

Exhibit No.:
Witness: Michael Gorman
Type of Exhibit: Direct Testimony
Issue: Revenue Requirement
Sponsoring Party: The Office of Public Counsel
Case No.: ER-2009-0090

**Before the Public Service Commission
of the State of Missouri**

In the Matter of the Application of)
Aquila, Inc. dba KCP&L Greater)
Missouri Operations Company for) Case No. ER-2009-0090
Approval to Make Certain Changes)
in its Charges for Electric Service)

Direct Testimony and Schedules of

Michael Gorman

On behalf of

The Office of Public Counsel

Project 9074
February 13, 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.

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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 Aquila,
3 Inc. dba KCP&L Greater Missouri Operations Company ("GMO" or "Aquila Missouri"
4 or "Company").

5 Q PLEASE SUMMARIZE YOUR RATE OF RETURN RECOMMENDATIONS.

6 A I recommend the Missouri Public Service Commission ("MPSC" or the "Commission")
7 award GMO a return on common equity of 10.30% for Missouri Public Service
8 ("MPS") and St. Joseph Light & Power ("SJLP").

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

15 Finally, I recommend an overall rate of return of 8.51% for MPS, and 8.92%
16 for SJLP, as shown on my Schedule MPG-1. My recommended overall rate of return
17 is based on GMO's proposed capital structure, my recommended return on equity,
18 and the Company's projected embedded cost of debt.

19 **ELECTRIC UTILITY INDUSTRY MARKET PERSPECTIVE**

20 Q DID YOU ATTEMPT TO VALIDATE THE ACCURACY OF YOUR MARKET
21 RETURN ON EQUITY ESTIMATE FOR GMO?

22 A Yes. As shown on my Schedule MPG-2, I compared my estimated return on equity
23 for GMO in this case to the industry average authorized return on equity for electric

1 utility companies over the last five years. I also reviewed the credit rating history, and
2 stock investment returns for the industry over that same period. Industry authorized
3 returns on equity have averaged approximately 10.5% over the last 6 years, and
4 approximately 10.3% from 2006 to date.

5 These authorized returns on equity have supported improvement to the
6 investment grade credit rating of the electric utility industry and have resulted in
7 robust stock price performance over this time period. Indeed, electric utility stock
8 price performance has consistently outperformed the overall market during this time
9 period. This market evidence indicates that commission-authorized returns on equity
10 in the range of approximately 10.3% to 10.5% have supported stock prices and
11 investment grade credit ratings of utility companies. This is evidence that a return of
12 10.30% for GMO will support its financial integrity and access to capital.

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

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

20 **COMMENTARY**

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

25 Industry credit quality rose slightly, with nine upgrades and five
26 downgrades, although five of the upgrades related to one company.
27 This follows a modest decline in credit quality during the first half of
28 2008, leaving 23 downgrades outnumbering 18 upgrades through the

1 first nine months of the year. Credit quality improved steadily over the
2 previous three years, with upgrades outnumbering downgrades in 10
3 of the 12 quarters prior to Q1 2008.

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

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

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

16 **Overview**

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

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

34 Similarly, Fitch states:

35 The utilities segment is not immune to the economic challenges facing
36 corporate America, but is relatively well positioned. Providing essential
37 services and largely regulated, utilities benefit from investor
38 perceptions as a defensive group. For the most part, electric utilities

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 reduced debt and focused on improving their core business over the
2 past four years. Consequently, while many industries and companies
3 have recently been shut out of the capital markets, stronger utilities
4 have accessed both secured and unsecured markets. However,
5 investor “flight to quality” is selective within the sector, favoring
6 companies at higher rating levels, with a marked preference for
7 secured debt and lending at the operating, rather than parent,
8 company.

9 * * *

10 **Key Drivers of the 2009 Outlook**

11 The positive and negative factors driving Fitch’s outlook in 2009
12 include:

13 **Positives**

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

23 **Negatives**

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

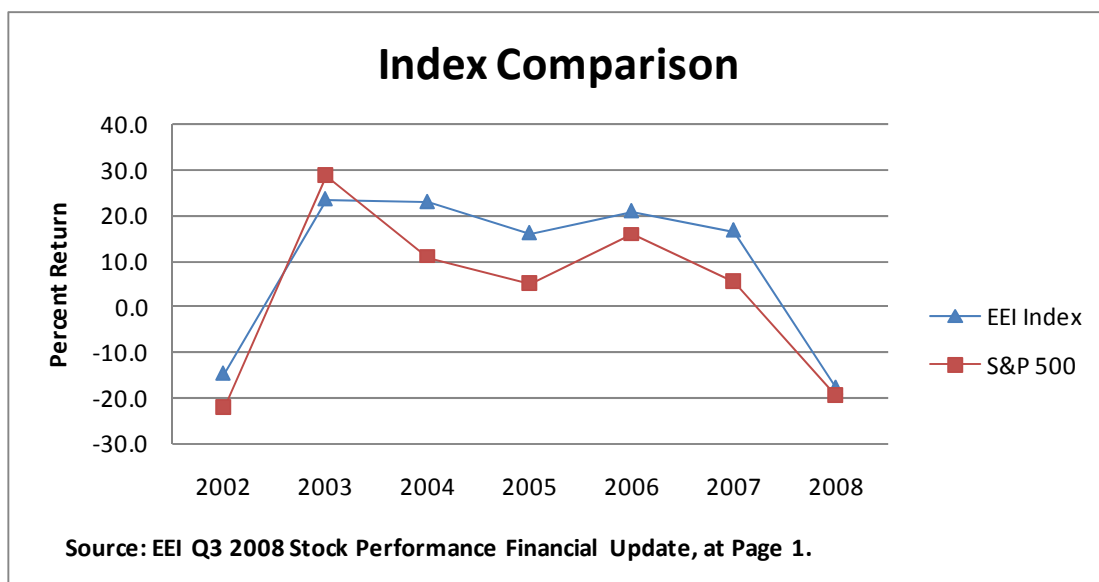
37 As noted by EEI, Moody’s and Fitch above, the regulated electric utility
38 industry is maintaining strong investment grade credit, and is well positioned to
39 weather the current economic downturn. Therefore, reasoned and rational

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

1 adjustments to GMO's rates would be appropriate to provide fair compensation, but
2 not excessive compensation, in an effort to improve GMO's competitive position,
3 strengthen its credit, and support its distressed service territory.

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

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



11 As shown in the graph above, the EEI Electric Utility Index has outperformed
12 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 **GMO RISK FACTORS**

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

6 A GMO has a Standard & Poor's ("S&P") corporate and senior secured credit ratings of
7 "BBB" and "BBB+," respectively.⁵ S&P assigned the Company an "Excellent"
8 business risk position rating and an "Aggressive" financial risk position rating. These
9 ratings represent typical financial and operating risk for an integrated electric utility.

10 GMO's corporate and senior secured credit ratings from Moody's are "Baa2."

11 Moody's stated the following:

12 **Recent Developments**

13 On July 15, 2008, Moody's upgraded Aquila Inc.'s ("Aquila") senior
14 unsecured rating to Baa2 from Ba3. At the same time Moody's
15 affirmed all ratings of Great Plains Energy Incorporated ("Great
16 Plains") and its operating subsidiary Kansas City Power & Light
17 Company ("KCPL").

18 * * *

19 **Rating Rationale**

20 At this time Aquila's Baa2 senior unsecured rating is largely a function
21 of the expected extension of absolute unconditional and irrevocable
22 downstream guarantees to be effected by Great Plains for the benefit
23 of Aquila bondholders following the acquisition. On a stand-alone
24 basis, we view Aquila's financial risk profile as and credit metrics as
25 being weak for the rating; however, Moody's does believe there are
26 significant synergistic, regulatory and financial opportunities that could
27 effectively improve the current business and financial risk profile of
28 Aquila as a subsidiary of Great Plains. Key rating factors forming the
29 basis for Aquila's ratings are:

30 * * *

⁵ SNL Financial, KCP&L Greater Missouri Operations Company, Credit Rating; downloaded on February 11, 2009.

TABLE 1

GMO's Requested Capital Structure
(Projected March 31, 2009)

<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.

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

3 A Yes. GMO's proposed capital structure is heavily weighted with common equity and
4 therefore inflates its claimed revenue deficiency in this proceeding. Further, the
5 proposed capital structure is based on its parent company GPE's capital structure
6 rather the utility's stand-alone capital structure.

7 If this capital structure is used to set rates, the Commission should recognize
8 the abnormally high common equity ratio, which reduces its financial risk. The
9 Commission should therefore reduce the authorized return on equity to reflect this
10 reduced financial risk for this capital structure. Further, the capital structure reflects
11 significant planned equity additions that have not yet been made, and may not be
12 made through the end of the true-up period. As such, a conservative measure if the
13 Commission approves this capital structure would be to recognize the reduced
14 financial risk created by this equity thick capital structure and award GMO a lower
15 return on equity.

1 Q DO YOU BELIEVE THE COMMISSION SHOULD USE GMO'S PROPOSED
2 CAPITAL STRUCTURE FOR SETTING RATES?

3 A No. I recommend the capital structure set forth in Table 2.

<u>Description</u>	<u>Percent of Total Capital</u>
Debt	51.59%
Common Equity	<u>48.41%</u>
Total Regulatory Capital Structure	100.00%

Source: Schedule MPG-1.

4 Q WHY DO YOU BELIEVE THE CAPITAL STRUCTURE IN TABLE 2 ABOVE IS
5 APPROPRIATE FOR SETTING GMO'S RATES IN THIS PROCEEDING?

6 A GMO is proposing to use its utility actual cost of debt (MPS and SJLP) for developing
7 its overall revenue requirement in this proceeding. Because GMO's cost of debt is
8 significantly higher than that of its parent company, it would be inappropriate to
9 combine the parent company's capital structure with the utility's debt cost to develop
10 an overall rate of return. GPE's capital structure is more heavily weighted with
11 common equity than is GMO's capital structure. This higher weight of common equity
12 increases the capital structure cost. In the case of GMO, its cost of debt is not as low
13 as GPE largely because it has greater financial risk as noted in the Moody's report
14 above, and because it has older debt issuances that cannot be or have not been
15 refinanced.

1 As such, it is balanced and appropriate to use GMO's capital structure, along
2 with the utility's embedded debt cost to develop the overall rate of return for MPS and
3 SJLP in this proceeding.

4 Moreover, this capital structure is reasonable for setting GMO's cost of service
5 in this proceeding because it contains a balanced amount of common equity and debt
6 capital. Indeed, this capital structure represents financial risk that is reasonably
7 comparable to the proxy group I used to estimate MPS's and SJLP's cost of equity in
8 this proceeding, and is consistent with the capital structure targets established by
9 Standard & Poor's as guidance for maintaining an investment grade bond rating. For
10 all these reasons, I believe the Company's actual capital structure is more reasonable
11 for setting GMO's cost of service in this proceeding, rather than the Company's
12 proposal to rely on its parent company's capital structure.

13 **Q WILL YOUR PROPOSED CAPITAL STRUCTURE FOR GMO SUPPORT ITS**
14 **INVESTMENT GRADE BOND RATING AND FINANCIAL INTEGRITY?**

15 **A**Yes. This is discussed in greater detail later in this testimony. Below, I show my
16 recommended return on equity and overall rate of return for GMO will support MPS's
17 and SJLP's ability to realize credit metrics that are consistent with an investment
18 grade utility bond rating.

19 **RETURN ON COMMON EQUITY**

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

22 **A**A utility's cost of common equity is the return investors expect, or require, in order to

1 make an investment. Investors expect to achieve their return requirement from
2 receiving dividends and stock price appreciation.

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

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

9 These decisions identify the general standards to be considered in
10 establishing the cost of common equity for a public utility. Those general standards
11 provide that the authorized return should: (1) be sufficient to maintain financial
12 integrity; (2) attract capital under reasonable terms; and (3) be commensurate with
13 returns investors could earn by investing in other enterprises of comparable risk.

14 **Q PLEASE DESCRIBE THE METHODS YOU HAVE USED TO ESTIMATE THE COST**
15 **OF COMMON EQUITY FOR GMO.**

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

1 Q HOW DID YOU SELECT A PROXY GROUP OF UTILITIES SIMILAR IN
2 INVESTMENT RISK TO GMO TO ESTIMATE ITS CURRENT MARKET COST OF
3 EQUITY?

4 A I relied on the same proxy group used by GMO witness Dr. Hadaway to estimate
5 GMO's return on equity.

6 Q HOW DOES THE PROXY GROUP USED BY DR. HADAWAY COMPARE TO THE
7 INVESTMENT RISK OF GMO?

8 A The proxy group is shown on Schedule MPG-3. This proxy group's senior secured
9 credit rating from Moody's is "A3," which is higher than GMO's senior secured credit
10 rating from Moody's of "Baa2." This proxy group has an average senior secured
11 credit rating from S&P of "BBB+," which is identical to GMO's senior secured credit
12 rating. As such, my proxy group has comparable total investment risk to GMO.

13 The proxy group has an average common equity ratio of 44.5% (including
14 short-term debt) from AUS and 49.9% (excluding short-term debt) from *Value Line*.
15 This proxy group's common equity ratio is comparable to my proposed common
16 equity ratio for GMO of 48.4% (excluding short-term debt). Hence, GMO has
17 comparable financial risk to the proxy group.

18 The EEI operating designation for most of the companies in the proxy group is
19 "Regulated" or "Mostly Regulated." The average for all the companies is "Regulated,"
20 which indicates comparable operating risk to that of GMO.

1 Q PLEASE DESCRIBE EEI'S BUSINESS RISK ASSESSMENT OF ELECTRIC
2 UTILITY COMPANIES.

3 A EEI rates publicly traded companies based on their relative exposure to regulated
4 and non-regulated operating risk. It uses three categories: "Regulated," "Mostly
5 Regulated" and "Diversified." EEI rates companies that have 80% or more of total
6 assets in regulated operations and designates them as "Regulated" entities. "Mostly
7 Regulated" entities are those companies that have 50% to 80% of total assets in
8 regulated operations. Finally, EEI rates companies with less than 50% of assets in
9 regulated enterprises as "Diversified" companies.⁷

10 **Discounted Cash Flow Model**

11 Q PLEASE DESCRIBE THE DCF MODEL.

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

15
$$P_0 = \frac{D_1}{(1+K)^1} + \frac{D_2}{(1+K)^2} + \dots + \frac{D_\infty}{(1+K)^\infty} \quad \text{where} \quad \text{(Equation 1)}$$

16
$$P_0 = \text{Current stock price}$$

17
$$D = \text{Dividends in periods } 1 - \infty$$

18
$$K = \text{Investor's required return}$$

19
20 This model can be rearranged in order to estimate the discount rate or investor
21 required return, "K." If it is reasonable to assume that earnings and dividends will
22 grow at a constant rate, then Equation 1 can be rearranged as follows:

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

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

4 **Q WHAT DIVIDEND GROWTH RATES HAVE YOU USED IN YOUR CONSTANT**
5 **GROWTH DCF MODEL?**

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

11 Security analysts' growth estimates have been shown to be more accurate
12 predictors of future returns than growth rates derived from historical data because
13 they are more reliable estimates.⁸ Assuming the market generally makes rational
14 investment decisions, analysts' growth projections are more likely the growth
15 estimates considered by the market that influence observable stock prices than are
16 growth rates derived from only historical data.

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

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 Each consensus growth rate projection is based on a survey of security
2 analysts. The consensus estimate is a simple arithmetic average, or mean, of
3 surveyed analysts' earnings growth forecasts. A simple average of the growth
4 forecasts gives equal weight to all surveyed analysts' projections. It is problematic as
5 to whether any particular analyst's forecast is most representative of general market
6 expectations. Therefore, a simple average, or arithmetic mean, of analyst forecasts is
7 a good proxy for market consensus expectations. The growth rates I used in my DCF
8 analysis are shown on Schedule MPG-4.

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

10 A As shown on Schedule MPG-5, the constant growth DCF return for the proxy group is
11 12.02%.

12 **Q DO YOU HAVE ANY COMMENTS CONCERNING THE RESULTS OF YOUR**
13 **CONSTANT GROWTH DCF ANALYSIS?**

14 A Yes. The constant growth DCF return is not reasonable and represents an inflated
15 return for GMO at this time. The average three- to five-year growth rate for the proxy
16 group is 6.60% (shown on Schedule MPG-5). This growth rate is far too high to be a
17 rational estimate of the proxy group's long-term sustainable growth. Because the
18 current three- to five-year growth rate is too high to be a reasonable long-term
19 sustainable growth rate estimate, the constant growth DCF model is currently
20 producing an inflated DCF return and should not be used in the calculation of GMO's
21 return on equity.

1 **Q WHY DO YOU BELIEVE THE PROXY GROUP’S THREE- TO FIVE-YEAR**
2 **GROWTH RATE IS IN EXCESS OF A RATIONAL ESTIMATE OF LONG-TERM**
3 **SUSTAINABLE GROWTH?**

4 A The three- to five-year growth rate of the proxy group exceeds the growth rate of the
5 overall U.S. economy. As developed below, the consensus of published economists
6 projects that the U.S. GDP will grow at a rate of no more than 5.0% over the next
7 10 years. A company cannot grow, indefinitely, at a faster rate than the market in
8 which it sells its products. The U.S. economy, or GDP, growth projection represents
9 a ceiling, or high-end, sustainable growth rate for a utility over an indefinite period of
10 time.

11 **Q WHY IS THE GDP GROWTH PROJECTION CONSIDERED A CEILING GROWTH**
12 **RATE FOR A UTILITY?**

13 A Utilities cannot indefinitely sustain a growth rate that exceeds the growth rate of the
14 overall economy. Utilities’ earnings/dividend growth is created by increased utility
15 investment or rate base. Utility plant investment, in turn, is driven by service area
16 economic growth and demand for utility service. In other words, utilities invest in
17 plant to meet sales demand growth, and sales growth in turn is tied to economic
18 growth in their service areas. The Energy Information Administration (“EIA”) has
19 observed that utility sales growth is less than U.S. economic growth, as shown on
20 Schedule MPG-6. Utility sales growth has lagged the GDP growth. Hence, nominal
21 GDP growth is a very conservative, albeit overstated, proxy for electric utility sales
22 growth, rate base growth, and earnings growth. Therefore, GDP growth is a
23 reasonable proxy for the highest sustainable long-term growth rate of a utility.

1 **Q HOW DO THE PROXY GROUP’S HISTORIC GROWTH RATES COMPARE TO**
2 **HISTORICAL NOMINAL GDP GROWTH RATES?**

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

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

9 This historical perspective confirms the robust outlook for earnings growth
10 over the next three to five years, and supports my contention that current three- to
11 five-year earnings growth projections are not reasonable estimates of sustainable
12 long-term growth.

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

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

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

24 The constant growth model is most appropriate for mature companies
25 with a stable history of growth and stable future expectations.

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1 Expected growth rates vary somewhat among companies, but
2 dividends for mature firms are often expected to grow in the future at
3 about the same rate as nominal gross domestic product (real GDP
4 plus inflation).⁹

5 Also, Morningstar's Stocks, Bonds, Bills and Inflation 2008 Yearbook
6 Valuation Edition tracked dividends of the stock market in comparison to GDP growth
7 over the period 1926 through the end of 2007.¹⁰ Based on that study, the authors
8 found that earnings and dividends for the market have historically grown in tandem
9 with the overall economy. It is important to note that the growth of companies
10 included in the overall market will normally be higher than that of utility companies.
11 These non-utility companies achieve a higher level of growth because they retain a
12 larger percentage of their earnings and pay out a much smaller percentage of their
13 earnings as dividends. Retaining higher percentages of total earnings fuels stronger
14 growth for these non-utility companies. Since the market in general grows at the
15 overall GDP growth rate, it is very conservative to assume that utility companies
16 could achieve this same level of sustained growth without a material reduction in their
17 dividend payout ratios. As such, using the GDP as a maximum sustainable growth
18 rate is a very conservative and high-end estimate for utility companies.

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

22 **A** Yes. This can be gauged using an internal growth rate calculation for the companies
23 included in the proxy group using *Value Line's* three- to five-year earnings and

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 dividends projections, and estimated earned return on equity. An internal growth rate
2 methodology estimates the sustainable growth rate based on the percentage of the
3 utility's earnings that are retained in the company and reinvested in utility plant and
4 equipment. These reinvested earnings then increase the earnings base, and will
5 increase the earned return on equity as those additional earnings are put into service
6 and the company is allowed to earn its authorized return on the additional investment.

7 The internal growth methodology is tied to the percentage of earnings retained
8 in the Company and not paid out as dividends. The earnings retention ratio is 1
9 minus the dividend payout ratio. As the payout ratio declines, the earnings retention
10 ratio increases. An increased earnings retention ratio will fuel stronger growth
11 because the business funds more investments with retained earnings. As shown on
12 Schedule MPG-8, *Value Line* projects the proxy group to have a declining dividend
13 payout ratio over the next three to five years. These dividend payout ratios and
14 earnings retention ratios can then be used to develop a sustainable long-term
15 earnings retention growth rate to help gauge whether or not analysts' current three- to
16 five-year growth rate projections can be sustained over an indefinite period of time.

17 As shown on Schedule MPG-9, the average sustainable growth rate for the
18 proxy group using this internal growth rate model is approximately 4.30%.

19 Using the proxy group average growth rate of 6.60%, and a three- to five-year
20 projected dividend payout ratio of 60.15%, would require an earned return on book
21 equity of 16.56% to support a long-term sustainable growth rate of 6.60%. In
22 comparison, *Value Line* is projecting a group average return on book equity of
23 10.61%. Again, this information supports my conclusion that current analysts'
24 three- to five-year earnings growth projections are not sustainable, and will decline
25 over time.

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

3 A Yes. However, the sustainable growth rate does not reflect the expectation that
4 analysts and investors anticipate exceptionally high growth over the next three to five
5 years. However, the sustainable growth rate in combination with three- to five-year
6 analysts' growth rate expectations, can be used to proxy a long-term sustainable
7 growth rate estimate that reflects exceptionally high growth over the next three to five
8 years.

9 As such, using a composite weight of the analysts' growth rate estimates, and
10 the sustainable growth rate can be used to develop a sustainable long-term growth
11 rate for use in a constant growth model. I develop this modified growth rate by
12 applying two-thirds weight to the analysts' growth rate estimates, and one-third weight
13 to this sustainable growth rate. This constant growth DCF study is shown on my
14 Schedule MPG-10. As shown on that schedule, using a modified estimate of long-
15 term sustainable growth in this version of the constant growth DCF study, produces a
16 constant growth DCF result of 11.25%.

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

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

1 **Two-Stage Growth DCF Model**

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

3 A The two-stage growth DCF model reflects the possibility of non-constant growth for a
4 company over time. The two-stage growth model reflects two growth periods: (1) a
5 short-term growth period, which consists of the first five years; and (2) a long-term
6 growth period, which consists of each year starting in year six through perpetuity. For
7 the short-term growth period, I relied on the consensus analysts' growth projections
8 described above in relationship to my constant growth DCF model. For the long-term
9 growth period, I assumed each company's growth would converge on the maximum
10 sustainable growth rate for a utility company as proxied by the consensus analysts'
11 projected growth for the U.S. GDP.

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

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

19 **Q HAVE YOU CONSIDERED OTHER ESTIMATES OF LONG-TERM SUSTAINABLE**
20 **GROWTH RATE?**

21 A Yes. In the recent AmerenUE order (ER-2008-0318), the MPSC stated a preference

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

1 for Morningstar's GDP growth projection. However, Morningstar does not project a
2 specific GDP growth rate. Rather, it proposes a methodology to derive an expected
3 GDP growth using historical data, and the Treasury bond market data.

4 I relied on Morningstar's methodology to derive a GDP forecast on my
5 Schedule MPG-11. On that schedule, based on Morningstar's methodology, I derived
6 an inflation rate projection using contemporary 20-year Treasury Inflation-Protected
7 Securities ("TIPS") and 20-year Treasury bond yields over the 13-week period ending
8 January 16, 2009. This produced a 20-year inflation outlook of 1.08%. Then,
9 consistent with Morningstar's methodology, I combined this 20-year inflation
10 projection with the historical real GDP growth rate of 3.47%, that was realized over
11 the period 1929-2008 using Morningstar's methodology and current market data,
12 which produced a 20-year GDP growth rate outlook of 4.55%.

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

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

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

3 A I relied on the same 13-week stock price and the most recent quarterly dividend
4 payment discussed above. For stage one growth, I used the consensus analysts'
5 growth rate projections discussed above in my constant growth DCF model. For the
6 long-term sustainable growth rate starting in year six, I used 4.9%, the average of the
7 consensus economists' five- to ten-year projected nominal GDP growth rate (4.8% to
8 5.0%).

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

10 A As shown on Schedule MPG-12, the two-stage growth DCF return on equity result for
11 the proxy group is 10.59%.

12 **Multi-Stage Growth DCF Model**

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

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

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

8 **Q WHAT STOCK PRICE AND DIVIDEND DID YOU USE IN YOUR MULTI-STAGE**
9 **GROWTH DCF ANALYSIS?**

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

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

13 A As shown on Schedule MPG-13, the multi-stage growth DCF return on equity for the
14 proxy group is 10.75%.

15 **DCF Quarterly Compounding Adjustment**

16 **Q HAVE YOU INCLUDED A QUARTERLY COMPOUNDING ADJUSTMENT TO**
17 **YOUR DCF RESULTS DESCRIBED ABOVE?**

18 A No. In the Empire District Order ER-2008-093, and the recent AmerenUE Order
19 ER-2008-0318, the Commission included a 5 basis point adjustment to the DCF
20 return estimates to reflect quarterly compounding. If the Commission chooses to
21 include that 5 basis point adjustment again in this case, then it should add it to the
22 results of my DCF studies shown in Table 3 below.

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1 Q DO YOU BELIEVE IT IS APPROPRIATE TO INCREASE YOUR DCF RETURN
2 ESTIMATE FOR A 5 BASIS POINT QUARTERLY COMPOUNDING
3 ADJUSTMENT?

4 A No. Including the quarterly compounding adjustment to GMO's authorized return on
5 equity is inappropriate. By including a quarterly compounding adjustment to a DCF
6 return estimate, shareholders will be permitted to earn the dividend reinvestment
7 return twice: (1) through the authorized return on equity, and (2) through actual
8 receipt of dividends and the reinvestment of those dividends throughout the year.
9 This double counting of the dividend reinvestment return is not just and reasonable,
10 and will unjustly inflate GMO's retail price.

11 Q PLEASE EXPLAIN WHY THE QUARTERLY COMPOUNDING RETURN SHOULD
12 NOT BE INCLUDED IN GMO'S AUTHORIZED RETURN ON EQUITY.

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

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

21 I believe the reinvestment return is not a cost to the utility and should therefore
22 not be included in the authorized return on equity. I believe while it is reasonable for
23 investors to expect to have the opportunity to earn the compounded return produced

1 by cash flows received within the year, the compound return is not paid to investors
2 by the utility.

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

5 A Yes. I will provide two examples to help illustrate this point. First, the compounding
6 issue is also relevant in estimating the cost to the utility of an outstanding utility bond.
7 Most utility bonds pay a coupon every six months. The utility annual cost paid to the
8 bond investor is the sum of the two semi-annual coupon payments. However, a bond
9 investor expects to receive the semi-annual coupon payments from the utility, but
10 also has an opportunity to reinvest the first coupon payment for the remaining six
11 months of the year to enhance his end-of-year return. This compound return
12 component is, however, not a cost to the utility because the utility does not pay the
13 extra return.

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

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

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

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

11 **A** Yes. Assume now that an investor purchased GMO stock for \$100, and expects to
12 receive four quarterly dividends of \$1.50, or \$6.00 per year. The expected cost to the
13 utility of this dividend payment over the year would be \$6.00, or 6.0%. However, the
14 expected effective yield of the dividend to investors would be 6.13% because the
15 quarterly dividends could be reinvested for the remaining term of the year. Hence,
16 the expected end-of-year value of those four \$1.50 quarterly dividend payments to
17 the investor would be \$6.13.¹² Again, the utility pays \$6.00 of annual dividends. The
18 \$0.13 is not paid to investors from the utility, but is rather earned in the other
19 investments that earn the same return, which the dividends were invested in
20 throughout the year.

21 Importantly, the reinvestment return of the dividends is not paid by the utility,
22 and therefore is not part of the utility's cost of capital. Again, if this dividend
23 reinvestment return is included in the utility's authorized return on equity, then

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

1 investors will receive the dividend reinvestment return twice, once through the
2 authorized return on equity, and a second time when dividends are actually received
3 by investors and reinvested.

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

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

TABLE 3	
<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%

6 The average of my DCF studies is 11.15%.

7 **Risk Premium Model**

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

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

1 This risk premium model is based on two estimates of an equity risk premium.
2 First, I estimated the difference between the required return on utility common equity
3 investments and Treasury bonds. The difference between the required return on
4 common equity and the bond yield is the risk premium. I estimated the risk premium
5 on an annual basis for each year over the period 1986 through the third quarter of
6 2008. The common equity required returns were based on regulatory commission-
7 authorized returns for electric utility companies. Authorized returns are typically
8 based on expert witnesses' estimates of the contemporary investor required return.

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

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

1 best method to measure the current return on common equity using this
2 methodology.

3 As shown on Schedule MPG-16, the average indicated equity risk premium
4 over contemporary Moody's utility bond yields was 3.69% over the period 1986
5 through the third quarter of 2008. The equity risk premium estimates based on this
6 analysis primarily fall in the range of 3.03% to 4.39% over this time period.

7 **Q DO YOU BELIEVE THAT THIS RISK PREMIUM IS BASED ON A TIME PERIOD**
8 **THAT IS TOO LONG OR TOO SHORT TO DRAW ACCURATE RESULTS**
9 **CONCERNING CONTEMPORARY MARKET CONDITIONS?**

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

18 The time period I use in this risk premium I would also note is a generally
19 accepted period to develop a risk premium study using this type of expectational
20 data. For example, GMO's own witness Dr. Hadaway develops his risk premium
21 using the time period 1980-2007,¹³ which is comparable to the time period I am
22 proposing in this testimony. Conversely, witnesses that use an actual achieved
23 return risk premium study would normally use very long time periods because annual

¹³ Schedule SCH-6.

1 actual achieved returns can vary significantly throughout the study period, and the
2 annual returns may not reflect investors' expectations. However, it is reasonable to
3 assume that averages of annual returns over long time periods will generally
4 converge on the investors' expected returns.

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

7 A The equity risk premium should reflect the relative market perception of risk in the
8 utility industry today. I have gauged investor perceptions in utility risk today on
9 Schedule MPG-17. On that schedule, I show the yield spread between utility bonds
10 and Treasury bonds over the last 28 years. As shown on this schedule, the 2008
11 utility bond yield spreads over Treasury bonds for "A" rated and "Baa" rated utility
12 bonds are 2.23% and 2.93%, respectively. These utility bond yield spreads over
13 Treasury bond yields are much higher than the 28-year average spreads of 1.59%
14 and 1.96%, respectively.

15 **Q HOW DID YOU ESTIMATE GMO'S COST OF COMMON EQUITY WITH THIS RISK**
16 **PREMIUM MODEL?**

17 A I added a projected long-term Treasury bond yield to my estimated equity risk
18 premium over Treasury yields. *Blue Chip Financial Forecasts* projects the 30-year
19 Treasury bond yield to be 4.0%, and a 10-year Treasury bond yield to be 3.5%.¹⁴
20 Using the projected 30-year bond yield of 4.0%, and a Treasury bond risk premium of
21 4.40% to 6.01%, as developed above, produces an estimated common equity return
22 in the range of 8.40% to 10.01%. I recommend a risk premium return above the

¹⁴*Blue Chip Financial Forecast*, January 1, 2009 at 2.

1 midpoint, 9.21%, of this range to reflect the above average utility bond yield spread in
2 this market. Therefore, using this methodology and recognizing the abnormally high
3 yield spread, I recommend a range at this point in time based on the midpoint
4 estimate of 9.21% and the high-end estimate of 10.01%. This produces a
5 recommended return on equity of 9.61%.

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

23 My risk premium analyses produce a return estimate in the range of 9.61% to
24 11.47%, with a midpoint estimate of 10.54%.

1 **Capital Asset Pricing Model (CAPM)**

2 **Q PLEASE DESCRIBE THE CAPM.**

3 A The CAPM method of analysis is based upon the theory that the market required rate
4 of return for a security is equal to the risk-free rate, plus a risk premium associated
5 with the specific security. This relationship between risk and return can be expressed
6 mathematically as follows:

7
$$R_i = R_f + B_i \times (R_m - R_f) \text{ where:}$$

8 $R_i =$ Required return for stock i

9 $R_f =$ Risk-free rate

10 $R_m =$ Expected return for the market portfolio

11 $B_i =$ Beta - Measure of the risk for stock

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

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

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

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

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

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

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

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

18 Treasury bond yields, however, do include risk premiums related to
19 unanticipated future inflation and interest rates. Therefore, a Treasury bond yield is
20 not a risk-free rate. Risk premiums related to unanticipated inflation and interest rates
21 are systematic or market risks. Consequently, for companies with betas less than

¹⁵*Blue Chip Financial Forecasts*, January 1, 2009 at 2.

1 1.0, using the Treasury bond yield as a proxy for the risk-free rate in the CAPM
2 analysis can produce an overstated estimate of the CAPM return.

3 **Q WHAT BETA DID YOU USE IN YOUR ANALYSIS?**

4 A As shown on Schedule MPG-19, the proxy group average *Value Line* beta estimate is
5 0.76.

6 **Q HOW DID YOU DERIVE YOUR MARKET RISK PREMIUM ESTIMATE?**

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

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

15 Morningstar's *Stocks, Bonds, Bills and Inflation 2008 Yearbook* publication
16 estimates the historical arithmetic average real market return over the period
17 1926 - 2007 as 9.0%. A current consensus analysts' inflation projection, as
18 measured by the Consumer Price Index, is 2.0%.¹⁶ Using these estimates, the
19 expected market return is 11.18%.¹⁷ The market premium then is the difference
20 between the 11.18% expected market return, and my 4.0% risk-free rate estimate, or
21 7.18%.

¹⁶Blue Chip Financial Forecasts, January 1, 2009 at 2.

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

1 The historical estimate of the market risk premium was also estimated by
2 Morningstar in Stocks, Bonds, Bills and Inflation 2008 Yearbook. Over the period
3 1926 through 2007, Morningstar's study estimated that the arithmetic average of the
4 achieved total return on the S&P 500 was 12.30%, and the total return on long-term
5 Treasury bonds was 5.80%. The indicated equity risk premium is 6.50% (12.30% -
6 5.80% = 6.50%).

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

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

23 Morningstar's analysis indicates that a market risk premium falls somewhere
24 in the range of 6.2% to 7.1%. This range is based on several methodologies. First,

1 Morningstar estimates a market risk premium of 7.1% based on the difference
2 between the total market return on common stocks (S&P 500) less the income return
3 on Treasury bond investments. Second, Morningstar found that if the New York
4 Stock Exchange (the "NYSE") was used as the market index rather than the S&P
5 500, that the market risk premium would be 6.8% and not 7.1%. Third, if only the two
6 deciles of the largest companies included in the NYSE were considered, the market
7 risk premium would be 6.35%.¹⁸

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

16 Thus, based on all of Morningstar's estimates, the market risk premium falls
17 somewhere in the range of 6.2% to 7.1%. This range supports my use of a 6.50%
18 market risk premium in my CAPM study.

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

20 A As shown on my Schedule MPG-20, based on my historical market risk premium of
21 6.50% and prospective market risk premium of 7.18%, a risk-free rate of 4.0%, and a

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 beta of 0.76, my CAPM analysis produces a return in the range of 8.94% to 9.46%,
2 with a midpoint of 9.20%.

3 **Return on Equity Summary**

4 **Q BASED ON THE RESULTS OF YOUR RATE OF RETURN ON COMMON EQUITY**
5 **ANALYSES DESCRIBED ABOVE, WHAT RETURN ON COMMON EQUITY DO**
6 **YOU RECOMMEND FOR GMO?**

7 **A** Based on my analyses, I estimate GMO'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%

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

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

14 **A** Yes. In today's marketplace, a flight to quality has taken place which has significantly
15 driven up the price of Treasury securities, and reduced the overall yield. This flight to
16 quality investment has impacted corporate securities in the opposite direction.
17 Specifically, by moving money out of corporate securities and into Treasury

1 securities, Treasury yields are very low right now, but corporate yields are abnormally
2 high. While utility corporate bonds and equity investments have not been hit as hard
3 as non-regulated companies, their cost of capital has still been detrimentally impacted
4 in this market. However, on a normalized basis, recognizing that the markets will
5 soon recover, a reasonable estimate of GMO's cost of equity is spread somewhere
6 between the abnormally low CAPM return estimates driven by Treasury bond yields
7 of 4.0%, and the abnormally high returns caused by depressed stock prices and utility
8 bond prices as reflected in the DCF and risk premium study. As such, creating a
9 range of returns as I have done above, produces a cost of equity of 10.3%, which is a
10 reasonable estimate of GMO's cost of equity during the period rates determined in
11 this proceeding will be in effect. The range of reasonable returns on equity based on
12 today's marketplace I believe would be around 50 basis points around this midpoint,
13 or a high of 10.8% and a low of 9.8%.

14 **FINANCIAL INTEGRITY**

15 **Q WILL YOUR RECOMMENDED OVERALL RATE OF RETURN SUPPORT AN**
16 **INVESTMENT GRADE BOND RATING FOR GMO?**

17 A Yes. I have reached this conclusion by comparing the key credit rating financial
18 ratios for GMO at its proposed capital structure, and my return on equity to S&P's
19 benchmark financial ratios using S&P's new credit metric ranges. In addition, I
20 compared GMO's key credit financial ratios to S&P benchmark financial ratios and to
21 the old S&P credit metric ranges for an "A" rated utility and "BBB" rated utility with a
22 business profile score (BPS) of '6,' GMO's S&P rating under S&P's old credit metric
23 benchmarks.

1 Q WHY ARE YOU COMPARING YOUR CREDIT METRIC CALCULATIONS TO
2 S&P'S NEW AND OLD CREDIT METRIC GUIDELINES?

3 A S&P's new credit metrics are not as transparent and do not clearly identify utility-
4 specific credit metric guidance ranges based on S&P business risk assessment.
5 Specifically, S&P has not published a range, that I am aware of, where it sets out
6 specific credit metric ranges for a utility with an "Aggressive" financial risk rating, and
7 a business risk rating score of "Excellent," GMO's current rating. However, S&P has
8 published guidelines which appear to be generally reflective of credit metrics at
9 various credit rating levels. In order to more clearly identify credit metric ranges that
10 are appropriate to support GMO's credit ratings, I will use both S&P's old and new
11 credit metric benchmarks.

12 Q PLEASE DESCRIBE S&P'S USE OF THE FINANCIAL BENCHMARK RATIOS IN
13 ITS CREDIT RATING REVIEW.

14 A S&P evaluates a utility's credit rating based on an assessment of its financial and
15 business risks. A combination of financial and business risks equates to the overall
16 assessment of GMO's total credit risk exposure. S&P publishes a matrix of financial
17 ratios that defines the level of financial risk as a function of the level of business risk.
18 S&P publishes ranges for three primary financial ratios that it uses as guidance in its
19 credit review for utility companies. The three primary financial ratio benchmarks it
20 relies on in its credit rating process include: (1) funds from operations (FFO) to debt
21 interest expense, (2) FFO to total debt, and (3) total debt to total capital.

1 Q HOW DID YOU APPLY S&P'S FINANCIAL RATIOS TO TEST THE
2 REASONABLENESS OF YOUR RATE OF RETURN RECOMMENDATIONS?

3 A I calculated each of S&P's financial ratios based on GMO's cost of service for retail
4 operations. While S&P would normally look at total Great Plains Energy Inc.
5 consolidated financial ratios in its credit review process, my investigation in this
6 proceeding is to judge the reasonableness of my proposed cost of capital for rate
7 setting in GMO's Missouri utility operations. Hence, I am attempting to determine
8 whether the rate of return and related cash flow generation opportunity reflected in
9 my proposed utility rates for GMO will support its investment grade bond ratings and
10 financial integrity.

11 Q PLEASE DESCRIBE THE RESULTS OF THIS CREDIT METRIC ANALYSIS FOR
12 MPS BASED ON YOUR RATE OF RETURN RECOMMENDATION.

13 A The S&P financial metric calculations for MPS are developed on my Schedule
14 MPG-21.

15 As shown on this schedule, based on an equity return of 10.30%, MPS will be
16 provided an opportunity to produce an FFO to debt interest expense of 4.0x. This
17 FFO to interest coverage ratio is at the high end of S&P's old benchmark ratio
18 guideline of 4.2x to 3.0x²⁰ for a "BBB" rated utility company with a business profile
19 score of '6,' and is well above (stronger than) S&P's new guideline range of 2.0x to
20 3.5x.²¹ This ratio supports a credit rating of strong "BBB."

²⁰Standard & Poor's: Assessing U.S. Vertically Integrated Utilities? Business Risk Drivers, September 14, 2006.

²¹Standard & Poor's: U.S. Utilities Rating Analysis Now Portrayed in the S&P Corporate Ratings Matrix; November 30, 2007.

1 MPS's retail operations FFO to total debt coverage at a 10.30% equity return
2 would be 21%, which is within S&P's old credit metric guideline range of 18% to 28%
3 for a "BBB" bond rating and within the new metric guideline range of 10% to 30%.
4 The FFO/total debt ratio will support a "BBB" rated investment grade bond rating.

5 Finally, MPS's total debt ratio to total capital is 52%. This is within S&P's
6 "BBB" rated utility old guideline range of 48% to 58%, and also within the new
7 guideline range of 45% to 60%. This total debt ratio will support a "BBB" investment
8 grade bond rating.

9 With my proposed capital structure and my return on equity, MPS's financial
10 credit metrics are supportive of its current "BBB" utility bond rating.

11 **Q WHAT ARE THE CREDIT METRIC FINANCIAL RATIOS FOR SJLP BASED ON**
12 **YOUR RATE OF RETURN RECOMMENDATION?**

13 **A**These ratios are developed on my Schedule MPG-21.

14 As shown on this schedule, based on an equity return of 10.30%, SJLP will be
15 provided an opportunity to produce an FFO to debt interest expense of 3.6x. This
16 FFO to interest coverage ratio is above S&P's old benchmark ratio guideline of 4.2x
17 to 3.0x²² for a "BBB" rated utility company with a business profile score of '6,' and is
18 above (stronger than) S&P's new guideline range of 2.0x to 3.5x.²³ This ratio
19 supports a credit rating of "BBB."

²²Standard & Poor's: Assessing U.S. Vertically Integrated Utilities? Business Risk Drivers, September 14, 2006.

²³Standard & Poor's: U.S. Utilities Rating Analysis Now Portrayed in the S&P Corporate Ratings Matrix; November 30, 2007.

1 SJLP's retail operations FFO to total debt coverage at a 10.30% equity return
2 would be 20%, which is within S&P's old credit metric guideline range of 18% to 28%
3 for a "BBB" bond rating and within the new metric guideline range of 10% to 30%.
4 The FFO/total debt ratio will support a "BBB" rated investment grade bond rating.

5 Finally, SJLP total debt ratio to total capital is 52%. This is within S&P's "BBB"
6 rated utility old guideline range of 48% to 58%, and also within the new guideline
7 range of 45% to 60%. This total debt ratio will support a "BBB" investment grade
8 bond rating.

9 With my proposed capital structure and return on equity, SJLP's financial
10 credit metrics are supportive of a "BBB" utility bond rating.

11 **Q DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

12 **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
22 Institute. The CFA charter was awarded after successfully completing three
23 examinations which covered the subject areas of financial accounting, economics,

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Appendix A
Michael Gorman
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Aquila Missouri

GMO Actual Capital Structure (September 30, 2008)

Missouri Public Service (MPS)

<u>Line</u>	<u>Description</u>	<u>Amount</u> <u>(\$000)</u> <u>(1)</u>	<u>Weight</u> <u>(2)</u>	<u>Cost</u> <u>(3)</u>	<u>Weighted</u> <u>Cost</u> <u>(4)</u>
1	Long-Term Debt	\$ 1,157,301	51.59%	6.83%	3.52%
2	Common Equity	<u>\$ 1,085,809</u>	<u>48.41%</u>	10.30%	<u>4.99%</u>
3	Total	\$ 2,243,110	100.00%		8.51%

Source:
FERC Form-1; 3Q, 2008.

Aquila Missouri

GMO Actual Capital Structure (September 30, 2008)

St. Joseph Light & Power (SJLP)

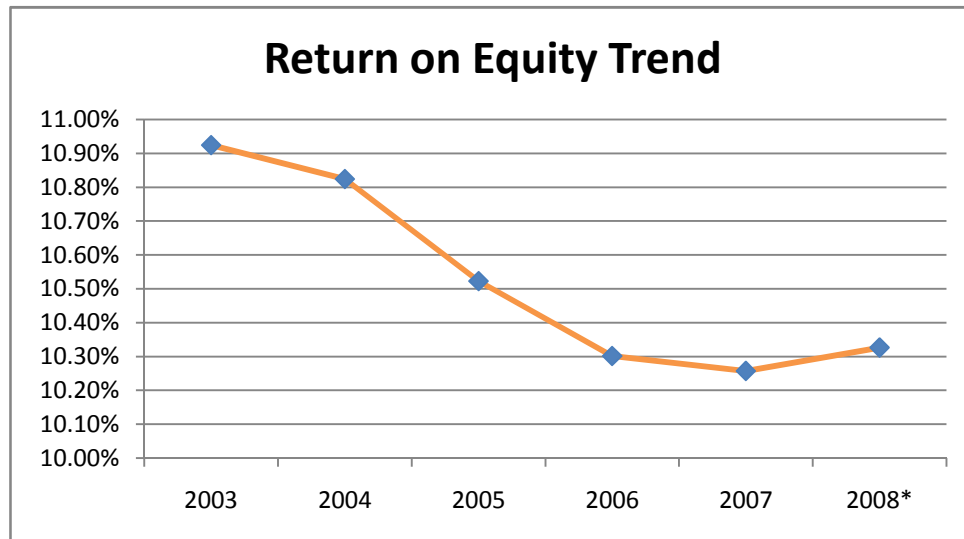
<u>Line</u>	<u>Description</u>	<u>Amount</u> <u>(\$000)</u> <u>(1)</u>	<u>Weight</u> <u>(2)</u>	<u>Cost</u> <u>(3)</u>	<u>Weighted</u> <u>Cost</u> <u>(4)</u>
1	Long-Term Debt	\$ 1,157,301	51.59%	7.62%	3.93%
2	Common Equity	<u>\$ 1,085,809</u>	<u>48.41%</u>	10.30%	<u>4.99%</u>
3	Total	\$ 2,243,110	100.00%		8.92%

Source:
FERC Form-1; 3Q, 2008.

Aquila Missouri

Electric Utility Authorized Returns on Equity

<u>Line</u>	<u>Year</u>	<u>Return on Equity</u>
1	2003	10.92%
2	2004	10.82%
3	2005	10.52%
4	2006	10.30%
5	2007	10.26%
6	2008*	10.33%
7	Average	10.53%



Source:

Edison Electric Institute; Rate Case Summary, 3Q 2008 Financial Update.

* The data for 2008 includes the period January - September 2008.

Aquila Missouri

Proxy Group

<u>Line</u>	<u>Company</u>	<u>Bond Ratings¹</u>		<u>Common Equity Ratios</u>		<u>EEI Risk Assessment³</u>
		<u>S&P</u> (1)	<u>Moody's</u> (2)	<u>AUS¹</u> (3)	<u>Value Line²</u> (4)	
1	ALLETE	A-	N/R	58.0%	64.4%	Regulated
2	Alliant Energy	A-	A2	60.0%	61.9%	Mostly Regulated
3	Ameren Corp.	BBB	Baa2	47.0%	53.4%	Regulated
4	Amer. Elec. Power	BBB	Baa1	39.0%	41.4%	Regulated
5	Avista Corp.	BBB+	Baa2	48.0%	59.0%	Regulated
6	Cen. Vermont Pub. Serv.	BBB+	N/R	50.0%	60.6%	Regulated
7	Cleco Corp.	BBB	Baa1	50.0%	56.7%	Regulated
8	Consol. Edison	A-	A1	49.0%	53.1%	Regulated
9	DTE Energy	A-	A3	42.0%	45.6%	Mostly Regulated
10	Edison Int'l	A	A2	40.0%	46.0%	Mostly Regulated
11	Empire Dist. Elec.	BBB+	Baa1	42.0%	49.9%	Regulated
12	Entergy Corp.	A-	Baa2	38.0%	43.9%	Mostly Regulated
13	FPL Group	A	Aa3	40.0%	48.8%	Mostly Regulated
14	FirstEnergy Corp.	BBB	Baa2	41.0%	50.3%	Mostly Regulated
15	Hawaiian Elec.	BBB	Baa2	38.0%	51.0%	Diversified
16	IDACORP, Inc.	A-	A3	46.0%	51.1%	Regulated
17	NiSource Inc.	BBB-	Baa2	38.0%	47.6%	Mostly Regulated
18	Northeast Utilities	BBB+	Baa1	39.0%	39.2%	Regulated
19	NSTAR	AA-	A1	40.0%	40.1%	Regulated
20	PG&E Corp.	BBB+	A3	48.0%	50.4%	Regulated
21	Pinnacle West Capital	BBB-	Baa2	50.0%	53.0%	Regulated
22	Portland General	A	Baa1	50.0%	50.1%	Regulated
23	Progress Energy	A-	A2	44.0%	48.8%	Regulated
24	Southern Co.	A	A2	41.0%	44.9%	Regulated
25	TECO Energy	BBB-	Baa2	39.0%	39.0%	Regulated
26	UIL Holdings	N/R	Baa2	40.0%	49.2%	Regulated
27	Vectren Corp.	A	A3	46.0%	49.8%	Regulated
28	Westar Energy	BBB-	Baa2	47.0%	48.9%	Regulated
29	Wisconsin Energy	A-	Aa3	42.0%	49.2%	Regulated
30	Xcel Energy Inc.	A-	A3	44.0%	49.4%	Regulated
31	Average	BBB+	A3	44.5%	49.9%	Regulated
32	Aquila Missouri	BBB+	Baa2		48.4% ⁵	Regulated

Sources:

¹ *AUS Utility Reports*, December 2008.

² *The Value Line Investment Survey* for November 7, November 28, and December 26, 2008.

³ *EEI Q3 Financial Update*, Companies Listed by Category.

⁴ SNL Interactive, <http://www.snl.com/InteractiveX/MyInteractive.aspx>, downloaded on February 11, 2009.

⁵ Schedule MPG-1.

Aquila Missouri

Growth Rates

<u>Line</u>	<u>Company</u>	<u>Zacks</u>		<u>SNL</u>		<u>Average of Growth Rates</u>
		<u>Estimated Growth %¹</u>	<u>Number of Estimates</u>	<u>Estimated Growth %²</u>	<u>Number of Estimates</u>	
		(1)	(2)	(3)	(4)	
1	ALLETE	5.00%	1	6.50%	2	5.75%
2	Alliant Energy	5.00%	2	6.10%	2	5.55%
3	Ameren Corp.	5.50%	4	4.00%	2	4.75%
4	Amer. Elec. Power	5.00%	1	5.30%	4	5.15%
5	Avista Corp.	10.50%	2	5.00%	3	7.75%
6	Cen. Vermont Pub. Serv.	N/A	N/A	N/A	N/A	N/A
7	Cleco Corp.	15.00%	2	13.60%	2	14.30%
8	Consol. Edison	3.33%	3	2.00%	5	2.67%
9	DTE Energy	6.00%	1	3.50%	2	4.75%
10	Edison Int'l	7.00%	2	7.00%	3	7.00%
11	Empire Dist. Elec.	N/A	N/A	N/A	N/A	N/A
12	Entergy Corp.	9.75%	4	10.00%	5	9.88%
13	FPL Group	9.33%	6	10.00%	6	9.67%
14	FirstEnergy Corp.	7.67%	3	9.00%	3	8.34%
15	Hawaiian Elec.	4.50%	3	3.00%	3	3.75%
16	IDACORP, Inc.	6.00%	2	5.00%	2	5.50%
17	NiSource Inc.	2.50%	2	3.00%	5	2.75%
18	Northeast Utilities	10.00%	3	8.50%	6	9.25%
19	NSTAR	7.40%	5	6.00%	4	6.70%
20	PG&E Corp.	7.50%	3	7.00%	7	7.25%
21	Pinnacle West Capital	6.00%	1	4.00%	3	5.00%
22	Portland General	6.50%	2	5.30%	4	5.90%
23	Progress Energy	4.88%	4	5.00%	6	4.94%
24	Southern Co.	5.20%	5	5.80%	6	5.50%
25	TECO Energy	8.25%	4	8.10%	7	8.18%
26	UIL Holdings	8.00%	2	6.00%	1	7.00%
27	Vectren Corp.	6.40%	5	6.00%	3	6.20%
28	Westar Energy	6.00%	2	4.00%	3	5.00%
29	Wisconsin Energy	9.00%	4	10.00%	5	9.50%
30	Xcel Energy Inc.	6.50%	2	7.30%	4	6.90%
31	Average	6.92%	3	6.29%	4	6.60%

Sources:

¹ Zacks Elite, <http://www.zackselite.com/>, downloaded on January 19, 2009.

² SNL Interactive, <http://www.snl.com/>, downloaded on January 19, 2009.

Aquila Missouri

Constant Growth DCF Model

<u>Line</u>	<u>Company</u>	<u>13-Week AVG Stock Price¹</u> (1)	<u>Analysts' Growth²</u> (2)	<u>Annual Dividend³</u> (3)	<u>Adjusted Yield</u> (4)	<u>Constant Growth DCF</u> (5)
1	ALLETE	\$32.61	5.75%	\$1.72	5.58%	11.33%
2	Alliant Energy	\$29.23	5.55%	\$1.40	5.05%	10.60%
3	Ameren Corp.	\$32.44	4.75%	\$2.54	8.20%	12.95%
4	Amer. Elec. Power	\$31.09	5.15%	\$1.64	5.55%	10.70%
5	Avista Corp.	\$18.51	7.75%	\$0.72	4.19%	11.94%
6	Cen. Vermont Pub. Serv.	\$20.44	N/A	\$0.92	N/A	N/A
7	Cleco Corp.	\$21.91	14.30%	\$0.90	4.69%	18.99%
8	Consol. Edison	\$39.73	2.67%	\$2.34	6.05%	8.71%
9	DTE Energy	\$35.31	4.75%	\$2.12	6.29%	11.04%
10	Edison Int'l	\$32.40	7.00%	\$1.22	4.03%	11.03%
11	Empire Dist. Elec.	\$17.48	N/A	\$1.28	N/A	N/A
12	Entergy Corp.	\$80.93	9.88%	\$3.00	4.07%	13.95%
13	FPL Group	\$47.22	9.67%	\$1.78	4.13%	13.80%
14	FirstEnergy Corp.	\$51.96	8.34%	\$2.20	4.59%	12.92%
15	Hawaiian Elec.	\$24.10	3.75%	\$1.24	5.34%	9.09%
16	IDACORP, Inc.	\$28.26	5.50%	\$1.20	4.48%	9.98%
17	NiSource Inc.	\$11.61	2.75%	\$0.92	8.14%	10.89%
18	Northeast Utilities	\$22.71	9.25%	\$0.85	4.10%	13.35%
19	NSTAR	\$33.86	6.70%	\$1.40	4.41%	11.11%
20	PG&E Corp.	\$36.76	7.25%	\$1.56	4.55%	11.80%
21	Pinnacle West Capital	\$30.54	5.00%	\$2.10	7.22%	12.22%
22	Portland General	\$18.46	5.90%	\$0.98	5.62%	11.52%
23	Progress Energy	\$38.62	4.94%	\$2.46	6.68%	11.62%
24	Southern Co.	\$35.49	5.50%	\$1.68	4.99%	10.49%
25	TECO Energy	\$12.23	8.18%	\$0.80	7.07%	15.25%
26	UIL Holdings	\$29.86	7.00%	\$1.73	6.19%	13.19%
27	Vectren Corp.	\$25.13	6.20%	\$1.34	5.66%	11.86%
28	Westar Energy	\$19.20	5.00%	\$1.16	6.34%	11.34%
29	Wisconsin Energy	\$41.52	9.50%	\$1.08	2.85%	12.35%
30	Xcel Energy Inc.	\$17.90	6.90%	\$0.95	5.68%	12.58%
31	Average	\$30.58	6.60%	\$1.51	5.42%	12.02%

Sources:

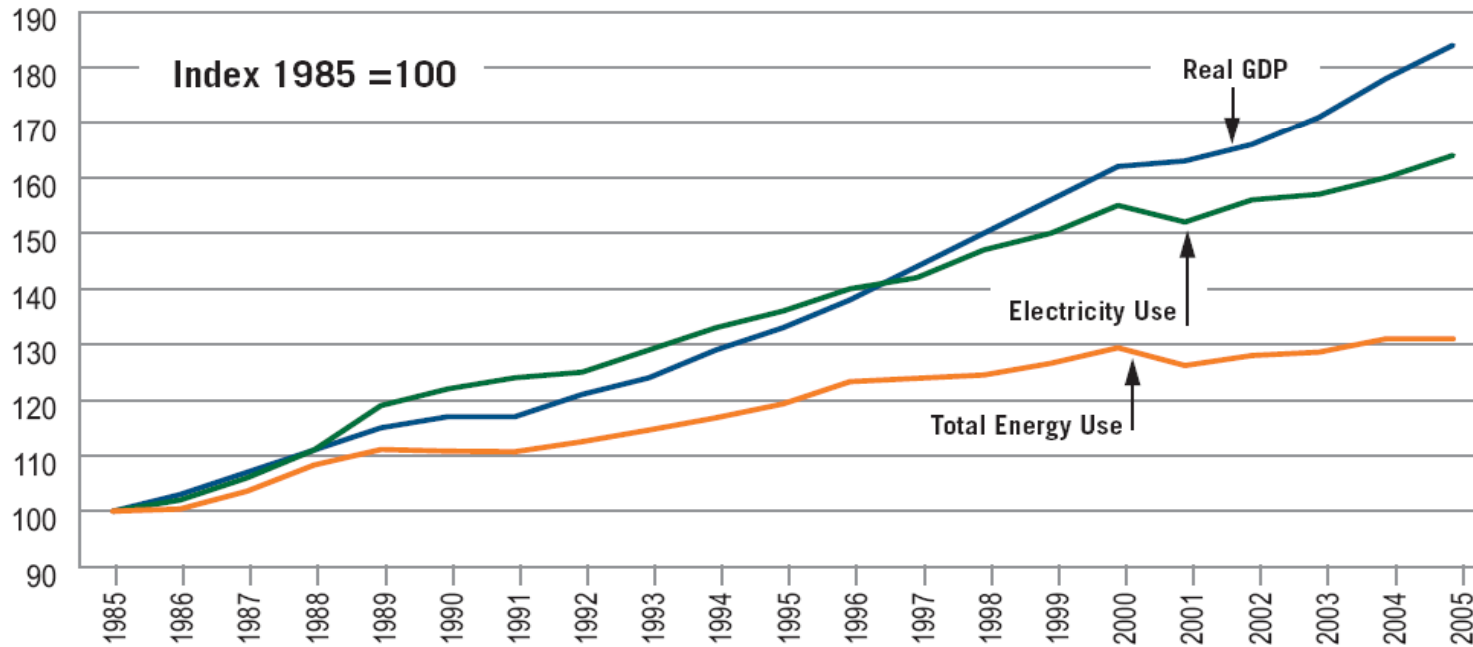
¹ <http://moneycentral.msn.com>, downloaded on January 20, 2009.

² Schedule MPG-4, Column 5.

³ *The Value Line Investment Survey* for November 7, November 28, and December 26, 2008.

Aquila Missouri

Electricity Sales Are Linked to U.S. Economic Growth



1985 represents the base year. Graph depicts increases or decreases from the base year.

Source: U.S. Department of Energy, Energy Information Administration (EIA).

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Aquila Missouri

Historical Growth Rates

Line	Company	Dividend Growth			Inflation (CPI)			Nominal GDP			
		Historical		3-5 Years	Historical		3-5 Years	Historical		Projected*	
		10 Years	5 Years	Projection	5 Years	10 Years	Projection	5 Years	10 Years	5 Years	10 Years
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	ALLETE	N/A	N/A	4.5%							
2	Alliant Energy	-5.0%	-10.5%	9.0%							
3	Ameren Corp.	N/A	N/A	N/A							
4	Amer. Elec. Power	-4.5%	-9.0%	4.0%							
5	Avista Corp.	-7.5%	3.5%	12.5%							
6	Cen. Vermont Pub. Serv.	1.0%	1.0%	N/A							
7	Cleco Corp.	1.5%	0.5%	9.5%							
8	Consol. Edison	1.0%	1.0%	1.0%							
9	DTE Energy	N/A	N/A	1.5%							
10	Edison Int'l	1.0%	N/A	7.0%							
11	Empire Dist. Elec.	N/A	N/A	1.5%							
12	Entergy Corp.	2.5%	12.5%	6.0%							
13	FPL Group	5.0%	6.5%	6.5%							
14	FirstEnergy Corp.	2.0%	4.5%	8.5%							
15	Hawaiian Elec.	0.5%	N/A	1.0%							
16	IDACORP, Inc.	-4.5%	-8.5%	N/A							
17	NiSource Inc.	0.5%	-2.5%	1.5%							
18	Northeast Utilities	-4.5%	9.5%	7.0%							
19	NSTAR	3.0%	3.5%	7.0%							
20	PG&E Corp.	-3.0%	N/A	9.0%							
21	Pinnacle West Capital	7.0%	5.5%	1.0%							
22	Portland General	N/A	N/A	N/A							
23	Progress Energy	3.0%	2.5%	1.0%							
24	Southern Co.	2.0%	2.5%	4.5%							
25	TECO Energy	-3.5%	-11.0%	2.5%							
26	UIL Holdings	N/A	N/A	N/A							
27	Vectren Corp.	N/A	3.5%	3.0%							
28	Westar Energy	-7.0%	-5.0%	5.5%							
29	Wisconsin Energy	-4.5%	-1.0%	13.0%							
30	Xcel Energy Inc.	-4.5%	-8.5%	3.0%							
31	Average	-0.8%	0.0%	5.2%	2.9%	2.6%	3.0%	5.7%	5.2%	5.0%	4.8%

Sources:

The Value Line Investment Survey for November 7, November 28, and December 26, 2008.

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

Aquila Missouri

Current and Projected Payout Ratios

<u>Line</u>	<u>Company</u>	<u>Dividends Per Share</u>		<u>Earnings Per Share</u>		<u>Payout Ratio</u>	
		<u>2007</u> (1)	<u>3-5 Years</u> (2)	<u>2007</u> (3)	<u>3-5 Years</u> (4)	<u>2007</u> (5)	<u>3-5 Years</u> (6)
1	ALLETE	\$1.64	\$1.90	\$3.08	\$2.75	53.25%	69.09%
2	Alliant Energy	\$1.27	\$1.92	\$2.69	\$3.30	47.21%	58.18%
3	Ameren Corp.	\$2.54	\$2.54	\$2.98	\$3.75	85.23%	67.73%
4	Amer. Elec. Power	\$1.58	\$1.90	\$2.86	\$3.75	55.24%	50.67%
5	Avista Corp.	\$0.60	\$1.15	\$0.72	\$1.75	83.33%	65.71%
6	Gen. Vermont Pub. Serv.	\$0.92	\$0.92	\$1.49	\$1.65	61.74%	55.76%
7	Cleco Corp.	\$0.90	\$1.55	\$1.32	\$2.50	68.18%	62.00%
8	Consol. Edison	\$2.32	\$2.42	\$3.48	\$3.30	66.67%	73.33%
9	DTE Energy	\$2.12	\$2.55	\$2.66	\$3.75	79.70%	68.00%
10	Edison Int'l	\$1.16	\$1.64	\$3.34	\$4.50	34.73%	36.44%
11	Empire Dist. Elec.	\$1.28	\$1.40	\$1.09	\$2.00	117.43%	70.00%
12	Entergy Corp.	\$2.58	\$3.30	\$5.60	\$8.00	46.07%	41.25%
13	FPL Group	\$1.64	\$2.20	\$3.27	\$5.00	50.15%	44.00%
14	FirstEnergy Corp.	\$2.05	\$3.05	\$4.22	\$6.50	48.58%	46.92%
15	Hawaiian Elec.	\$1.24	\$1.30	\$1.11	\$1.75	111.71%	74.29%
16	IDACORP, Inc.	\$1.20	\$1.20	\$1.86	\$2.25	64.52%	53.33%
17	NiSource Inc.	\$0.92	\$1.00	\$1.14	\$1.50	80.70%	66.67%
18	Northeast Utilities	\$0.78	\$1.10	\$1.59	\$2.25	49.06%	48.89%
19	NSTAR	\$1.33	\$1.85	\$2.07	\$3.00	64.25%	61.67%
20	PG&E Corp.	\$1.41	\$2.04	\$2.78	\$3.50	50.72%	58.29%
21	Pinnacle West Capital	\$2.10	\$2.22	\$2.96	\$3.10	70.95%	71.61%
22	Portland General	\$0.93	\$1.20	\$2.33	\$2.25	39.91%	53.33%
23	Progress Energy	\$2.44	\$2.54	\$2.69	\$3.40	90.71%	74.71%
24	Southern Co.	\$1.60	\$2.00	\$2.28	\$3.00	70.18%	66.67%
25	TECO Energy	\$0.78	\$0.90	\$1.27	\$1.75	61.42%	51.43%
26	UIL Holdings	\$1.73	\$1.73	\$1.87	\$2.10	92.51%	82.38%
27	Vectren Corp.	\$1.27	\$1.47	\$1.83	\$2.25	69.40%	65.33%
28	Westar Energy	\$1.08	\$1.36	\$1.84	\$2.00	58.70%	68.00%
29	Wisconsin Energy	\$1.00	\$1.95	\$2.84	\$4.25	35.21%	45.88%
30	Xcel Energy Inc.	\$0.91	\$1.06	\$1.35	\$2.00	67.41%	53.00%
31	Average	\$1.44	\$1.78	\$2.35	\$3.10	65.83%	60.15%

Source:

The Value Line Investment Survey for November 7, November 28, and December 26, 2008.

Aquila Missouri

Sustainable Growth Rate

Line	Company	3 to 5 Year Projections							Growth
		Dividends	Earnings	Book Value	Payout	Retention	Internal	Rate Plus	
		Per Share	Per Share	Per Share	ROE	Ratio	Rate	Growth Rate	
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	ALLETE	\$1.90	\$2.75	\$28.50	9.65%	69.09%	30.91%	2.98%	3.72%
2	Alliant Energy	\$1.92	\$3.30	\$31.50	10.48%	58.18%	41.82%	4.38%	4.32%
3	Ameren Corp.	\$2.54	\$3.75	\$35.50	10.56%	67.73%	32.27%	3.41%	3.29%
4	Amer. Elec. Power	\$1.90	\$3.75	\$34.25	10.95%	50.67%	49.33%	5.40%	5.32%
5	Avista Corp.	\$1.15	\$1.75	\$21.00	8.33%	65.71%	34.29%	2.86%	2.70%
6	Gen. Vermont Pub. Serv.	\$0.92	\$1.65	\$21.60	7.64%	55.76%	44.24%	3.38%	3.32%
7	Cleco Corp.	\$1.55	\$2.50	\$21.75	11.49%	62.00%	38.00%	4.37%	4.38%
8	Consol. Edison	\$2.42	\$3.30	\$37.70	8.75%	73.33%	26.67%	2.33%	2.38%
9	DTE Energy	\$2.55	\$3.75	\$41.75	8.98%	68.00%	32.00%	2.87%	2.88%
10	Edison Int'l	\$1.64	\$4.50	\$39.45	11.41%	36.44%	63.56%	7.25%	7.25%
11	Empire Dist. Elec.	\$1.40	\$2.00	\$18.50	10.81%	70.00%	30.00%	3.24%	3.09%
12	Energy Corp.	\$3.30	\$8.00	\$60.75	13.17%	41.25%	58.75%	7.74%	7.34%
13	FPL Group	\$2.20	\$5.00	\$37.50	13.33%	44.00%	56.00%	7.47%	7.60%
14	FirstEnergy Corp.	\$3.05	\$6.50	\$43.25	15.03%	46.92%	53.08%	7.98%	7.98%
15	Hawaiian Elec.	\$1.30	\$1.75	\$16.75	10.45%	74.29%	25.71%	2.69%	3.26%
16	IDACORP, Inc.	\$1.20	\$2.25	\$28.90	7.79%	53.33%	46.67%	3.63%	3.57%
17	NiSource Inc.	\$1.00	\$1.50	\$20.40	7.35%	66.67%	33.33%	2.45%	2.38%
18	Northeast Utilities	\$1.10	\$2.25	\$25.75	8.74%	48.89%	51.11%	4.47%	3.87%
19	NSTAR	\$1.85	\$3.00	\$21.00	14.29%	61.67%	38.33%	5.48%	5.48%
20	PG&E Corp.	\$2.04	\$3.50	\$29.95	11.69%	58.29%	41.71%	4.87%	5.11%
21	Pinnacle West Capital	\$2.22	\$3.10	\$39.10	7.93%	71.61%	28.39%	2.25%	1.99%
22	Portland General	\$1.20	\$2.25	\$25.00	9.00%	53.33%	46.67%	4.20%	2.95%
23	Progress Energy	\$2.54	\$3.40	\$36.45	9.33%	74.71%	25.29%	2.36%	2.45%
24	Southern Co.	\$2.00	\$3.00	\$21.50	13.95%	66.67%	33.33%	4.65%	5.51%
25	TECO Energy	\$0.90	\$1.75	\$12.50	14.00%	51.43%	48.57%	6.80%	6.79%
26	UIL Holdings	\$1.73	\$2.10	\$18.80	11.17%	82.38%	17.62%	1.97%	2.64%
27	Vectren Corp.	\$1.47	\$2.25	\$19.55	11.51%	65.33%	34.67%	3.99%	4.39%
28	Westar Energy	\$1.36	\$2.00	\$27.50	7.27%	68.00%	32.00%	2.33%	1.35%
29	Wisconsin Energy	\$1.95	\$4.25	\$35.25	12.06%	45.88%	54.12%	6.52%	6.53%
30	Xcel Energy Inc.	\$1.06	\$2.00	\$18.00	11.11%	53.00%	47.00%	5.22%	5.22%
31	Average	\$1.78	\$3.10	\$28.98	10.61%	60.15%	39.85%	4.32%	4.30%

Sources:

The Value Line Investment Survey for November 7, November 28, and December 26, 2008.

¹ Page 2, Column 9.

Aquila Missouri

Sustainable Growth

Line	Company	13-Week	3-5 Year	Market	Common Shares		Growth	S Factor ³	V Factor ⁴	S * V
		Average	Book Value P/S		Outstanding (in Millions) ²					
		Stock Price ¹	Projection ²	Ratio	2007	3-5 Years	(6)	(7)	(8)	(9)
		(1)	(2)	(3)	(4)	(5)				
1	ALLETE	\$32.61	\$28.50	1.14	30.80	39.50	5.10%	5.84%	12.61%	0.74%
2	Alliant Energy	\$29.23	\$31.50	0.93	110.36	115.00	0.83%	0.77%	-7.75%	-0.06%
3	Ameren Corp.	\$32.44	\$35.50	0.91	208.30	223.00	1.37%	1.25%	-9.44%	-0.12%
4	Amer. Elec. Power	\$31.09	\$34.25	0.91	400.43	419.00	0.91%	0.83%	-10.16%	-0.08%
5	Avista Corp.	\$18.51	\$21.00	0.88	52.91	56.50	1.32%	1.17%	-13.42%	-0.16%
6	Cen. Vermont Pub. Serv.	\$20.44	\$21.60	0.95	10.24	10.80	1.07%	1.01%	-5.65%	-0.06%
7	Cleco Corp.	\$21.91	\$21.75	1.01	59.94	65.00	1.63%	1.65%	0.73%	0.01%
8	Consol. Edison	\$39.73	\$37.70	1.05	272.02	284.00	0.87%	0.91%	5.10%	0.05%
9	DTE Energy	\$35.31	\$41.75	0.85	163.23	163.00	-0.03%	-0.02%	-18.23%	0.00%
10	Edison Int'l	\$32.40	\$39.45	0.82	325.81	326.00	0.01%	0.01%	-21.77%	0.00%
11	Empire Dist. Elec.	\$17.48	\$18.50	0.95	33.61	38.50	2.75%	2.60%	-5.81%	-0.15%
12	Entergy Corp.	\$80.93	\$60.75	1.33	193.12	182.00	-1.18%	-1.57%	24.93%	-0.39%
13	FPL Group	\$47.22	\$37.50	1.26	407.35	418.00	0.52%	0.65%	20.58%	0.13%
14	FirstEnergy Corp.	\$51.96	\$43.25	1.20	304.84	304.85	0.00%	0.00%	16.76%	0.00%
15	Hawaiian Elec.	\$24.10	\$16.75	1.44	83.43	89.00	1.30%	1.87%	30.50%	0.57%
16	IDACORP, Inc.	\$28.26	\$28.90	0.98	45.06	51.60	2.75%	2.69%	-2.28%	-0.06%
17	NiSource Inc.	\$11.61	\$20.40	0.57	274.18	276.50	0.17%	0.10%	-75.64%	-0.07%
18	Northeast Utilities	\$22.71	\$25.75	0.88	156.22	200.00	5.07%	4.47%	-13.40%	-0.60%
19	NSTAR	\$33.86	\$21.00	1.61	106.81	106.81	0.00%	0.00%	37.99%	0.00%
20	PG&E Corp.	\$36.76	\$29.95	1.23	378.39	398.00	1.02%	1.25%	18.53%	0.23%
21	Pinnacle West Capital	\$30.54	\$39.10	0.78	100.49	106.60	1.19%	0.93%	-28.04%	-0.26%
22	Portland General	\$18.46	\$25.00	0.74	62.53	79.00	4.79%	3.53%	-35.45%	-1.25%
23	Progress Energy	\$38.62	\$36.45	1.06	260.10	280.00	1.49%	1.57%	5.62%	0.09%
24	Southern Co.	\$35.49	\$21.50	1.65	763.10	815.00	1.32%	2.19%	39.42%	0.86%
25	TECO Energy	\$12.23	\$12.50	0.98	210.90	217.00	0.57%	0.56%	-2.17%	-0.01%
26	UIL Holdings	\$29.86	\$18.80	1.59	25.03	26.50	1.15%	1.82%	37.05%	0.68%
27	Vectren Corp.	\$25.13	\$19.55	1.29	76.36	81.80	1.39%	1.78%	22.22%	0.40%
28	Westar Energy	\$19.20	\$27.50	0.70	95.46	112.00	3.25%	2.27%	-43.25%	-0.98%
29	Wisconsin Energy	\$41.52	\$35.25	1.18	116.94	117.00	0.01%	0.01%	15.11%	0.00%
30	Xcel Energy Inc.	\$17.90	\$18.00	0.99	428.78	458.00	1.33%	1.32%	-0.53%	-0.01%
31	Average	\$30.58	\$28.98	1.06	191.89	202.00	1.40%	1.38%	-0.20%	-0.02%

Sources:

¹ <http://moneycentral.msn.com>, downloaded on January 20, 2009.

² *The Value Line Investment Survey* for November 7, November 28, and December 26, 2008.

³ Expected Growth in the Number of Shares.

⁴ Expected Profit of Stock Investment.

Aquila Missouri

Composite Long-Term Growth DCF Model

<u>Line</u>	<u>Company</u>	<u>13-Week AVG Stock Price¹</u> (1)	<u>Analysts' Growth²</u> (2)	<u>Sustainable Growth³</u> (3)	<u>Composite Growth</u> (4)	<u>Annual Dividend⁴</u> (5)	<u>Adjusted Yield</u> (6)	<u>Constant Growth DCF</u> (7)
1	ALLETE	\$32.61	5.75%	3.72%	5.07%	\$1.72	5.54%	10.61%
2	Alliant Energy	\$29.23	5.55%	4.32%	5.14%	\$1.40	5.04%	10.18%
3	Ameren Corp.	\$32.44	4.75%	3.29%	4.26%	\$2.54	8.16%	12.43%
4	Amer. Elec. Power	\$31.09	5.15%	5.32%	5.21%	\$1.64	5.55%	10.76%
5	Avista Corp.	\$18.51	7.75%	2.70%	6.07%	\$0.72	4.12%	10.19%
6	Cen. Vermont Pub. Serv.	\$20.44	N/A	3.32%	N/A	\$0.92	N/A	N/A
7	Cleco Corp.	\$21.91	14.30%	4.38%	10.99%	\$0.90	4.56%	15.55%
8	Consol. Edison	\$39.73	2.67%	2.38%	2.57%	\$2.34	6.04%	8.61%
9	DTE Energy	\$35.31	4.75%	2.88%	4.13%	\$2.12	6.25%	10.38%
10	Edison Int'l	\$32.40	7.00%	7.25%	7.08%	\$1.22	4.03%	11.12%
11	Empire Dist. Elec.	\$17.48	N/A	3.09%	N/A	\$1.28	N/A	N/A
12	Entergy Corp.	\$80.93	9.88%	7.34%	9.03%	\$3.00	4.04%	13.07%
13	FPL Group	\$47.22	9.67%	7.60%	8.98%	\$1.78	4.11%	13.08%
14	FirstEnergy Corp.	\$51.96	8.34%	7.98%	8.22%	\$2.20	4.58%	12.80%
15	Hawaiian Elec.	\$24.10	3.75%	3.26%	3.59%	\$1.24	5.33%	8.92%
16	IDACORP, Inc.	\$28.26	5.50%	3.57%	4.86%	\$1.20	4.45%	9.31%
17	NiSource Inc.	\$11.61	2.75%	2.38%	2.63%	\$0.92	8.13%	10.76%
18	Northeast Utilities	\$22.71	9.25%	3.87%	7.46%	\$0.85	4.03%	11.49%
19	NSTAR	\$33.86	6.70%	5.48%	6.29%	\$1.40	4.39%	10.69%
20	PG&E Corp.	\$36.76	7.25%	5.11%	6.54%	\$1.56	4.52%	11.06%
21	Pinnacle West Capital	\$30.54	5.00%	1.99%	4.00%	\$2.10	7.15%	11.15%
22	Portland General	\$18.46	5.90%	2.95%	4.92%	\$0.98	5.57%	10.49%
23	Progress Energy	\$38.62	4.94%	2.45%	4.11%	\$2.46	6.63%	10.74%
24	Southern Co.	\$35.49	5.50%	5.51%	5.50%	\$1.68	4.99%	10.50%
25	TECO Energy	\$12.23	8.18%	6.79%	7.71%	\$0.80	7.04%	14.76%
26	UIL Holdings	\$29.86	7.00%	2.64%	5.55%	\$1.73	6.11%	11.66%
27	Vectren Corp.	\$25.13	6.20%	4.39%	5.60%	\$1.34	5.63%	11.22%
28	Westar Energy	\$19.20	5.00%	1.35%	3.78%	\$1.16	6.27%	10.05%
29	Wisconsin Energy	\$41.52	9.50%	6.53%	8.51%	\$1.08	2.82%	11.33%
30	Xcel Energy Inc.	\$17.90	6.90%	5.22%	6.34%	\$0.95	5.65%	11.99%
31	Average	\$30.58	6.60%	4.30%	5.86%	\$1.51	5.38%	11.25%

Sources:

¹ <http://moneycentral.msn.com>, downloaded on January 20, 2009.

² Schedule MPG-4, Column 5.

³ Schedule MPG-9, page 1 of 2, Column 8.

⁴ *The Value Line Investment Survey* for November 7, November 28, and December 26, 2008.

Aquila Missouri

Long-Term Sustainable GDP Growth Rate

<u>Line</u>	<u>Date</u>	<u>20-Year Yield¹</u>		<u>Inflation</u>
		<u>Treasury</u>	<u>TIPS</u>	
		(1)	(2)	(3)
1	10/24/08	4.46%	2.82%	1.64%
2	10/31/08	4.59%	3.20%	1.39%
3	11/07/08	4.58%	3.07%	1.51%
4	11/14/08	4.49%	2.89%	1.60%
5	11/21/08	4.14%	2.91%	1.23%
6	11/28/08	3.84%	3.14%	0.70%
7	12/05/08	3.44%	2.51%	0.93%
8	12/12/08	3.38%	2.44%	0.94%
9	12/19/08	3.04%	2.17%	0.87%
10	12/30/08	2.93%	2.16%	0.77%
11	01/02/09	3.02%	2.32%	0.70%
12	01/09/09	3.40%	2.57%	0.83%
13	01/16/09	3.23%	2.29%	0.94%
14	Average	3.73%	2.65%	1.08%
15	Real GDP (1929-2008) ²			3.47%
16	Long-Term Sustainable GDP Growth			<u>4.55%</u>

Sources:

¹ St. Louis Federal Reserve Bank.

² www.bea.gov.

Aquila Missouri

Two-Stage Growth DCF Model

<u>Line</u>	<u>Company</u>	<u>13-Week AVG Stock Price¹</u>	<u>Annual Dividend²</u>	<u>First Stage Growth</u>	<u>Second Stage Growth³</u>	<u>Two-Stage Growth DCF</u>
		(1)	(2)	(3)	(4)	(5)
1	ALLETE	\$32.61	\$1.72	5.75%	4.90%	10.64%
2	Alliant Energy	\$29.23	\$1.40	5.55%	4.90%	10.07%
3	Ameren Corp.	\$32.44	\$2.54	4.75%	4.90%	13.06%
4	Amer. Elec. Power	\$31.09	\$1.64	5.15%	4.90%	10.49%
5	Avista Corp.	\$18.51	\$0.72	7.75%	4.90%	9.52%
6	Gen. Vermont Pub. Serv.	\$20.44	\$0.92	N/A	4.90%	N/A
7	Cleco Corp.	\$21.91	\$0.90	14.30%	4.90%	11.25%
8	Consol. Edison	\$39.73	\$2.34	2.67%	4.90%	10.51%
9	DTE Energy	\$35.31	\$2.12	4.75%	4.90%	11.16%
10	Edison Int'l	\$32.40	\$1.22	7.00%	4.90%	9.23%
11	Empire Dist. Elec.	\$17.48	\$1.28	N/A	4.90%	N/A
12	Entergy Corp.	\$80.93	\$3.00	9.88%	4.90%	9.71%
13	FPL Group	\$47.22	\$1.78	9.67%	4.90%	9.75%
14	FirstEnergy Corp.	\$51.96	\$2.20	8.34%	4.90%	10.05%
15	Hawaiian Elec.	\$24.10	\$1.24	3.75%	4.90%	10.03%
16	IDACORP, Inc.	\$28.26	\$1.20	5.50%	4.90%	9.47%
17	NiSource Inc.	\$11.61	\$0.92	2.75%	4.90%	12.49%
18	Northeast Utilities	\$22.71	\$0.85	9.25%	4.90%	9.65%
19	NSTAR	\$33.86	\$1.40	6.70%	4.90%	9.59%
20	PG&E Corp.	\$36.76	\$1.56	7.25%	4.90%	9.83%
21	Pinnacle West Capital	\$30.54	\$2.10	5.00%	4.90%	12.14%
22	Portland General	\$18.46	\$0.98	5.90%	4.90%	10.71%
23	Progress Energy	\$38.62	\$2.46	4.94%	4.90%	11.59%
24	Southern Co.	\$35.49	\$1.68	5.50%	4.90%	10.00%
25	TECO Energy	\$12.23	\$0.80	8.18%	4.90%	12.75%
26	UIL Holdings	\$29.86	\$1.73	7.00%	4.90%	11.53%
27	Vectren Corp.	\$25.13	\$1.34	6.20%	4.90%	10.81%
28	Westar Energy	\$19.20	\$1.16	5.00%	4.90%	11.27%
29	Wisconsin Energy	\$41.52	\$1.08	9.50%	4.90%	8.23%
30	Xcel Energy Inc.	\$17.90	\$0.95	6.90%	4.90%	10.97%
31	Average	\$30.58	\$1.51	6.60%	4.90%	10.59%

Sources:

¹ <http://moneycentral.msn.com>, downloaded on January 20, 2009.

² *The Value Line Investment Survey* for November 7, November 28, and December 26, 2008.

³ *Blue Chip Economic Indicators*, October 10, 2008.

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Multi-Stage Growth DCF Model

Line	Company	13-Week AVG	Annual	First Stage	Second Stage Growth					Third Stage	Multi-Stage
		Stock Price ¹	Dividend ²	Growth	Year 6	Year 7	Year 8	Year 9	Year 10	Growth ³	Growth DCF
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	ALLETE	\$32.61	\$1.72	5.75%	5.61%	5.47%	5.33%	5.18%	5.04%	4.90%	10.72%
2	Alliant Energy	\$29.23	\$1.40	5.55%	5.44%	5.33%	5.23%	5.12%	5.01%	4.90%	10.13%
3	Ameren Corp.	\$32.44	\$2.54	4.75%	4.78%	4.80%	4.83%	4.85%	4.88%	4.90%	13.04%
4	Amer. Elec. Power	\$31.09	\$1.64	5.15%	5.11%	5.07%	5.03%	4.98%	4.94%	4.90%	10.52%
5	Avista Corp.	\$18.51	\$0.72	7.75%	7.28%	6.80%	6.33%	5.85%	5.38%	4.90%	9.76%
6	Gen. Vermont Pub. Serv.	\$20.44	\$0.92	N/A	N/A	N/A	N/A	N/A	N/A	4.90%	N/A
7	Cleco Corp.	\$21.91	\$0.90	14.30%	12.73%	11.17%	9.60%	8.03%	6.47%	4.90%	12.26%
8	Consol. Edison	\$39.73	\$2.34	2.67%	3.04%	3.41%	3.78%	4.16%	4.53%	4.90%	10.29%
9	DTE Energy	\$35.31	\$2.12	4.75%	4.78%	4.80%	4.83%	4.85%	4.88%	4.90%	11.14%
10	Edison Int'l	\$32.40	\$1.22	7.00%	6.65%	6.30%	5.95%	5.60%	5.25%	4.90%	9.40%
11	Empire Dist. Elec.	\$17.48	\$1.28	N/A	N/A	N/A	N/A	N/A	N/A	4.90%	N/A
12	Entergy Corp.	\$80.93	\$3.00	9.88%	9.05%	8.22%	7.39%	6.56%	5.73%	4.90%	10.15%
13	FPL Group	\$47.22	\$1.78	9.67%	8.87%	8.08%	7.28%	6.49%	5.69%	4.90%	10.17%
14	FirstEnergy Corp.	\$51.96	\$2.20	8.34%	7.76%	7.19%	6.62%	6.05%	5.47%	4.90%	10.36%
15	Hawaiian Elec.	\$24.10	\$1.24	3.75%	3.94%	4.13%	4.33%	4.52%	4.71%	4.90%	9.93%
16	IDACORP, Inc.	\$28.26	\$1.20	5.50%	5.40%	5.30%	5.20%	5.10%	5.00%	4.90%	9.52%
17	NiSource Inc.	\$11.61	\$0.92	2.75%	3.11%	3.47%	3.83%	4.18%	4.54%	4.90%	12.24%
18	Northeast Utilities	\$22.71	\$0.85	9.25%	8.53%	7.80%	7.08%	6.35%	5.63%	4.90%	10.02%
19	NSTAR	\$33.86	\$1.40	6.70%	6.40%	6.10%	5.80%	5.50%	5.20%	4.90%	9.74%
20	PG&E Corp.	\$36.76	\$1.56	7.25%	6.86%	6.47%	6.08%	5.68%	5.29%	4.90%	10.04%
21	Pinnacle West Capital	\$30.54	\$2.10	5.00%	4.98%	4.97%	4.95%	4.93%	4.92%	4.90%	12.16%
22	Portland General	\$18.46	\$0.98	5.90%	5.73%	5.57%	5.40%	5.23%	5.07%	4.90%	10.81%
23	Progress Energy	\$38.62	\$2.46	4.94%	4.93%	4.93%	4.92%	4.91%	4.91%	4.90%	11.60%
24	Southern Co.	\$35.49	\$1.68	5.50%	5.40%	5.30%	5.20%	5.10%	5.00%	4.90%	10.05%
25	TECO Energy	\$12.23	\$0.80	8.18%	7.63%	7.08%	6.54%	5.99%	5.45%	4.90%	13.14%
26	UIL Holdings	\$29.86	\$1.73	7.00%	6.65%	6.30%	5.95%	5.60%	5.25%	4.90%	11.76%
27	Vectren Corp.	\$25.13	\$1.34	6.20%	5.98%	5.77%	5.55%	5.33%	5.12%	4.90%	10.94%
28	Westar Energy	\$19.20	\$1.16	5.00%	4.98%	4.97%	4.95%	4.93%	4.92%	4.90%	11.28%
29	Wisconsin Energy	\$41.52	\$1.08	9.50%	8.73%	7.97%	7.20%	6.43%	5.67%	4.90%	8.54%
30	Xcel Energy Inc.	\$17.90	\$0.95	6.90%	6.57%	6.23%	5.90%	5.57%	5.23%	4.90%	11.18%
31	Average	\$30.58	\$1.51	6.60%	6.32%	6.03%	5.75%	5.47%	5.18%	4.90%	10.75%

Sources:

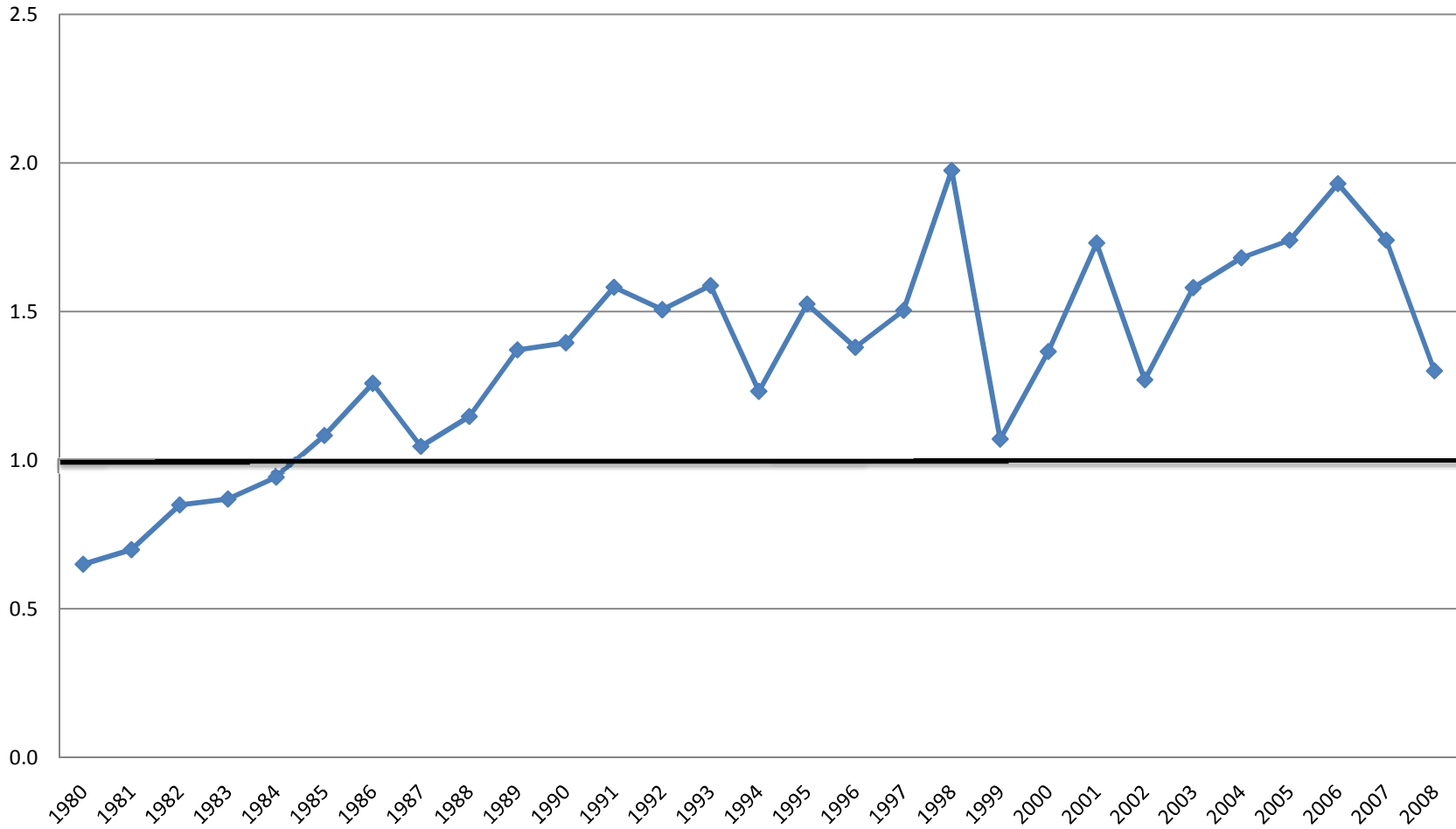
¹ <http://moneycentral.msn.com>, downloaded on January 20, 2009.

² *The Value Line Investment Survey* for November 7, November 28, and December 26, 2008.

³ *Blue Chip Economic Indicators*, October 10, 2008.

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Electric Common Stock Market/Book Ratio



Sources:

2001 - September 2008: *AUS Utility Reports*.

1980 - 2000: *Mergent Public Utility Manual*; at a15, and a17.

Aquila Missouri

Equity Risk Premium - Treasury Bond

<u>Line</u>	<u>Date</u>	<u>Authorized Electric Returns¹</u> (1)	<u>Treasury Bond Yield²</u> (2)	<u>Indicated Risk Premium</u> (3)
1	1986	13.93%	7.78%	6.15%
2	1987	12.99%	8.59%	4.40%
3	1988	12.79%	8.96%	3.83%
4	1989	12.97%	8.45%	4.52%
5	1990	12.70%	8.61%	4.09%
6	1991	12.55%	8.14%	4.41%
7	1992	12.09%	7.67%	4.42%
8	1993	11.41%	6.59%	4.82%
9	1994	11.34%	7.37%	3.97%
10	1995	11.55%	6.88%	4.67%
11	1996	11.39%	6.71%	4.68%
12	1997	11.40%	6.61%	4.79%
13	1998	11.66%	5.58%	6.08%
14	1999	10.77%	5.87%	4.90%
15	2000	11.43%	5.94%	5.49%
16	2001	11.09%	5.49%	5.60%
17	2002	11.16%	5.43%	5.73%
18	2003	10.97%	4.96%	6.01%
19	2004	10.75%	5.05%	5.70%
20	2005	10.54%	4.65%	5.89%
21	2006	10.36%	4.91%	5.45%
22	2007	10.36%	4.84%	5.52%
23	2008 ³	10.51%	4.48%	6.03%
24	Average	11.60%	6.50%	5.09%

Sources:

¹ Regulatory Research Associates, Inc., *Regulatory Focus*, Jan. 85 - Dec. 06, and *Regulatory Focus*, Oct 3, 2008.

² Economic Report of the President 2007: Table 73. The yields from 2002 to 2005 represent the 20-Year Treasury yields obtained from the Federal Reserve Bank.

³ The 2008 Treasury Bond Yield includes the period January to September 2008.

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Equity Risk Premium - Utility Bond

<u>Line</u>	<u>Date</u>	<u>Authorized Electric Returns¹</u> (1)	<u>Average "A" Rating Utility Bond Yield²</u> (2)	<u>Indicated Risk Premium</u> (3)
1	1986	13.93%	9.58%	4.35%
2	1987	12.99%	10.10%	2.89%
3	1988	12.79%	10.49%	2.30%
4	1989	12.97%	9.77%	3.20%
5	1990	12.70%	9.86%	2.84%
6	1991	12.55%	9.36%	3.19%
7	1992	12.09%	8.69%	3.40%
8	1993	11.41%	7.59%	3.82%
9	1994	11.34%	8.31%	3.03%
10	1995	11.55%	7.89%	3.66%
11	1996	11.39%	7.75%	3.64%
12	1997	11.40%	7.60%	3.80%
13	1998	11.66%	7.04%	4.62%
14	1999	10.77%	7.62%	3.15%
15	2000	11.43%	8.24%	3.19%
16	2001	11.09%	7.76%	3.33%
17	2002	11.16%	7.37%	3.79%
18	2003	10.97%	6.58%	4.39%
19	2004	10.75%	6.16%	4.59%
20	2005	10.54%	5.65%	4.89%
21	2006	10.36%	6.07%	4.29%
22	2007	10.36%	6.07%	4.29%
23	2008 ³	10.51%	6.29%	4.22%
24	Average	11.60%	7.91%	3.69%

Sources:

¹ Regulatory Research Associates, Inc., *Regulatory Focus*, Jan. 85 - Dec. 06, and *Regulatory Focus*, Oct 3, 2008.

² Economic Report of the President 2007: Table 73. The yields from 2002 to 2005 represent the 20-Year Treasury yields obtained from the Federal Reserve Bank.

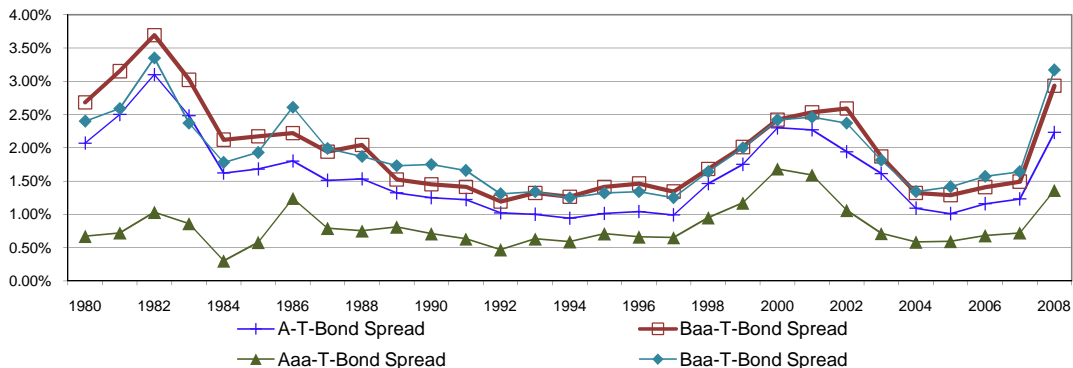
³ The 2008 Treasury Bond Yield includes the period January to September 2008.

Aquila Missouri

Bond Yield Spreads

Line	Year	Public Utility Bond Yields					Corporate Bond Yields				
		T-Bond Yield ¹ (1)	A ² (2)	Baa ² (3)	A-T-Bond Spread (4)	Baa-T-Bond Spread (5)	Aaa ¹ (6)	Baa ¹ (7)	Aaa-T-Bond Spread (8)	Baa-T-Bond Spread (9)	Baa Utility - Corporate (10)
1	1980	11.27%	13.34%	13.95%	2.07%	2.68%	11.94%	13.67%	0.67%	2.40%	0.28%
2	1981	13.45%	15.95%	16.60%	2.50%	3.15%	14.17%	16.04%	0.72%	2.59%	0.56%
3	1982	12.76%	15.86%	16.45%	3.10%	3.69%	13.79%	16.11%	1.03%	3.35%	0.34%
4	1983	11.18%	13.66%	14.20%	2.48%	3.02%	12.04%	13.55%	0.86%	2.37%	0.65%
5	1984	12.41%	14.03%	14.53%	1.62%	2.12%	12.71%	14.19%	0.30%	1.78%	0.34%
6	1985	10.79%	12.47%	12.96%	1.68%	2.17%	11.37%	12.72%	0.58%	1.93%	0.24%
7	1986	7.78%	9.58%	10.00%	1.80%	2.22%	9.02%	10.39%	1.24%	2.61%	-0.39%
8	1987	8.59%	10.10%	10.53%	1.51%	1.94%	9.38%	10.58%	0.79%	1.99%	-0.05%
9	1988	8.96%	10.49%	11.00%	1.53%	2.04%	9.71%	10.83%	0.75%	1.87%	0.17%
10	1989	8.45%	9.77%	9.97%	1.32%	1.52%	9.26%	10.18%	0.81%	1.73%	-0.21%
11	1990	8.61%	9.86%	10.06%	1.25%	1.45%	9.32%	10.36%	0.71%	1.75%	-0.30%
12	1991	8.14%	9.36%	9.55%	1.22%	1.41%	8.77%	9.80%	0.63%	1.66%	-0.25%
13	1992	7.67%	8.69%	8.86%	1.02%	1.19%	8.14%	8.98%	0.47%	1.31%	-0.12%
14	1993	6.59%	7.59%	7.91%	1.00%	1.32%	7.22%	7.93%	0.63%	1.34%	-0.02%
15	1994	7.37%	8.31%	8.63%	0.94%	1.26%	7.96%	8.62%	0.59%	1.25%	0.01%
16	1995	6.88%	7.89%	8.29%	1.01%	1.41%	7.59%	8.20%	0.71%	1.32%	0.09%
17	1996	6.71%	7.75%	8.17%	1.04%	1.46%	7.37%	8.05%	0.66%	1.34%	0.12%
18	1997	6.60%	7.60%	7.95%	0.99%	1.34%	7.26%	7.86%	0.65%	1.25%	0.09%
19	1998	5.58%	7.04%	7.26%	1.46%	1.68%	6.53%	7.22%	0.95%	1.64%	0.04%
20	1999	5.87%	7.62%	7.88%	1.75%	2.01%	7.04%	7.87%	1.17%	2.00%	0.01%
21	2000	5.94%	8.24%	8.36%	2.30%	2.42%	7.62%	8.36%	1.68%	2.42%	0.00%
22	2001	5.49%	7.76%	8.02%	2.27%	2.53%	7.08%	7.95%	1.59%	2.46%	0.07%
23	2002	5.43%	7.37%	8.02%	1.94%	2.59%	6.49%	7.80%	1.06%	2.37%	0.22%
24	2003	4.96%	6.57%	6.83%	1.61%	1.87%	5.67%	6.77%	0.71%	1.81%	0.06%
25	2004	5.05%	6.14%	6.37%	1.09%	1.32%	5.63%	6.39%	0.58%	1.34%	-0.02%
26	2005	4.65%	5.66%	5.93%	1.01%	1.29%	5.24%	6.06%	0.59%	1.41%	-0.13%
27	2006	4.91%	6.07%	6.32%	1.16%	1.41%	5.59%	6.48%	0.68%	1.57%	-0.16%
28	2007	4.84%	6.07%	6.33%	1.23%	1.49%	5.56%	6.48%	0.72%	1.64%	-0.15%
29	2008	4.28%	6.51%	7.21%	2.23%	2.93%	5.64%	7.45%	1.36%	3.17%	-0.24%
30	Average	7.63%	9.22%	9.59%	1.59%	1.96%	8.45%	9.55%	0.82%	1.92%	0.04%

Yield Spreads
Treasury Vs. Corporate & Treasury Vs. Utility



Sources:

¹ Economic Report of the President 2007: Table 73 at 316. The yields from 2002 to 2005 represent the 20-Year Treasury yields obtained from the Federal Reserve Bank.

² *Mergent Public Utility Manual* 2003. Moody's Daily News Reports.

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Utility Bond Yields

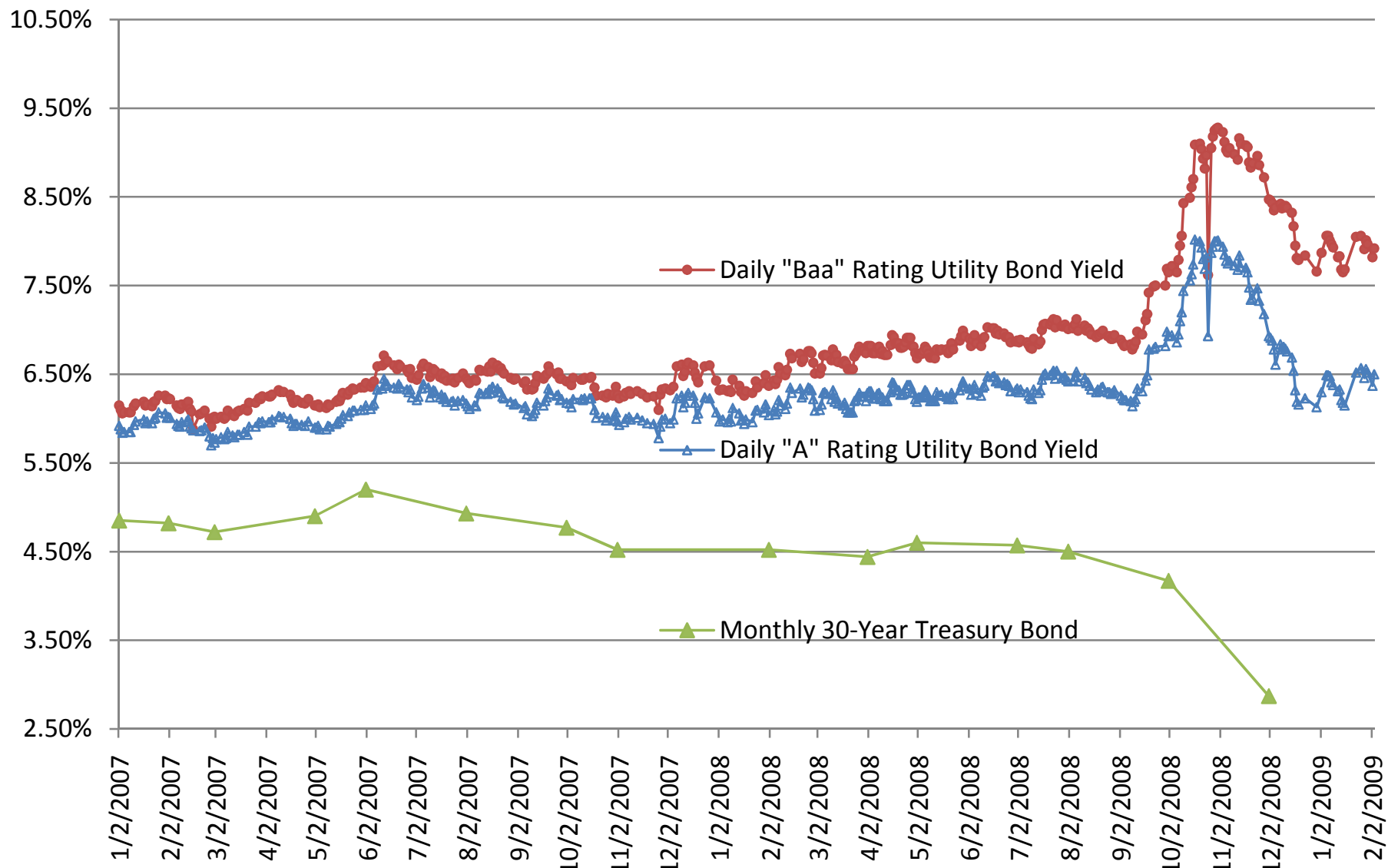
<u>Line</u>	<u>Date</u>	"A" Rating Utility <u>Bond Yield</u> (1)	"Baa" Rating Utility <u>Bond Yield</u> (2)
1	01/16/09	6.15%	7.68%
2	01/09/09	6.38%	7.93%
3	01/02/09	6.30%	7.87%
4	12/30/08	6.13%	7.66%
5	12/19/08	6.16%	7.79%
6	12/12/08	6.76%	8.38%
7	12/05/08	6.61%	8.38%
8	11/28/08	7.18%	8.72%
9	11/21/08	7.36%	8.88%
10	11/14/08	7.71%	9.10%
11	11/07/08	7.78%	9.05%
12	10/31/08	8.01%	9.28%
13	10/24/08	7.82%	8.97%
14	Average	6.95%	8.44%

Source:

www.moody's.com, Bond Yields and Key Indicators.

Aquila Missouri

Trends in Utility Bond Yields



Sources:
<http://www.moodys.com>, Bond Yields and Key Indicators.
<http://research.stlouisfed.org>, 30-Year Treasury Bond Yields

Aquila Missouri

Beta

<u>Line</u>	<u>Company</u>	<u>Beta</u> (1)
1	ALLETE	0.75
2	Alliant Energy	0.70
3	Ameren Corp.	0.80
4	Amer. Elec. Power	0.75
5	Avista Corp.	0.85
6	Cen. Vermont Pub. Serv.	0.90
7	Cleco Corp.	0.80
8	Consol. Edison	0.65
9	DTE Energy	0.70
10	Edison Int'l	0.85
11	Empire Dist. Elec.	0.75
12	Entergy Corp.	0.75
13	FPL Group	0.80
14	FirstEnergy Corp.	0.85
15	Hawaiian Elec.	0.75
16	IDACORP, Inc.	0.85
17	NiSource Inc.	0.75
18	Northeast Utilities	0.75
19	NSTAR	0.70
20	PG&E Corp.	0.85
21	Pinnacle West Capital	0.75
22	Portland General	0.70
23	Progress Energy	0.60
24	Southern Co.	0.55
25	TECO Energy	0.75
26	UIL Holdings	0.70
27	Vectren Corp.	0.85
28	Westar Energy	0.80
29	Wisconsin Energy	0.65
30	Xcel Energy Inc.	0.75
31	Average	0.76

Source:

The Value Line Investment Survey for
November 7, November 28, and December 26, 2008.

Aquila Missouri

CAPM

<u>Line</u>	<u>Description</u>	<u>Historical Premium (1)</u>
1	Risk-Free Rate ¹	4.00%
2	Risk Premium ²	6.50%
3	Beta ³	0.76
4	CAPM	8.94%

<u>Line</u>	<u>Description</u>	<u>Prospective Premium (1)</u>
5	Risk-Free Rate ¹	4.00%
6	Risk Premium ^{1/2}	7.18%
7	Beta ³	0.76
8	CAPM	9.46%
9	CAPM Average	9.20%

Sources:

¹ *Blue Chip Financial Forecasts*; January 1, 2009 at 2.

² *SBI*; 2008 at 31 and 120.

³ *The Value Line Investment Survey* for November 7, November 28, and December 26, 2008.

Aquila Missouri

Credit Rating Financial Ratios - MPS (ROE at 10.30%)

Line	Description	Amount (1)	Old S&P Benchmark ¹		New S&P Benchmark ² (4)	Reference (5)
			"A" Rating (2)	"BBB" Rating (3)		
1	Rate Base	\$ 1,202,225,058				Schedule RAK-1 (MPS)
2	Weighted Common Return	4.99%				Schedule MPG-1, Page 1, Line 2, Col. 4.
3	Income to Common	\$ 59,941,260				Line 1 x Line 2.
4	Depreciation & Amortization	\$ 60,566,615				Schedule RAK-3 (MPS)
5	Deferred Income Taxes	\$ 6,935,213				Schedule RAK-3 (MPS)
6	Funds from Operations (FFO)	\$ 127,443,088				Sum of Line 3 through Line 5.
7	Weighted Interest Rate	3.52%				Schedule MPG-1, Page 1, Line 1, Col. 4.
8	Interest Expense	\$ 42,364,515				Line 1 x Line 7.
9	FFO Plus Interest	\$ 169,807,603				Line 6 + Line 8.
10	FFO Interest Coverage	4.0x	5.2x - 4.2x	4.2x - 3.0x	2.0x - 3.5x	Line 9 / Line 8.
11	Total Debt Ratio	52%	40% - 48%	48% - 58%	45% - 60%	Schedule MPG-1, Page 1, Line 1, Col. 2.
12	FFO to Total Debt	21%	35% - 28%	28% - 18%	10% - 30%	Line 6 / (Line 1 x Line 11).

Sources:

¹ Standard & Poor's, "New Business Profile Scores Assigned to U.S. Utility and Power Companies; Financial Guidelines Revised," June 2, 2004; and "U.S. Integrated Electric Utility Companies, Strongest to Weakest," November 1, 2007.

² Standard & Poor's, "U.S. Utilities Ratings Analysis Now Portrayed in The S&P Corporate Ratings Matrix," November 30, 2007; and "U.S. Integrated Electric Utility Companies, Strongest to Weakest," August 5, 2008.

Note:

KCPL has a Business Profile Score of 6, an "Excellent" business profile and an "Aggressive" financial profile.

Aquila Missouri

Credit Rating Financial Ratios - SJLP (ROE at 10.30%)

Line	Description	Amount (1)	Old S&P Benchmark ¹		New S&P Benchmark ² (4)	Reference (5)
			"A" Rating (2)	"BBB" Rating (3)		
1	Rate Base	\$ 305,034,038				Schedule RAK-1 (L&P)
2	Weighted Common Return	4.99%				Schedule MPG-1, Page 2, Line 2, Col. 4.
3	Income to Common	\$ 15,208,570				Line 1 x Line 2.
4	Depreciation & Amortization	\$ 15,782,404				Schedule RAK-3 (L&P)
5	Deferred Income Taxes	\$ 332,729				Schedule RAK-3 (L&P)
6	Funds from Operations (FFO)	\$ 31,323,703				Sum of Line 3 through Line 5.
7	Weighted Interest Rate	3.93%				Schedule MPG-1, Page 2, Line 1, Col. 4.
8	Interest Expense	\$ 11,992,205				Line 1 x Line 7.
9	FFO Plus Interest	\$ 43,315,908				Line 6 + Line 8.
10	FFO Interest Coverage	3.6x	5.2x - 4.2x	4.2x - 3.0x	2.0x - 3.5x	Line 9 / Line 8.
11	Total Debt Ratio	52%	40% - 48%	48% - 58%	45% - 60%	Schedule MPG-1, Page 2, Line 1, Col. 2.
12	FFO to Total Debt	20%	35% - 28%	28% - 18%	10% - 30%	Line 6 / (Line 1 x Line 11).

Sources:

¹ Standard & Poor's, "New Business Profile Scores Assigned to U.S. Utility and Power Companies; Financial Guidelines Revised," June 2, 2004; and "U.S. Integrated Electric Utility Companies, Strongest to Weakest," November 1, 2007.

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Note:

KCPL has a Business Profile Score of 6, an "Excellent" business profile and an "Aggressive" financial profile.