131

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

2

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

540 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.



Auzillankin

1	TABLE OF CONTENTS OF		
2	DIRECT TESTIMONY OF		
3	ROSELLA L. SCHAD, P.E., C.P.A.		
4	KANSAS CITY POWER & LIGHT COMPANY		
5	CASE NO. ER-2006-0314		
6	EXECUTIVE SUMMARY		
7	DEPRECIATION ISSUES 4		
8	DEPRECIATION STUDY 4		
9	DEPRECIATION RESERVE ANALYSIS 10		
10	RECOMMENDATION 12		
11			

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		

- -

ī,

Page 1

Ţ

:

ļ

ļ

ļ

ī

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			

• •---•

23 interpretation of results.

¢

ç

i

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			

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

20 following equation:

21

18

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

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

ţ

1 1

Ι

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	Q. What is the definition of depreciation?			

2

•

ī

i T

. 1

1

i

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				

÷

;

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.			

1

i

|

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.

7

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.

5

4

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.

20

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

ı.

1

÷

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	currently ordered depreciation accrual by approximately \$10 million, based on June 30, 2006			
23	Missouri jurisdictional allocated plant-in-service balances.			

- ----

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.

13

14

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.

23

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

7

.

|

1

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>

5

I

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

ĩ

ł

.

ROSELLA L. SCHAD

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

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	

.

- - ----

I

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

Account

Т

I

i

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	2.86%
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

-

...

1

ł

ı.

÷

i

ł

į

ł

;

Account Number	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

Account Number Number (Number (Number) Description (Number (Number) Pain Name (Number) Add (Number) Image Number (Number) Add (Number) Add (Number) <th></th> <th></th> <th></th> <th></th> <th></th> <th>Staff Prop</th> <th>osed</th> <th></th> <th></th> <th></th> <th>Existing Order</th> <th>red</th> <th></th>						Staff Prop	osed				Existing Order	red	
Accord Part Hance (s) 10% Arrage (ref) Depending (ref) (ref) <thdepending (ref)<="" th=""> Depending (ref)</thdepending>													
Joint (1) Joint (2) (3) (4) (5) (9) (7)-q198X-69/40 (9) (9) (19) (11) (12) (13) 31100 Structures and Improvements \$ 4,551,223 67.0 82.3 1,375 1,875 1,875 1,843,386 0,82% 31100 Structures and Improvements \$ 4,551,223 67.0 82.3 1,875 1,843,386 0,82% 31200 Bater Phant Eq. (backdog tarwo) \$ 304,286,444 45.0 82.3 47.100,771 0,97% 31400 Turopoperator Vision \$ 302,288,21 45.0 82.2 47% 2.33% 12,802,896 32.2 1% 3,37% 31600 Accessory Electric Eq. (larghormer Hamel Eq. Handmorn S Robald \$ 20,205,781 45.0 1.1 -27% 2.23% 13,206,421 31.3 -4% 3,23% 31600 Maccelanesus Power Hamel Eq. \$ 1,23,62,783 30.0 83.2 2,26% 13072 18.4 1% 5,67%		Description	Plant Balance				•						Annual Accrual
STEM STEM Structures and improvements \$\$<							(7)={[100%-(6)]/(4)}	(8)=[(3)*(7)]	(9)	(10)	(11)	(12)	(13)=[(3)*(12)]
31100 Structures and improvements 1 4 51122 600 43 -12% 1.67% 5851,127 30.5 -1.% 331% 31100 Structures and improvements 1 4,512,625 600 720 -1.2% 1.67% 584,365 0.62% 0.62% 31200 Boler Plent Eq. (Huiding Yam) 1 4,512,625 600 720 65% 2,23% 512,013,723 28.6 4% 0.62% 31200 Boler Plent Eq. (Huiding Yam) 1 119,184,568 450 720 2.65% 57,103,723 28.6 4% 0.65% 31200 Rober Plent Eq. (Huiding Yam) 1 120,200,518 450 1.1 -7% 2.26% 510,014,82 3.3 -1% 3.37% 31500 Accessory Electric Eq. (Huiding Yam) 1 7,655 450 1.1 -7% 2.26% 513,73 18.4 1% 540% 31600 Maccelaneon Polem Eleg (Listendon TS Rebuld) 1 1.15,614 360 743 2.26% 517,73 18.4 1% 540% 3100 M													
10.10 Subscription Subscription 1 4,512,625 600 #03 1.2% 1.87% 549,365 4.5% 363% 10100 Subscription Statute's and inprovements' intention 5 304,284,44 450 #22 4% 2.35% 52,101,071 -05% 10100 Subscription Statute's and inprovements' intention 5 102,026,821 450 #22 4% 2.35% 52,802,298 32.3 -1% 3.13% 31500 Accessory Electric Eq. 5 46,523,378 450 L1 -3% 2.26% 51,080,482 31.3 -1% 3.22% 31500 Accessory Electric Eq. 5 13,083,783 450 L1 -3% 2.26% 51,080,482 31.3 -1% 3.25% 31500 Accessory Electric Eq. 5 13,083,783 360 #3 2% 2.00% 305,786 28.0 2% 305% 31500 Accessory Electric Eq. 5 674,973,440 5 75% 1,73% 32,643 0.8% 32,643 0.8% 32,645 0.8% <td></td> <td>·</td> <td>\$ 45.514.273</td> <td>3 60.0</td> <td>R3</td> <td>-12%</td> <td>1.67%</td> <td>\$851,117</td> <td>30.5</td> <td></td> <td>-1%</td> <td>3.31%</td> <td>\$1,506,522</td>		·	\$ 45.514.273	3 60.0	R3	-12%	1.67%	\$851,117	30.5		-1%	3.31%	\$1,506,522
371-00 December 15, (including traine) 1 394,265,484 450 R2 -6% 2.35% \$7,150,732 2.6.6 -4% 9.63% 372-00 Boler Plant E, (including traine) 1 19,943,808 450 R2 -6% 2.35% \$2,200,90 32.3 -1% 3.13% 374.00 Turbogenerator Unition 1 19,943,808 450 R2 -6% 2.35% \$2,200,90 32.3 -1% 3.13% 374.00 Turbogenerator Unition 1 19,943,808 450 R2 -7% 2.26% \$1,050,482 31.3 -1% 3.27% 375.00 Accessory Electric E, (46, 931) 1 7,655 45.0 L1 -2% 2.26% \$152,642 0.60% 376.00 Accessory Electric E, (46, 931) 1 7,655 45.0 R3 2% 2.60% \$352,642 0.60% 0.60% 376.00 Accessory Electric E, (46, 931) 1 7,655 7,65 7,745 2.60% \$352,643 0.67% 0.67% 376.00 Maccelaneoux Plexet Equipment Hawrhorn 5 Rebuild <					83	-12%	1.87%	\$84,386				0.82%	\$37,004
01000 Date Mark Eq. (Heading Factor) 0 1100 100 00000 1000000000000000000000000000000000000					R2	-6%	2.35%	\$7,150,732	28.6		-4%	3.63%	\$11,045,599
0 0							2.35%	\$2,801,071				0.90%	\$1,072,751
1.1000gregeration Units 0 1.000gregeration Units 0 1.11 -2.26 \$1,060,482 31.3 -1.% 1.23% 315:00 Accessory Electric Eq. (ike 391) \$ 0.600,518 45.0 1.1 -2.% 2.26% \$1,060,482 31.3 -1.% 0.23% 315:00 Accessory Electric Eq. (ike 391) \$ 7.655 45.0 1.1 -2.% 2.26% \$173 18.4 1% 5.40% 316:00 Miscelaneoux Power Hent Eq. (ike 391) \$ 7.655 45.0 1.1 -2.% 2.26% \$173 18.4 1% 5.40% 316:00 Miscelaneoux Power Hent Eq. \$ 1.065,514 36.0 R3 2.% 2.80% \$32,643 0.87% 0.85% 0.75% 0								\$2,862,898	32.3		-1%	3.13%	\$3,765,071
31500 Accessory Electric Equipment, Harrhorn 5 Rebuild \$ 40,00,01 40,00,01 450 40,00,01 450 40,00,01 450 40,00,01 450 40,00,01 450 40,00,01 450 41,00,01 450 41,00,01 450 41,00,01 450 41,00,01 450 450 450 450,00 450 450 450,00 40,00 450,00 40,00 450,00 450,00	-										-1%	3.23%	\$1,515,644
315.00 Accessory Electric Eq. (bike 391) \$ Excessory Electric Eq. (bike 391) \$ 7.500 Accessory Electric Eq. (bike 391) \$ 7.500												0.80%	\$160,164
315.00 Accessory (lectine Eq. (lecting 93)) \$ \$ 1,000 Column				-					18.4		1%	5.40%	\$413
316.00 Miscelaneous Power Plant Eq. 5 1,3,06,3,78.3 3,60.0 R3 2.% 2,80% 532,64.3 0000 Total Steam Production Plant: 5 674,979,449 5 13,06,378.3 3,60.0 R3 2.% 2,80% 532,643 0000 NUCLEAR PRODUCTION PLANT S S 15,661,751 007% NUCLEAR PRODUCTION PLANT S S 15,661,751 007% NUCLEAR PRODUCTION PLANT S S 15,661,751 007% NUCLEAR PRODUCTION PLANT S 232,000, Nuc Reactor Plant Eq. \$ S 1,73% 322,000 Nuc Reactor Plant Eq. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 316,000 \$												3.50%	\$457,233
31800 Medicate Que Poider Frank Que Mandel of Poider Poider Frank Que Mandel of Poider Poider Poider Frank Que Mandel of Poider Poider Poider Grank Que Mandel of Poider Poider Poider Of Poider Poider Of Poider Poider Of Poider Poider Poider Frank Que Mandel of Poider Poider Poider Of Poider Poider Of Poider Poider Poider Poider Poider Poider Poider Poider Frank Que Mandel of Poider Poi									2010			0.87%	\$ <u>10,143</u>
NUCLEAR PRODUCTION PLANT 32100 Nuc Sinctures & Improvements \$ 232471,905 59.5 SQ 4% 1,75% 54,068,258 1.55% 32200 Nuc Reactor Plant Eq. \$ 388,939,912 59.5 SQ -5% 1.76% 56,845,342 1.73% 32300 Nuc Reactor Plant Eq. \$ 388,939,912 59.5 SQ -5% 1.76% 56,845,342 1.73% 32300 Nuc Reactor Plant Eq. \$ 386,939,912 59.5 SQ -1% 1.70% 51,607,173	scellanaous Power			-									\$ 19,570,544
32100 Nuc Structures & Improvements \$ 232,471,905 59.5 SQ 4% 1,75% \$4,068,258 1,55% 322.00 Nuc Reactor Plant Eq. \$ 386,939,912 59.5 SQ -5% 1,76% \$6,845,342 1,73% 323.00 Nuc furbogenerator Units \$ 94,539,560 59.5 SQ -1% 1,70% \$1,607,173 1,96% 324.00 Nuc Accessory Electric Eq. \$ 77,415,819 59.5 SQ 0% 1,68% \$1,300,586 1,73% 325.00 Nuc Maceflaneous Power Plant Eq. \$ 381,50,311 69.5 SQ 2% 1.65% \$629,460 2.36% 328.00 Nuc Maceflaneous Power Plant Eq. \$ 381,50,311 69.5 SQ 2% 1.65% \$629,460 2.36% 328.00 Nuc Plant Write-Off \$ (144,993,259) 59.5 SQ 0% 1.58% (12,135,867) 1.73% Total Nuclear Production Plant \$ 686,524,248 * \$ 1,204,4952 \$ 1,73% OTHER PRODUCTION PLANT * \$ 2,396,024 60.0 R2.5 0% 1.74% \$ 41,726		Total Steam Production Plant:	s 674,979,449	3				a 13,001,751					
32100 Nuc Structures & Improvements \$ 222,471,003 333 50 4,10 1,104 50,0000 32200 Nuc Reactor Plant Eq. \$ 388,939,912 59.5 SQ -5% 1,76% \$6,845,042 1,73% 32300 Nuc Turbogenerator Units \$ 94,539,560 59.5 SQ -1% 1,70% \$1,607,173 1,96% 32400 Nuc Accessory Electric Eq. \$ 77,415,819 59.5 SQ 0% 1,66% \$1,300,566 1,73% 32500 Nuc Misceflaneous Power Plant Eq. \$ 38,150,311 69.5 SQ 2% 1,65% \$629,480 2,36% 32800 Nuc Plant Write-Off \$ (144,993,259) 59.5 SQ 0% 1,66% \$2,453,897 1,73% Total Nuclear Production Plant: \$ (144,993,259) 59.5 SQ 0% 1,66% \$2,453,897 1,73% Total Nuclear Production Plant: \$ (144,993,259) 59.5 SQ 0% 1,66% \$2,453,897 1,73% Total Nuclear Production Plant: \$ (144,993,259) 59.5 SQ 0% 1,74%	UCLEAR PRODUC	DUCTION PLANT											ta con 315
322.00 Nuc Reactor Plant Eq. 5 363,33,51,2 353 54 50 11000 1100 11000	uc Structures & Imp	Improvements	\$ 232,471,90	5 59.5	SQ								\$3,603,315
32300 Nuc Turbogenerator Units 5 34,39,300 39.5 30 11,101 11,0	uc Reactor Plant Ec	nt Eq.	\$ 388,939,91	2 59.5	SQ	-5%							\$6,728,660
324.00 Nuc Accessory Electric Eq. \$ 7/74/58/9 3a.3 64 67.0 1.0012 1.0012 1.0012 325.00 Nuc Miscellaneous Power Plant Eq. \$ 38/150,311 59.5 SQ 2% 1.65% \$629,480 2.36% 328.00 Nuc Plant Write-Off \$ (144,993,259) 59.5 SQ 0% 1.66% (52,435,897) 1.73% Total Nuclear Production Plant: \$ 686,524,248 * \$ 12,014,952 \$ 1.73% OTHER PROSUCTION PLANT \$ 686,524,248 * \$ 1,214/4,952 \$ 1.73% 341.00 Structures and Improvements \$ 2,398,024 60.0 R2.5 0% 1.74% \$41,726 24.3 0% 4.12% 342.00 Fuel Holders, Producers and Access. \$ 5,755,918 35.0 S6 0% 2.66% \$164,619 24.3 0% 4.12% 344.00 Generation \$ 139,643,739 35.0 R4 0% 2.94% \$24,105,526 24.3 0% 4.12	us furbogenerator	lior Units	\$ 94,539,56	D 59.5	so								\$1,852,975
32500 Nuc Miscelfaneous Power Plant Eq. 5 36,100,511 95,3 50 100 10000 10000 100	uc Accessory Electi	lectric Eq.	\$ 77,415,81	9 59.5	sq	0%	1.68%						\$1,339,294
328.00 Nuc Plant Write-Off 5 1 </td <td>uc Miscellaneous P</td> <td>us Power Plant Eq.</td> <td>\$ 38,150,31</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$900,347 dtp.505 364</td>	uc Miscellaneous P	us Power Plant Eq.	\$ 38,150,31										\$900,347 dtp.505 364
OTHER PRODUCTION PLANT \$ 050,544,245 60.0 R2.5 0% 1.74% \$41,726 24.3 0% 4.12% 341.00 Structures and Improvements \$ 2,390,024 60.0 R2.5 0% 1.74% \$41,726 24.3 0% 4.12% 342.00 Fuel Holders, Producers and Access. \$ 5,756,918 35.0 86 0% 2.86% \$164,619 24.3 0% 4.12% 344.00 Generation \$ 139,643,739 35.0 R2.5 -3% 2.94% \$4,105,526 24.3 0% 4.12% 345.00 Accessory Electric Equipment \$ 7,453,976 35.0 R4 0% 2.86% \$213,184 24.3 0% 4.12%	uc Plant Write-Off	D#	<u>\$ (144,993,25</u>	9) 59.5	SQ	0%-	1.58%	(\$2,435,887)				1,7376	(\$2,508,383)
341.00 Structures and Improvements \$ 2,398,024 60.0 R2.5 0% 1.74% \$41,726 24.3 0% 4.12% 342.00 Fuel Holders, Producers and Access. \$ 5,756,918 35.0 S6 0% 2.86% \$164,619 24.3 0% 4.12% 344.00 Generatora \$ 139,643,739 35.0 R2.5 -3% 2.94% \$4,105,526 24.3 0% 4.12% 345.00 Accessory Electric Equipment \$ 7,453,976 35.0 R4 0% 2.86% \$213,184 24.3 0% 4.12%		Total Nuclear Production Plant:	\$ 686,524,24	8				\$ 12,014,952					\$ 11,916,208
341.00 Structures and Improvements \$ 2,398,024 60.0 R2.5 0% 1.74% \$41,726 24.3 0% 4.12% 342.00 Fuel Holders, Producers and Access. \$ 5,756,918 35.0 S6 0% 2.86% \$164,619 24.3 0% 4.12% 344.00 Generatora \$ 139,643,739 35.0 R2.5 -3% 2.94% \$4,105,526 24.3 0% 4.12% 345.00 Accessory Electric Equipment \$ 7,453,976 35.0 R4 0% 2.86% \$213,184 24.3 0% 4.12%	THER PRODUCTIO	CTION PLANT											
342.00 Fuel Holders, Producers and Access. \$ 5,745,918 30.5 60 70.6 60.6<	ructures and Impro	nprovements	\$ 2,398,02	4 60.0	R2.5	0%	1.74%	\$41,726	24.3		0%	4.12%	\$98,799
344.00 Generations \$ 139,643,739 35.0 R2.5 -3% 2.94% \$4,105,526 24.3 0% 4.12% 345.00 Accessiony Electric Equipment \$ 7,453,976 35.0 R4 0% 2.86% \$213,184 24.3 0% 4.12%	uel Holders, Produc	ducers and Access.	\$ 5,755,91	8 35.0	S 6	0%	2.86%	\$164,619	24.3		0%	4.12%	\$237,144
345.00 Accessory Electric Equipment \$ 7,453,976 35.0 R4 0% 2.86% \$213,184 24.3 0% 4.12%			\$ 139,643,73	9 35.0	R2.5	-3%	2.94%	\$4,105,526	24.3		0%	4.12%	\$5,753,322
Total Other Production Plant: \$ 155,251,657 \$ 4,525,055 \$		ic Equipment	<u>\$ 7,453,97</u>	<u>6</u> 35.0	R4	0%	2.86%	\$213,184	24.3		0%	4.12%	\$307,104
		Total Other Production Plant:	: \$ 155,251,65	7				\$ 4,525,055					\$ 5,396,368
OTHER PRODUCTION PLANT-WIND	THER PRODUCTION	CTION PLANT-WIND											
341.00 Structures and Improvements. \$0 20.0 SQ 0% 5.00% \$0 20.0 5.00%			\$	0 20.0	sq	0%	5.00%	\$0	20.0			5.00%	\$0
34.1.0 Subsules and important 343.10 Wind Turbines \$0 20.0 SQ 0% 5.00% \$0 20.0 5.00%			\$	0 20.0	sq	0%	5.00%	\$0	20.0			5.00%	\$0
345.00 While followers 345.00 Accessory Electric Equipment \$0 20.0 SQ 0% 5.00% \$0 20.0 5.00%		ic Equipment	\$	<u>0</u> 20.0	sq	0%	5.00%	\$ <u>0</u>	20.0			5.00%	\$ <u>0</u>
Total Other Production-Wind Plant: \$0 \$0			r: \$	0				\$ 0					\$0

Schedule 3-1

.

- -

÷

.

•1

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

						Staff Propo	sed				Existing Order	red	
			usted lictional										
Account			Balance	ASL	lowa	Average	Depreciation	Annual	ASL	laws	Average	Beprecistion	Annual
Number	Description		/2006	(Yeara)	Curve	Net Salvage	Rate	Accrual	(Years)	Curve	Net Selvege	Rate	Accrual
	TRANSMISSION PLANT												
352.00	Structures and Improvements	s :	2,367,556	60.0	S1.5	-1%	1.69%	\$40,012	73.5		0%	1.36%	\$32,199
353.00	Station Eq.	\$ 61	7,304,577	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	3,290,197	55.0	R1,5	-8%	1.97%	\$64,817	38.8		3%	2.50%	\$82,255
354.00	Towers and Fixtures	s :	2,154,273	55.0	L4	0%	1.82%	\$39,208	50.0		0%	2.00%	\$43,095
355.00	Poles and Fixtures	\$ 51	1,674,525	55.0	ŝQ	-26%	2.29%	\$1,183,347	39.0		-40%	3.59%	\$1,855,115
356.00	Overhead Conductors and Devices		1,665,986	55.0	R2	55%	0.82%	\$341,825	48.0		-49%	3.10%	\$1,292,256
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%	\$25,201	39.2		0%	2.55%	\$38,480
	Total Transmission Plant:	\$ 171	,632,860					\$ 3,047,809					\$ 4,872,760
	DISTRIBUTION PLANT						4 101	* **					
361.00	Structures and improvements		5,109,675	60.0	L0.5	-2%	1.70%	\$86,864	33.0		0%	2.96%	\$151,246
362.00	Station Eq.		0,086,584	55.0	R1	-5%	1.91%	\$1,529,654	45.0		10%	2.00%	\$1,601,732
362.00	Station EqCommunication Eq. (like 397)		957,923	55.0	R1	-5%	1.91%	\$37,396	38.8		3%	2.50%	\$48,948
364.00	Poles, Towers and Fixtures		1,992,975	55.0	L1.5	-20%	2.18%	\$2,506,847	32.0		-31%	4.09%	\$4,703,213
365.00	Overhead Conductors and Devices		8,905,798	55.0	LO	2%	1.78%	\$1,582,523	41.0		17%	2.02%	\$1,795,897
366.00	Underground Conduit		1,505,200	60.9	\$0.5	-17%	1.95%	\$1,452,853	75.3		D%	1.33%	\$990,920
367.90	Underground Conductors and Devices		.828,560	60.0	80	4%	1.60%	\$2,477,257	65.0		20%	1.23%	\$1,904,391
368.00	Line Transformers		0,066,514	35.0	R2	-55%	3.00%	\$3,601,995	30.0		7%	3.10%	\$3,722,062
369.00	Overhead Services		1,802,369	55.0	R1.5	-116%	3.93%	\$1,564,233	33.8		-6%	3.14%	\$1,249,794
370.00	Meters		6,462,609	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 20.0	L0.5 L0	-7% 0%	4.28% 5.00%	\$293,748	10.9		-4%	9.51%	\$652,696
373.00	Street Lighting and Signal Systems		5,928,608	20.0	60	076	3.00%	\$346,430	24.4		10%	3.69%	\$ <u>255,666</u>
	Total Distribution Plant:	\$ 740),510,359					\$ 16,302,193					\$ 19,079,113
	GENERAL PLANT												
390.00	Structures and Improvements	\$ 29	1,668, 96 6	60.0	LO	-2%	1.70%	\$504,372	39.4		0%	2.54%	\$753,592
391.00	Office Furniture and Eq.	\$6	6,967,949	20.0	R2	31%⊾	3.45%	\$240,394	18.4		1%	5.40%	\$376,269
392.00	Transportation Eq.	\$ 15	5,288,503	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	,7 30,033	40.0	R2.5	2%	2.45%	\$42,405	37.5		2%	2.61%	\$45,175
395.00	Laboratory Eq.	\$ 2	2,561,098	30.0	R2.5	2%	3.26%	\$83,518	29.4		1%	3.37%	\$86,336
396.00	Power Operated Eq.	\$ 5	6,855,501	1 5 .0	R1.5	9%	6.03%	\$353,087	16.2		10%	5.55%	\$324,980
397.00	Communications Eq.	\$ 40	,305,253	30.0	SO	0%	3.33%	\$1,342,165	38.8		3%	2.50%	\$1,007,631
398.00	Miscelaneous Eq.	<u>\$</u>	111,674	20.0	F0	18%	4.50%	\$5,025	31.3		1%	3.16%	\$3,529
	Total General Plant:	\$ 102	2,851,616					\$ 3,767,848					\$ 3,440,603
	Total Plant:	\$ 2,531	750,169					\$55,319,609					\$65,275,596

-

•

•

Case No. ER-2006-0314 Kansas City Power and Light Company SCHEDULE 4 Depreciation Rate Recommendation

ł

1

.

Account Number	Description	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	(<u>\$73,643,005</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>D</u>		\$ <u>0</u>
	Total Other Production-Wind Plant:	\$0		\$0

Case No. ER-2006-0314

s

ļ

Kansas City Power and Light Company

SCHEDULE 4 Depreciation Rate Recommendation

Account Number	Description	Total Company Accumulated Reserve 12/31/2005	Total 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)	401,712,000	\$32,143,120
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		
357.00		\$38,537,295	\$9,090,513
358.00	Underground Conduit Underground Conductors and Devices	\$1,783,775 \$1,897,455	\$1,728,986 \$1,644,646
000.00	Total Transmission Plant:	\$ 144,093,017	
361.00	DISTRIBUTION PLANT 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)	401,000,000	402,402,104
364.00	Poles, Towers and Fixtures	\$104 247 120	\$55,255,703
365.00	Overhead Conductors and Devices	\$104,347,129	
366.00		\$52,859,315	\$23,191,555
367.00	Underground Conduit	\$27,063,804	\$32,086,423
	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 Total Distribution Plant:	\$ <u>5,930,602</u> \$ 495,639,539	\$ <u>9,386,823</u> \$ 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:	\$2,189,719,795	\$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

RAM/rig

. . **.**,

. . .

. . . .

÷

I

1

ì

÷

ţ

I

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

• • • • • • •

• • • • • • • • • • •

Schedule 5 - 2