

Exhibit No.:
Witness: Michael Gorman
Type of Exhibit: Direct Testimony
Issue: Revenue Requirement
Sponsoring Party: The Office of Public Counsel
Case No.: ER-2009-0089

**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) Case No. ER-2009-0089
for Electric Service to Continue)
the Implementation of Its)
Regulatory Plan.)

Direct Testimony and Schedules of

Michael Gorman

On behalf of

The Office of Public Counsel

Project 9073
February 11, 2009



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Direct Testimony of Michael Gorman

1 **Q PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 A My name is Michael Gorman and my business address is 16690 Swingley Ridge
3 Road, Suite 140, Chesterfield, Missouri 63017.

4 **Q WHAT IS YOUR OCCUPATION?**

5 A I am an energy advisor and a consultant in the field of public utility regulation and a
6 managing principal in the firm of Brubaker & Associates, Inc. (BAI).

7 **Q PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND EXPER-**
8 **IENCE.**

9 A These are set forth in Appendix A.

10 **Q ON WHOSE BEHALF ARE YOU APPEARING IN THIS PROCEEDING?**

11 A I am appearing on behalf of the Office of Public Counsel.

1 **Q WHAT IS THE SUBJECT OF YOUR TESTIMONY?**

2 A I will recommend a fair return on common equity and overall rate of return for Kansas
3 City Power & Light Company (“KCPL” or “Company”).

4 **Q PLEASE SUMMARIZE YOUR RATE OF RETURN RECOMMENDATIONS.**

5 A I recommend the Missouri Public Service Commission (“MPSC” or the “Commission”)
6 award KCPL a return on common equity of 10.30%.

7 My recommended return on equity for KCPL is based on a constant growth
8 Discounted Cash Flow (“DCF”), a two-stage growth DCF model, a multi-stage DCF
9 model, Risk Premium (“RP”) model and Capital Asset Pricing Model (“CAPM”)
10 analyses. These analyses estimate a fair return on equity based on observable
11 market information for a group of publicly traded electric utility companies that proxy
12 KCPL’s going-forward investment risk.

13 Finally, I recommend an overall rate of return for KCPL of 8.45%, as shown on
14 my Schedule MPG-1. My recommended overall rate of return is based on KCPL’s
15 proposed capital structure, my recommended return on equity, and the Company’s
16 projected embedded cost of debt.

17 **ELECTRIC UTILITY INDUSTRY MARKET PERSPECTIVE**

18 **Q DID YOU ATTEMPT TO VALIDATE THE ACCURACY OF YOUR MARKET**
19 **RETURN ON EQUITY ESTIMATE FOR KCPL?**

20 A Yes. As shown on my Schedule MPG-2, I compared my estimated return on equity
21 for KCPL in this case to the industry average authorized return on equity for electric
22 utility companies over the last five years. I also reviewed the credit rating history, and
23 stock investment returns for the industry over that same period. Industry authorized

1 returns on equity have averaged approximately 10.5% over the last 6 years, and
2 approximately 10.3% from 2006 to date.

3 These authorized returns on equity have supported improvement to the
4 investment grade credit rating of the electric utility industry and have resulted in
5 robust stock price performance over this time period. Indeed, electric utility stock
6 price performance has consistently outperformed the overall market during this time
7 period. This market evidence indicates that commission-authorized returns on equity
8 in the range of approximately 10.3% to 10.5% have supported stock prices and
9 investment grade credit ratings of utility companies. This is evidence that a return of
10 10.30% for KCPL will support its financial integrity and access to capital.

11 **Q PLEASE DESCRIBE THE EVIDENCE THAT THE INDUSTRY'S AUTHORIZED**
12 **RETURNS ON EQUITY HAVE SUPPORTED UTILITIES' FINANCIAL INTEGRITY**
13 **AND ACCESS TO CAPITAL.**

14 **A** In its Q3 2008 "Credit Ratings," the Edison Electric Institute (EEI), an electric utility
15 industry trade organization, provided an assessment of the credit rating history of
16 U.S. electric utilities over the period 2002 through the third quarter 2008. EEI's
17 commentary included the following:

18 **COMMENTARY**

19 Ratings changes were minimal in Q3 for a third straight quarter. The
20 14 actions (upgrades plus downgrades) were the third lowest quarterly
21 total on record since EEI began gathering data in Q1 2001 (Q2 2008's
22 nine actions were the lowest).

23 Industry credit quality rose slightly, with nine upgrades and five
24 downgrades, although five of the upgrades related to one company.
25 This follows a modest decline in credit quality during the first half of
26 2008, leaving 23 downgrades outnumbering 18 upgrades through the
27 first nine months of the year. Credit quality improved steadily over the
28 previous three years, with upgrades outnumbering downgrades in 10
29 of the 12 quarters prior to Q1 2008.

1 The quarter's upgrades centered on prospects for effective
2 management of capital spending programs and an improved regulatory
3 environment in Illinois. Downgrades related primarily to the non-utility
4 side of the business. Ratings outlooks at quarter-end were mostly
5 negative, a trend in place throughout 2008 and for most of 2007.

6 Although it has not yet impacted ratings actions or individual company
7 outlooks, the severity of the credit crisis that erupted in early October is
8 a concern given the industry's rising capital spending and associated
9 capital needs. Despite this recent market turmoil, the volume of rating
10 actions remained low in October (through 10/24).¹

11 Further, Moody's also acknowledges the following for the electric utility
12 industry in its report. Moody's states:

13 **Overview**

14 The U.S. investor-owned electric utility sector enjoys solid credit
15 metrics and the fundamental credit outlook remains stable. In general,
16 state regulators continue to let the utilities recover prudently incurred
17 operating costs and capital expenditures relatively quickly, and with
18 reasonable rates of return. Moreover, we believe state regulators
19 would otherwise prefer to regulate financially healthy companies.

20 The sector is also well positioned relative to many other
21 corporate/industrial sectors, primarily due to the fundamental business
22 plan: providing monopolistic electric service within a designated
23 service territory in exchange for oversight and limitations on
24 profitability. However, we are increasingly concerned with business
25 and operating risks, which are not new but appear to be accelerating
26 faster than previously understood. These business and operating risks
27 include potential environmental legislation from the Obama
28 Administration; the continued capital investment needs for refurbishing
29 aging infrastructure; and a potentially more contentious regulatory
30 relationship amid a protracted or severe recession.²

31 Similarly, Fitch states:

32 The utilities segment is not immune to the economic challenges facing
33 corporate America, but is relatively well positioned. Providing essential
34 services and largely regulated, utilities benefit from investor
35 perceptions as a defensive group. For the most part, electric utilities
36 reduced debt and focused on improving their core business over the
37 past four years. Consequently, while many industries and companies
38 have recently been shut out of the capital markets, stronger utilities
39 have accessed both secured and unsecured markets. However,

¹"Q3 2008 Credit Ratings," EEI Q3 2008 *Financial Update*, emphasis added.

²Moody's Investors Service Industry Outlook: "U.S. Investor-Owned Electric Utilities," January 2009, emphasis added.

1 investor “flight to quality” is selective within the sector, favoring
2 companies at higher rating levels, with a marked preference for
3 secured debt and lending at the operating, rather than parent,
4 company.

5 * * *

6 **Key Drivers of the 2009 Outlook**

7 The positive and negative factors driving Fitch’s outlook in 2009
8 include:

9 **Positives**

- 10 • Continued capital market access in a difficult financing
11 environment, particularly for higher-rated regulated utilities and
12 pipelines.
- 13 • The decline in commodity prices from record peak levels will ease
14 cost pressures for materials and labor.
- 15 • Lower market prices for natural gas and electric power will be
16 neutral to beneficial to electric and gas distribution utilities, and in
17 many cases will reduce working capital needs and cash collateral
18 postings on hedging activities.

19 **Negatives**

- 20 • Higher marginal cost of debt.
- 21 • Depressed equity valuations.
- 22 • Liquidity and market access to remain fragile.
- 23 • Administration change creates uncertainty about national
24 environmental and tax and dividend policies.
- 25 • More stringent implementation of environmental regulations.
- 26 • Reduced electricity and gas consumption.
- 27 • Lower prices for natural gas and wholesale power, resulting in
28 reduced spark spreads and dark spreads for un-hedged
29 competitive power generators.
- 30 • Investor-owned and public power utilities may face resistance from
31 regulators and consumers to rate increases in a recessionary
32 environment.³

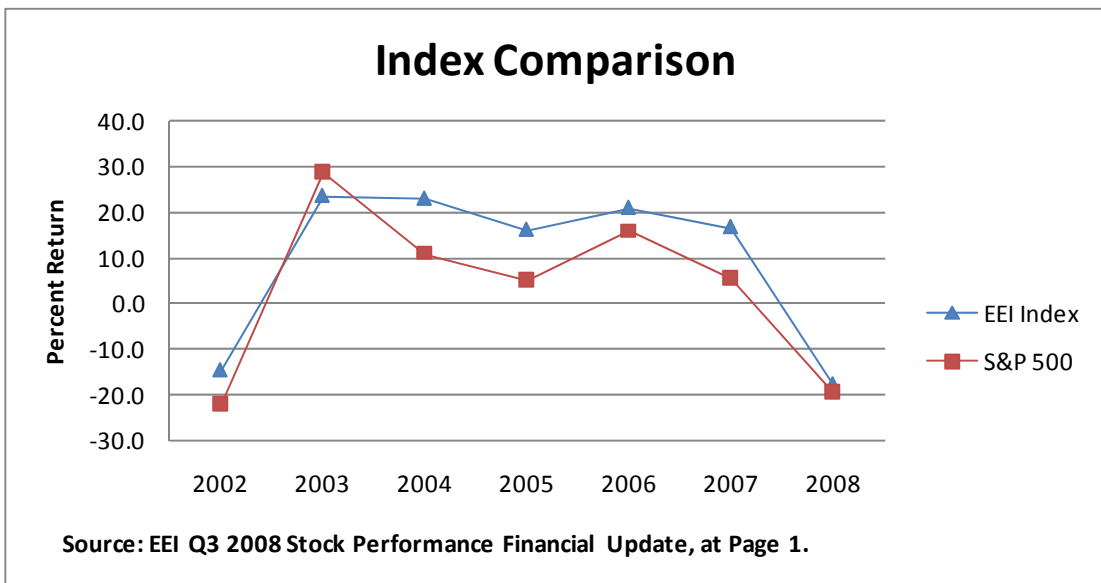
33 As noted by EEI, Moody’s and Fitch above, the regulated electric utility
34 industry is maintaining strong investment grade credit, and is well positioned to
35 weather the current economic downturn. Therefore, reasoned and rational
36 adjustments to KCPL’s rates would be appropriate to provide fair compensation, but

³ Fitch Ratings: “U.S. Utilities, Power and Gas 2009 Outlook,” December 22, 2008, emphasis added.

1 not excessive compensation, in an effort to improve KCPL's competitive position,
2 strengthen its credit, and support its distressed service territory.

3 **Q IS THERE EVIDENCE THAT ELECTRIC UTILITY STOCK PRICE PERFORMANCE**
4 **HAS BEEN STRONG OVER THE LAST FIVE YEARS?**

5 A Yes. As shown in the graph below, EEI has recorded electric utility stock price
6 performance compared to the market. The EEI data shows that its Electric Utility
7 Stock Index has outperformed the market in every year over the last five years.
8 Again, this strong stock performance indicates commission-authorized returns on
9 equity over the last several years have been positively received by the market.



10 As shown in the graph above, the EEI Electric Utility Index has outperformed
11 the market since 2003.

1 Q FOR 2008, THE ELECTRIC UTILITY STOCK AND THE OVERALL MARKET PRICE
2 PERFORMANCE HAS BEEN SIGNIFICANTLY NEGATIVE. DOES THIS TIME
3 PERIOD ALSO SUPPORT YOUR CONTENTION THAT REGULATED ELECTRIC
4 UTILITY STOCK PERFORMANCE HAS BEEN STRONG RELATIVE TO THE
5 MARKET?

6 A Yes. While clearly the market performance for all securities has been dismal
7 throughout 2008, the only positive signal from the market performance is the fact that
8 electric utility stocks and bonds have continued to be perceived by the market as
9 “safe” investments. Indeed, during times of market duress, the market generally
10 exhibits a “flight to quality” and lower-risk securities generally perform better than the
11 overall market and higher-risk securities. This has happened through the first three
12 quarters of 2008. For example, EEI noted the following concerning electric utility
13 stock performance in 2008:

14 **COMMENTARY**

15 The second quarter’s surge in energy-related stocks and commodities
16 sharply reversed in the third quarter, and the EEI Index posted a
17 -14.3% total return – strongly underperforming the Dow Jones
18 Industrials’ -3.7% return and the S&P 500’s -8.4% return (see Table
19 VIII).

20 The third quarter’s weakness was most evident in the Mostly
21 Regulated and Diversified categories, which returned -13.9% and
22 -15.5%, respectively, on a non-capitalization weighted basis (an
23 average of constituent company returns).

24 By contrast, the Regulated group offered something of a safe harbor
25 with a -0.3% return. Given their dependable dividend yields and slow
26 but steady growth, regulated utilities are often viewed as a safe haven
27 investment in times of market turmoil – a status that certainly
28 benefitted the category during the third quarter.⁴

29 This stock price performance again supports the notion that regulated electric
30 utilities are perceived by the market as safe haven investments, which will help

⁴“Q3 2008 Stock Performance,” EEI Q3 2008 *Financial Update*, emphasis added.

1 support their access to capital during difficult financial times. This is clearly evident
2 through a review of their stable credit outlook and stable stock prices, relative to the
3 securities of non-regulated companies.

4 **KCPL RISK FACTORS**

5 **Q PLEASE PROVIDE AN OVERVIEW OF KCPL'S INVESTMENT RISK.**

6 A KCPL has a Standard & Poor's (S&P) corporate and senior secured credit rating of
7 "BBB." S&P assigned the Company an "Excellent" business risk position rating and
8 an "Aggressive" financial risk position rating. These ratings represent normal
9 financial and operating risk for an integrated electric utility.

10 S&P concludes that KCPL's credit risk is affected by the greater risk of its
11 parent company, Great Plains Energy Inc. (GPE). KCPL's credit outlook was
12 positively impacted when GPE divested its non-regulated affiliates and focused on its
13 regulated business.

14 S&P stated as follows:

15 The ratings on Kansas City Power and Light Co. (KCP&L) reflect
16 parent Great Plains Energy Inc.'s consolidated credit profile. In
17 addition, Great Plains owns regulated Aquila Inc., which was acquired
18 in July 2008. The ratings also reflect KCP&L's excellent business
19 profile and Great Plains' aggressive financial profile. (The business
20 profile is ranked as excellent, strong, satisfactory, weak, or vulnerable,
21 and the financial profile is ranked as modest, intermediate, aggressive,
22 or highly leveraged.) Kansas City-based Great Plains Energy has
23 about \$2.8 billion of debt outstanding.

24 * * *

25 In most circumstances, Standard & Poor's will not rate a wholly owned
26 subsidiary higher than the parent. Exceptions can be made on the
27 basis of structural or regulatory insulation, which in the case of KCP&L,
28 in our view, is not present. Therefore, regardless of the excellent
29 business profile and relatively healthy financial condition of KCP&L as
30 a stand-alone basis, Standard & Poor's views the rating on KCP&L to

1 be affected by Great Plains' other, and financially weaker, regulated
2 utility business.

3 * * *

4 The excellent business profile reflects management's growth strategy
5 of increasing its investments in regulated electric assets. This includes
6 the acquisition of regulated assets (Aquila), the building of regulated
7 assets (comprehensive energy plan), and the sale of non-core,
8 unregulated assets (Strategic Energy). In June 2008, Great Plains
9 completed the sale of Strategic Energy, which had exposed Great
10 Plains to counterparty credit, market, customer demand, and
11 weather-related risks. Removing these risks enhanced the company's
12 business profile.⁵

13 KCPL's corporate and senior secured credit ratings from Moody's are "A3"
14 and "A2," respectively. Moody's stated the following:

15 **Rating Rationale**

16 KCPL's A3 long-term senior unsecured rating considers the company's
17 demonstrated ability to achieve good levels of cash flow from its
18 regulated operations and the challenging yet generally supportive
19 regulatory environments in Missouri and Kansas which should enable
20 KCPL to continue to recover capital invested, and earn a return on that
21 capital at a level adequate to maintain its solid investment-grade credit
22 profile. The rating also reflects the increased environmental
23 expenditures and large capital expansion program at KCPL which will
24 likely reduce financial flexibility in the near-term, less? reliance on the
25 wholesale power market for a sizeable portion of its revenues, and the
26 potential for increased dividend pressure from its parent company,
27 Great Plains Energy.

28 We note there is a two notch differential between KCPL (A3) and GP
29 (Baa2). The notching primarily reflects GP's structural subordination to
30 the cash flows of its subsidiaries, and the higher leverage at the newly
31 acquired operations at Aquila which are guaranteed by GP. We note
32 as well the increased reliance that Great Plains will have on KCPL for
33 up-streamed cash dividends as it tries to maintain its own consolidated
34 financial profile as it absorbs Aquila. While KCPL's credit metrics are
35 not expected to be initially affected by the Aquila transaction, the
36 outlook is also negative given our expectation for relative weakness in
37 key credit metrics due to the large capital spending program at the
38 utility.⁶

⁵ Standard & Poor's RatingsDirect: "Kansas City Power & Light Co.," September 19, 2008, emphasis added.

⁶ Moody's Investors Service Credit Opinion: "Kansas City Power & Light Company," July 16, 2008, emphasis added.

1 **KCPL'S PROPOSED CAPITAL STRUCTURE**

2 **Q WHAT CAPITAL STRUCTURE IS THE COMPANY REQUESTING TO USE TO**
3 **DEVELOP ITS OVERALL RATE OF RETURN FOR ELECTRIC OPERATIONS IN**
4 **THIS PROCEEDING?**

5 **A** KCPL's proposed capital structure, as supported by Dr. Samuel Hadaway, is shown
6 below in Table 1.

<u>Description</u>	<u>Percent of Total Capital</u>
Debt	45.47%
Preferred Stock	0.71%
Common Equity	<u>53.82%</u>
Total Regulatory Capital Structure	100.00%

Source: Hadaway Direct at 5.

7 **Q DO YOU HAVE ANY CONCERNS WITH THE COMPANY'S PROPOSED CAPITAL**
8 **STRUCTURE?**

9 **A** Yes. KCPL's proposed capital structure is heavily weighted with common equity and
10 therefore inflates its claimed revenue deficiency in this proceeding. Further, the
11 proposed capital structure is based on its parent company GPE's capital structure
12 rather the utility's stand-alone capital structure.

13 If this capital structure is used to set rates, the Commission should recognize
14 the abnormally high common equity ratio, which reduces its financial risk. The
15 Commission should therefore reduce the authorized return on equity to reflect this
16 reduced financial risk for this capital structure. Further, the capital structure reflects

1 significant planned equity additions that have not yet been made, and may not be
2 made through the end of the true-up period. As such, a conservative measure if the
3 Commission approves this capital structure would be to recognize the reduced
4 financial risk created by this equity thick capital structure and award KCPL a lower
5 return on equity.

6 **Q DO YOU HAVE ANY OTHER CONCERNS WITH THE PROPOSED CAPITAL**
7 **STRUCTURE?**

8 A Yes. The capital structure is in direct conflict with the commitments KCPL made in its
9 regulatory plan. In order to support an investment grade bond rating through the
10 construction of the Iatan 2 project, KCPL's regulatory plan targeted a total debt ratio
11 of 51%. In significant contrast, KCPL's proposed capital structure contains a debt
12 ratio of only 45.47%. This equates to a total debt ratio of 46.91%, when off-balance-
13 sheet debt equivalents and short-term debt are included, as shown on Highly
14 Confidential Schedule MPG-3. KCPL's proposed capital structure contains far more
15 equity than it anticipated in its regulatory plan. This inflated equity capital structure
16 unnecessarily increases KCPL's revenue requirements and its rates in this
17 proceeding.

18 **Q WHY DO YOU BELIEVE KCPL'S PROPOSED CAPITAL STRUCTURE INCLUDES**
19 **SIGNIFICANT AMOUNTS OF PLANNED EQUITY ISSUANCES THAT ARE NOT**
20 **LIKELY TO BE MADE IN THE TEST YEAR?**

21 A As outlined at page 6, KCPL witness Dr. Hadaway developed the Company's
22 proposed capital structure by including significant planned equity issuance proceeds
23 between the historical test year of December 31, 2007, and the forecasted test year

1 of March 31, 2009. That equity issuance has not been made through end of calendar
2 year 2008, and given the current state of the capital market is unlikely to be made
3 before March 31, 2009.

4 **Q WHY DO YOU BELIEVE THAT THE PROPOSED CAPITAL STRUCTURE IS**
5 **INCONSISTENT WITH THE FINANCIAL OBJECTIVES OUTLINED IN KCPL'S**
6 **REGULATORY PLAN?**

7 A As part of its regulatory plan in support of its investment grade credit rating during the
8 construction of the Iatan 2 project, KCPL agreed to certain financial benchmarks that
9 would help support its investment grade bond rating and cash flows during
10 construction of the Iatan 2 coal-fired plant. One of those financial benchmarks was
11 targeted to maintain a total debt to total capitalization ratio of 51%.

12 Many stakeholders agreed to these targets, in an effort to limit customers' cost
13 to support KCPL's credit rating while it constructs the Iatan 2 project. The Company's
14 proposed capital structure is directly contrary to these financial commitments.
15 KCPL's financing decisions should be held to the terms of the regulatory plan.

16 **Q WHY WOULD A CAPITAL STRUCTURE TOO HEAVILY WEIGHTED WITH**
17 **COMMON EQUITY UNNECESSARILY INCREASE KCPL'S COST OF SERVICE IN**
18 **THIS PROCEEDING?**

19 A A capital structure too heavily weighted with common equity unnecessarily increases
20 KCPL's claimed revenue deficiency, because common equity is the most expensive
21 form of capital and is subject to income tax expense. For example, if KCPL's
22 authorized return on equity is set at 10.30%, the revenue requirement cost to
23 customers would be approximately 16.5%, or 10.30% adjusted by a tax revenue

1 conversion factor of approximately 1.6x. In contrast, the cost of debt capital is not
2 subject to an income tax expense. KCPL's current marginal cost of debt is around
3 7.50%. As such, common equity is more than twice as expensive on a revenue
4 requirement basis than is debt capital.

5 Of course, a reasonable mix of debt and equity is necessary in order to
6 balance KCPL's financial risk, support an investment grade credit rating, and permit
7 KCPL access to capital under reasonable terms and prices. However, a capital
8 structure too heavily weighted with common equity will unnecessarily increase its cost
9 of capital and revenue requirement.

10 **RETURN ON COMMON EQUITY**

11 **Q PLEASE DESCRIBE WHAT IS MEANT BY A "UTILITY'S COST OF COMMON**
12 **EQUITY."**

13 **A** A utility's cost of common equity is the return investors expect, or require, in order to
14 make an investment. Investors expect to achieve their return requirement from
15 receiving dividends and stock price appreciation.

16 **Q PLEASE DESCRIBE THE FRAMEWORK FOR DETERMINING A REGULATED**
17 **UTILITY'S COST OF COMMON EQUITY.**

18 **A** In general, determining a fair cost of common equity for a regulated utility has been
19 framed by two decisions of the U.S. Supreme Court, in Bluefield Water Works &
20 Improvement Co. v. Public Serv. Commission of West Virginia, 262 U.S. 679 (1923)
21 and Federal Power Commission v. Hope Natural Gas Co., 320 U.S. 591 (1944).

22 These decisions identify the general standards to be considered in
23 establishing the cost of common equity for a public utility. Those general standards

1 provide that the authorized return should: (1) be sufficient to maintain financial
2 integrity; (2) attract capital under reasonable terms; and (3) be commensurate with
3 returns investors could earn by investing in other enterprises of comparable risk.

4 **Q PLEASE DESCRIBE THE METHODS YOU HAVE USED TO ESTIMATE THE COST**
5 **OF COMMON EQUITY FOR KCPL.**

6 A I have used several models based on financial theory to estimate KCPL's cost of
7 common equity. These models are: (1) a constant growth Discounted Cash Flow
8 (DCF) model; (2) a two-stage growth DCF model; (3) a multi-stage growth DCF
9 model; (4) a Risk Premium model; and (5) a Capital Asset Pricing Model (CAPM). I
10 have applied these models to a group of publicly traded utilities that I have
11 determined reflect investment risk similar to KCPL.

12 **Q HOW DID YOU SELECT A PROXY GROUP OF UTILITIES SIMILAR IN**
13 **INVESTMENT RISK TO KCPL TO ESTIMATE ITS CURRENT MARKET COST OF**
14 **EQUITY?**

15 A I relied on the same proxy group used by KCPL witness Dr. Hadaway to estimate
16 KCPL's return on equity.

17 **Q HOW DOES THE PROXY GROUP USED BY DR. HADAWAY COMPARE TO THE**
18 **INVESTMENT RISK OF KCPL?**

19 A The proxy group is shown on Schedule MPG-4. This proxy group has an average
20 senior secured credit rating from S&P of "BBB+," which is a notch higher than KCPL's
21 senior secured credit rating of "BBB." This proxy group's senior secured credit rating
22 from Moody's is "A3," which is a notch lower than KCPL's senior secured credit rating

1 from Moody's of "A2." As such, my proxy group has comparable total investment risk
2 to KCPL.

3 The proxy group has an average common equity ratio of 44.5% (including
4 short-term debt) from AUS and 49.9% (excluding short-term debt) from *Value Line*.
5 This proxy group's common equity ratio is comparable to my proposed common
6 equity ratio for KCPL of 53.82% (excluding short-term debt). Hence, KCPL has lower
7 financial risk compared to the proxy group.

8 The EEI operating designation for most of the companies in the proxy group is
9 "Regulated" or "Mostly Regulated." The average for all the companies is "Regulated,"
10 which indicates comparable operating risk to that of KCPL.

11 **Q PLEASE DESCRIBE EEI'S BUSINESS RISK ASSESSMENT OF ELECTRIC**
12 **UTILITY COMPANIES.**

13 **A** EEI rates publicly traded companies based on their relative exposure to regulated
14 and non-regulated operating risk. It uses three categories: "Regulated," "Mostly
15 Regulated" and "Diversified." EEI rates companies that have 80% or more of total
16 assets in regulated operations and designates them as "Regulated" entities. "Mostly
17 Regulated" entities are those companies that have 50% to 80% of total assets in
18 regulated operations. Finally, EEI rates companies with less than 50% of assets in
19 regulated enterprises as "Diversified" companies.⁷

⁷"Q3 2008 Stock Performance," EEI Q3 2008 *Financial Update*.

1 **Discounted Cash Flow Model**

2 **Q PLEASE DESCRIBE THE DCF MODEL.**

3 A The DCF model posits that a stock price is valued by summing the present value of
4 expected future cash flows discounted at the investor's required rate of return (ROR)
5 or cost of capital. This model is expressed mathematically as follows:

6
$$P_0 = \frac{D_1}{(1+K)^1} + \frac{D_2}{(1+K)^2} + \dots + \frac{D_\infty}{(1+K)^\infty}$$
 where (Equation 1)

7
8 P_0 = Current stock price

9 D = Dividends in periods 1 - ∞

10 K = Investor's required return

11 This model can be rearranged in order to estimate the discount rate or investor
12 required return, "K." If it is reasonable to assume that earnings and dividends will
13 grow at a constant rate, then Equation 1 can be rearranged as follows:

14
$$K = D_1/P_0 + G$$
 (Equation 2)

15 K = Investor's required return

16 D_1 = Dividend in first year

17 P_0 = Current stock price

18 G = Expected constant dividend growth rate

19 Equation 2 is referred to as the annual "constant growth" DCF model.

20 **Q PLEASE DESCRIBE THE INPUTS TO YOUR CONSTANT GROWTH DCF MODEL.**

21 A As shown under Equation 2 above, the DCF model requires a current stock price,
22 expected dividend, and expected growth rate in dividends.

1 Q WHAT STOCK PRICE AND DIVIDEND HAVE YOU RELIED ON IN YOUR
2 CONSTANT GROWTH DCF MODEL?

3 A I relied on the average of the weekly high and low stock prices over a 13-week period
4 ended January 16, 2009. An average stock price is less susceptible to market price
5 variations than is a spot price. Therefore, an average stock price is less susceptible
6 to aberrant market price movements, which may not be reflective of the stock's
7 long-term value.

8 A 13-week average stock price is short enough to contain data that
9 reasonably reflects current market expectations, but is not so short a period as to be
10 susceptible to market price variations that may not be reflective of the security's
11 long-term value. Therefore, in my judgment, a 13-week average stock price is a
12 reasonable balance between the need to reflect current market expectations and the
13 need to capture sufficient data to smooth out aberrant market movements.

14 I used the most recently paid quarterly dividend, as reported in *The Value Line*
15 *Investment Survey*. This dividend was annualized (multiplied by 4) and adjusted for
16 next year's growth to produce the D1 factor for use in Equation 2 above.

17 Q WHAT DIVIDEND GROWTH RATES HAVE YOU USED IN YOUR CONSTANT
18 GROWTH DCF MODEL?

19 A There are several methods one can use in order to estimate the expected growth in
20 dividends. However, for purposes of determining the market required return on
21 common equity, one must attempt to estimate investors' consensus about what the
22 dividend or earnings growth rate will be, and not what an individual investor or analyst
23 may use to form individual investment decisions.

1 Security analysts' growth estimates have been shown to be more accurate
2 predictors of future returns than growth rates derived from historical data because
3 they are more reliable estimates.⁸ Assuming the market generally makes rational
4 investment decisions, analysts' growth projections are more likely the growth
5 estimates considered by the market that influence observable stock prices than are
6 growth rates derived from only historical data.

7 For my constant growth DCF analysis, I have relied on a consensus, or mean,
8 of professional security analysts' earnings growth estimates as a proxy for the
9 investor consensus dividend growth rate expectations. I used the average of two
10 sources of analysts' growth rate estimates: Zacks and SNL Financial. All consensus
11 analysts' projections used were available on January 19, 2009, as reported on-line.

12 Each consensus growth rate projection is based on a survey of security
13 analysts. The consensus estimate is a simple arithmetic average, or mean, of
14 surveyed analysts' earnings growth forecasts. A simple average of the growth
15 forecasts gives equal weight to all surveyed analysts' projections. It is problematic as
16 to whether any particular analyst's forecast is most representative of general market
17 expectations. Therefore, a simple average, or arithmetic mean, of analyst forecasts is
18 a good proxy for market consensus expectations. The growth rates I used in my DCF
19 analysis are shown on Schedule MPG-5.

20 **Q WHAT ARE THE RESULTS OF YOUR CONSTANT GROWTH DCF MODEL?**

21 A As shown on Schedule MPG-6, the constant growth DCF return for the proxy group is
22 12.02%.

⁸See, e.g., David Gordon, Myron Gordon, and Lawrence Gould, "Choice Among Methods of Estimating Share Yield," The Journal of Portfolio Management, Spring 1989.

1 Q DO YOU HAVE ANY COMMENTS CONCERNING THE RESULTS OF YOUR
2 CONSTANT GROWTH DCF ANALYSIS?

3 A Yes. The constant growth DCF return is not reasonable and represents an inflated
4 return for KCPL at this time. The average three- to five-year growth rate for the proxy
5 group is 6.60% (shown on Schedule MPG-6). This growth rate is far too high to be a
6 rational estimate of the proxy group's long-term sustainable growth. Because the
7 current three- to five-year growth rate is too high to be a reasonable long-term
8 sustainable growth rate estimate, the constant growth DCF model is currently
9 producing an inflated DCF return and should not be used in the calculation of KCPL's
10 return on equity.

11 Q WHY DO YOU BELIEVE THE PROXY GROUP'S THREE- TO FIVE-YEAR
12 GROWTH RATE IS IN EXCESS OF A RATIONAL ESTIMATE OF LONG-TERM
13 SUSTAINABLE GROWTH?

14 A The three- to five-year growth rate of the proxy group exceeds the growth rate of the
15 overall U.S. economy. As developed below, the consensus of published economists
16 projects that the U.S. GDP will grow at a rate of no more than 5.0% over the next
17 10 years. A company cannot grow, indefinitely, at a faster rate than the market in
18 which it sells its products. The U.S. economy, or GDP, growth projection represents
19 a ceiling, or high-end, sustainable growth rate for a utility over an indefinite period of
20 time.

1 **Q WHY IS THE GDP GROWTH PROJECTION CONSIDERED A CEILING GROWTH**
2 **RATE FOR A UTILITY?**

3 A Utilities cannot indefinitely sustain a growth rate that exceeds the growth rate of the
4 overall economy. Utilities' earnings/dividend growth is created by increased utility
5 investment or rate base. Utility plant investment, in turn, is driven by service area
6 economic growth and demand for utility service. In other words, utilities invest in
7 plant to meet sales demand growth, and sales growth in turn is tied to economic
8 growth in their service areas. The Energy Information Administration (EIA) has
9 observed that utility sales growth is less than U.S. economic growth, as shown on
10 Schedule MPG-7. Utility sales growth has lagged the GDP growth. Hence, nominal
11 GDP growth is a very conservative, albeit overstated, proxy for electric utility sales
12 growth, rate base growth, and earnings growth. Therefore, GDP growth is a
13 reasonable proxy for the highest sustainable long-term growth rate of a utility.

14 **Q HOW DO THE PROXY GROUP'S HISTORIC GROWTH RATES COMPARE TO**
15 **HISTORICAL NOMINAL GDP GROWTH RATES?**

16 A As shown on Schedule MPG-8, the historical growth of the proxy group's dividend
17 (columns 1 & 2) is lower than the historical nominal GDP growth (columns 7 and 8).
18 Over the last five and ten years, my proxy group's dividend growth was lower than the
19 inflation growth (columns 4 and 5).

20 *Value Line* projections indicate that dividend growth will be similar to the
21 projected nominal GDP growth over the next three to five years.

22 This historical perspective confirms the robust outlook for earnings growth
23 over the next three to five years, and supports my contention that current three- to

1 five-year earnings growth projections are not reasonable estimates of sustainable
2 long-term growth.

3 While history may not provide all information needed to form forward
4 expectations, this historical relationship strongly supports the contention that
5 forward-looking utility earnings growth will not exceed nominal GDP growth for a
6 sustained long-term period and the actual growth will likely trail nominal GDP growth
7 over long-term periods.

8 **Q IS THERE RESEARCH THAT SUPPORTS YOUR CONTENTION THAT OVER THE**
9 **LONG TERM, A COMPANY'S EARNINGS AND DIVIDENDS CANNOT GROW AT**
10 **A RATE GREATER THAN THE GROWTH OF THE U.S. GDP?**

11 A Yes. This concept is supported both in published analyst literature and in academic
12 work. Specifically, in a textbook entitled "Fundamentals of Financial Management,"
13 published by Eugene Brigham and Joel F. Houston, the authors stated as follows:

14 The constant growth model is most appropriate for mature companies
15 with a stable history of growth and stable future expectations.
16 Expected growth rates vary somewhat among companies, but
17 dividends for mature firms are often expected to grow in the future at
18 about the same rate as nominal gross domestic product (real GDP
19 plus inflation).⁹

20 Also, Morningstar's Stocks, Bonds, Bills and Inflation 2008 Yearbook
21 Valuation Edition tracked dividends of the stock market in comparison to GDP growth
22 over the period 1926 through the end of 2007.¹⁰ Based on that study, the authors
23 found that earnings and dividends for the market have historically grown in tandem
24 with the overall economy. It is important to note that the growth of companies

⁹"Fundamentals of Financial Management," Eugene F. Grigham and Joel F. Houston, Eleventh Edition 2007, Thomson South-Western, a Division of Thomson Corporation at 298.

¹⁰*Stocks, Bonds, Bills and Inflation 2008 Yearbook Valuation Edition* (Morningstar, Inc.) at 92-93.

1 included in the overall market will normally be higher than that of utility companies.
2 These non-utility companies achieve a higher level of growth because they retain a
3 larger percentage of their earnings and pay out a much smaller percentage of their
4 earnings as dividends. Retaining higher percentages of total earnings fuels stronger
5 growth for these non-utility companies. Since the market in general grows at the
6 overall GDP growth rate, it is very conservative to assume that utility companies
7 could achieve this same level of sustained growth without a material reduction in their
8 dividend payout ratios. As such, using the GDP as a maximum sustainable growth
9 rate is a very conservative and high-end estimate for utility companies.

10 **Q IS THERE A WAY OF TESTING WHETHER IT IS RATIONAL TO EXPECT THAT**
11 **THE ANALYSTS' THREE- TO FIVE-YEAR EARNINGS GROWTH OUTLOOKS ARE**
12 **A REASONABLE ESTIMATE OF SUSTAINABLE LONG-TERM GROWTH?**

13 A Yes. This can be gauged using an internal growth rate calculation for the companies
14 included in the proxy group using *Value Line's* three- to five-year earnings and
15 dividends projections, and estimated earned return on equity. An internal growth rate
16 methodology estimates the sustainable growth rate based on the percentage of the
17 utility's earnings that are retained in the company and reinvested in utility plant and
18 equipment. These reinvested earnings then increase the earnings base, and will
19 increase the earned return on equity as those additional earnings are put into service
20 and the company is allowed to earn its authorized return on the additional investment.

21 The internal growth methodology is tied to the percentage of earnings retained
22 in the Company and not paid out as dividends. The earnings retention ratio is 1
23 minus the dividend payout ratio. As the payout ratio declines, the earnings retention
24 ratio increases. An increased earnings retention ratio will fuel stronger growth

1 because the business funds more investments with retained earnings. As shown on
2 Schedule MPG-9, *Value Line* projects the proxy group to have a declining dividend
3 payout ratio over the next three to five years. These dividend payout ratios and
4 earnings retention ratios can then be used to develop a sustainable long-term
5 earnings retention growth rate to help gauge whether or not analysts' current three- to
6 five-year growth rate projections can be sustained over an indefinite period of time.

7 As shown on Schedule MPG-10, the average sustainable growth rate for the
8 proxy group using this internal growth rate model is approximately 4.30%.

9 Using the proxy group average growth rate of 6.60%, and a three- to five-year
10 projected dividend payout ratio of 60.15%, would require an earned return on book
11 equity of 16.56% to support a long-term sustainable growth rate of 6.60%. In
12 comparison, *Value Line* is projecting a group average return on book equity of
13 10.61%. Again, this information supports my conclusion that current analysts'
14 three- to five-year earnings growth projections are not sustainable, and will decline
15 over time.

16 **Q COULD YOU CONSTRUCT A CONSTANT GROWTH DCF STUDY USING YOUR**
17 **SUSTAINABLE GROWTH RATE OF 4.30%?**

18 **A** Yes. However, the sustainable growth rate does not reflect the expectation that
19 analysts and investors anticipate exceptionally high growth over the next three to five
20 years. However, the sustainable growth rate in combination with three- to five-year
21 analysts' growth rate expectations, can be used to proxy a long-term sustainable
22 growth rate estimate that reflects exceptionally high growth over the next three to five
23 years.

1 As such, using a composite weight of the analysts' growth rate estimates, and
2 the sustainable growth rate can be used to develop a sustainable long-term growth
3 rate for use in a constant growth model. I develop this modified growth rate by
4 applying two-thirds weight to the analysts' growth rate estimates, and one-third weight
5 to this sustainable growth rate. This constant growth DCF study is shown on my
6 Schedule MPG-11. As shown on that schedule, using a modified estimate of long-
7 term sustainable growth in this version of the constant growth DCF study, produces a
8 constant growth DCF result of 11.25%.

9 **Q HAVE YOU CONDUCTED ANY OTHER DCF STUDIES?**

10 A Yes. My first constant growth DCF is based on consensus analysts' growth rate
11 projections, so it is a reasonable reflection of rational investment expectations over
12 the next three to five years. The limitation on the constant growth DCF model is that
13 it cannot reflect a rational expectation that a period of high/low short-term growth can
14 be followed by a change in growth to a rate that is more reflective of long-term
15 sustainable growth. Hence, I performed two-stage and multi-stage growth DCF
16 analyses to reflect this outlook of changing growth expectations.

17 **Two-Stage Growth DCF Model**

18 **Q PLEASE DESCRIBE YOUR TWO-STAGE GROWTH DCF MODEL.**

19 A The two-stage growth DCF model reflects the possibility of non-constant growth for a
20 company over time. The two-stage growth model reflects two growth periods: (1) a
21 short-term growth period, which consists of the first five years; and (2) a long-term
22 growth period, which consists of each year starting in year six through perpetuity. For
23 the short-term growth period, I relied on the consensus analysts' growth projections

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1 described above in relationship to my constant growth DCF model. For the long-term
2 growth period, I assumed each company's growth would converge on the maximum
3 sustainable growth rate for a utility company as proxied by the consensus analysts'
4 projected growth for the U.S. GDP.

5 **Q WHAT DO YOU BELIEVE IS A REASONABLE SUSTAINABLE LONG-TERM**
6 **GROWTH RATE?**

7 A A reasonable growth rate that can be sustained in the long run should be based on
8 consensus analysts' projections. *The Blue Chip Economic Indicators* publishes
9 consensus gross domestic product (GDP) growth projections twice a year. Based on
10 its latest issue, the consensus economists' published five- to ten-year GDP growth
11 rate outlook is 5.0% to 4.8%.¹¹

12 **Q HAVE YOU CONSIDERED OTHER ESTIMATES OF LONG-TERM SUSTAINABLE**
13 **GROWTH RATE?**

14 A Yes. In the recent AmerenUE order (ER-2008-0318), the MPSC stated a preference
15 for Morningstar's GDP growth projection. However, Morningstar does not project a
16 specific GDP growth rate. Rather, it proposes a methodology to derive an expected
17 GDP growth using historical data, and the Treasury bond market data.

18 I relied on Morningstar's methodology to derive a GDP forecast on my
19 Schedule MPG-12. On that schedule, based on Morningstar's methodology, I derived
20 an inflation rate projection using contemporary 20-year Treasury Inflation-Protected
21 Securities (TIPS) and 20-year Treasury bond yields over the 13-week period ending
22 January 16, 2009. This produced a 20-year inflation outlook of 1.08%. Then,

¹¹*Blue Chip Economic Indicators*, October 10, 2008 at 15.

1 consistent with Morningstar's methodology, I combined this 20-year inflation
2 projection with the historical real GDP growth rate of 3.47%, that was realized over
3 the period 1929-2008 using Morningstar's methodology and current market data,
4 which produced a 20-year GDP growth rate outlook of 4.55%.

5 **Q WHAT GDP GROWTH RATE DO YOU PROPOSE TO USE AS A SUSTAINABLE**
6 **LONG-TERM GROWTH RATE IN YOUR DCF ANALYSES?**

7 A I propose to use the consensus economists' projected five- and ten-year GDP
8 consensus growth rate of 4.9%. This consensus GDP growth forecast represents the
9 most likely views of market participants, because it is based on published economist
10 projections. Further, considering the current market environment, the consensus
11 GDP projections provides a conservative proxy of sustainable long-term growth.
12 Therefore, in my two-stage and multi-stage DCF analyses, I will rely on the
13 consensus GDP growth rate of 4.9% as published by the *Blue Chip Economic*
14 *Indicators* as an estimate of sustainable long-term growth.

15 **Q WHAT STOCK PRICE, DIVIDEND AND GROWTH RATES DID YOU USE IN YOUR**
16 **TWO-STAGE GROWTH DCF ANALYSIS?**

17 A I relied on the same 13-week stock price and the most recent quarterly dividend
18 payment discussed above. For stage one growth, I used the consensus analysts'
19 growth rate projections discussed above in my constant growth DCF model. For the
20 long-term sustainable growth rate starting in year six, I used 4.9%, the average of the
21 consensus economists' five- to ten-year projected nominal GDP growth rate (4.8% to
22 5.0%).

1 Q WHAT ARE THE RESULTS OF YOUR TWO-STAGE GROWTH DCF MODEL?

2 A As shown on Schedule MPG-13, the two-stage growth DCF return on equity result for
3 the proxy group is 10.59%.

4 **Multi-Stage Growth DCF Model**

5 Q PLEASE DESCRIBE YOUR MULTI-STAGE GROWTH DCF MODEL.

6 A Similar to the two-stage growth DCF, the multi-stage growth DCF model reflects the
7 possibility of non-constant growth for a company over time. The multi-stage growth
8 DCF model reflects three growth periods: (1) a short-term growth period, which
9 consists of the first five years; (2) a transition period, which consists of the next five
10 years (6 through 10); and (3) a long-term growth period, which consists of each year
11 starting in year 11 through perpetuity. This multi-stage growth DCF model differs
12 from the two-stage growth model by allowing for a longer period of abnormally high
13 growth and a more gradual decline from the abnormally high short-term growth rate to
14 a lower long-term sustainable growth rate.

15 For the short-term growth period, I relied on the consensus analysts' growth
16 projections described above in relationship to my constant growth DCF model. For
17 the transition period the growth rates were reduced or increased by an equal factor,
18 which reflects the difference between the analysts' growth rates and the GDP growth
19 rate. For the long-term growth period, I assumed each company's growth would
20 converge to the maximum sustainable growth rate for a utility company as proxied by
21 the consensus analysts' projected growth for the U.S. GDP of 4.9%.

1 Q WHAT STOCK PRICE AND DIVIDEND DID YOU USE IN YOUR MULTI-STAGE
2 GROWTH DCF ANALYSIS?

3 A I relied on the same 13-week average stock price as used in my constant growth DCF
4 model, and the most recent annualized quarterly dividend payment.

5 Q WHAT ARE THE RESULTS OF YOUR MULTI-STAGE GROWTH DCF MODEL?

6 A As shown on Schedule MPG-14, the multi-stage growth DCF return on equity for the
7 proxy group is 10.75%.

8 **DCF Quarterly Compounding Adjustment**

9 Q HAVE YOU INCLUDED A QUARTERLY COMPOUNDING ADJUSTMENT TO
10 YOUR DCF RESULTS DESCRIBED ABOVE?

11 A No. In the Empire District Order ER-2008-093, and the recent AmerenUE Order
12 ER-2008-0318, the Commission included a 5 basis point adjustment to the DCF
13 return estimates to reflect quarterly compounding. If the Commission chooses to
14 include that 5 basis point adjustment again in this case, then it should add it to the
15 results of my DCF studies shown in Table 2 below.

16 Q DO YOU BELIEVE IT IS APPROPRIATE TO INCREASE YOUR DCF RETURN
17 ESTIMATE FOR A 5 BASIS POINT QUARTERLY COMPOUNDING
18 ADJUSTMENT?

19 A No. Including the quarterly compounding adjustment to KCPL's authorized return on
20 equity is inappropriate. By including a quarterly compounding adjustment to a DCF
21 return estimate, shareholders will be permitted to earn the dividend reinvestment
22 return twice: (1) through the authorized return on equity, and (2) through actual

1 receipt of dividends and the reinvestment of those dividends throughout the year.
2 This double counting of the dividend reinvestment return is not just and reasonable,
3 and will unjustly inflate KCPL's retail price.

4 **Q PLEASE EXPLAIN WHY THE QUARTERLY COMPOUNDING RETURN SHOULD**
5 **NOT BE INCLUDED IN KCPL'S AUTHORIZED RETURN ON EQUITY.**

6 A Simply put, the quarterly compounding component of the return is not a cost to the
7 utility. Only the utility's cost of common equity capital should be included in the
8 authorized return on equity.

9 This issue surrounds whether or not the DCF return estimate should include
10 the expectations by investors that they will receive cash flows within the year, that can
11 be reinvested in other investments of comparable risk, and thus the cash flows will
12 produce compounded returns throughout the year. The relevant issue for setting
13 rates is whether or not that reinvestment return is a cost to the utility. It is not!

14 I believe the reinvestment return is not a cost to the utility and should therefore
15 not be included in the authorized return on equity. I believe while it is reasonable for
16 investors to expect to have the opportunity to earn the compounded return produced
17 by cash flows received within the year, the compound return is not paid to investors
18 by the utility.

19 **Q CAN YOU PROVIDE AN EXAMPLE OF WHY THE COMPOUNDING RETURN**
20 **ESTIMATE IS NOT A COST TO THE UTILITY?**

21 A Yes. I will provide two examples to help illustrate this point. First, the compounding
22 issue is also relevant in estimating the cost to the utility of an outstanding utility bond.
23 Most utility bonds pay a coupon every six months. The utility annual cost paid to the

1 bond investor is the sum of the two semi-annual coupon payments. However, a bond
2 investor expects to receive the semi-annual coupon payments from the utility, but
3 also has an opportunity to reinvest the first coupon payment for the remaining six
4 months of the year to enhance his end-of-year return. This compound return
5 component is, however, not a cost to the utility because the utility does not pay the
6 extra return.

7 For example, assume KCPL has an outstanding bond with a face value of
8 \$1,000, at an interest rate of 6% which is paid in two semi-annual \$30 coupon
9 payments. KCPL's cost of this bond is 6%. This 6% cost to KCPL is based on a
10 \$30 coupon payment paid in month 6 and month 12 for an annual payment of \$60
11 relative to the \$1,000 face value of the bond. However, the bond investor would have
12 an annual expected return on this bond of 6.1%. This annual expected return would
13 be realized by receiving the first \$30 semi-annual coupon payment from KCPL and
14 reinvesting it for the remaining six months of the year. This would produce \$0.89 of
15 semi-annual compounding return ($\$30 \times [(1.06)^{\frac{1}{2}} - 1]$). Hence, the bond investor
16 would receive \$60 from KCPL, and \$0.89 from investing the first coupon for a total
17 annual return of 6.09%, or 6.1%.

18 Importantly, if KCPL were to recover a 6.1% cost of this bond in its cost of
19 service, and paid that return out to the bond investor, then the bond investor would
20 receive \$60.89 from KCPL, rather than the \$60.00 actual cost, but the bond investor
21 could still reinvest the semi-annual coupon, now \$30.89 for the remaining 6 months of
22 the year. This would provide the investor with the reinvestment return twice, once
23 from utility ratepayers, and a second time after the semi-annual coupon payment was
24 paid and reinvested.

1 Reflecting this compounding assumption in the authorized return on equity
2 therefore will double count the reinvestment return opportunity.

3 **Q DOES THIS EXAMPLE ALSO APPLY TO UTILITY STOCK INVESTMENTS?**

4 A Yes. Assume now that an investor purchased KCPL stock for \$100, and expects to
5 receive four quarterly dividends of \$1.50, or \$6.00 per year. The expected cost to the
6 utility of this dividend payment over the year would be \$6.00, or 6.0%. However, the
7 expected effective yield of the dividend to investors would be 6.13% because the
8 quarterly dividends could be reinvested for the remaining term of the year. Hence,
9 the expected end-of-year value of those four \$1.50 quarterly dividend payments to
10 the investor would be \$6.13.¹² Again, the utility pays \$6.00 of annual dividends. The
11 \$0.13 is not paid to investors from the utility, but is rather earned in the other
12 investments that earn the same return, which the dividends were invested in
13 throughout the year.

14 Importantly, the reinvestment return of the dividends is not paid by the utility,
15 and therefore is not part of the utility's cost of capital. Again, if this dividend
16 reinvestment return is included in the utility's authorized return on equity, then
17 investors will receive the dividend reinvestment return twice, once through the
18 authorized return on equity, and a second time when dividends are actually received
19 by investors and reinvested.

20 **Q PLEASE SUMMARIZE THE RESULTS FROM YOUR DCF ANALYSIS.**

21 A The results from my DCF analysis are summarized in the table below:

¹² $1.5 \times (1.06)^{.75} + 1.5 \times (1.06)^{.5} + 1.5 \times (1.06)^{.25} + 1.5 = \$6.13.$

TABLE 2	
<u>Summary of DCF Results</u>	
<u>Description</u>	<u>Proxy Group</u>
Constant Growth DCF (Analysts' Growth)	12.02%
Constant Growth DCF (Composite Long-Term Growth)	11.25%
Two-Stage Growth DCF Model	10.59%
Multi-Stage Growth DCF Model	<u>10.75%</u>
Average DCF	11.15%

1 The average of my DCF studies is 11.15%.

2 **Risk Premium Model**

3 **Q PLEASE DESCRIBE YOUR BOND YIELD PLUS RISK PREMIUM MODEL.**

4 A This model is based on the principle that investors require a higher return to assume
5 greater risk. Common equity investments have greater risk than bonds because
6 bonds have more security of payment in bankruptcy proceedings than common equity
7 and the coupon payments on bonds represent contractual obligations. In contrast,
8 companies are not required to pay dividends on common equity, or to guarantee
9 returns on common equity investments. Therefore, common equity securities are
10 considered to be more risky than bond securities.

11 This risk premium model is based on two estimates of an equity risk premium.
12 First, I estimated the difference between the required return on utility common equity
13 investments and Treasury bonds. The difference between the required return on
14 common equity and the bond yield is the risk premium. I estimated the risk premium
15 on an annual basis for each year over the period 1986 through the third quarter of
16 2008. The common equity required returns were based on regulatory commission-

1 authorized returns for electric utility companies. Authorized returns are typically
2 based on expert witnesses' estimates of the contemporary investor required return.

3 The second equity risk premium method is based on the difference between
4 regulatory commission-authorized returns on common equity and contemporary
5 "A" rated utility bond yields. This time period was selected because over the period
6 1986 through the third quarter of 2008, public utility stocks have consistently traded at
7 a premium to book value. This is illustrated on Schedule MPG-15, where the market
8 to book ratio since 1986 for the electric utility industry was consistently above 1.0.
9 Therefore, over this time period, regulatory authorized returns were sufficient to
10 support market prices that at least exceeded book value. This is an indication that
11 regulatory authorized returns on common equity supported a utility's ability to issue
12 additional common stock, without diluting existing shares. It further demonstrates that
13 utilities were able to access equity markets without a detrimental impact on current
14 shareholders.

15 Based on this analysis, as shown on Schedule MPG-16, the average indicated
16 equity risk premium over U.S. Treasury bond yields has been 5.09%. Of the 23
17 observations, 17 indicated risk premiums fall in the range of 4.40% to 6.01%. Since
18 the risk premium can vary depending upon market conditions and changing investor
19 risk perceptions, I believe using an estimated range of risk premiums provides the
20 best method to measure the current return on common equity using this
21 methodology.

22 As shown on Schedule MPG-17, the average indicated equity risk premium
23 over contemporary Moody's utility bond yields was 3.69% over the period 1986
24 through the third quarter of 2008. The equity risk premium estimates based on this
25 analysis primarily fall in the range of 3.03% to 4.39% over this time period.

1 Q DO YOU BELIEVE THAT THIS RISK PREMIUM IS BASED ON A TIME PERIOD
2 THAT IS TOO LONG OR TOO SHORT TO DRAW ACCURATE RESULTS
3 CONCERNING CONTEMPORARY MARKET CONDITIONS?

4 A No. Contemporary market conditions can change dramatically during the period rates
5 determined in this proceeding will be in effect. Therefore, relying on a relatively long
6 period of time, where stock valuations reflect premiums to book value, is an indication
7 that the authorized returns on equity, and the corresponding equity risk premiums
8 were supportive of investors' return expectations, and provided utilities' access to the
9 equity markets under reasonable terms and conditions. While market conditions and
10 risk premiums do vary over time, this historical time period is a reasonable period to
11 estimate contemporary risk premiums.

12 The time period I use in this risk premium I would also note is a generally
13 accepted period to develop a risk premium study using this type of expectational
14 data. For example, KCPL's own witness Dr. Hadaway develops his risk premium
15 using the time period 1980-2007,¹³ which is comparable to the time period I am
16 proposing in this testimony. Conversely, witnesses that use an actual achieved
17 return risk premium study would normally use very long time periods because annual
18 actual achieved returns can vary significantly throughout the study period, and the
19 annual returns may not reflect investors' expectations. However, taking averages
20 over very long periods of time, it is reasonable to assume that averages of annual
21 returns over long time periods will generally converge on the investors' expected
22 returns.

¹³ Schedule SLH-6.

1 Q **BASED ON HISTORICAL DATA, WHAT RISK PREMIUM HAVE YOU USED TO**
2 **ESTIMATE KCPL'S COST OF EQUITY IN THIS PROCEEDING?**

3 A The equity risk premium should reflect the relative market perception of risk in the
4 utility industry today. I have gauged investor perceptions in utility risk today on
5 Schedule MPG-18. On that schedule, I show the yield spread between utility bonds
6 and Treasury bonds over the last 28 years. As shown on this schedule, the 2008
7 utility bond yield spreads over Treasury bonds for "A" rated and "Baa" rated utility
8 bonds are 2.23% and 2.93%, respectively. These utility bond yield spreads over
9 Treasury bond yields are much higher than the 28-year average spreads of 1.59%
10 and 1.96%, respectively.

11 Q **HOW DID YOU ESTIMATE KCPL'S COST OF COMMON EQUITY WITH THIS RISK**
12 **MODEL?**

13 A I added a projected long-term Treasury bond yield to my estimated equity risk
14 premium over Treasury yields. *Blue Chip Financial Forecasts* projects the 30-year
15 Treasury bond yield to be 4.0%, and a 10-year Treasury bond yield to be 3.5%.¹⁴
16 Using the projected 30-year bond yield of 4.0%, and a Treasury bond risk premium of
17 4.40% to 6.01%, as developed above, produces an estimated common equity return
18 in the range of 8.40% to 10.01%. I recommend a risk premium return above the
19 midpoint, 9.21%, of this range to reflect the above average utility bond yield spread in
20 this market. Therefore, using this methodology and recognizing the abnormally high
21 yield spread, I recommend a range at this point in time based on the midpoint
22 estimate of 9.21% and the high-end estimate of 10.01%. This produces a
23 recommended return on equity of 9.61%.

¹⁴*Id.*

1 I next added my equity risk premium over utility bond yields to a current
2 13-week average yield on "Baa" rated utility bonds for the period ending January 16,
3 2009 of 8.44%, see Schedule MPG-19. Adding the utility equity risk premium of
4 3.03% to 4.39%, as developed above, to an "Baa" rated bond yield of 8.44%,
5 produces a cost of equity in the range of 11.47% to 12.83%. I recommend the risk
6 premium at the low end of this return estimate at this point in time. As shown on my
7 Schedule MPG-19, utility bond yields reached very high levels during this 13-week
8 average period. Indeed, during late October through December, utility bond yields
9 increased dramatically over the 13-week average. More recent "Baa" utility bond
10 yields have been in the mid to high 7% range. As shown on page 2 of Schedule
11 MPG-19, current contemporary "Baa" utility bond yield is less than 8.0%, but this yield
12 is still relatively high compared to those yields over the last 12 months. Hence, an
13 average risk premium of a 7.5% utility bond yield that reflects a 12-month perspective
14 of this yield would indicate a return on equity of around 11.2%. As such, I
15 recommend the low end of my return estimate using the 13-week average bond
16 yields to reflect relatively high 13-week average yield, and the expectations of
17 declines to corporate utility bond yields during the period rates determined in this
18 proceeding will be in effect.

19 My risk premium analyses produce a return estimate in the range of 9.61% to
20 11.47%, with a midpoint estimate of 10.54%.

21 **Capital Asset Pricing Model**

22 **Q PLEASE DESCRIBE THE CAPM.**

23 A The CAPM method of analysis is based upon the theory that the market required rate
24 of return for a security is equal to the risk-free rate, plus a risk premium associated

1 with the specific security. This relationship between risk and return can be expressed
2 mathematically as follows:

3 $R_i = R_f + B_i \times (R_m - R_f)$ where:

4 R_i = Required return for stock i

5 R_f = Risk-free rate

6 R_m = Expected return for the market portfolio

7 B_i = Beta - Measure of the risk for stock

8 The stock-specific risk term in the above equation is beta. Beta represents
9 the investment risk that cannot be diversified away when the security is held in a
10 diversified portfolio. When stocks are held in a diversified portfolio, firm-specific risks
11 can be eliminated by balancing the portfolio with securities that react in the opposite
12 direction to firm-specific risk factors (e.g., business cycle, competition, product mix
13 and production limitations).

14 The risks that cannot be eliminated when held in a diversified portfolio are
15 nondiversifiable risks. Nondiversifiable risks are related to the market in general and
16 are referred to as systematic risks. Risks that can be eliminated by diversification are
17 regarded as nonsystematic risks. In a broad sense, systematic risks are market risks,
18 and nonsystematic risks are business risks. The CAPM theory suggests that the
19 market will not compensate investors for assuming risks that can be diversified away.
20 Therefore, the only risk that investors will be compensated for are systematic or
21 nondiversifiable risks. The beta is a measure of the systematic or nondiversifiable
22 risks.

23 **Q PLEASE DESCRIBE THE INPUTS TO YOUR CAPM.**

24 **A** The CAPM requires an estimate of the market risk-free rate, the company's beta, and
25 the market risk premium.

1 **Q WHAT DID YOU USE AS AN ESTIMATE OF THE MARKET RISK-FREE RATE?**

2 A As previously noted, *Blue Chip Financial Forecasts'* projected 30-year Treasury bond
3 yield is 4.0%.¹⁵ The current 30-year bond yield is 3.8%. I used *Blue Chip Financial*
4 *Forecasts'* projected 30-year Treasury bond yield of 4.0% for my CAPM analysis.

5 **Q WHY DID YOU USE LONG-TERM TREASURY BOND YIELDS AS AN ESTIMATE**
6 **OF THE RISK-FREE RATE?**

7 A Treasury securities are backed by the full faith and credit of the United States
8 government. Therefore, long-term Treasury bonds are considered to have negligible
9 credit risk. Also, long-term Treasury bonds have an investment horizon similar to that
10 of common stock. As a result, investor-anticipated long-run inflation expectations are
11 reflected in both common stock required returns and long-term bond yields.
12 Therefore, the nominal risk-free rate (or expected inflation rate and real risk-free rate)
13 included in a long-term bond yield is a reasonable estimate of the nominal risk-free
14 rate included in common stock returns.

15 Treasury bond yields, however, do include risk premiums related to
16 unanticipated future inflation and interest rates. Therefore, a Treasury bond yield is
17 not a risk-free rate. Risk premiums related to unanticipated inflation and interest rates
18 are systematic or market risks. Consequently, for companies with betas less than
19 1.0, using the Treasury bond yield as a proxy for the risk-free rate in the CAPM
20 analysis can produce an overstated estimate of the CAPM return.

¹⁵*Blue Chip Financial Forecasts*, December 1, 2008 at 2.

1 Q WHAT BETA DID YOU USE IN YOUR ANALYSIS?

2 A As shown on Schedule MPG-20, the proxy group average *Value Line* beta estimate is
3 0.76.

4 Q HOW DID YOU DERIVE YOUR MARKET RISK PREMIUM ESTIMATE?

5 A I derived two market risk premium estimates, a forward-looking estimate and one
6 based on a long-term historical average.

7 The forward-looking estimate was derived by estimating the expected return
8 on the market (as represented by the S&P 500) and subtracting the risk-free rate from
9 this estimate. I estimated the expected return on the S&P 500 by adding an expected
10 inflation rate to the long-term historical arithmetic average real return on the market.
11 The real return on the market represents the achieved return above the rate of
12 inflation.

13 Morningstar's *Stocks, Bonds, Bills and Inflation 2008 Yearbook* publication
14 estimates the historical arithmetic average real market return over the period
15 1926 - 2007 as 9.0%. A current consensus analysts' inflation projection, as
16 measured by the Consumer Price Index, is 2.0%.¹⁶ Using these estimates, the
17 expected market return is 11.18%.¹⁷ The market premium then is the difference
18 between the 11.18% expected market return, and my 4.0% risk-free rate estimate, or
19 7.18%.

20 The historical estimate of the market risk premium was also estimated by
21 Morningstar in *Stocks, Bonds, Bills and Inflation 2008 Yearbook*. Over the period
22 1926 through 2007, Morningstar's study estimated that the arithmetic average of the

¹⁶Blue Chip Financial Forecasts, December 1, 2008 at 2.

¹⁷ $\{ [(1 + 0.090) * (1 + 0.020)] - 1 \} * 100$.

1 achieved total return on the S&P 500 was 12.30%, and the total return on long-term
2 Treasury bonds was 5.80%. The indicated equity risk premium is 6.50% (12.30% -
3 5.80% = 6.50%).

4 **Q HOW DOES YOUR ESTIMATED MARKET RISK PREMIUM RANGE COMPARE TO**
5 **THAT ESTIMATED BY MORNINGSTAR?**

6 A Morningstar estimates a forward-looking market risk premium based on actual
7 achieved data from the historical period of 1926 through year-end 2007. Using this
8 data, Morningstar estimates a market risk premium derived from the total return on
9 large company stocks (S&P 500), less the income return on Treasury bonds. The
10 total return includes capital appreciation, dividend or coupon reinvestment returns,
11 and annual yields received from coupons and/or dividend payments. The income
12 return, in contrast, only reflects the income return received from dividend payments or
13 coupon yields. Morningstar argues that the income return is the only true riskless rate
14 associated with the Treasury bond and is the best approximation of a truly risk-free
15 rate. While I disagree with this assessment from Morningstar, because it does not
16 reflect a true investment option available to the marketplace, and therefore does not
17 produce a legitimate estimate of the expected premium of investing in the stock
18 market versus that of Treasury bonds, I will use Morningstar's conclusion to show the
19 reasonableness of my market risk premium estimates.

20 Morningstar's analysis indicates that a market risk premium falls somewhere
21 in the range of 6.2% to 7.1%. This range is based on several methodologies. First,
22 Morningstar estimates a market risk premium of 7.1% based on the difference
23 between the total market return on common stocks (S&P 500) less the income return
24 on Treasury bond investments. Second, Morningstar found that if the New York

1 Stock Exchange (the “NYSE”) was used as the market index rather than the S&P
2 500, that the market risk premium would be 6.8% and not 7.1%. Third, if only the two
3 deciles of the largest companies included in the NYSE were considered, the market
4 risk premium would be 6.35%.¹⁸

5 Finally, Morningstar found that the 7.1% market risk premium based on the
6 S&P 500 was impacted by an abnormal expansion of price-to-earnings (“P/E”) ratios
7 relative to earnings and dividend growth during the period 1980 through 2001.
8 Morningstar believes this abnormal P/E expansion is not sustainable. Therefore,
9 Morningstar adjusted this market risk premium estimate to normalize the growth in the
10 P/E ratio to be more in line with the growth in dividends and earnings. Based on this
11 alternative methodology, Morningstar published a long-horizon supply-side market
12 risk premium of 6.2%.¹⁹

13 Thus, based on all of Morningstar’s estimates, the market risk premium falls
14 somewhere in the range of 6.2% to 7.1%. This range supports my use of a 6.50%
15 market risk premium in my CAPM study.

16 **Q WHAT ARE THE RESULTS OF YOUR CAPM ANALYSIS?**

17 **A** As shown on my Schedule MPG-21, based on my historical market risk premium of
18 6.50% and prospective market risk premium of 7.18%, a risk-free rate of 4.0%, and a
19 beta of 0.76, my CAPM analysis produces a return in the range of 8.94% to 9.46%,
20 with a midpoint of 9.20%.

¹⁸Morningstar observes that the S&P 500 and the NYSE Decile 1-2 are both large capitalization benchmarks. *Ibbotson SBBI 2008 Valuation Yearbook* (Morningstar, Inc.) at 72 and 74.

¹⁹*Id.* at 92-98.

1 **Return on Equity Summary**

2 **Q BASED ON THE RESULTS OF YOUR RATE OF RETURN ON COMMON EQUITY**
3 **ANALYSES DESCRIBED ABOVE, WHAT RETURN ON COMMON EQUITY DO**
4 **YOU RECOMMEND FOR KCPL?**

5 **A** Based on my analyses, I estimate KCPL's current market cost of equity to be 10.30%.

<u>Description</u>	<u>Results</u>
DCF	11.15%
Risk Premium	10.54%
CAPM	9.20%

6 My recommended return on equity of 10.30% is the average return of my
7 DCF, risk premium and CAPM analyses. My use of an average return on equity
8 estimate is based on the recent AmerenUE Order ER-2008-0318.

9 **Q DO YOU BELIEVE YOUR AUTHORIZED RETURN OF 10.30% REASONABLY**
10 **REFLECTS UTILITIES' COST OF CAPITAL, GIVEN THE CURRENT DISTRESSED**
11 **FINANCIAL MARKETS?**

12 **A** Yes. In today's marketplace, a flight to quality has taken place which has significantly
13 driven up the price of Treasury securities, and reduced the overall yield. This flight to
14 quality investment has impacted corporate securities in the opposite direction.
15 Specifically, by moving money out of corporate securities and into Treasury
16 securities, Treasury yields are very low right now, but corporate yields are abnormally
17 high. While utility corporate bonds and equity investments have not been hit as hard
18 as non-regulated companies, their cost of capital has still been detrimentally impacted

1 in this marketplace. However, on a normalized basis, recognizing that the markets
2 will soon recover, a reasonable estimate of KCPL's cost of equity is spread
3 somewhere between the abnormally low CAPM return estimates driven by Treasury
4 bond yields of 9.2%, and the abnormally high returns caused by depressed stock
5 prices and utility bond prices as reflected in the DCF and risk premium study. As
6 such, creating a range of returns as I have done above, produces a cost of equity of
7 10.3%, which is a reasonable estimate of KCPL's cost of equity during the period
8 rates determined in this proceeding will be in effect. The range of reasonable returns
9 on equity based on today's marketplace I believe would be around 50 basis points
10 around this midpoint, or a high of 10.8% and a low of 9.8%.

11 **REGULATORY PLAN FINANCIAL RATIOS**

12 **Q WILL YOUR PROPOSED CAPITAL STRUCTURE, RETURN ON EQUITY, AND**
13 **OVERALL RATE OF RETURN IMPACT THE AMOUNT OF REGULATORY**
14 **AMORTIZATION NECESSARY TO MEET THE FINANCIAL TARGETS IN KCPL'S**
15 **REGULATORY PLAN?**

16 **A** Yes. My recommended capital structure and return on equity reduce KCPL's revenue
17 requirement in this proceeding. Therefore, they will impact KCPL's Funds From
18 Operation (FFO), coverage of interest and total debt. Therefore, my
19 recommendations will impact the amount of regulatory amortization that is necessary
20 to achieve the objectives outlined in KCPL's regulatory plan.

1 **Q WHAT AMOUNT OF REGULATORY AMORTIZATION IS KCPL PROPOSING IN**
2 **THIS PROCEEDING?**

3 A KCPL's proposed rate of return produces additional regulatory amortization in the
4 amount of \$47.8 million (Schedule MWC-3). However, based on a long-term review
5 of credit metrics, KCPL is requesting only \$15.1 million of additional regulatory
6 amortization expense be included in its revenue requirement in this case.

7 **Q DO YOU BELIEVE IT IS REASONABLE FOR KCPL TO REQUEST LESS**
8 **REGULATORY AMORTIZATION EXPENSE THAN THAT JUSTIFIED IN THE**
9 **REGULATORY PLAN?**

10 A Yes. It is reasonable for KCPL to choose a lower amount of ratepayer funding
11 assistance necessary to preserve its credit rating during the remaining construction
12 period of Iatan 2. This was the underlying objective of the regulatory plan. Further,
13 KCPL's proposal will help mitigate its rate increase, which is particularly important in
14 today's distressed economic environment.

15 **Q HOW MUCH REGULATORY AMORTIZATION EXPENSE, IF ANY, WOULD BE**
16 **NECESSARY IF YOU ADJUST KCPL'S STUDY TO REFLECT YOUR PROPOSED**
17 **OVERALL RATE OF RETURN?**

18 A As shown on the attached Highly Confidential Schedule MPG-22, adjusting KCPL's
19 capital structure, and reducing its return on equity from 10.75% down to 10.30%,
20 would increase the amount of regulatory amortization expense to \$53.67 million from
21 KCPL's estimated amount of \$47.76 million.

1 Q BY ADJUSTING THE RETURN ON EQUITY AS YOU PROPOSE, IS IT ACCURATE
2 THAT THE REVENUE REQUIREMENT MAY NOT CHANGE, BUT JUST THE
3 AMOUNT OF REGULATORY AMORTIZATION EXPENSE WILL CHANGE?

4 A Yes. However, I believe it is more appropriate to reflect additional amortization
5 expense rather than to provide KCPL with an inflated return on equity. By increasing
6 the amortization expense recovered from customers, customers will benefit later
7 through a reduced cost of service for the latan plant investment. As such, the
8 regulatory plan amortization expense creates a quid pro quo for customers. That is,
9 customers pay higher rates today and receive the benefits of lower rates in the future.
10 By contrast, providing an unreasonably high return on equity as proposed by KCPL,
11 would result in customers paying higher rates today, with no benefit of lowering cost
12 of service and rates in future periods.

13 Q DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

14 A Yes.

Qualifications of Michael Gorman

1 **Q PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 A Michael P. Gorman. My business address is 16690 Swingley Ridge Road, Suite 140,
3 Chesterfield, MO 63017.

4 **Q PLEASE STATE YOUR OCCUPATION.**

5 A I am a consultant in the field of public utility regulation and a managing principal with
6 Brubaker & Associates, Inc., energy, economic and regulatory consultants.

7 **Q PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND WORK
8 EXPERIENCE.**

9 A In 1983 I received a Bachelors of Science Degree in Electrical Engineering from
10 Southern Illinois University, and in 1986, I received a Masters Degree in Business
11 Administration with a concentration in Finance from the University of Illinois at
12 Springfield. I have also completed several graduate level economics courses.

13 In August of 1983, I accepted an analyst position with the Illinois Commerce
14 Commission (ICC). In this position, I performed a variety of analyses for both formal
15 and informal investigations before the ICC, including: marginal cost of energy, central
16 dispatch, avoided cost of energy, annual system production costs, and working
17 capital. In October of 1986, I was promoted to the position of Senior Analyst. In this
18 position, I assumed the additional responsibilities of technical leader on projects, and
19 my areas of responsibility were expanded to include utility financial modeling and
20 financial analyses.

1 In 1987, I was promoted to Director of the Financial Analysis Department. In
2 this position, I was responsible for all financial analyses conducted by the staff.
3 Among other things, I conducted analyses and sponsored testimony before the ICC
4 on rate of return, financial integrity, financial modeling and related issues. I also
5 supervised the development of all Staff analyses and testimony on these same
6 issues. In addition, I supervised the Staff's review and recommendations to the
7 Commission concerning utility plans to issue debt and equity securities.

8 In August of 1989, I accepted a position with Merrill-Lynch as a financial
9 consultant. After receiving all required securities licenses, I worked with individual
10 investors and small businesses in evaluating and selecting investments suitable to
11 their requirements.

12 In September of 1990, I accepted a position with Drazen-Brubaker &
13 Associates, Inc. In April 1995 the firm of Brubaker & Associates, Inc. (BAI) was
14 formed. It includes most of the former DBA principals and Staff. Since 1990, I have
15 performed various analyses and sponsored testimony on cost of capital, cost/benefits
16 of utility mergers and acquisitions, utility reorganizations, level of operating expenses
17 and rate base, cost of service studies, and analyses relating industrial jobs and
18 economic development. I also participated in a study used to revise the financial
19 policy for the municipal utility in Kansas City, Kansas.

20 At BAI, I also have extensive experience working with large energy users to
21 distribute and critically evaluate responses to requests for proposals (RFPs) for
22 electric, steam, and gas energy supply from competitive energy suppliers. These
23 analyses include the evaluation of gas supply and delivery charges, cogeneration
24 and/or combined cycle unit feasibility studies, and the evaluation of third-party
25 asset/supply management agreements. I have also analyzed commodity pricing

1 indices and forward pricing methods for third party supply agreements, and have also
2 conducted regional electric market price forecasts.

3 In addition to our main office in St. Louis, the firm also has branch offices in
4 Phoenix, Arizona and Corpus Christi, Texas.

5 **Q HAVE YOU EVER TESTIFIED BEFORE A REGULATORY BODY?**

6 A Yes. I have sponsored testimony on cost of capital, revenue requirements, cost of
7 service and other issues before the Federal Energy Regulatory Commission and
8 numerous state regulatory commissions including: Arkansas, Arizona, California,
9 Colorado, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas,
10 Louisiana, Michigan, Missouri, Montana, New Jersey, New Mexico, New York, North
11 Carolina, Oklahoma, Oregon, South Carolina, Tennessee, Texas, Utah, Vermont,
12 Virginia, Washington, West Virginia, Wisconsin, Wyoming, and before the provincial
13 regulatory boards in Alberta and Nova Scotia, Canada. I have also sponsored
14 testimony before the Board of Public Utilities in Kansas City, Kansas; presented rate
15 setting position reports to the regulatory board of the municipal utility in Austin, Texas,
16 and Salt River Project, Arizona, on behalf of industrial customers; and negotiated rate
17 disputes for industrial customers of the Municipal Electric Authority of Georgia in the
18 LaGrange, Georgia district.

19 **Q PLEASE DESCRIBE ANY PROFESSIONAL REGISTRATIONS OR**
20 **ORGANIZATIONS TO WHICH YOU BELONG.**

21 A I earned the designation of Chartered Financial Analyst (CFA) from the CFA Institute.
22 The CFA charter was awarded after successfully completing three examinations
23 which covered the subject areas of financial accounting, economics, fixed income and

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1 equity valuation and professional and ethical conduct. I am a member of the CFA
2 Institute's Financial Analyst Society.

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Appendix A
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