	3.26%
396.00	Power Operated Equipment	6.03%
397.00	Communications Equipment	3.33%
398.00	Miscellaneous Equipment	4.50%

Schedule 2-2

Case No. ER-2006-0314 Kansas City Power and Light Company SCHEDULE 3 Depreciation Rate Recommendation

					Staff Prop	osed				Existing Order	ed	
		Adjusted Jurisdictional			•	D ecompletion	•	A 21	loud	Average	Depreciation	Annual
Account	Description	Plant Balance 6/30/2006	ASL (Years)	Curve	Average Net Salvege	Rate	Accrual	(Years)	Curve	Net Selvage	Rete	Accrual
	(2)	(3)	(4)	(5)	(8)	(7)={[100%-(6)]/(4)}	(8)=[(3)*(7)]	(9)	(10)	(11)	(12)	(13)=[(3)*(12)]
	STEAM PRODUCTION PLANT											
311.00	Structures and Improvements	\$ 45,514,273	60.0	R3	-12%	1.67%	\$851,117	30.5		-1%	3.31%	\$1,506,522
311.00	Structures and Improvements-Hawthorn 5 Rebuild	\$ 4,512,625	60.0	83	-12%	1.87%	\$84,386				0.82%	\$37,004
312.00	Boiler Plant Eq. (including trains)	\$ 304,286,464	45.0	R2	-6%	2.35%	\$7,150,732	28.6		-4%	3.63%	\$11,045,599
312.00	Boiler Plant Eq. Hawthorn 5 Rebuild	\$ 119,194,508	45.0	R2	-6%	2.35%	\$2,801,071				0.90%	\$1,072,751
314.00	Turbogenerator Units	\$ 120,289,821	45.0	R2.5	-7%	2.38%	\$2,862,698	32.3		-1%	3.13%	\$3,765,071
315.00	Accessory Electric Eq.	\$ 45,923,978	45.0	L1	-2%	2.26%	\$1,060,482	31.3		-1%	3.23%	\$1,515,644
315 00	Accessory Electric Equipment-Hawthorn 5 Rebuild	\$ 20,020,510	45.0	L1	-2%	2.26%	\$452,464				0.80%	\$160,164
315.00	Accessory Electric Eq(like 391)	\$ 7,655	45.0	L1	-2%	2.26%	\$173	18.4		1%	5.40%	\$413
316.00	Miscellaneous Power Plant Eq.	\$ 13,053,793	36.0	R3	2%	2.80%	\$365,786	28.0		2%	3.50%	\$457,233
316.00	Miscellaneous Power Plant EqHawthorn 5 Rebuild	\$ 1,165,814	36.0	R3	2%	2.80%	\$ <u>32,643</u>				0.87%	\$10,143
	Total Steam Production Plant:	\$ 674,979,449					\$ 15,661,751					\$ 19,570,544
	NUCLEAR PRODUCTION PLANT											
321.00	Nuc Structures & Improvements	\$ 232,471,905	59.5	SQ	-4%	1.75%	\$4,068,258				1.55%	\$3,603,315
322.00	Nuc Reactor Plant Eq.	\$ 388,939,912	59.5	SQ	-5%	1.76%	\$6,845,342				1.73%	\$6,728,660
323.00	Nuc Furbogenerator Units	\$ 94,539,560	59.5	SQ	-1%	1.70%	\$1,607,173				1.96%	\$1,852,975
324.00	Nuc Accessory Electric Eq.	\$ 77,415,819	59.5	sq	0%	1.68%	\$1,300,586				1. 73%	\$1,339,294
325.00	Nuc Miscellaneous Power Plant Eq.	\$ 38,150,311	5 9.5	SQ	2%	1.65%	\$629,480				2.36%	\$900,347
328.00	Nuc Plant Write-Off	<u>\$ (144,993,259</u>)	59.5	SQ	0%-	1.68%	(\$2,435,897)				1,73%	(32,700,265)
	Total Nuclear Production Plant:	\$ 686,524,248					\$ 12,014,952					\$ 11,916,208
	OTHER PRODUCTION PLANT											•
34 1.00	Structures and Improvements	\$ 2,398,024	60.0	R2.5	0%	1.74%	\$41,726	24.3		0%	4.12%	\$96,799
342.00	Fuel Holders, Producers and Access.	\$ 5,755,918	35.0	S 6	0%	2.86%	\$164,619	24.3		0%	4.12%	\$237,144
344.00	Generalora	\$ 139,643,739	35.0	R2.5	-3%	2.94%	\$4,105,526	24.3		0%	4.12%	\$5,753,322
34 5.00	Accessory Electric Equipment	<u>\$ 7,453,976</u>	35.0	R4	0%	2.66%	\$213,184	24.3		0%	4.1276	\$ <u>307,104</u>
	Total Other Production Plant:	\$ 155,251,657					\$ 4,525,055					\$ 5,396,368
	OTHER PRODUCTION PLANT-WIND											
341.00	Structures and Improvements	\$0	20.0	SQ	0%	5.00%	\$0	20.0			5.00%	\$0
343.10	Wind Turbines	\$0	20.0	sq	0%	5.00%	\$0	20.0			5.00%	\$0
345.00	Accessory Electric Equipment	\$ <u>0</u>	20.0	sq	0%	5.00%	\$ 0	20.0			5.00%	۶Ū
	Total Other Production-Wind Plant:	\$0					\$ 0					\$0

Schedule 3-1

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Case No. ER-2006-0314 Kansas City Power and Light Company SCHEDULE 3 Depreciation Rate Recommendation

						Staff Propo	beed				Existing Order	ed		
		1	Adjusted urisdictional											
Account		F	lent Balance	ASL	lowa	Average	Depreciation	Annual	ASL	laws	Average	Depreciation		Annual
Number	Description		6/30/2006	(Years)	Curve	Net Salvage	Rate	Accruat	(Years)	Curve	Net Selvege	Rate		Accrual
	TRANSMISSION PLANT													
352.00	Structures and Improvements	\$	2,367,556	60.0	S1.5	-1%	1.69%	\$40,012	73.5		0%	1.36%		\$32,199
353.00	Slation Eq.	\$	67,304,577	55.0	R1.5	-8%	1.97%	\$1,325,900	42.0		6%	2.24%		\$1,507,623
353.00	Station EqCommunication Eq. (like 397)	\$	3,290,197	55.0	R1.5	-8%	1.97%	\$64,817	38.8		3%	2.50%		\$82,255
354.00	Towers and Fixtures	\$	2,154,273	55.0	L4	0%	1.82%	\$39,208	50.0		0%	2.00%		\$43,085
355.00	Poles and Fixtures	\$	51,674,525	55.0	SQ	-26%	2.29%	\$1,183,347	39.0		-40%	3.59%		\$1,855,115
356.00	Overhead Conductors and Devices	\$	41,665,986	55.0	R2	55%	0.82%	\$341,825	48.D		-49%	3.10%		\$1,292,266
357.00	Underground Conduit	\$	1,645,721	60.0	R5	0%	1.67%	\$27,500	75.5		0%	1.32%		\$21,737
358.00	Underground Conductors and Devices	<u>s</u>	1,509,025	60.0	L4	0%	1.67%	\$ <u>25,201</u>	39.2		0%	2.55%		\$ <u>38,480</u>
	Total Transmission Plant:	\$	171,632,860					\$ 3,047,809					\$	4,872,760
	DISTRIBUTION PLANT													
361.00	Structures and Improvements	\$	5,109,675	0.03	L0.5	-2%	1.70%	\$86,864	33.0		0%	2.96%		\$151,246
362.00	Station Eq.	\$	80,086,584	55.0	R1	-5%	1.91%	\$1,529,654	45.0		10%	2.00%		\$1,601,732
362.00	Station EqCommunication Eq. (like 397)	\$	1,957,923	55.0	R1	-5%	1.91%	\$37,396	38.8		3%	2.50%		\$48,948
364.00	Poles, Towers and Fixtures	\$	114,992,975	55 .0	L1.5	-20%	2.18%	\$2,506,847	32.0		-31%	4.09%		\$4,703,213
365.00	Overhead Conductors and Devices	\$	88,905,798	55.0	LO	2%	1.78%	\$1,582,523	41.0		17%	2.02%		\$1,795,897
366.00	Underground Conduit	\$	74,505,260	60.9	\$0.5	-17%	1.95%	\$1,452,853	75.3		D%	1.33%		\$990,920
367.90	Underground Conductors and Devices	\$	154,828,560	60.0	SO	4%	1.60%	\$2,477,257	65.0		20%	1.23%		\$1,904,391
368.00	Line Transformers	\$	120,066,514	35.0	R2	-55%	3.00%	\$3,601,995	30.0		7%	3.10%		\$3,722,062
369.00	Overhead Services	\$	39,802,369	55.0	R1.5	-116%	3.93%	\$1,564,233	33.8		-6%	3.14%		\$1,249,794
370.00	Meters	\$	46,462,009	55.0	R0.5	3%	1.77%	\$822,392	23.6		-2%	4.31%		\$2,002,547
371.00	Installations on Customers' Premises	\$	6,863,264	25.0	L0.5	-7%	4.28%	\$293,748	10.9		-4%	9.51%		\$652,696
373.00	Street Lighting and Signal Systems	\$	6,928,608	20.0	LO	0%	5.00%	\$346,430	24.4		10%	3.69%		\$255,666
	Total Distribution Plant:	\$	740,510,359					\$ 16,302,193					\$	19,079,113
	GENERAL PLANT													
390.00	Structures and Improvements	\$	29,668,966	60.0	LO	-2%	1.70%	\$504,372	39.4		0%	2.54%		\$753,592
391.00	Office Furniture and Eq.	\$	6,967,949	20.0	R2	31%	3.45%	\$240,394	18.4		1%	5.40%		\$376,269
392.00	Transportation Eq.	\$	15,288,503	10.0	R1.5	22%	7.75%	\$1,184,859	13.3		28%	5.43%		\$830,166
393.00	Stores Eq.	\$	361,039	30.0	R2.5	0%	3.33%	\$12,023	27.1		3%	3.58%		\$12,925
394 00	Tools, Shop and Garage Eq.	\$	1,730,033	40.0	R2.5	2%	2.45%	\$42,405	37.5		2%	2.61%		\$45 175
395.00	Laboratory Eq.	\$	2,561,898	30.0	R2.5	2%	3.26%	\$83,518	29.4		1%	3.37%		\$86.336
396.00	Power Operated Eq.	5	5.855.501	15.D	R1.5	9%	6.03%	\$353.087	16.2		10%	5 55%		\$324 980
397.00	Communications Et.	5	40.305 253	30.0	\$0	0%	3.33%	\$1.342.165	38 B		396	2 50%		\$1.007.524
398 80	Miscellaneous Eq.	s	111.674	20.0	L0	18%	4.50%	\$5,025	31.3		1%	3.16%		\$3,520
			102 851 616					\$ 3767 848						2 440 60-
	Total Plant:	\$	2,531,750,169					\$55,319,609					•	3,990,003 \$65,275,596
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Case No. ER-2006-0314 Kansas City Power and Light Company SCHEDULE 4 Depreciation Rate Recommendation

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Account Number	Description	T	otal Company Accumulated Reserve 12/31/2005	Т	otal Company Theoretical Reserve 12/31/2005
(1)	(2)		(3)		(4)
	STEAM PRODUCTION PLANT				
311.00	Structures and Improvements		\$47,322,511		\$27,657,192
311.00	Structures and Improvements-Hawthorn 5 Rebuild				
312.00	Boiler Plant Eq. (including trains)		\$559,574,711		\$231,348,628
312.00	Boiler Plant EqHawthorn 5 Rebuild				
314.00	Turbogenerator Units		\$88,817,586		\$74,815,123
315.00	Accessory Electric Eq.		\$54,446,464		\$23,998,533
315.00	Accessory Electric Equipment-Hawthorn 5 Rebuild				
315.00	Accessory Electric Eq(like 391)				
316.00	Miscellaneous Power Plant Eq.		\$12,335,826		\$7,927,336
316.00	Miscellaneous Power Plant EqHawthorn 5 Rebuild				
	Total Steam Production Plant:	\$	762,497,098	\$	365,746,812
	NUCLEAR PRODUCTION PLANT				
321.00	Nuc Structures & Improvements		\$221,413,939		\$144,922,823
322.00	Nuc Reactor Plant Eq.		\$349,254,022		\$287,101,367
323.00	Nuc Turbogenerator Units		\$105,027,578		\$58,543,586
324.00	Nuc Accessory Electric Eq.		\$64,504,176		\$45,403,725
325.00	Nuc Miscellaneous Power Plant Eq.		\$15,320,030		\$17,080,989
328.00	Nuc Plant Write-Off		(\$ 73 ,6 4 3,0 <u>05</u>)		(<u>\$45,111,419</u>)
	Total Nuclear Production Plant:	\$	681,876,740	\$	507,941,071
	OTHER PRODUCTION PLANT				
341.00	Structures and Improvements		\$175,309		\$108,307
342.00	Fuel Holders, Producers and Access.		\$1,910,669		\$1,671,632
344.00	Generators		\$57,089,412		\$46,310,480
345.00	Accessory Electric Equipment		\$ <u>6,129,800</u>		\$ <u>4,487,787</u>
	Total Other Production Plant:	\$	65,305,190	\$	52,578,206
	OTHER PRODUCTION PLANT-WIND				
341.00	Structures and improvements		\$0		\$0
343.10	Wind Turbines		\$0		\$0
345.00	Accessory Electric Equipment		\$ <u>0</u>		\$ <u>0</u>
	Total Other Production-Wind Plant:		\$0		\$0

Case No. ER-2006-0314

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Kansas City Power and Light Company

SCHEDULE 4 Depreciation Rate Recommendation

Account Number	Description	T 	otal Company Accumulated Reserve 12/31/2005	т	otal Company Theoretical Reserve 12/31/2005	
	TRANSMISSION PLANT					
352.00	Structures and Improvements		\$1,389,376		\$1,332,012	
353.00	Station Eq.		\$51,712,539		\$32,743,726	
353.00	Station EqCommunication Eq. (like 397)					
354.00	Towers and Fixtures		\$3,370,944		\$2,318,281	
355.00	Poles and Fixtures		\$45,401,632		\$24,099,254	
356.00	Overhead Conductors and Devices		\$38,537,295	\$9,090,513		
357.00	Underground Conduit		\$1,783,775	\$1,728,986		
358.00	Underground Conductors and Devices		\$ <u>1,897,456</u>	\$ <u>1,644,646</u>		
	Total Transmission Plant:	\$	144,093,017	\$	72,957,418	
	DISTRIBUTION PLANT					
361.00	Structures and Improvements		\$3,784,727		\$1,901,881	
362.00	Station Eq.		\$51,058,589		\$32,452,794	
362.00	Station EqCommunication Eq. (like 397)					
364.00	Poles, Towers and Fixtures		\$104,347,129		\$55,255,703	
365.00	Overhead Conductors and Devices		\$52,859,315		\$23,191,555	
366.00	Underground Conduit		\$27,063,804		\$32,086,423	
367.00	Underground Conductors and Devices		\$79,367,969		\$47,287,772	
368.00	Line Transformers		\$86,835,045		\$71,679,826	
369.00	Overhead Services		\$33,718,923		\$36,262,884	
370.00	Meters		\$42,036,556		\$13,822,529	
371.00	Installations on Customers' Premises		\$8,636,880		\$2,162,817	
373.00	Street Lighting and Signal Systems		\$5,930,602	\$ <u>9,386,823</u>		
	Total Distribution Plant:	\$	495,639,539	\$	325,491,007	
	GENERAL PLANT					
390.00	Structures and Improvements		\$16,615,157		\$7,628,448	
391.00	Office Furniture and Eq.		\$4,660,754		\$3,593,092	
392.00	Transportation Eq.		\$2,669,714		\$2,450,105	
393.00	Stores Eq.		\$462,798		\$285,885	
394.00	Tools, Shop and Garage Eq.		\$1,813,210		\$1,140,228	
395.00	Laboratory Eq.		\$1,994,206		\$1,599,892	
396.00	Power Operated Eq.		\$831,635		\$835,864	
397.00	Communications Eq.		\$11,154,325		\$16,166,617	
398.00	Miscellaneous Eq.		\$ <u>106,412</u>		\$ <u>66,064</u>	
	Total General Plant:	\$	40,308,211	\$	33,766,195	
	Total Plant:		\$ <u>2,189,719,795</u>	\$	1,358,480,709	

OVER-ACCRUAL: [\$2,189,719,795 - \$1,358,480,709]

\$<u>831,239,086</u>



Richard A. Musnch President and Chief Executive Officer

JUL 2 2 2003

WM 03-0029

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555

Subject:

Docket: 50-482: Advance Notification of Intent to Pursue License Renewal

Gentiemen:

The Strategic Teaming and Resource Sharing (STARS)¹ plants are assessing the feasibility to jointly prepare, submit and support the review of license renewal applications for selected STARS plants. Not all STARS plants have made a decision to pursue license renewal at this time. Nuclear Regulatory Commission (NRC) Regulatory Issue Summary (RIS) 2003-02, "Importance of Giving NRC Advance Notice of Intent to Pursue License Renewal," dated February 3, 2003, requested licensees to provide a voluntary submission of licensee plans regarding license renewal. This voluntary submission is intended to assist the NRC in its budgeting and planning process.

This letter provides notification of Wolf Creek Nuclear Operating Corporation's (WCNOC) and its owners', Kansas Gas and Electric Company, Kansas City Power & Light Company, and Kansas Electric Power Cooperative, Inc., intent to pursue license renewal for Wolf Creek Generation Station (WCGS), Unit 1.

The WCGS Facility Operating License, License No. NPF-42, will expire at midnight on March 11, 2025. WCNOC intends to submit a license renewal application in accordance with 10 CFR Part 54 in September of 2006.

¹ STARS consists of six plants operated by TXU Generation Company LP, AmerenUE, Wolf Creek Nuclear Operating Corporation, Pacific Gas and Electric Company, STP Nuclear Operating Company and Arizona Public Service Company.

P.O. Box 411 / Burlington, KS 66839 / Phone: (620) 384-8831 An Equal Opportunity Employer M/F/HC/VET

Schedule 5

WM 03-0029 Page 2 of 2

If you have any questions concerning this matter, please contact me at (620) 364-4000, or Mr. Kevin Moles at (620) 364-4126.

Very truly yours,

Mend

Richard A. Muench

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cc: J. N. Donohew (NRC) D. N. Graves (NRC) T. P. Gwynn (NRC) Senior Resident Inspector (NRC)

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