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MISSOURI PUBLIC SERVICE COMMISSION

CASE NO.: ER-2010-0355

REBUTTAL TESTIMONY

OF

SAMUEL C. HADAWAY

ON BEHALF OF

KANSAS CITY POWER & LIGHT COMPANY

December 2010

REBUTTAL TESTIMONY

OF

SAMUEL C. HADAWAY

Case No. ER-2010-0355

1 I. INTRODUCTION AND SUMMARY OF RECOMMENDATIONS

- 2 **Q.** Please state your name and business address.
- 3 A. My name is Samuel C. Hadaway and my business address is FINANCO, Inc.,
- 4 3520 Executive Center Drive, Suite 124, Austin, Texas 78731.
- 5 Q. Are you the same Samuel C. Hadaway who filed Direct Testimony in this
 6 matter?
- 7 A. Yes.

8 Q. What is the purpose of your rebuttal testimony?

9 A. The purpose of my rebuttal testimony is to respond to the rate of return on equity 10 ("ROE") recommendations offered by Missouri Public Service Staff ("Staff") 11 witness David Murray and Michael P. Gorman on behalf of the Midwest Energy 12 Users Association, Missouri Industrial Energy Consumers, and United States 13 Department of Energy ("MEAU", et al). In my analysis, I will respond to their 14 rate of return recommendations and demonstrate that their recommendations are 15 not consistent with the ongoing effects of the recent financial turmoil or the 16 continuing high cost of equity for electric utilities like KCP&L. I will also 17 respond to the other witnesses' comments on the methodology I used in my Direct 18 Testimony to estimate KCP&L's cost of equity and I will update my ROE analysis 19 for current market costs and conditions.

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II. OVERVIEW OF PARTIES' RECOMMENDATIONS

2 Q. What are the parties' ROE recommendations?

A. Mr. Murray recommends an ROE range of 8.5 percent to 9.5 percent and Mr.
Gorman recommends an ROE of 9.65 percent. My updated DCF analysis
indicates a range of 10.2 percent to 10.8 percent. As I will explain later, I
discount the results of my risk premium analysis because those results are
negatively skewed by the government's continuing expansionary monetary
policies. As I will describe in my discussion of my updated ROE analysis, the
Company is reducing its requested ROE from 11.0 percent to 10.75 percent.

10Q.What is your general assessment of the other parties' ROE11recommendations?

12 A. Their recommendations are well below KCP&L's market cost of equity capital. I 13 will show that their recommendations are far below the recently allowed ROEs for other electric utilities around the country.¹ In fact, Staff's 9.0 percent midpoint 14 15 ROE is more than 100 basis points below national average returns allowed by 16 regulatory commissions around the country during the past 12 months. As such, 17 under Commission policy, it should be rejected. My updated DCF range (10.2% -18 10.8%) also shows the comparatively low level of Mr. Murray's and Mr. 19 Gorman's recommendations. All these factors indicate that the other parties' ROE 20 recommendations are unreasonably low.

21 The other parties' ROE recommendations are low because they fail to 22 adequately consider the ongoing effects of the recent financial crisis. While they

¹ Regulatory Focus, Regulatory Research Associates, October 4, 2010.

1 difficulties that have existed, acknowledge the economic they offer 2 recommendations more aligned with the artificially low, government policy-3 induced interest rates than with the market cost of equity capital. Their 4 conclusion that the cost of equity has dropped in lockstep with falling interest 5 rates is simply wrong. Under current market conditions, traditional rate of return 6 models should be tempered with consideration for the widened equity risk 7 premiums that have resulted from heightened equity market risk aversion. In the 8 face of the tepid economic recovery, continuing high unemployment, and ongoing 9 concerns about additional real estate foreclosures and other ongoing economic 10 difficulties, the other parties' rate of return recommendations for KCP&L are 11 unreasonably low.

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III. <u>RECENT ECONOMIC TRENDS</u>

Q. In your Direct Testimony, you provided data to illustrate interest rate trends
and the spreads between U.S. Treasury bond and triple-B rated utility bonds.
Have you updated that information?

16 A. Yes. I provide that data in Schedule SCH2010-7, page 1. Table 1 below
17 summarizes the results.

	Long-Term Int	erest Rate Trends	
	Triple-B	30-Year	Triple-B
Month	Utility Rate	Treasury Rate	Utility Spread
Jan-08	6.35	4.33	2.02
Feb-08	6.60	4.52	2.08
Mar-08	6.68	4.39	2.29
Apr-08	6.81	4.44	2.37
May-08	6.79	4.60	2.19
Jun-08	6.93	4.69	2.24
Jul-08	6.97	4.57	2.40
Aug-08	6.98	4.50	2.48
Sep-08	7.15	4.27	2.88
Oct-08	8.58	4.17	4.41
Nov-08	8.98	4.00	4.98
Dec-08	8.11	2.87	5.24
Jan-09	7.90	3.13	4.77
Feb-09	7.74	3.59	4.15
Mar-09	8.00	3.64	4.36
Apr-09	8.03	3.76	4.27
May-09	7.76	4.23	3.53
Jun-09	7.31	4.52	2.79
Jul-09	6.87	4.41	2.46
Aug-09	6.36	4.37	1.99
Sep-09	6.12	4.19	1.93
Oct-09	6.14	4.19	1.95
Nov-09	6.18	4.31	1.87
Dec-09	6.26	4.49	1.77
Jan-10	6.16	4.60	1.56
Feb-10	6.25	4.62	1.63
Mar-10	6.22	4.64	1.58
Apr-10	6.19	4.69	1.50
May-10	5.97	4.29	1.68
Jun-10	6.18	4.13	2.05
Jul-10	5.98	3.99	1.99
Aug-10	5.55	3.80	1.75
Sep-10	5.53	3.77	1.76
Oct-10	5.62	3.87	1.75
3-Mo Avg	5.57	3.81	1.75
12-Mo Avg	6.01	4.27	1.74

Table 1 T

Sources: Mergent Bond Record (Utility Rates); www.federalreserve.gov (Treasury Rates).

Three month average is for August 2010-October 2010.

Twelve month average is for November 2009-October 2010.

The data in Table 1 vividly illustrate the market turmoil that has occurred. Over 2

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the past two years, interest rates have fluctuated widely. The Federal Reserve's

efforts to reduce borrowing costs for banks (the Fed Funds rate) and lower rates
on U.S. Treasury bonds have now extended to high quality corporate borrowers as
well. While the effects of market turbulence may not be easily captured in
financial models for estimating the rate of return, the continuing elevated risk
aversion in the equities markets should be considered explicitly in estimates of the
cost of equity capital.

Q. Do the smaller spreads between yields on triple-B bonds and U.S. Treasury
bonds mean that the markets have fully recovered from the economic
turmoil that resulted from the financial crisis?

10 A. No. While the credit markets have stabilized from the near-chaotic conditions 11 that existed in late 2008, investors remain concerned about high unemployment, 12 large federal deficits, and the potential for further fallout from foreclosures and 13 other effects of the financial crisis. I will demonstrate below that the equity 14 markets for utility shares have not recovered and returned to their prior levels. 15 These lower utility prices reflect the heighted risk aversion that remains and show 16 that the cost of equity capital for utilities has not declined as much as interest 17 rates. Although it is difficult to measure these factors directly in typical cost of 18 capital models, they should not be ignored in setting KCP&L's ROE.

19 Q. What do economic and interest rate forecasts show for the coming year?

A. In Schedule SCH2010-7, page 2, I provide Standard and Poor's (S&P) most recent
economic forecast from its *Trends & Projections* publication for October 2010.
The S&P forecast reflects the significant economic contraction that occurred in
2009, with a drop in real GDP of 2.6 percent. For all of 2010 and 2011, S&P
forecasts that real GDP will increase by 2.7 percent and 2.5 percent, respectively.

1		While this forecast does not reflect a full "double-dip" recession for the remainder
2		of 2010 and into 2011, the lack of further expansion in 2011 is a more pessimistic
3		outlook than S&P had previously provided. The S&P forecast now delays the
4		resumption of more robust growth until the 3 rd and 4 th Quarters of 2011.
5		Consistent with S&P's pessimistic outlook for the economy, its long-term
6		interest rate forecasts have also declined. Table 2 below summarizes the interest
7		rate forecasts:
8		Table 2
9		Standard & Poor's Interest Rate Forecast
10		Oct. 2010 Average Average
11		Average 2010 Est. 2011 Est.
12		$\frac{1}{1000} \frac{1000}{100} 100$
12		10 N/ TED 1 2.50/ 2.10/ 2.50/
13		10-Yr. T-Bonds 2.5% 3.1% 2.5%
14		30-Yr. T-Bonds 3.9% 4.1% 3.5%
15		Aaa Corporate Bonds 4.7% 4.8% 4.3%
16		Sources: www.federalreserve.gov. (Current Rates). Standard & Poor's
17		Trends & Projections, October 2010, page 8 (Projected Rates).
18		The data in Table 2 show that S&P expects, during 2011, that long-term Treasury
19		interest rates will drop an additional 40 basis points from their recent (October
20		2010) low levels. Although in the turbulent market environment it is difficult to
21		project interest rates, a much slower economic recovery and continuing
22		government "easy money" policies are reflected in the S&P projections.
23	Q.	Have you updated the graph from your Direct Testimony that shows how
24		utility stocks have performed during the past several years?
25	A.	Yes. Utility stock prices have remained volatile and have recovered less, relative
26		to the broader market indices, from the March 2009 low point. The wider utility
27		stock price fluctuations in the more recent years are vividly illustrated in the

1 Graph 1 below, which depicts the Dow Jones Utility Average ("DJUA") over the



2 past 25 years.

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8 Q. How have utility stocks performed relative to the overall market recovery 9 since March 2009?

10 A. Utility stock prices have lagged behind the overall market as well. Graph 2 shows
11 the monthly levels for the DJUA versus the broader market S&P 500 index since
12 the market lows that occurred in February and March of 2009.



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While the S&P 500 has increased significantly since its lowest level in March 2009, utility prices have increased less than one-half as much. This result is a further indication that the cost of equity for utility companies has not declined to the same extent that interest rates have fallen or to the same extent that the cost of equity may have come down for the broader equity market. The relatively lower prices for utility shares indicate that the cost of capital for utilities is higher.

8 Graph 3 further illustrates this result by showing the cumulative 9 percentage change in the two equity indexes since the March 2009 lows.



While the S&P 500 has recovered over 60 percent (60.97%) from its March 2009 lows, utility stock prices have increased by only about 25 percent (24.97%). This result again points out the market difficulties that utilities face and the continuing relatively higher cost of equity for utility companies.

Q. How do the other parties' ROE recommendations in this case compare to the
 rates of return authorized by other state utility commissions around the
 country?

9 A. As noted previously, they are much lower. Over the past five years, quarterly
10 average allowed ROEs have generally been in the 10.4 percent to 10.5 percent
11 range. For the first three quarters of 2010, allowed ROEs for integrated electric
12 utilities have been approximately 10.4 percent.² Table 3 below summarizes the
13 ROE data, including both distribution and fully integrated companies:

² See Schedule SCH2010-7, page 3.

1				Table 3			
2		А	uthorized Ele	ectric Utility E	quity Returns		
3			2006	2007	2008	2009	2010
4		1 st Quarter	10.38%	10.27%	10.45%	10.29%	10.66%
5		2 nd Quarter	10.68%	10.27%	10.57%	10.55%	10.08%
6		3 rd Quarter	10.06%	10.02%	10.47%	10.46%	10.27%
7		4 th Quarter	10.39%	10.56%	10.33%	10.54%	
8		Full Year Average	10.36%	10.36%	10.46%	10.48%	10.36%
9		Average Utility					
10		Debt Cost	6.08%	6.11%	6.65%	6.28%	5.59%
11		Indicated Average					
12		Risk Premium	4.28%	4.25%	3.81%	4.20%	4.77%
13							
14		Source: Regulator	y Focus, Re	gulatory Rese	arch Associat	tes, Inc., M	ajor Rate
15		Case Decisions, Oc	ctober 4, 201	0. Utility de	ebt costs are	the "averag	e" public
16		utility bond yields a	s reported by	Moody's.		U	1
17		The average ROE f	or the most re	ecent four quar	ters was 10.3	9% percent.	(10.54%)
18		+ 10.66% +10.08%	+ 10.27% =	41.55% / 4 = 3	10.39%). Mr.	Murray's 9.	0 percent
19		recommendation is	139 basis po	oints below the	is average an	d Mr. Gorm	an's 9.65
20		percent recommend	ation is 74 b	asis points bel	ow. These co	omparisons	show that
21		the other parties' R	OE recomme	ndations are u	inreasonably l	low and that	t they are
22		not at all consistent	with rates of	f return allowe	ed for other el	ectric utiliti	es around
23		the country.					
24		IV. <u>RE</u>	BUTTAL OI	F STAFF WI	<u>ENESS MUR</u>	RAY	
25	Q.	Is Mr. Murray's 8.	5 percent to	9.5 percent R	OE range we	ell supporte	d?
26	A.	Mr. Murray's recom	mendation is	not supported	l by his analys	sis. He state	es that his
27		constant growth DC	CF range is 8.	7 percent to 9	.7 percent (St	aff Report a	t 29, line
28		10) and that his mu	lti-stage DCF	Frange is 8.7 p	percent to 9.4	percent (Sta	ff Report
29		at 30, line 12). As	a test of rea	sonableness, h	ne also provid	es a CAPM	range of
30		6.69 percent to 7.72	2 percent (Sta	aff Report at 3	36, line 2) and	d he offers a	a "rule of
31		thumb" equity risk	premium con	nparison, whic	h indicates a	range of 9.1	4 percent

to 9.71 percent (Staff Report at 36, line 20). Mr. Murray does not explain how he
used these results to arrive at his final recommendation. In fact, other than his
unrealistically low CAPM estimates, none of his results are as low as the 8.5
percent low end of his recommendation. Even with his own questionable data
inputs, most of his other results support a considerably higher ROE.

6 Q. What are the principal differences between your and Mr. Murray's analysis?

7 A. We both provide DCF estimates from constant growth and multi-stage growth 8 DCF models. While Mr. Murray uses a considerably smaller (10-company) 9 comparable group, his dividend yield, at 4.7 percent, is only slightly lower than 10 mine. The updated average and median dividend yields for my group are 4.73 11 percent to 4.83 percent (Schedule SCH2010-11). The differences in our results, 12 therefore, are caused mostly by the differences in our growth rates. As I will 13 explain below, I strongly disagree with both his constant growth rate range and 14 the long-term growth rate he uses in his multi-stage model.

Q. How did Mr. Murray determine the growth rates in his constant growth model?

17 A. He subjectively picked a range of 4.0 percent to 5.0 percent. Although on page 28 18 he discusses several growth rate alternatives from Value Line and Reuters, his 19 selected range is not consistent with the data he presents. In fact, only one data 20 series in his growth rate summary table (Staff Schedule 9-4) is as low as 4 21 percent. The low data are from Value Line's reported 10-year historical average 22 growth for dividends, earnings, and book value (1.32%). This low average is 23 entirely dominated by significant dividend cuts for four of his 10 companies and 24 other near-zero to negative data for some of earnings and book value growth rate

- figures (Staff Schedule 9-1). The summary range for all his other growth rates is
 4.55 percent to 6.09 percent and, for Value Line's and Reuters projected growth
 rates, the range is 4.90 percent to 6.09 percent.
- 4 Q. Can you demonstrate what Mr. Murray's constant growth DCF model
 5 results would have been if he had used the growth rate range from his
 6 projected data?
- A. Yes. In Schedule SCH2010-8, page 1, I have reproduced his constant growth rate
 analysis with growth rates of 4.90 percent to 6.09 percent. That analysis produces
 an ROE range of 9.59 percent to 10.55 percent. Had Mr. Murray taken a more
 balanced approach to the results of his own analysis, his constant growth DCF
 results would have been almost 100 basis points higher.
- Q. If Mr. Murray had used the average of his Value Line and Reuters earnings
 growth projections, what would his constant growth DCF results have been?
- A. In Schedule SCH2010-8, page 2, I have recalculated Mr. Murray's constant
 growth DCF results using his Value Line and Reuters earnings growth estimates
 (average 5.97 percent). That analysis produces an average ROE of 10.66 percent.
 Again, Mr. Murray's decision to exclude these higher growth rates resulted in his
 much lower estimates of ROE.
- 19 Q. How is Mr. Murray's multi-stage growth DCF model structured?
- A. He applies a three-stage growth model. For near-term, stage 1 growth (years 1-5),
 he uses the Value Line/Reuters earnings growth estimates noted above. For stage
 3 (years 11 and later), he uses a range of 3.0 percent to 4.0 percent, based on his
 analysis of historical dividend, earnings, and book value data from the 1947-2000

- 1 time period. Growth during the middle stage (years 6-10) is a linear interpolation
- 2 of the growth rates in stages 1 and 3.

3 Q. What is your evaluation of Mr. Murray's 1947-2000 growth rate study?

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A. The study is inaccurate and his conclusions, based on the study, are wrong. He

5 states

Based on this data, there is no plausible reason to believe that investors would expect a perpetual growth rate for the electric utility industry to be much higher than 3.0 to 4.0%. These growth rates were less than 50% of the growth in nominal GDP of 7.53% over the same period. If electric utilities' EPS [earnings per share] and DPS [dividends per share] continue to grow at approximately half the expected nominal GDP growth, then investors are more likely to expect a perpetual growth rate in the 2.0% to 3.0% range. (Staff Report at 32, lines 19-24.)

15 Mr. Murray's study and conclusions can be evaluated from two 16 perspectives: one, common sense and two, statistical accuracy. From a common 17 sense or "smell test" perspective, Mr. Murray's conclusions are wrong because 18 they imply that utility investors would hold utility shares with no expectation for 19 real (after inflation) dividend growth. Alternatively, he would have investors 20 ignore the fact that long-term inflation in the U.S. has exceeded three percent per 21 year. With these facts in place, from the long-term growth rate perspective 22 required by the DCF model, his conclusions imply that investors are irrational— 23 that they would invest in utilities without believing that their dividends would 24 keep up with inflation. Furthermore, using his group's 4.7 percent dividend yield, 25 the total DCF return implied by his 2 percent, 3 percent, and 4 percent growth 26 rates is 6.7 percent, 7.7 percent, and 8.7 percent, respectively (4.7% yield + 2%27 growth = 6.7% ROE, etc.). From a common sense perspective, Mr. Murray's 28 study and conclusion are suspect.

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Q.

Why do you believe that Mr. Murray's data are inaccurate?

2 A. The data he reports are taken from a discontinued series that was initially 3 compiled by Moody's (now Mergent) and reported annually in their Public Utility 4 Manual. The collection effort and annual publication of the data was 5 discontinued and has not been revised or updated since 2003. While it is not 6 possible to know all the collection and reporting methods applied by Moody's 7 over the years, it appears that the more recent years are not consistently reported 8 with respect to the earlier data. This potential mismatch is seen in the drastic drop 9 in earnings per share ("EPS") and to a lesser extent in dividends ("DPS") and 10 book value per share ("BV") that Mr. Murray reports. Between 1995 and 2000, 11 the reported EPS value drops from \$12.10 to \$5.54; DPS drops from \$9.02 to 12 \$8.27; and NBV drops from \$139.71 to \$107.04. By comparison, the reported 13 EPS value had not been as low as \$5.54 since the \$5.21 percent level reported in 14 1964.

Q. Are there other data that support your belief that Mr. Murray's data were not compiled consistently by Moody's/Mergent?

17 A. Yes. The 24 electric utilities used in the reported averages are shown at the end 18 of the statistical section in the 2003 Mergent Public Utility and Transportation 19 Manual, from which Mr. Murray obtained his data. To test for the reported 20 negative growth in Mr. Murray's data between 1995 and 2000, in Schedule 21 SCH2010-9 I have compiled the EPS and DPS levels for each of the 24 22 companies as reported contemporaneously by Value Line. Those data show that 23 on average in the 1995-2000 time period there was no decline in EPS or DPS for 24 those companies. In fact, the average total growth rate in earnings per share for

1		the 5-year period was 21.8 percent, not the more than 50 percent drop indicated
2		by Mr. Murray's source. These data confirm that the values used in Mr. Murray's
3		study are not consistently reported and, therefore, that his conclusions are not
4		valid.
5	Q.	If Mr. Murray had used your long-term 6.0 percent GDP growth rate
6		forecast in his multi-stage DCF analysis, what would the ROE estimate have
7		been?
8	А.	I present that analysis in Schedule SCH2010-8, page 3. With a 6.0 percent long-
9		term growth rate, the ROE estimate for Mr. Murray's group is 10.86 percent.
10	Q.	What do you conclude from your review of Mr. Murray's analysis?
11	А.	His analysis is dominated by his personal views of utility growth rates. As I have
12		shown above, had he taken a more balanced approach to this issue, his ROE
13		estimates would have been much higher. The midpoint of his recommended
14		range is more than 100 basis points below ROEs granted during the past year for
15		other electric utilities around the country. His lack of careful analysis and his
16		subjective inputs cause this result. His low recommendations should be
17		disregarded.
18		V. <u>REBUTTAL OF MEUA, ET AL. WITNESS GORMAN</u>
19	Q.	What is the basis for Mr. Gorman's 9.65 percent ROE recommendation?
20	А.	Mr. Gorman's results are summarized on page 37 of his testimony. Based on two
21		constant growth and one multi-stage growth DCF models, a risk premium
22		analysis, and the CAPM, he concludes that the reasonable ROE range is 9.4
23		percent to 9.9 percent with a midpoint of 9.65 percent.

1Q.What is your general assessment of Mr. Gorman's ROE testimony and2recommendation?

3 A. Mr. Gorman's recommendation is far below KCP&L's cost of equity. His 4 recommendation is understated because he employs negatively biased model 5 inputs and he includes the results from one model, the CAPM, that are currently 6 unreliable. In addition, even if there were no Federal Reserve activity distorting 7 fixed income yields, his equity risk premium analysis is flawed because he rejects 8 the well-documented fact that equity risk premiums increase when interest rates 9 are low (as they are now) and decrease when interest rates are higher. I will show 10 that, but for these deficiencies, Mr. Gorman's analysis should have supported an 11 ROE of 10.26 percent.

12 Q. What are your specific areas of disagreement with Mr. Gorman's analysis?

13 A. Mr. Gorman and I disagree strongly on the principal inputs to several of his 14 models and I disagree with his current reliance on the CAPM. In his analysis, he 15 consistently applies inputs that produce the low ROE estimates. In his constant 16 growth DCF models, he omits readily available data and summarizes the data in a 17 way that shows a lower outcome. In his multi-stage DCF model, which is similar 18 to the one I use, he agrees that GDP growth is an appropriate input, but he uses 19 short-term GDP growth rate forecasts that are significantly dominated by recently 20 low inflation rates. The inflation rates in his GDP forecast are almost a full 21 percentage point lower than the longer-term historical averages. This approach is 22 not consistent with the long-term growth rate requirement of the DCF model.

In his equity risk premium analysis, he selects data that are not consistent with the recent risk premiums allowed by regulators and he fails to include the well documented inverse relationship that exists between equity risk premiums
and interest rates, i.e., equity risk premiums tend to increase when interest rates
are low and decrease when interest rates are high. With this omission, in the
currently low interest rate environment, his equity risk premiums are significantly
understated and, therefore, his equity risk premium estimates of ROE are low.

6 His CAPM estimates are even lower. From that analysis, the ROE 7 estimate is only 8.3 percent to 9.4 percent. These midpoint of this range is far 8 below the next lowest number in the summary shown on page 37 of his testimony 9 in his Table 3. Mr. Gorman's result is so low because he mismatches the CAPM inputs for the risk-free rate (Rf) and the market risk premium (Rm - Rf). By 10 11 using the current artificially low government bond interest rate for Rf and the 12 historical Ibbotson/Morningstar estimates of Rm - Rf, Mr. Gorman, in effect, 13 "cherry picks" the CAPM approach to produce a low estimate of ROE. His 14 CAPM estimate is clearly an outlier that should be disregarded.

Q. Can you demonstrate what Mr. Gorman's results would have been if he had used more reasonable input assumptions?

17 A. Yes. I have redone both of Mr. Gorman's constant growth DCF models with 18 simple corrections and I have redone his multi-stage model with a higher long-19 term GDP growth rate. In his "analysts' growth" DCF model, he excludes Empire 20 District Electric Company because apparently that company was not included in 21 his growth rate sources. However, Value Line projects Empire District's earnings 22 growth rate to be 7.5 percent and the Thomson Financial Network (available at 23 yahoo.com) indicates an Empire District growth rate of 6.0 percent. The average 24 of these two growth rates is 6.75 percent. In my correction of Mr. Gorman's

analysts' growth rate analysis, I include this growth rate for Empire District. This
 analysis is shown in Schedule SCH2010-10, page 2. The median ROE, with
 Empire District included, is 10.41 percent as compared to Mr. Gorman's median
 result of 10.39 percent.

5 In his "sustainable growth" DCF analysis, Mr. Gorman uses methods that 6 reduce his results. In the "sustainable growth" analysis, the result for DPL Inc. is 19.98 percent, which Mr. Gorman correctly identifies to be an outlier. Rather 7 8 than simply eliminating DPL, Inc. from his group, however, Mr. Gorman uses 9 only the group median, rather than average and median, to summarize all of his 10 results. A more logical approach would have been simply to remove DPL, Inc. 11 from the analysis. When both average and median results are included, as I show 12 in Schedule SCH2010-10, page 1, the range is higher than Mr. Gorman reports. 13 Although there is not a large effect when applied to all three of Mr. Gorman's 14 models, his reporting of only the median results in his summary table produces a 15 slightly lower overall DCF estimate. When more reasonable inputs are used and 16 both average and median results are reported, Mr. Gorman's DCF estimate is 17 above 10.0 percent.

18 Q. What is your specific disagreement with Mr. Gorman's multi-stage DCF 19 analysis?

A. In that analysis, Mr. Gorman uses analysts' growth rate forecasts in the first five years and a GDP growth rate forecast for years eleven and later. In the intermediate years, years six through ten, he interpolates between stage 1 and stage 3. I disagree with his final result because it is dominated by his very low estimate of GDP growth. His GDP growth forecast is for five and ten-year

1 periods published by the Blue Chip Financial Forecast service. The current Blue 2 Chip consensus for GDP growth is low because it is dominated by low expected 3 real growth in the economy (caused by the recent recession) and the assumed 4 long-term inflation rate is only about 2.0 percent. As shown in my GDP forecast 5 data (Hadaway Direct, Schedule SCH2010-4), this inflation rate is lower than for 6 any ten-year period in the last 60 years. The nominal 4.75 percent growth rate 7 that Mr. Gorman uses is itself lower than nominal GDP growth in any 10-year 8 period, other than the most recent recession-dominated 10 years. For Mr. Gorman 9 to base his long-term DCF growth estimate on currently depressed, near-term 10 GDP growth is inconsistent with the DCF model's long-term growth rate 11 requirement.

12 Q. If Mr. Gorman had used your updated GDP growth rate, what would the 13 results of his multi-stage DCF analysis have been?

A. In Schedule SCH2010-10, page 4, I have reproduced Mr. Gorman's multi-stage
analysis (from his Schedule MPG-9) with my 6.0 percent GDP growth forecast
substituted for his growth rates in years eleven and later. In addition, I included
Empire District in the analysis based on the discussion above. From that analysis,
the average ROE is 10.79 percent and the median is 10.81 percent.

19 Q. Please comment on Mr. Gorman's equity risk premium analysis.

A. In his equity risk premium analysis, Mr. Gorman fails to include the welldocumented tendency for equity risk premiums to increase when interest rates are
low and to decrease when interest rates are higher. In the risk premium analysis
from my Direct Testimony, I provide a detailed regression analysis of the past 30
years of data to document this fact. Mr. Gorman ignores that relationship

altogether. When his analysis is modified to properly reflect wider equity risk
 premiums that are appropriate in the current low interest rate environment, his
 equity risk premium is much higher.

4 Q. Please elaborate.

5 A. Mr. Gorman presents his equity risk premium data in Schedules MPG-11 through 6 MPG-12. He discusses that analysis on pages 27-32 of his testimony. The analysis consists of two parts. In one approach, he adds equity risk premiums 7 8 based on government bond interest rates of 4.40 percent to 6.08 percent to a 9 projected Treasury bond yield of 4.70 percent. This analysis produces an ROE range of 9.10 percent to 10.78. In his second approach he adds equity risk 10 11 premiums of 3.03 percent to 4.59 percent over utility bond yields to the recent 12 "Baa" utility bond yield of 5.60 percent. This analysis produces an ROE range of 13 8.63 percent to 10.19 percent, with a midpoint estimate of 9.41 percent. From 14 these two results, he concludes that an ROE of 9.68 percent is appropriate.

Q. What does Mr. Gorman's equity risk premium data indicate when your regression analysis approach is included?

17 A. In Schedule SCH2010-10, pages 5-8, I have applied the standard regression 18 analysis to calculate "interest rate adjustment" factors for his two equity risk 19 premium studies. This approach properly takes into account the inverse 20 relationship between equity risk premiums and interest rates. With this 21 adjustment, Mr. Gorman's Treasury bond equity risk premium analysis indicates 22 an ROE of 10.57 percent, as shown in pages 5-6 of Schedule SCH-2010-10. His 23 utility bond equity risk premium analysis indicates an ROE of 10.19 percent 24 (pages 7-8). The midpoint of these revised risk premium results is 10.38 percent.

1

Q.

Why do you disagree with Mr. Gorman's CAPM analysis?

2 A. I disagree with Mr. Gorman's 9.4 percent CAPM estimate because his analysis 3 contains a mismatch between the risk-free rate and the market risk premium. Mr. 4 Gorman's market risk premium is too low because it is based on the 5 Ibbotson/Morningstar long-term averages, which cannot possibly take into account the current, artificially low government interest rates. On the one hand, 6 7 Mr. Gorman relies on currently low Treasury bond rates for the risk-free rate 8 (which pushes the CAPM result down) while, on the other hand, he does not 9 incorporate that low rate into his market risk premium (which would have 10 increased his result). This data mismatch causes his CAPM result to be much 11 lower than it should have been.

12 Q. Please summarize the results of your adjustments to Mr. Gorman's ROE 13 analysis.

14 A. My adjustments are summarized in Table 5 below:

Corrected Gorman ROB	E Estimates	
	Summary	of Results
	Gorman	Corrected
	Median	Median
	ROE	ROE
DCF Models		
Constant Growth DCF (Analysts' Growth)	10.39%	10.41%
Constant Growth DCF (Sustainable Growth)	9.38%	9.22%
Multi-Stage DCF	9.86%	10.81%
DCF	9.88%	10.14%
Risk Premium	9.68%	10.38%
CAPM	9.40%	NA
Recommended ROE (midpoint)	9.65%	10.26%

Table 5

1 In the DCF model based on analysts' growth rates, the inclusion of readily 2 available growth estimates for Empire District increases his median estimate to 3 10.41 percent. In his sustainable growth DCF model, removing DPL from the 4 analysis altogether (rather than just relying on the median), changes his 5 sustainable growth Constant Growth DCF result to 9.22 percent, relative to a 6 group average of 9.40 percent. The inclusion of a more realistic long-term GDP 7 growth rate of 6.0 percent in his multi-stage DCF analysis increases that result to 8 10.81 percent. Factoring in the observed inverse relationship between interest 9 rates and equity risk premiums increases the equity risk premium average to 10.38 10 percent. I also excluded his unreasonably low CAPM result altogether. As 11 shown above, the average of the adjusted DCF and risk premium results is an 12 ROE of 10.26 percent. Had Mr. Gorman considered these more reasonable 13 inputs, his ROE estimates would have been well above the 9.65 percent ROE he 14 recommends. 15 VI. **UPDATE OF ROE ESTIMATES**

16 Q. Have you updated your ROE analysis to take into account recent data and
17 the current conditions in the capital markets?

A. Yes. Consistent with my customary practice, I have updated my ROE analysis for
current conditions using the same methodologies that I employed in my direct
testimony.

21 Q. What are the results of your updated DCF analyses?

A. My updated DCF results are shown in Schedule SCH2010-11. The indicated
DCF range is 10.2 percent to 10.8 percent, with a midpoint of 10.5 percent.

Q. What are the results of your updated bond yield plus equity risk premium analysis?

A. My equity risk premium studies are shown in Schedule SCH2010-12. These
studies indicate an ROE range of 10.05 percent to 10.24 percent. Under current
market conditions, I discount these results because current utility bond yields are
artificially depressed by government monetary policy and investors' continuing
flight to safety away from the ongoing turbulence in the equity capital market.

8 Q. What do you conclude from your updated ROE analyses?

- 9 A. My updated DCF analysis shows that KCP&L's current cost of equity capital is in
 10 the range of 10.2 percent to 10.8 percent. These results show that the Company's
 11 reduced ROE request of 10.75 percent is reasonable and that the
 12 recommendations of Mr. Murray and Mr. Gorman, as discussed herein, are
 13 unreasonably low.
- 14

Q. Are you providing a CAPM analysis in your ROE update?

A. No. As I explained previously, government monetary policies and recent flight to
safety issues have pushed Treasury bond interest rates to artificially low levels. In
this environment, CAPM estimates understate the market cost of equity capital.
For this reason, I do not include CAPM estimates in my ROE analysis and any
results from a CAPM analysis should be disregarded.

20 Q. What is your recommendation based on your updated analysis?

A. As noted previously, based on my updated analysis the Company is reducing its
 requested ROE from 11.0 percent to 10.75 percent. This reduced request is
 reasonable based on my updated analysis, which incorporates the most recent
 market data. As was the case with the Company's initially requested ROE in this

- 1 proceeding, the revised ROE is commensurate with the top of my DCF range to
- 2 reflect the Company's reliability and customer satisfaction achievements. This is
- 3 discussed further in the testimony of Company witness Curtis Blanc.
- 4 Q. Does this conclude your rebuttal testimony?
- 5 A. Yes.

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of the Application of Kansas City) Power & Light Company to Modify Its Tariffs to) Continue the Implementation of Its Regulatory Plan)

Docket No. ER-2010-0355

AFFIDAVIT OF SAMUEL C. HADAWAY

STATE OF TEXAS)
) ss
COUNTY OF TRAVIS)

Samuel C. Hadaway, being first duly sworn on his oath, states:

1. My name is Samuel C. Hadaway. I am employed by FINANCO, Inc. in Austin, Texas. I have been retained by Great Plains Energy, Inc., the parent company of Kansas City Power & Light Company, to serve as an expert witness to provide cost of capital testimony on behalf of Kansas City Power & Light Company.

2. Attached hereto and made a part hereof for all purposes is my Rebuttal Testimony on behalf of Kansas City Power & Light Company consisting of $\frac{twenty}{f_{our}}(\frac{24}{})$

pages, having been prepared in written form for introduction into evidence in the abovecaptioned docket.

3. I have knowledge of the matters set forth therein. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded, including any attachments thereto, are true and accurate to the best of my knowledge, information and

belief.	
EDWIGE J. PAYLIM Notary Public STATE OF TEXAS My Comm. Exp. 10-01-2011	Samuel C. Hadaway
AC CARABBRO ARBARARA	\checkmark
Subscribed and sworn before me this	day of December, 2010.
	2 march.
	Notary Public
My commission expires: 1001201	

Kansas City Power & Light Company Long-Term Interest Rate Trends

	Triple-B	30-Year	Triple-B
Month	Utility Rate	Treasury Rate	Utility Spread
Jan-08	6.35	4.33	2.02
Feb-08	6.60	4.52	2.08
Mar-08	6.68	4.39	2.29
Apr-08	6.81	4.44	2.37
May-08	6.79	4.60	2.19
Jun-08	6.93	4.69	2.24
Jul-08	6.97	4.57	2.40
Aug-08	6.98	4.50	2.48
Sep-08	7.15	4.27	2.88
Oct-08	8.58	4.17	4.41
Nov-08	8.98	4.00	4.98
Dec-08	8.11	2.87	5.24
Jan-09	7.90	3.13	4.77
Feb-09	7.74	3.59	4.15
Mar-09	8.00	3.64	4.36
Apr-09	8.03	3.76	4.27
May-09	7.76	4.23	3.53
Jun-09	7.31	4.52	2.79
Jul-09	6.87	4.41	2.46
Aug-09	6.36	4.37	1.99
Sep-09	6.12	4.19	1.93
Oct-09	6.14	4.19	1.95
Nov-09	6.18	4.31	1.87
Dec-09	6.26	4.49	1.77
Jan-10	6.16	4.60	1.56
Feb-10	6.25	4.62	1.63
Mar-10	6.22	4.64	1.58
Apr-10	6.19	4.69	1.50
May-10	5.97	4.29	1.68
Jun-10	6.18	4.13	2.05
Jul-10	5.98	3.99	1.99
Aug-10	5.55	3.80	1.75
Sep-10	5.53	3.77	1.76
Oct-10	5.62	3.87	1.75
3-Mo Avg	5.57	3.81	1.75
12-Mo Avg	6.01	4.27	1.74

Sources: Mergent Bond Record (Utility Rates); www.federalreserve.gov (Treasury Rates). Three month average is for August 2010-October 2010.

Twelve month average is for November 2009-October 2010.

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2009					apt			7	010			E2	011	
	E2010	E2011	2009	E2010	E2011		á	R2Q	E3Q	E4Q	đ	2Q	30	4Q
						Gross Domestic Product								
\$14,119.0 \$1	4,635.3	\$15,197.6	(1.7)	3.7	3.8	GDP (current dollars)	\$14,446.4	\$14,578.7	\$14,723.7	\$14,792.3	\$14,957.5	\$15,095.1	\$15,263.5	\$15,474.3
(1.7)	3.7	3.8				Annual rate of increase (%)	4.8	3.7	4.0	1.9	4.5	3.7	4.5	5.6
(2.6)	2.7	2.5	·			Annual rate of increase-real GDP (%)	3.7	1.7	1.7	2.0	2.4	2.6	3.2	4.2
0.9	0.9	1.4				Annual rate of increase–GDP deflator (%	1.0	1.9	2.3	(0.1)	2.1	1.1	1.3	1.4
						*Components of Real GDP								
\$9,154.0 \$	9,299.8	\$9,513.2	(1.2)	1.6	2.3	Personal consumption expenditures	\$9,225.4	\$9,275.7	\$9,322.5	\$9,375.8	\$9,435.4	\$9,477.9	\$9,535.9	\$9,603.5
(1.2)	1.6	2.3				% change	1.9	2.2	2.0	2.3	2.6	1.8	2.5	2.9
1,094.6	1,164.1	1.241.1	(3.7)	6.3	6.6	Durable goods	1,138.9	1,157.8	1,172.7	1,186.7	1,214.4	1,222.5	1,248.2	1,279.3
2,017.4	2,067.8	2,104.8	(1.2)	2.5	1.8	Nondurable goods	2,053.5	2,063.4	2,069.4	2,085.0	2,091.4	2,099.4	2,109.0	2,119.3
6,032.7	6,067.5	6,177.0	(0.8)	0.6	1.8	Services	6,029.6	6,053.4	6,081.0	6,106.1	6,135.8	6,162.7	6,189.2	6,220.5
1,290.8	1,354.0	1,445.4	(17.1)	4.9	6.7	Nonresidental fixed investment	1,302.6	1,355.3	1,368.1	1,390.1	1,409.3	1,434.1	1,458.2	1,479.9
(17.1)	4.9	6.7		,	,	% change	7.8	17.2	3.8	6.6	5.6	7.2	6.9	6.1
916.3	1,051.4	1,173.0	(15.3)	14.7	11.6	Producers durable equipment	989.7	1,046.0	1,069.2	1,100.7	1,129.2	1,161.8	1,189.1	1,211.7
333.9	319.2	341.0	(23.2)	(4.4)	6.8	Residental fixed investment	321.4	340.7	308.6	306.0	313.1	330.3	344.8	375.6
(23.2)	(4.4)	6.8	, '		,	% change	(12.8)	26.2	(32.7)	(3.3)	9.6	23.9	18.6	40.9
(113.1)	68.5	38.6				Net change in business inventories	44.1	68.8	106.3	54.6	37.9	32.2	36.9	47.3
2.542.6	2.560.4	2.558.1	1.6	0.7	(0.1)	Gov't purchases of goods & services	2.540.2	2.564.9	2.568.5	2.568.0	2.565.9	2.562.7	2.555.8	2.547.8
1.027.6	1.063.7	1.051.4	5.7	3.5	(1.2)	Federal	1.048.4	1.071.5	1.069.4	1.065.4	1.060.3	1.054.3	1.049.3	1.041.8
1.518.8	1.502.1	1.511.4	(0.0)	(1.1)	0.6	State & local	1.496.8	1.499.1	1.504.7	1.507.9	1.510.7	1.513.3	1.511.3	1.510.5
(363.0)	(416.7)	(377.7)				Net exports	(338.4)	(449.0)	(462.8)	(416.6)	(401.3)	(386.5)	(371.6)	(351.2)
1.490.7	1.666.5	1.809.6	(6.2)	11.8	8.6	Exports	1.616.4	1.652.1	1.680.2	1.717.2	1.748.6	1.787.3	1.831.7	1.870.7
1,853.8	2,083.2	2,187.2	(13.8)	12.4	5.0	Imports	1,954.8	2,101.1	2,143.0	2,133.8	2,149.8	2,173.9	2,203.4	2,221.8
						**Income & Profits								
\$12,175.0 \$1	2,516.2	\$12,934.5	(1.7)	2.8	3.3	Personal income	\$12,350.3	\$12,473.8	\$12,563.5	\$12,677.4	\$12,768.1	\$12,867.3	\$12,984.8	\$13,117.7
11,035.0 1	1,365.9	11,681.8	0.7	3.0	2.8	Disposable personal income	11,215.6	11,336.5	11,407.8	11,503.9	11,543.9	11,629.0	11,721.0	11,833.4
5.9	5.7	4.8				Savings rate (%)	5.5	5.9	5.8	5.7	5.0	5.0	4.8	4.6
1,316.7	1,773.8	1,835.2	(1.2)	34.7	3.5	Corporate profits before taxes	1,772.9	1,788.2	1,775.5	1,758.6	1,782.1	1,816.7	1,852.1	1,890.0
1,061.8	1,368.1	1,334.4	3.6	28.8	(2.5)	Corporate profits after taxes	1,369.7	1,382.6	1,362.9	1,357.3	1,292.4	1,320.5	1,347.5	1,377.0
51.30	71.56	85.32	245.0	39.5	19.2	‡Earnings per share (S&P 500)	61.28	67.46	70.36	71.56	75.42	77.12	81.28	85.32
						†Prices & Interest Rates								
(0.3)	1.6	1.7				Consumer price index	1.5	(0.7)	1.6	1.9	2.1	1.6	1.9	2.0
0.2	0.1	0.3				Treasury bills	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4
3.3	3.1	2.5		,	,	10-yr notes	3.7	3.5	2.8	2.5	2.4	2.4	2.6	2.7
4.1	4.1	3.5				30-yr bonds	4.6	4.4	3.9	3.6	3.5	3.5	3.5	3.6
5.3	4.8	4.3				New issue rate-corporate bonds	5.3	5.0	4.6	4.4	4.2	4.2	4.3	4.4
						Other Key Indicators								
550.0	596.0	786.4	(38.4)	7.5	31.9	Housing starts (1,000 units SAAR)	617.0	602.0	567.9	597.1	656.4	723.3	823.0	942.9
10.4	11.4	12.9	(21.2)	9.4	13.0	Auto & truck sales (1,000,000 units)	11.0	11.3	11.6	11.6	12.2	12.5	13.0	13.7
9.3	9.7	9.5				Unemployment rate (%)	9.7	9.7	9.6	9.8	9.7	9.6	9.5	9.3
4.3	(3.0)	(8.0)		ı		§U.S. dollar	11.3	15.6	(8.4)	(15.1)	(10.9)	(7.6)	(3.3)	(3.9)

TRENDS & PROJECTIONS / October 2010

INDUSTRY SURVEYS

Schedule SCH2010-7

Kansas City Power & Light Company Authorized Electric Utility Equity Returns

Average Authorized ROE	2006	No.	2007	No.	2008	No.	2009	No.	2010	No.
All Electric Utilities	10.36%	26	10.36%	39	10.46%	37	10.48%	39	10.36%	43
Vertically-Integrated Utilities	10.57%	15	10.56%	28	10.45%	25	10.63%	27	10.42%	27
Distribution Utilities	9.91%	10	9.86%	1	9.78%	2	10.15%	10	9.98%	14
Power Plant Only Cases	11.90%	~	NA	0	11.44%	S	10.18%	2	12.30%	2

Data Source: *Regulatory Focus*, "Major Rate Case Decisions," Regulatory Research Associates, Oct 4, 2010; January 12, 2009; and January 30, 2007. Data for 2010 is through the 3rd Quarter.

Kansas City Power & Light Company Murray Constant Growth DCF Result (Considering His Projected High/Low Growth Rate Range)

		(1)	(2)	(3)	(4)	(5)	(6)	(7)
			Average					
		Expected	High/Low	Projected	Growth Rate	Range	_	
		Annual	Stock	Dividend	Value Line		ROER	ange
No.	Company Name	Dividend	Price	Yield	DPS, EPS, BVPS	Reuters	Value Line	Reuters
1	Alliant Energy	\$1.63	\$34.867	4.68%	5.33%	7.94%	10.02%	12.62%
2	American Electric Power	\$1.69	\$35.360	4.79%	3.33%	4.70%	8.12%	9.49%
3	Cleco Corp.	\$1.06	\$28.537	3.70%	8.33%	3.00%	12.03%	6.70%
4	DPL Inc.	\$1.26	\$25.520	4.95%	6.17%	11.80%	11.11%	16.75%
5	IDACORP, Inc.	\$1.20	\$35.287	3.40%	4.33%	4.00%	7.73%	7.40%
6	PG&E Corp.	\$1.93	\$44.955	4.28%	7.00%	6.63%	11.28%	10.91%
7	Pinnacle West Capital	\$2.10	\$39.433	5.33%	3.17%	7.62%	8.49%	12.95%
8	Progress Energy	\$2.51	\$41.678	6.02%	2.33%	3.83%	8.36%	9.85%
9	Southern Company	\$1.86	\$36.040	5.16%	4.50%	5.07%	9.66%	10.23%
10	Xcel Energy	\$1.02	\$22.198	4.61%	4.50%	6.34%	9.11%	10.95%
	Average			4.69%	4.90%	6.09%	9.59%	10.55%

Notes:

Columns 1-2: Murray Schedule 11.

Column 3: Column 1 divided by column 2.

Column 4: Murray Schedule 9-4, column 3 (average of Value Line 5-year projected DPS, EPS, BVPS growth rates).

Column 5: Murray Schedule 9-4, column 4 (Reuters 5-year projected EPS growth rate).

Column 6: Column 3 plus column 4.

Column 7: Column 3 plus column 5. The results for Cleco and DPL are considered outliers and are eliminated from the average calculation.

Kansas City Power & Light Company Murray Constant Growth DCF Result (Considering His Average Analysts' Growth Rates)

		(1)	(2)	(3)	(4)	(5)	(6)	(7)
		Expected Annual	Average High/Low Stock	Projected Dividend	Analysts'	EPS Growth P	rojections	
No.	Company Name	Dividend	Price	Yield	Reuters	Value Line	Average	ROE
1	Alliant Energy	\$1.63	\$34.867	4.68%	7.94%	7.00%	7.47%	12.15%
2	American Electric Power	\$1.69	\$35.360	4.79%	4.70%	3.00%	3.85%	8.64%
3	Cleco Corp.	\$1.06	\$28.537	3.70%	3.00%	9.50%	6.25%	9.95%
4	DPL Inc.	\$1.26	\$25.520	4.95%	11.80%	7.00%	9.40%	14.35%
5	IDACORP, Inc.	\$1.20	\$35.287	3.40%	4.00%	5.50%	4.75%	8.15%
6	PG&E Corp.	\$1.93	\$44.955	4.28%	6.63%	7.00%	6.82%	11.10%
7	Pinnacle West Capital	\$2.10	\$39.433	5.33%	7.62%	6.00%	6.81%	12.14%
8	Progress Energy	\$2.51	\$41.678	6.02%	3.83%	3.50%	3.67%	9.69%
9	Southern Company	\$1.86	\$36.040	5.16%	5.07%	4.50%	4.79%	9.95%
10	Xcel Energy	\$1.02	\$22.198	4.61%	6.34%	5.50%	5.92%	10.53%
	Average			4.69%	6.09%	5.85%	5.97%	10.66%

Notes:

Columns 1-2: Murray Schedule 11.

Column 3: Column 1 divided by column 2.

Column 4: Murray Schedule 9-4, column 4 (Reuters 5-year projected EPS growth rate).

Column 5: Murray Schedule 9-4, column 4 (Value Line 5-year projected EPS growth rate).

Column 6: Average of columns 4-5.

Column 7: Column 3 plus column 6.

Kansas City Power & Light Company Murray Multi-Stage DCF Result (Considering Long-Term GDP Growth)

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		Annualized Quarterly	Growth Years			Growth Years			Growth in	
No.	Company Name	Dividend	1-5	6	7	8	9	10	Perpetuity	ROE
1	Alliant Energy	\$1.58	7.47%	7.23%	6.98%	6.74%	6.49%	6.25%	6.00%	11.25%
2	American Electric Power	\$1.68	3.85%	4.21%	4.57%	4.93%	5.28%	5.64%	6.00%	10.41%
3	Cleco Corp.	\$1.00	6.25%	6.21%	6.17%	6.13%	6.08%	6.04%	6.00%	9.77%
4	DPL Inc.	\$1.21	9.40%	8.83%	8.27%	7.70%	7.13%	6.57%	6.00%	12.14%
5	IDACORP, Inc.	\$1.20	4.75%	4.96%	5.17%	5.38%	5.58%	5.79%	6.00%	9.32%
6	PG&E Corp.	\$1.82	6.82%	6.68%	6.54%	6.41%	6.27%	6.14%	6.00%	10.51%
7	Pinnacle West Capital	\$2.10	6.81%	6.68%	6.54%	6.41%	6.27%	6.14%	6.00%	11.92%
8	Progress Energy	\$2.48	3.67%	4.05%	4.44%	4.83%	5.22%	5.61%	6.00%	11.48%
9	Southern Company	\$1.82	4.79%	4.99%	5.19%	5.39%	5.60%	5.80%	6.00%	10.97%
10	Xcel Energy	\$1.01	5.92%	5.93%	5.95%	5.96%	5.97%	5.99%	6.00%	10.80%
	Average	=	5.97%						6.00%	10.86%

Notes:

Columns 1-2: Murray Schedule 13-1.

Columns 3-7: Transition growth period equal to annual interpolation between columns 2 and 8.

Column 8: Hadaway Direct Schedule 2010-4.

Column 9: The internal rate of return of the following cash flows: The price from page 1, column 2 and the dividends shown in column 1 growing for the first five years (Stage 1) at the growth rates shown in columns 6-10; then growing through year 200 (Stage 3) at the growth rate shown in column 8.

Kansas City Power & Light Company Historical Growth Rate Analysis

		(1)	(2)	(3)	(4)	(5)	(6)
			EPS			DPS	
No.	Company	1995	2000	Change	1995	2000	Change
1	American Electric Power Inc.	N	A (AEP acquire	ed CSW in 2000	, prior data no	t comparable)	
2	Constellation Energy Group Inc.	\$2.02	\$2.30	13.9%	\$1.55	\$1.68	8.4%
3	Progress Energy Inc.	\$2.48	\$2.34	-5.6%	\$1.78	\$2.08	16.9%
4	Ch Energy Group Inc.	\$2.74	\$3.05	11.3%	\$2.10	\$2.16	2.9%
5	Cinergy Corp.	\$2.22	\$2.50	12.6%	\$1.72	\$1.80	4.7%
6	Consolidated Edison Inc.	\$2.93	\$2.74	-6.5%	\$2.04	\$2.18	6.9%
7	DPL Inc.	\$1.09	\$1.50	37.6%	\$0.83	\$0.94	13.3%
8	DTE Energy Co.	\$3.02	\$3.27	8.3%	\$2.06	\$2.06	0.0%
9	Dominion Res. Inc. VA New	\$2.45	\$2.50	2.0%	\$2.58	\$2.58	0.0%
10	Duke Energy Corp.	\$1.63	\$2.01	23.3%	\$1.00	\$1.10	10.0%
11	Energy East Corp.	\$1.25	\$2.07	65.6%	\$0.70	\$0.88	25.7%
12	FirstEnergy Corp.	N/A (FirstEnergy	/ formed in 199	97 from Ohio Ed	Centerior, prio	or data not com	parable)
13	Reliant Energy Inc.	\$1.60	\$2.92	82.5%	\$1.50	\$1.50	0.0%
14	Idacorp Inc.	\$2.10	\$3.50	66.7%	\$1.86	\$1.86	0.0%
15	Ipalco Enterprises Inc.	\$0.94	\$0.93	-1.1%	\$0.72	\$0.65	-9.7%
16	Nisource Inc.	\$1.36	\$1.39	2.2%	\$0.80	\$0.81	1.3%
17	OGE Energy Corp.	\$1.52	\$1.89	24.3%	\$1.33	\$1.33	0.0%
18	Exelon Corp.	N/A (Exelo	on formed in 20	000 from PECO/	Unicom, prior	data not compa	arable)
19	PPL Corp.	\$1.93	\$3.28	69.9%	\$1.67	\$1.06	-36.5%
20	Potomac Elec. Power Co.	\$1.69	\$1.58	-6.5%	\$1.66	\$1.66	0.0%
21	Public Svc. Enterprise Group	\$2.71	\$3.55	31.0%	\$2.16	\$2.16	0.0%
22	Southern Co.	\$1.66	\$2.01	21.1%	\$1.22	\$1.34	9.8%
23	TECO Energy Inc.	\$1.60	\$1.97	23.1%	\$1.05	\$1.33	26.7%
24	Xcel Energy Inc.	\$1.96	\$1.60	-18.4%	\$1.34	\$1.48	10.4%
	Average		_	21.8%		_	4.3%

Notes:

Columns (1)-(2) & (4)-(5): Value Line Investment Survey, Electric Utility (East), December 7, 2001;

(Central), April 6, 2001; (West), November 16, 2001.AEP information from Value Line (Central), July 4, 2003.

Columns 3 & 6: Column 2 divided by column 1 less one and column 5 divided by column 4 less one, respectively.

Kansas City Power & Light Company Summary of Updated Gorman ROE Results

	(1)	(2)	(3)
	Su	mmary of Resu	ults
	Gorman	Updated	Updated
	Median	Median	Average
	DCF	DCF	DCF
DCF Models			
Constant Growth DCF (Analysts' Growth)	10.39%	10.41%	10.58%
Constant Growth DCF (Sustainable Growth)	9.38%	9.22%	9.40%
Multi-Stage DCF	9.86%	10.81%	10.79%
DCF	9.88%	10.14%	10.26%
Risk Premium Average	9.68%	10.38%	10.38%
САРМ	9.40%	NA	NA
Recommended ROE (High/Low Midpoint)	9.65%	10.26%	10.32%

Notes:

Column 1: Gorman, page 27 (DCF results) and page 37 (summary results). Mr. Gorman relied only on his median results. Column 2: Only change to Analysts' Growth result is to include outcome for Empire District (see page 2 of this schedule). Only change to Sustainable Growth is to remove the DPL outcome from the group (see page 3 of this schedule). Only changes to Multi-Stage result are the use of a third-stage growth rate of 6.0% and the inclusion

of Empire District (see page 4 of this schedule). Median results shown.

Risk Premium results are an average of Treasury Bond results (see from pages 5-6 of this schedule)

and Utility Bond results (see pages 7-8 of this schedule).

CAPM results are not reliable and are excluded as discussed in my testimony.

ROE results are midpoint of DCF average and Risk Premium result.

Column 3: For updated DCF results, the averages are shown. No change to updated Risk Premium result.

Kansas City Power & Light Company Gorman Constant Growth DCF Analysis (including Empire District)

		(1)	(2)	(3)	(4)	(5)
		Price	Analysts'	Dividend	Adjusted	Cost of
No.	Company	Po	Growth	D_0	Yield	Equity
1	ALLETE	\$36.35	5.28%	\$1.76	5.10%	10.37%
2	Alliant Energy Co.	\$35.70	6.31%	\$1.58	4.71%	11.02%
3	American Elec. Pwr.	\$36.02	4.17%	\$1.68	4.86%	9.03%
4	Avista Corp.	\$21.07	4.45%	\$1.00	4.96%	9.40%
5	Black Hills Corp	\$31.39	6.00%	\$1.44	4.86%	10.86%
6	Cleco Corporation	\$29.22	4.33%	\$1.00	3.57%	7.90%
7	Con. Edison	\$47.81	4.71%	\$2.38	5.21%	9.92%
8	DPL Inc.	\$25.94	8.85%	\$1.21	5.09%	13.94%
9	DTE Energy Co.	\$46.73	4.87%	\$2.24	5.03%	9.89%
10	Duke Energy	\$17.47	3.56%	\$0.98	5.81%	9.37%
11	Edison Internat.	\$34.31	4.11%	\$1.26	3.82%	7.93%
12	Empire District	\$20.03	6.75%	\$1.28	6.82%	13.57%
13	Entergy Corp.	\$78.00	3.82%	\$3.32	4.42%	8.24%
14	Nextera Energy	\$54.06	6.47%	\$2.00	3.94%	10.41%
15	Hawaiian Electric	\$23.40	7.27%	\$1.24	5.68%	12.95%
16	IDACORP	\$35.78	4.00%	\$1.20	3.49%	7.49%
17	Northeast Utilities	\$29.35	7.47%	\$1.03	3.75%	11.22%
18	NSTAR	\$38.56	5.54%	\$1.60	4.38%	9.92%
19	PG&E Corp.	\$45.87	6.69%	\$1.82	4.23%	10.92%
20	Pinnacle West	\$40.44	6.96%	\$2.10	5.55%	12.51%
21	Portland General	\$20.09	7.03%	\$1.04	5.54%	12.57%
22	Progress Energy	\$43.31	3.94%	\$2.48	5.95%	9.90%
23	SCANA Corp.	\$39.85	4.90%	\$1.90	5.00%	9.90%
24	Sempra Energy	\$52.44	5.93%	\$1.56	3.15%	9.08%
25	Southern Co.	\$36.80	5.04%	\$1.82	5.19%	10.23%
26	Teco Energy, Inc.	\$17.09	6.23%	\$0.82	5.10%	11.33%
27	UIL Holdings Co.	\$27.38	3.86%	\$1.73	6.55%	10.41%
28	Vectren Corp.	\$25.35	4.92%	\$1.36	5.63%	10.55%
29	Westar Energy	\$24.16	8.32%	\$1.24	5.56%	13.88%
30	Wisconsin Energy	\$56.82	9.12%	\$1.60	3.07%	12.19%
31	Xcel Energy Inc.	\$22.71	6.32%	\$1.01	4.73%	11.05%
	Average	\$35.27	5.72%	\$1.57	4.86%	10.58%
	Median					10.41%

Notes:

Columns 1-5: Schedule MPG-4, except for Empire District growth rate which comes from Schedule SCH2010-11, p. 2, column 7.

Kansas City Power & Light Company Gorman Sustainable Growth DCF Analysis (eliminating DPL)

		(1)	(2)	(3)	(4)	(5)
		Price	Sustainable	Dividend	Adjusted	Cost of
No.	Company	P_0	Growth	D_0	Yield	Equity
1	ALLETE	\$36.35	3.72%	\$1.76	5.02%	8.74%
2	Alliant Energy Co.	\$35.70	5.93%	\$1.58	4.69%	10.62%
3	American Elec. Pwr.	\$36.02	4.99%	\$1.68	4.90%	9.89%
4	Avista Corp.	\$21.07	3.31%	\$1.00	4.90%	8.21%
5	Black Hills Corp	\$31.39	2.98%	\$1.44	4.72%	7.70%
6	Cleco Corporation	\$29.22	6.01%	\$1.00	3.63%	9.64%
7	Con. Edison	\$47.81	3.55%	\$2.38	5.15%	8.70%
8	DPL Inc.	\$25.94	14.62%	\$1.21	5.36%	19.98%
9	DTE Energy Co.	\$46.73	3.74%	\$2.24	4.97%	8.71%
10	Duke Energy	\$17.47	2.54%	\$0.98	5.75%	8.29%
11	Edison Internat.	\$34.31	5.20%	\$1.26	3.86%	9.06%
12	Empire District	\$20.03	2.94%	\$1.28	6.58%	9.52%
13	Entergy Corp.	\$78.00	4.59%	\$3.32	4.45%	9.04%
14	Hawaiian Electric	\$54.06	6.85%	\$2.00	3.95%	10.80%
15	IDACORP	\$23.40	4.53%	\$1.24	5.54%	10.07%
16	Nextera Energy	\$35.78	5.14%	\$1.20	3.53%	8.67%
17	Northeast Utilities	\$29.35	5.33%	\$1.03	3.68%	9.01%
18	NSTAR	\$38.56	4.08%	\$1.60	4.32%	8.40%
19	PG&E Corp.	\$45.87	6.66%	\$1.82	4.23%	10.89%
20	Pinnacle West	\$40.44	4.08%	\$2.10	5.40%	9.48%
21	Portland General	\$20.09	3.41%	\$1.04	5.35%	8.76%
22	Progress Energy	\$43.31	2.98%	\$2.48	5.90%	8.88%
23	SCANA Corp.	\$39.85	5.95%	\$1.90	5.05%	11.00%
24	Sempra Energy	\$52.44	5.66%	\$1.56	3.14%	8.80%
25	Southern Co.	\$36.80	5.67%	\$1.82	5.23%	10.90%
26	Teco Energy, Inc.	\$17.09	5.68%	\$0.82	5.07%	10.75%
27	UIL Holdings Co.	\$27.38	2.88%	\$1.73	6.49%	9.37%
28	Vectren Corp.	\$25.35	3.82%	\$1.36	5.57%	9.39%
29	Westar Energy	\$24.16	3.50%	\$1.24	5.31%	8.81%
30	Wisconsin Energy	\$56.82	7.08%	\$1.60	3.02%	10.10%
31	Xcel Energy Inc.	\$22.71	5.04%	\$1.01	4.67%	9.71%
	Average	\$35.59	4.59%	\$1.58	4.80%	9.40 %
	Median					9.22%

Notes:

Columns 1-5: Schedule MPG-8.

DPL result at 19.98% is considered an outlier and removed from the group average and median calculation.

Kansas City Power & Light Company Gorman Multi-Stage Growth DCF Analysis (with Long-Term GDP Growth)

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9) Third	(10)
				First Stage						Stage	Updated
		Price	Dividend	Growth		Secor	nd Stage Gro	owth		Growth	Cost of
No.	Company	Po	D ₀	(EPS)	Year 6	Year 7	Year 8	Year 9	Year 10	(GDP)	Equity
1	ALLETE	\$36.35	\$1.76	5.28%	5.40%	5.52%	5.64%	5.76%	5.88%	6.00%	10.91%
2	Alliant Energy Co.	\$35.70	\$1.58	6.31%	6.26%	6.21%	6.16%	6.10%	6.05%	6.00%	10.78%
3	American Elec. Pwr.	\$36.02	\$1.68	4.17%	4.48%	4.78%	5.09%	5.39%	5.70%	6.00%	10.41%
4	Avista Corp.	\$21.07	\$1.00	4.45%	4.71%	4.96%	5.22%	5.48%	5.74%	6.00%	10.57%
5	Black Hills Corp	\$31.39	\$1.44	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	10.86%
6	Cleco Corporation	\$29.22	\$1.00	4.33%	4.61%	4.89%	5.17%	5.44%	5.72%	6.00%	9.25%
7	Con. Edison	\$47.81	\$2.38	4.71%	4.93%	5.14%	5.36%	5.57%	5.79%	6.00%	10.88%
8	DPL Inc.	\$25.94	\$1.21	8.85%	8.38%	7.90%	7.43%	6.95%	6.48%	6.00%	11.86%
9	DTE Energy Co.	\$46.73	\$2.24	4.87%	5.06%	5.24%	5.43%	5.62%	5.81%	6.00%	10.74%
10	Duke Energy	\$17.47	\$0.98	3.56%	3.97%	4.37%	4.78%	5.19%	5.59%	6.00%	11.13%
11	Edison Internat.	\$34.31	\$1.26	4.11%	4.43%	4.74%	5.06%	5.37%	5.69%	6.00%	9.44%
12	Empire District	\$20.03	\$1.28	6.75%	6.63%	6.50%	6.38%	6.25%	6.13%	6.00%	13.07%
13	Entergy Corp.	\$78.00	\$3.32	3.82%	4.18%	4.55%	4.91%	5.27%	5.64%	6.00%	9.93%
14	Hawaiian Electric	\$54.06	\$2.00	6.47%	6.39%	6.31%	6.24%	6.16%	6.08%	6.00%	10.04%
15	IDACORP	\$23.40	\$1.24	7.27%	7.06%	6.85%	6.64%	6.42%	6.21%	6.00%	12.05%
16	Nextera Energy	\$35.78	\$1.20	4.00%	4.33%	4.67%	5.00%	5.33%	5.67%	6.00%	9.12%
17	Northeast Utilities	\$29.35	\$1.03	7.47%	7.23%	6.98%	6.74%	6.49%	6.25%	6.00%	10.05%
18	NSTAR	\$38.56	\$1.60	5.54%	5.62%	5.69%	5.77%	5.85%	5.92%	6.00%	10.27%
19	PG&E Corp.	\$45.87	\$1.82	6.69%	6.58%	6.46%	6.35%	6.23%	6.12%	6.00%	10.39%
20	Pinnacle West	\$40.44	\$2.10	6.96%	6.80%	6.64%	6.48%	6.32%	6.16%	6.00%	11.83%
21	Portland General	\$20.09	\$1.04	7.03%	6.86%	6.69%	6.52%	6.34%	6.17%	6.00%	11.83%
22	Progress Energy	\$43.31	\$2.48	3.94%	4.29%	4.63%	4.97%	5.31%	5.66%	6.00%	11.36%
23	SCANA Corp.	\$39.85	\$1.90	4.90%	5.08%	5.27%	5.45%	5.63%	5.82%	6.00%	10.72%
24	Sempra Energy	\$52.44	\$1.56	5.93%	5.94%	5.95%	5.97%	5.98%	5.99%	6.00%	9.13%
25	Southern Co.	\$36.80	\$1.82	5.04%	5.20%	5.36%	5.52%	5.68%	5.84%	6.00%	10.94%
26	Teco Energy, Inc.	\$17.09	\$0.82	6.23%	6.19%	6.15%	6.12%	6.08%	6.04%	6.00%	11.16%
27	UIL Holdings Co.	\$27.38	\$1.73	3.86%	4.22%	4.57%	4.93%	5.29%	5.64%	6.00%	11.89%
28	Vectren Corp.	\$25.35	\$1.36	4.92%	5.10%	5.28%	5.46%	5.64%	5.82%	6.00%	11.33%
29	Westar Energy	\$24.16	\$1.24	8.32%	7.93%	7.55%	7.16%	6.77%	6.39%	6.00%	12.23%
30	Wisconsin Energy	\$56.82	\$1.60	9.12%	8.60%	8.08%	7.56%	7.04%	6.52%	6.00%	9.63%
31	Xcel Energy Inc.	\$22.71	\$1.01	6.32%	6.27%	6.21%	6.16%	6.11%	6.05%	6.00%	10.81%
	Average	\$35.27	\$1.57	5.72%	5.76%	5.81%	5.86%	5.91%	5.95%	6.00%	10.79%
	Median										10.81%

Notes:

Columns 1-3: Schedule MPG-9.

Columns 4-8: Linear interpolation between columns 3 and 9.

Column 9: See Schedule SCH2010-4.

Column 10: The internal rate of return implied by the price in column 1 and dividends for 200 periods. The initial dividend shown in column 2 is assumed to grow for the first five periods at the rate in column 3, then at the rate in columns 4-8 for years 6-10, than at the rate in column 9 for the remaining periods.

Kansas City Power & Light Company Update of Gorman Risk Premium Analysis - Treasury Bond (Projected)

	(1)	(2)	(3)
		AUTHORIZED	INDICATED
	TREASURY	ELECTRIC	RISK
	BOND YIELD	RETURNS	PREMIUM
1986	7.78%	13.93%	6.15%
1987	8.59%	12.99%	4.40%
1988	8.96%	12.79%	3.83%
1989	8.45%	12.97%	4.52%
1990	8.61%	12.70%	4.09%
1991	8.14%	12.55%	4.41%
1992	7.67%	12.09%	4.42%
1993	6.59%	11.41%	4.82%
1994	7.37%	11.34%	3.97%
1995	6.88%	11.55%	4.67%
1996	6.71%	11.39%	4.68%
1997	6.61%	11.40%	4.79%
1998	5.58%	11.66%	6.08%
1999	5.87%	10.77%	4.90%
2000	5.94%	11.43%	5.49%
2001	5.49%	11.09%	5.60%
2002	5.43%	11.16%	5.73%
2003	4.96%	10.97%	6.01%
2004	5.05%	10.75%	5.70%
2005	4.65%	10.54%	5.89%
2006	4.91%	10.36%	5.45%
2007	4.84%	10.36%	5.52%
2008	4.28%	10.46%	6.18%
2009	4.08%	10.48%	6.40%
Sep 2010	4.28%	10.36%	6.08%
AVERAGE	6.31%	11.50%	5.19%
INDICATED COS	<u>ST OF EQUITY</u>		
PROJECTED TR	EASURY BOND YIE	LD*	4.70%
TREASURY BON	ID AVG ANNUAL YII	ELD DURING STUDY	6.31%
INTEREST RATE	DIFFERENCE		-1.61%
			12 200/
	O BASIC RISK PRE		-42.39%
ADOSTIMENT			0.0078
BASIC RISK PRE	IUM		5.19%
INTEREST RAT	E ADJUSTMENT		0.68%
EQUITY RISK P	PREMIUM		5.87%
			4 700/
		LU	4.70%
			10.57%

Notes:

Columns 1-3: Schedule MPG-11.

*See Gorman page 31, lines 18-19 for Projected Treasury Bond Yield .

See regression data on page 6 of this Schedule for derivation of "Interest Rate Change Coefficient."

Kansas City Power & Light Company

Update of Gorman Risk Premium Analysis - Treasury Bond



SUMMARY OUTPUT

Regression S	Statistics							
Multiple R	0.831097186							
R Square	0.690722533							
Adjusted R Square	0.677275687							
Standard Error	0.004467989							
Observations	25							
ANOVA						_		
	df	SS	MS	F	Significance F			
Regression	1	0.001025433	0.001025433	51.366879	2.68057E-07			
Residual	23	0.000459147	1.99629E-05					
Total	24	0.00148458				-		
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.078657109	0.003836624	20.50164634	2.816E-16	0.070720447	0.0865938	0.070720447	0.08659377
X Variable 1	-0.423896847	0.059145076	-7.16706907	2.681E-07	-0.546247758	-0.301546	-0.54624776	-0.3015459

Kansas City Power & Light Company Update of Gorman Risk Premium Analysis - Utility Bond

	(1)	(2)	(3)
MOOI	DY'S "A" RATED	AUTHORIZED	INDICATED
F	PUBLIC UTILITY	ELECTRIC	RISK
	BOND YIELD	RETURNS	PREMIUM
1986	9.58%	13.93%	4.35%
1987	10.10%	12.99%	2.89%
1988	10.49%	12.79%	2.30%
1989	9.77%	12.97%	3.20%
1990	9.86%	12.70%	2.84%
1991	9.36%	12.55%	3.19%
1992	8.69%	12.09%	3.40%
1993	7.59%	11.41%	3.82%
1994	8.31%	11.34%	3.03%
1995	7.89%	11.55%	3.66%
1996	7.75%	11.39%	3.64%
1997	7.60%	11.40%	3.80%
1998	7.04%	11.66%	4.62%
1999	7.62%	10.77%	3.15%
2000	8.24%	11.43%	3.19%
2001	7.76%	11.09%	3.33%
2002	7.37%	11.16%	3.79%
2003	6.58%	10.97%	4.39%
2004	6.16%	10.75%	4.59%
2005	5.65%	10.54%	4.89%
2006	6.07%	10.36%	4.29%
2007	6.07%	10.36%	4.29%
2008	6.53%	10.46%	3.93%
2009	6.04%	10.48%	4.44%
Sep 2010	5.50%	10.36%	4.86%
AVERAGE	7.74%	11.50%	3.76%
INDICATED COS	<u>T OF EQUITY</u>		
CURRENT "Baa"	UTILITY BOND YIE	LD*	5.60%
MOODY'S AVG A	NNUAL YIELD DUR	RING STUDY	7.74%
INTEREST RATE	DIFFERENCE		-2.14%
			-38 83%
ADUSTMENT T	O BASIC RISK PREI	MIUM	0.83%
BASIC RISK PRE	MIUM		3.76%
INTEREST RAT	E ADJUSTMENT		0.83%
EQUITY RISK P	REMIUM		4.59%
		l D*	5 600/
			10 10%
			10.13/0

Notes:

Columns 1-3: Schedule MPG-12.

*See Gorman page 32, lines 1-2 for Current "Baa" Utility Bond Yield.

See regression data on page 8 of this Exhibit for derivation of "Interest Rate Change Coefficient."

Kansas City Power & Light Company Update of Gorman Risk Premium Analysis - Utility Bond



SUMMARY OUTPUT

Regression St	atistics							
Multiple R	0.828457052							
R Square	0.686341086							
Adjusted R Square	0.672703742							
Standard Error	0.003988851							
Observations	25							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	1	0.0008008	0.0008008	50.328061	3.16023E-07			
Residual	23	0.000366	1.591E-05					
Total	24	0.0011667						
	Coefficients	tandard Erro	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.06762462	0.0043135	15.677279	9.037E-14	0.058701376	0.076547864	0.058701376	0.076547864
X Variable 1	-0.388300085	0.0547347	-7.094227	3.16E-07	-0.501527345	-0.27507282	-0.50152735	-0.275072825

Kansas City Power & Light Company Discounted Cash Flow Analysis Summary Of DCF Model Results

	Constant Growth DCF Model	Constant Growth DCF Model	Low Near-Term Growth Two-Stage Growth		
Company	Analysts' Growth Rates	Long-Term GDP Growth	DCF Model		
	0.70/	40.00/	10.000		
	8.7%	10.8%	10.3%		
2 Alliant Energy Co.	11.9%	10.6%	10.5%		
3 American Elec. Pwr.	8.3%	10.7%	10.4%		
4 Avista Corp.	10.9%	11.1%	11.2%		
5 Black Hills Corp	10.2%	10.7%	10.3%		
6 Cleco Corporation	10.2%	9.7%	10.1%		
7 Con. Edison	8.9%	11.0%	10.3%		
8 DPL Inc.	11.4%	10.9%	10.8%		
9 DTE Energy Co.	10.4%	10.9%	10.9%		
10 Duke Energy	9.1%	11.6%	11.1%		
11 Edison Internat.	6.9%	9.9%	9.6%		
12 Empire District	13.1%	12.4%	11.7%		
13 Entergy Corp.	9.1%	10.6%	10.5%		
14 Hawaiian Electric	15.0%	11.3%	10.7%		
15 IDACORP	7.8%	9.3%	9.2%		
16 Nextera Energy	10.0%	9.9%	9.7%		
17 Northeast Utilities	10.8%	9.7%	9.7%		
18 NSTAR	10.5%	10.4%	10.4%		
19 PG&E Corp.	10.7%	10.2%	10.0%		
20 Pinnacle West	11.3%	11.2%	10.8%		
21 Portland General	11.4%	11.3%	11.0%		
22 Progress Energy	9.6%	11.9%	11.1%		
23 SCANA Corp.	9.0%	10.8%	10.2%		
24 Sempra Energy	9.3%	9.2%	9.2%		
25 Southern Co.	10.1%	11.1%	10.8%		
26 Teco Energy, Inc.	11.4%	10.9%	10.6%		
27 UIL Holdings Co.	9.8%	12.3%	11.4%		
28 Vectren Corp.	10.2%	11.4%	10.9%		
29 Westar Energy	13.8%	11.3%	10.9%		
30 Wisconsin Energy	12.6%	9.1%	9.5%		
31 Xcel Energy Inc.	10.5%	10.5%	10.2%		
	,.				
GROUP AVERAGE	10.4%	10.7%	10.5%		
GROUP MEDIAN	10.2%	10.8%	10.5%		

Sources: Value Line Investment Survey, Electric Utility (East), Aug 27, 2010; (Central), Sep 24, 2010; (West), Nov 5, 2010.

Kansas City Power & Light Company Constant Growth DCF Model Analysts' Growth Rates

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
					Analysts' Es	timated Grov	vth	
		Next					Average	ROE
	Recent	Year's	Dividend	Value			Growth	K=Div Yld+G
Company	Price(P0)	Div(D1)	Yield	Line	Zacks	Thomson	(Cols 4-6)	(Cols 3+7)
1 ALLETE	36.41	1.76	4.83%	1.00%	4.00%	6.50%	3.83%	8.7%
2 Alliant Energy Co.	35.78	1.65	4.61%	7.00%	5.00%	9.90%	7.30%	11.9%
3 American Elec. Pwr.	36.12	1.70	4.71%	3.00%	4.00%	3.90%	3.63%	8.3%
4 Avista Corp.	21.06	1.08	5.13%	8.50%	4.70%	4.00%	5.73%	10.9%
5 Black Hills Corp	31.48	1.48	4.70%	4.50%	6.00%	6.00%	5.50%	10.2%
6 Cleco Corporation	29.39	1.08	3.67%	9.50%	7.00%	3.00%	6.50%	10.2%
7 Con. Edison	48.15	2.40	4.98%	2.50%	4.60%	4.60%	3.90%	8.9%
8 DPL Inc.	26.09	1.28	4.91%	7.00%	NA	5.90%	6.45%	11.4%
9 DTE Energy Co.	46.74	2.30	4.92%	6.50%	5.00%	5.00%	5.50%	10.4%
10 Duke Energy	17.61	0.99	5.62%	5.00%	1.50%	3.80%	3.43%	9.1%
11 Edison Internat.	34.54	1.34	3.88%	NA	3.00%	3.02%	3.01%	6.9%
12 Empire District	20.09	1.28	6.37%	7.50%	NA	6.00%	6.75%	13.1%
13 Entergy Corp.	77.33	3.53	4.57%	4.50%	3.00%	6.03%	4.51%	9.1%
14 Hawaiian Electric	23.33	1.24	5.32%	11.50%	9.50%	8.03%	9.68%	15.0%
15 IDACORP	35.89	1.20	3.34%	5.50%	4.00%	4.00%	4.50%	7.8%
16 Nextera Energy	54.20	2.10	3.87%	5.00%	6.40%	6.83%	6.08%	10.0%
17 Northeast Utilities	29.62	1.10	3.71%	6.00%	7.90%	7.27%	7.06%	10.8%
18 NSTAR	39.12	1.73	4.42%	7.00%	6.00%	5.37%	6.12%	10.5%
19 PG&E Corp.	46.21	1.92	4.16%	6.00%	6.80%	6.70%	6.50%	10.7%
20 Pinnacle West	40.69	2.10	5.16%	6.00%	6.80%	5.50%	6.10%	11.3%
21 Portland General	20.20	1.07	5.30%	3.00%	9.60%	5.75%	6.12%	11.4%
22 Progress Energy	42.97	2.52	5.86%	3.50%	4.00%	3.63%	3.71%	9.6%
23 SCANA Corp.	40.06	1.92	4.79%	3.50%	4.30%	4.88%	4.23%	9.0%
24 Sempra Energy	52.47	1.68	3.20%	NA	7.00%	5.25%	6.13%	9.3%
25 Southern Co.	37.03	1.88	5.08%	4.50%	5.10%	5.32%	4.97%	10.1%
26 Teco Energy, Inc.	17.20	0.84	4.88%	8.00%	5.30%	6.26%	6.52%	11.4%
27 UIL Holdings Co.	27.49	1.73	6.29%	3.00%	3.60%	3.88%	3.49%	9.8%
28 Vectren Corp.	25.65	1.39	5.42%	4.50%	5.00%	4.85%	4.78%	10.2%
29 Westar Energy	24.35	1.28	5.26%	7.50%	8.00%	10.00%	8.50%	13.8%
30 Wisconsin Energy	57.21	1.80	3.15%	9.50%	8.70%	10.07%	9.42%	12.6%
31 Xcel Energy Inc.	22.80	1.03	4.52%	5.50%	5.70%	6.73%	5.98%	10.5%
		-						
GROUP AVERAGE	35.40	1.63	4.73%	5.72%	5.57%	5.74%	5.68%	10.4%
GROUP MEDIAN			4.83%					10.2%

Sources: Value Line Investment Survey, Electric Utility (East), Aug 27, 2010; (Central), Sep 24, 2010; (West), Nov 5, 2010.

Kansas City Power & Light Company
Constant Growth DCF Model
Long-Term GDP Growth

	(9)	(10)	(11)	(12)	(13)
		Next			DOF
	Desert	Next	Dividend	000	
Company	Recent Price (P0)		Dividend	GDP	K = DIV YI0+G
Company	Price(PU)		rieiu	Glowin	(COIS 11+12)
	26 /1	1 76	1 9 2 0/	6 00%	10.9%
2 Alliant Energy Co	25 79	1.70	4.0370	6.00%	10.6%
2 American Elec, Dwr	36.12	1.05	4.01%	6.00%	10.0%
A Avista Corp	21.06	1.70	5 13%	6.00%	10.778
5 Black Hills Corp	21.00	1.00	1 70%	6.00%	10.7%
6 Cleco Corporation	20 30	1.40	3 67%	6.00%	9.7%
7 Con Edison	48 15	2 40	4 98%	6.00%	11.0%
8 DPL Inc	26.09	1 28	4.00%	6.00%	10.9%
9 DTE Energy Co	46 74	2.30	4.92%	6.00%	10.9%
10 Duke Energy	17.61	0.99	5.62%	6.00%	11.6%
11 Edison Internat.	34.54	1.34	3.88%	6.00%	9.9%
12 Empire District	20.09	1.28	6.37%	6.00%	12.4%
13 Entergy Corp.	77.33	3.53	4.57%	6.00%	10.6%
14 Hawaijan Electric	23.33	1.24	5.32%	6.00%	11.3%
15 IDACORP	35.89	1.20	3.34%	6.00%	9.3%
16 Nextera Energy	54.20	2.10	3.87%	6.00%	9.9%
17 Northeast Utilities	29.62	1.10	3.71%	6.00%	9.7%
18 NSTAR	39.12	1.73	4.42%	6.00%	10.4%
19 PG&E Corp.	46.21	1.92	4.16%	6.00%	10.2%
20 Pinnacle West	40.69	2.10	5.16%	6.00%	11.2%
21 Portland General	20.20	1.07	5.30%	6.00%	11.3%
22 Progress Energy	42.97	2.52	5.86%	6.00%	11.9%
23 SCANA Corp.	40.06	1.92	4.79%	6.00%	10.8%
24 Sempra Energy	52.47	1.68	3.20%	6.00%	9.2%
25 Southern Co.	37.03	1.88	5.08%	6.00%	11.1%
26 Teco Energy, Inc.	17.20	0.84	4.88%	6.00%	10.9%
27 UIL Holdings Co.	27.49	1.73	6.29%	6.00%	12.3%
28 Vectren Corp.	25.65	1.39	5.42%	6.00%	11.4%
29 Westar Energy	24.35	1.28	5.26%	6.00%	11.3%
30 Wisconsin Energy	57.21	1.80	3.15%	6.00%	9.1%
31 Xcel Energy Inc.	22.80	1.03	4.52%	6.00%	10.5%
GROUP AVERAGE	35.40	1.63	4.73%	6.00%	10.7%
GROUP MEDIAN			4.83%		10.8%

Sources: Value Line Investment Survey, Electric Utility (East), Aug 27, 2010; (Central), Sep 24, 2010; (West), Nov 5, 2010.

Kansas City Power & Light Company Low Near-Term Growth Two-Stage Growth DCF Model

	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
						~					
	0011	0044	Annual	Desert	Veed	CA	SHFLO	WS Veen 4	V	V	ROE=Internal
0	2011	2014	Change	Recent	Year 1	Year 2	Year 3	Year 4	Year 5	Year 5-150	Rate of Return
Company	DIV	DIV	to 2014	Price	DIV	DIV	DIV	DIV	DIV	DIV Growth	(Yrs 0-150)
	4 70	4.05	0.00	00.44	4 70	4 70	4.00	4.05	4.00	0.000/	40.00/
1 ALLETE	1.76	1.85	0.03	-36.41	1.76	1.79	1.82	1.85	1.96	6.00%	10.3%
2 Alliant Energy Co.	1.00	1.92	0.09	-35.78	1.05	1.74	1.83	1.92	2.04	6.00%	10.5%
3 American Elec. Pwr.	1.70	1.90	0.07	-36.12	1.70	1.//	1.83	1.90	2.01	6.00%	10.4%
4 Avista Corp.	1.08	1.30	0.07	-21.06	1.08	1.15	1.23	1.30	1.38	6.00%	11.2%
5 Black Hills Corp	1.48	1.60	0.04	-31.48	1.48	1.52	1.50	1.60	1.70	6.00%	10.3%
6 Cieco Corporation	1.08	1.45	0.12	-29.39	1.08	1.20	1.33	1.45	1.54	6.00%	10.1%
7 Con. Edison	2.40	2.40	0.02	-48.15	2.40	2.42	2.44	2.40	2.01	6.00%	10.3%
	1.28	1.50	0.07	-26.09	1.28	1.35	1.43	1.50	1.59	6.00%	10.8%
9 DTE Energy Co.	2.30	2.70	0.13	-46.74	2.30	2.43	2.57	2.70	2.86	6.00%	10.9%
10 Duke Energy	0.99	1.05	0.02	-17.01	0.99	1.01	1.03	1.05	1.11	6.00%	11.1%
11 Edison Internat.	1.34	1.50	0.05	-34.54	1.34	1.39	1.45	1.50	1.59	6.00%	9.6%
12 Empire District	1.28	1.35	0.02	-20.09	1.28	1.30	1.33	1.35	1.43	6.00%	11.7%
13 Entergy Corp.	3.53	4.15	0.21	-77.33	3.53	3.74	3.94	4.15	4.40	6.00%	10.5%
14 Hawalian Electric	1.24	1.30	0.02	-23.33	1.24	1.26	1.28	1.30	1.38	6.00%	10.7%
15 IDACORP	1.20	1.40	0.07	-35.89	1.20	1.27	1.33	1.40	1.48	6.00%	9.2%
16 Nextera Energy	2.10	2.40	0.10	-54.20	2.10	2.20	2.30	2.40	2.54	6.00%	9.7%
17 Northeast Utilities	1.10	1.30	0.07	-29.62	1.10	1.17	1.23	1.30	1.38	6.00%	9.7%
18 NSTAR	1.73	2.05	0.11	-39.12	1.73	1.84	1.94	2.05	2.17	6.00%	10.4%
19 PG&E Corp.	1.92	2.20	0.09	-46.21	1.92	2.01	2.11	2.20	2.33	6.00%	10.0%
20 Pinnacle West	2.10	2.30	0.07	-40.69	2.10	2.17	2.23	2.30	2.44	6.00%	10.8%
21 Portland General	1.07	1.20	0.04	-20.20	1.07	1.11	1.16	1.20	1.27	6.00%	11.0%
22 Progress Energy	2.52	2.58	0.02	-42.97	2.52	2.54	2.56	2.58	2.73	6.00%	11.1%
23 SCANA Corp.	1.92	2.00	0.03	-40.06	1.92	1.95	1.97	2.00	2.12	6.00%	10.2%
24 Sempra Energy	1.68	2.05	0.12	-52.47	1.68	1.80	1.93	2.05	2.17	6.00%	9.2%
25 Southern Co.	1.88	2.10	0.07	-37.03	1.88	1.95	2.03	2.10	2.23	6.00%	10.8%
26 Teco Energy, Inc.	0.84	0.95	0.04	-17.20	0.84	0.88	0.91	0.95	1.01	6.00%	10.6%
27 UIL Holdings Co.	1.73	1.73	0.00	-27.49	1.73	1.73	1.73	1.73	1.83	6.00%	11.4%
28 Vectren Corp.	1.39	1.50	0.04	-25.65	1.39	1.43	1.46	1.50	1.59	6.00%	10.9%
29 Westar Energy	1.28	1.40	0.04	-24.35	1.28	1.32	1.36	1.40	1.48	6.00%	10.9%
30 Wisconsin Energy	1.80	2.40	0.20	-57.21	1.80	2.00	2.20	2.40	2.54	6.00%	9.5%
31 Xcel Energy Inc.	1.03	1.15	0.04	-22.80	1.03	1.07	1.11	1.15	1.22	6.00%	10.2%
GROUP AVERAGE											10.5%
GROUP MEDIAN											10.5%

Sources: Value Line Investment Survey, Electric Utility (East), Aug 27, 2010; (Central), Sep 24, 2010; (West), Nov 5, 2010.

Kansas City Power & Light Company Discounted Cash Flow Analysis Column Descriptions

- Column 1: Three-month Average Price per Share (Aug 2010-Oct 2010)
- Column 2: Estimated 2011 Div per Share from Value Line
- Column 3: Column 2 Divided by Column 1
- Column 4: "Est'd '07-'09 to '13-'15" Earnings Growth Reported by Value Line
- Column 5: "Next 5 Years" Company Growth Estimate as Reported by Zacks.com
- Column 6: "Next 5 Years (per annum) Growth Estimate Reported by Thomson Financial Network (at Yahoo Finance)
- Column 7: Average of Columns 4-6
- Column 8: Column 3 Plus Column 7
- Column 9: See Column 1
- Column 10: See Column 2
- Column 11: Column 10 Divided by Column 9
- Column 12: Average of GDP Growth During the Last 10 year, 20 year, 30 year, 40 year, 50 year, and 60 year growth periods. See Schedule SCH2010-4

- Column 13: Column 11 Plus Column 12
- Column 14: Estimated 2011 Div per Share from Value Line
- Column 15: Estimated 2014 Div per Share from Value Line
- Column 16: (Column 15 Minus Column 14) Divided by Three
- Column 17: See Column 1
- Column 18: See Column 14
- Column 19: Column 18 Plus Column 16
- Column 20: Column 19 Plus Column 19
- Column 21: Column 20 Plus Column 16
- Column 22: Column 21 Increased by the Growth Rate Shown in Column 23
- Column 23: See Column 12
- Column 24: The Internal Rate of Return of the Cash Flows in Columns 17-22 along with the Dividends for the Years 6-150 Implied by the Growth Rates shown in Column 23

Kansas City Power & Light Company

Risk Premium Analysis

	(Based on Proje	ected Interest Rates)				
мос	DY'S AVERAGE	AUTHORIZED	INDICATED			
		FLECTRIC	RISK			
	BOND YIELD (1)	RETURNS (2)	PREMIUM			
1980	13.15%	14.23%	1.08%			
1981	15.62%	15.22%	-0.40%			
1982	15.33%	15.78%	0.45%			
1983	13.31%	15.36%	2.05%			
1984	14.03%	15.32%	1.29%			
1985	12.29%	15.20%	2.91%			
1986	9.46%	13.93%	4.47%			
1987	9.98%	12.99%	3.01%			
1988	10.45%	12.79%	2.34%			
1989	9.66%	12.97%	3.31%			
1990	9.76%	12.70%	2.94%			
1991	9 21%	12 55%	3 34%			
1992	8.57%	12.09%	3 52%			
1992	7 56%	11 41%	3 85%			
1994	8 30%	11 34%	3.04%			
1995	7 91%	11 55%	3 64%			
1996	7.51%	11 39%	3 65%			
1007	7.63%	11 /0%	3 77%			
1008	7.00%	11.66%	4.66%			
1990	7.55%	10.77%	3.00%			
2000	8 1/%	11 / 3%	3 20%			
2000	7 72%	11 00%	3 37%			
2001	7 53%	11 16%	3.63%			
2002	6 61%	10 97%	1 36%			
2003	6 20%	10.75%	4.50%			
2004	0.20 <i>7</i> 6	10.7378	4.0070/			
2005	5.07 %	10.34%	4.0770			
2000	0.00%	10.30%	4.20%			
2007	0.11%	10.36%	4.20%			
2006	0.00%	10.46%	3.01%			
2009	0.28%	10.48%	4.20%			
	0.04%	10.36%	4.77%			
AVERAGE	8.94%	12.21%	3.21%			
INDICATED COS						
PROJECTED TR	IPI E-R LITILITY BONI	ר VIEI D*	5 25%			
			8 9/%			
			-3 69%			
	DITIERENOE		0.0070			
INTEREST RATE	CHANGE COEFFICI	ENT	-41.30%			
ADUSTMENT T	ADUSTMENT TO AVG RISK PREMIUM					
BASIC RISK PRE	MIUM		3.27%			
INTEREST RAT	E ADJUSTMENT		1.52%			
EQUITY RISK P	REMIUM		4.80%			
			E 0E0/			
	IFLE-DUTILITT DUNI		0.20%			
			10.03%			

(1) Moody's Investors Service

(2) Regulatory Focus, Regulatory Research Associates, Inc.

*Projected triple-B bond yield is 175 basis points over projected long-term Treasury bond rate of 3.5% from Schedule SCH2010-7, p. 2. The triple-B spread is for 3 months ended October 2010 from Schedule SCH2010-7, p. 1.

5.57%

10.24%

Kansas City Power & Light Company

Kansas City Power & Light Company										
	Risk Premium Analysis									
	(Based on Current Interest Rates)									
	MOODY'S AVERAGE	AUTHORIZED	INDICATED							
	PUBLIC UTILITY	ELECTRIC	RISK							
	BOND YIELD (1)	RETURNS (2)	PREMIUM							
1980	13.15%	14.23%	1.08%							
1981	15.62%	15.22%	-0.40%							
1982	15.33%	15.78%	0.45%							
1983	13.31%	15.36%	2.05%							
1984	14.03%	15.32%	1.29%							
1985	12.29%	15.20%	2.91%							
1986	9.46%	13.93%	4.47%							
1987	9.98%	12.99%	3.01%							
1988	10.45%	12.79%	2.34%							
1989	9.66%	12.97%	3.31%							
1990	9.76%	12.70%	2.94%							

1986	9.46%	13.93%	4.47%
1987	9.98%	12.99%	3.01%
1988	10.45%	12.79%	2.34%
1989	9.66%	12.97%	3.31%
1990	9.76%	12.70%	2.94%
1991	9.21%	12.55%	3.34%
1992	8.57%	12.09%	3.52%
1993	7.56% 11.41%		3.85%
1994	8.30%	11.34%	3.04%
1995	7.91%	11.55%	3.64%
1996	7.74%	11.39%	3.65%
1997	7.63%	11.40%	3.77%
1998	7.00%	11.66%	4.66%
1999	7.55%	10.77%	3.22%
2000	8.14%	11.43%	3.29%
2001	7.72%	11.09%	3.37%
2002	7.53%	11.16%	3.63%
2003	6.61%	10.97%	4.36%
2004	6.20%	10.75%	4.55%
2005	5.67%	10.54%	4.87%
2006	6.08%	10.36%	4.28%
2007	6.11%	10.36%	4.25%
2008	6.65%	10.46%	3.81%
2009	6.28%	10.48%	4.20%
3Q 2010	5.59%	10.36%	4.77%
AVERAGE	8.94%	12.21%	3.27%
INDICATED COS	T OF EQUITY		
CURRENT TRIPL	E-B UTILITY BOND YIEI	LD*	5.57%
MOODY'S AVG A	NNUAL YIELD DURING	STUDY	8.94%
INTEREST RATE	DIFFERENCE		-3.37%
INTEREST RATE	-41.30%		
ADUSTMENT TO	1.39%		
BASIC RISK PRE	MILIM		3 27%
INTEREST RATE	= ADJUSTMENT		1.39%
EQUITY RISK PI	REMIUM		4.67%

CURRENT TRIPLE-B UTILITY BOND YIELD* INDICATED EQUITY RETURN

(1) Moody's Investors Service

(2) Regulatory Focus, Regulatory Research Associates, Inc.

*Current triple-B utility bond yield is three month average of Moody's Triple-B Public Utility Bond Yield Average through October 2010 from Schedule SCH2010-7, p. 1.

Kansas City Power & Light Company

Risk Premium Analysis

Regression Analysis & Interest Rate Change Coefficient



SUMMARY OUTPUT

Regression Statistics									
Multiple R	0.930715918								
R Square	0.866232121								
Adjusted R Square	0.861619435								
Standard Error	0.004709045								
Observations	31								

ANOVA

	df		SS	MS	F	Significance F
Regression		1	0.004164339	0.004164339	187.7934496	3.37399E-14
Residual		29	0.000643078	2.21751E-05		
Total		30	0.004807417			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.069664074	0.002823484	24.67308594	5.1721E-21	0.0638894	0.075438748	0.0638894	0.075438748
X Variable 1	-0.413001655	0.030137802	-13.70377501	3.37399E-14	-0.47464038	-0.35136293	-0.47464038	-0.35136293