

EXHIBIT

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Issue(s):

Witness:

Type of Exhibit:

Sponsoring Party:

Case No.:

Date Testimony Prepared:

Rate of Return

Charles W. King

Direct

Public Counsel

ER-2007-0002

December 15, 2006

FILED³

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Missouri Public
Service Commission

DIRECT TESTIMONY

OF

CHARLES W. KING

Submitted on Behalf of
the Office of the Public Counsel

UNION ELECTRIC COMPANY, D/B/A AMERENUE

Case No. ER-2007-0002

December 15, 2006

CRC Exhibit No. 403
Date 3-21-07 Case No. 22-2007-
Reporter KF 0002

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

In the Matter of Union Electric Company d/b/a)	
AmerenUE for Authority to File Tariffs Increasing)	Case No. ER-2007-0002
Rates for Electric Service Provided to Customers)	Tariff No. YE-2007-0007
in the Company's Missouri Service Area.)	


AFFIDAVIT OF CHARLES W. KING

CITY OF WASHINGTON)
)
DISTRICT OF COLUMBIA)

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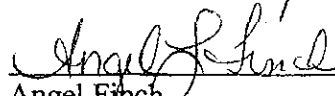
Charles W. King, of lawful age and being first duly sworn, deposes and states:

1. My name is Charles W. King. I am a Public Utility Consultant for the Office of the Public Counsel.
2. Attached hereto and made a part hereof for all purposes is my direct testimony.
3. I hereby swear and affirm that my statements contained in the attached testimony are true and correct to the best of my knowledge and belief.



Charles W. King
Public Utility Consultant

Subscribed and sworn to me this 15th day of December 2006.



Angel Finch
Notary Public

My commission expires March 14, 2011.

Witness:
Type of Exhibit:
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Charles W. King
Direct
Public Counsel
ER-2007-0002
December 15, 2006

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**DIRECT TESTIMONY OF
CHARLES W. KING**

QUALIFICATIONS

Q. PLEASE STATE YOUR NAME, POSITION AND BUSINESS ADDRESS.

A. My name is Charles W. King. I am President of the economic consulting firm of Snavely King Majoros O'Connor & Lee, Inc. ("Snavely King"). My business address is 1111 14th Street, N.W., Suite 300, Washington, D.C. 20005.

Q. PLEASE DESCRIBE SNAVELY KING.

A. Snavely King, formerly Snavely, King & Associates, Inc., was founded by the late Carl M. Snavely and myself in 1970 to conduct research on a consulting basis into the rates, revenues, costs and economic performance of regulated firms and industries. The firm has a professional staff of 12 economists, accountants, engineers and cost analysts. Most of its work involves the development, preparation and presentation of expert witness testimony before federal and state regulatory agencies. Over the course of its 36-year history, members of the firm have participated in over 1000 proceedings before almost all of the state commissions and all Federal commissions that regulate utilities or transportation industries.

Q. HAVE YOU PREPARED A SUMMARY OF YOUR QUALIFICATIONS AND EXPERIENCE?

A. Yes. Attachment A is a summary of my qualifications and experience.

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1 **Q. HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY IN REGULATORY**
2 **PROCEEDINGS?**

3
4 A. Yes. Attachment B is a tabulation of my appearances as an expert witness before state
5 and federal regulatory agencies.

6
7 **Q. FOR WHOM ARE YOU APPEARING IN THIS PROCEEDING?**

8
9 A. I am appearing on behalf of the Office of the Public Counsel for the State of Missouri.

10
11 **Q. WHAT IS THE OBJECTIVE OF YOUR TESTIMONY?**

12
13 A. The objective of my testimony is to recommend the appropriate rates of return to capital
14 devoted to the retail electric utility services of the Union Electric Company d/b/a
15 AmerenUE ("AmerenUE" or "the Company").

16
17 **SUMMARY**

18
19 **Q. WHAT HAVE YOU FOUND TO BE THE APPROPRIATE RATE OF RETURN**
20 **TO AMERENUE'S ELECTRIC UTILITY RATE BASE?**

21
22 A. Based on the analyses presented in this testimony, I find that the appropriate after-tax
23 return to the AmerenUE's electric utility rate base is **7.55 percent**. This recommendation
24 reflects the application of a **9.65 percent** return to AmerenUE's equity capital within the
25 Company's June 30, 2006 capital structure, inclusive of an attribution of parent company
26 debt.

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1 **Q. DO YOU HAVE A SCHEDULE THAT DISPLAYS THE DEVELOPMENT OF**
2 **THIS RECOMMENDED RATE OF RETURN?**

3
4 A. Yes. Schedule CWK-1 of my exhibit presents the calculation of my recommended rate
5 of return. Columns B and C show AmerenUE's capital structure as of June 30, 2006 as
6 presented in Schedule LRN-G5-1 attached to AmerenUE witness Lee R. Nickloy's
7 Supplemental Direct Testimony. Columns D and E present the parent company's
8 unconsolidated capital structure as shown in the Company's response to Bible
9 (Commission Staff) Data Request No. 001, and column E shows AmerenUE's capital
10 structure adjusted for the "double leverage" effect of parent debt, which I will discuss in
11 this testimony.

12
13 Columns F of Schedule CWK-1 shows the cost rates for each component of the capital
14 structure as of June 30, 2006, and Column G shows the weighted return. The bottom
15 line at column F shows the overall return to capital for AmerenUE's electric service.

16
17 **CAPITAL STRUCTURE**

18
19 **Q. WHAT IS MEANT BY "CAPITAL STRUCTURE?"**

20
21 A. Capital structure refers to the mix of the various forms of investor-supplied capital: long-
22 term debt, short-term debt, preferred stock and common equity.

23
24 **Q. WHAT IS THE RELEVANCE OF CAPITAL STRUCTURE TO THE OVERALL**
25 **RATE OF RETURN?**

26
27 A Capital structure is highly relevant to the overall rate of return because the cost of the
28 respective forms of capital varies considerably. In general, debt capital is much less
29 costly than equity capital, not only because it requires a lower return, but because it is

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1 tax-deductible. Equity capital is more costly because it bears more risk. Since the return
2 to equity – dividends and retained earnings – are not tax deductible, equity capital also
3 affects ratemaking by requiring a gross-up for income taxes.

4
5 Standing alone, these considerations would suggest that debt capital is always preferable
6 to equity, but debt has limits. As the proportion of debt increases, the financial risk that
7 the Company might not be able to honor its debt instruments increases. At some point,
8 that risk overwhelms the benefit of lower debt costs, and the capital structure becomes
9 too “leveraged,” that is, it has too much debt for the earnings to sustain. In theory, there
10 is an ideal mix of debt and equity that minimizes the composite cost of capital. Finding
11 that ideal is a major challenge to most companies, and particularly to companies in
12 capital-intensive industries such as electric utilities.

13
14 **Q. WHAT IS AMERENUE’S CAPITAL STRUCTURE?**

15
16 A. AmerenUE’s capital structure is shown in columns B and C of Schedule CWK-1. I have
17 taken the values in these columns directly from Schedule LRN-G5-1 attached to the
18 Supplemental Direct Testimony of Company witness Lee R. Nickloy.

19
20 **Q. IS THIS THE APPROPRIATE CAPITAL STRUCTURE TO USE IN**
21 **CALCULATING THE COST OF AMERENUE’S CAPITAL DEVOTED TO**
22 **UTILITY SERVICE?**

23
24 A. No. This capital structure reflects the implicit assumption that the equity component is
25 the proportion of capital that is held by the shareholders of AmerenUE’s parent, the
26 Ameren Corporation. That is not the case. A small proportion – 5.2 percent -- of
27 AmerenUE’s “equity” takes the form of long-term debt at the parent company level. And
28 an even smaller portion – 0.5 percent – takes the form of parent company short-term debt.
29 The effect is to overstate the equity portion of AmerenUE’s capital as it ultimately

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1 reaches Ameren Corporation's shareholders. To correct for this "double leverage" effect,
2 I adjust AmerenUE's capital structure in columns D and E of Schedule CWK-1.

3
4 **Q. CAN YOU CITE ANY REGULATORY PRECEDENT FOR THIS "DOUBLE**
5 **LEVERAGE" ADJUSTMENT?**

6
7 A. Yes. There is extensive precedent for double leverage adjustments in telephone company
8 regulation. Most telephone operating companies have debt in their own name. Their
9 parent companies, such as AT&T (prior to 1984), General Telephone, Continental
10 Telephone, United Telephone, also issued debt in their name. The parent company debt
11 provided funds that were then invested as "equity" capital into the operating companies.
12 The FCC¹ and most state commissions² recognized that these "equity" infusions were not
13 equity at all, but debt capital taken out by the parent company. Accordingly, they made
14 double leverage adjustments very similar to the adjustment I am proposing for
15 AmerenUE.

16
17 **Q. HOW CAN YOU DETERMINE WHETHER THE CAPITAL STRUCTURE YOU**
18 **HAVE IDENTIFIED IN YOUR SCHEDULE CWK-1 IS REASONABLE?**

19
20 A. The appropriate capital structure is a mix of debt and equity that would be employed by
21 prudent management in a company devoted exclusively to regulated electric service.

22
23 **Q. HAVE YOU PERFORMED ANY ANALYSES TO CONFIRM THAT**
24 **AMERENUE'S CAPITAL STRUCTURE IS CONSISTENT WITH THAT OF**
25 **WELL-MANAGED ELECTRIC UTILITIES?**

¹ 86 F.C.C.2d 221 (1981), aff'd *United States v. FCC*, 707 F.2d 610 (D.C. Cir 1983).

² See, for example, Alabama Sup.Ct., *Continental Teleph. Co. of the South-Alabama v. Alabama PSC*, 427 So.2d 981 (1982); rehearing denied Feb. 11, 1983; New Mexico Sup.Ct., *General Telephone Co. of the Southwest v. New Mexico State Corp. Commission* (1982) 98 NM 749, 652 P2d 1200; Texas Ct.App. *General Telephone Co. of the Southwest v. Texas Public Utility Commission* (1982) 928 SW2d 832, rehearing denied March 3, 1982; Arkansas

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1
2 A. Yes. I have compared AmerenUE's capital structure with the capital structures of
3 comparison groups of electric utility companies.
4

5 **Q. HOW DID YOU SELECT YOUR COMPARISON GROUP OF ELECTRIC**
6 **UTILITIES?**
7

8 A. I began with the list of 34 electric companies and 11 gas companies that AmerenUE's
9 rate of return witnesses James VanderWeide and Kathleen McShane used for comparison
10 purposes to AmerenUE. Dr. VanderWeide's list is found on his Schedule JVW-1-1 in the
11 electric case, and Ms. McShane's list is on her Schedule KCM-G3-1 in the gas case.
12 According to Dr. VanderWeide, his list consists of *Value Line*'s electric utility companies
13 that (1) paid dividends during every quarter of the last two years; (2) did not decrease
14 dividends during any quarter of the past two years; (3) had at least three analysts included
15 in the I/B/E/S mean growth forecast; (4) have an investment grade bond rating and a
16 *Value Line* Safety Rank of 1, 2, or 3; and (5) have not announced a merger. Ms McShane
17 testifies that her list consists of *Value Line* gas distribution companies with no less than
18 80 percent of their assets devoted to gas distribution operations, with Standard & Poor's
19 ratings of BBB- or better, and with both *Value line* and I/B/E/S forecasts. To these lists, I
20 added two more companies, Constellation Energy and FPL Group, that had been
21 excluded from Dr. VanderWeide's list because they were in merger negotiations. Those
22 negotiations have broken off since Dr. VanderWeide prepared his testimony.
23

24 I present this list on Schedule CWK-2 of my exhibit. There are 46 companies in all.
25

26 I then examined the 2005 10K reports of these companies to determine how much of their
27 revenue was derived from regulated electric and gas utility service. The results of this

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1 analysis are set forth on Schedule CWK-2 of my exhibit. I found that four companies on
2 Dr. VanderWeide's electric utility list are more heavily involved in gas distribution than
3 electric service and that one Company, MDU Resources, is most heavily involved in non-
4 utility activities, including construction, mining, and gas and oil production. I eliminated
5 OGE Energy because it is predominantly a gas pipeline company, although it does have
6 some electric utility operations. TXU had to be eliminated because it has written down
7 its equity to the point that it displays unreasonable financial risk. One company, SCANA
8 Corporation, appears equally involved in electric and gas operations, so I included it in
9 both comparison groups.

10
11 I then examined the proportion of revenue of each company that is non-regulated relative
12 to that which is subject to regulation. I found that AmerenUE derives virtually all of its
13 revenue from regulated services, both electric and gas. It is, however, predominantly an
14 electric utility. Many of the companies listed as electric utilities derive very significant
15 proportions of their revenue from non-regulated merchant power production and
16 marketing. I therefore established a threshold of 60 percent regulated utility revenue as a
17 basis for inclusion in the comparison groups to be used in this analysis. The result of this
18 effort is two comparison groups, an electric utility group of 25 companies and a gas
19 distribution group of 16 companies. The electric companies are listed on Schedule
20 CWK-3 in my exhibit.

21
22 **Q. WHY DID YOU ESTABLISH A CRITERION OF 60 PERCENT REGULATED IN**
23 **SELECTING YOUR COMPARISON GROUPS?**

24
25 **A.** It is necessary to confine the comparison groups to heavily regulated companies because
26 only such regulated companies set their prices in the same manner as AmerenUE. The
27 prices of unregulated companies are established by the market, or more specifically by
28 the prices that competitors charge. By contrast, the prices charged by regulated utilities
29 are determined by regulation. Those regulated prices are based on the cost of service,

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1 which includes operating expenses and an allowed return on net invested capital. That
2 net invested capital is measured by book value, that is, the original cost of the assets used
3 to provide utility service. No other category of businesses uses this price-setting
4 mechanism.

5
6 It is this orientation to book investment value that sets regulated utilities apart from all
7 other companies. For competitive companies, book value of assets (plant, working
8 capital) or liabilities (debt and equity) has little relevance. For regulated utilities, book
9 value has great relevance because regulation makes it so. The prices that regulated
10 utilities can charge are constrained by the record of past investments on the companies'
11 books. Only such regulated companies can be compared to AmerenUE, a totally
12 regulated enterprise. That is why I have limited my comparison groups to companies that
13 are subject to rate base/rate-of-return regulation.

14
15 **Q. RETURNING TO THE ISSUE OF CAPITAL STRUCTURE, HAVE YOU**
16 **COMPARED THE CAPITAL STRUCTURE OF AMERENUE WITH THE**
17 **CAPITAL STRUCTURES OF COMPARABLE UTILITY COMPANIES?**

18
19 **A.** Yes. The capital structures of electric comparison group companies are presented on
20 Schedule CWK-3. The schedule reveals that the electric comparison group has an
21 average equity percentage of total capital of 45.3 percent and of permanent capital of 47.4
22 percent. These percentages are lower than AmerenUE's equity percentages of 52.2
23 percent and 52.6 percent, respectively, even after the double-leverage adjustment.

24
25 **Q. WHAT DO YOU CONCLUDE FROM THIS COMPARISON OF CAPITAL**
26 **STRUCTURES?**

27
28 Based on this comparison, I believe that AmerenUE's capital structure, inclusive of the
29 double-leverage adjustment, is reasonably comparable to the average capital structure of

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1 the comparison group. AmerenUE has a slightly greater equity proportion than the
2 comparison group, which suggests a slightly lower level of financial risk.

3
4 **Q. WHAT DEFINITION OF EQUITY HAVE YOU USED IN YOUR SCHEDULES,**
5 **BOOK VALUE OR MARKET VALUE?**

6
7 A. I have used book value consistently.

8
9 **Q. MIGHT YOU HAVE USED THE MARKET VALUE OF AMEREN'S STOCK IN**
10 **DETERMINING THE CAPITAL STRUCTURE?**

11
12 A. No. The reason is circularity. Market values depend on earnings, and the earnings of a
13 regulated enterprise depend on the rate of return set by the regulators. If that rate of
14 return is in turn affected by the level of market value, the whole process becomes
15 circular.

16
17 This issue was addressed by the Supreme Court when it reviewed the use of book value
18 versus "fair value," which may be measured as market value, in its landmark *Hope*
19 *Natural Gas* case.

20 ... "fair value" is the end product of the process of rate-making not
21 the starting point as the Circuit Court of Appeals held. The heart
22 of the matter is that rates cannot be made to depend upon "fair
23 value" when the value of the going enterprise depends on earnings
24 under whatever rates may be anticipated.³
25

26 Were the Commission to use market value in determining the AmerenUE's capital
27 structure, the result would be circular regulation:

- 28
29 ■ Because of a high authorized rate of return, the utility's stock value is bid well above
30 book value.

³ *Federal Power Commission et. al vs. Hope Natural Gas Company*, 320 U.S. 592, at 601 (1944)

- This inflated market value is then used by the Commission in weighting equity and debt capital.
- The much higher equity weighting increases the composite rate of return.
- The higher return increases earnings.
- The increased earnings further inflate the market value of the stock.

COST OF DEBT AND PREFERRED STOCK

Q. WHAT COSTS HAVE YOU ASSIGNED TO THE DEBT AND PREFERRED STOCK COMPONENTS OF AMERENUE'S CAPITAL STRUCTURE?

A. I have adopted the cost rates shown in Schedule LRN-G5-1, attached to the Supplemental Direct Testimony of Ameren witness Lee R Nickloy in the gas case. These cost rates are as of June 30, 2006. It is my understanding that they may be updated before the hearing in this case.

STANDARDS FOR FINDING EQUITY CAPITAL COST

Q. WHAT IS THE BASIS FOR FINDING A RATE OF RETURN TO AMERENUE'S COMMON EQUITY SHAREHOLDERS?

A. In its *Hope Natural Gas* decision, the United States Supreme Court established the following standards for the return to equity that must be allowed a regulated public utility:

- ..the return to the equity owner should be commensurate with the returns on investments in other enterprises having corresponding risks. That return, moreover, should be sufficient to assure

1 confidence in the financial integrity of the enterprise, so as to
2 maintain its credit and to attract capital.⁴

3
4 It can be seen from this excerpt that there are essentially three standards for determining
5 an appropriate return to equity. The first is the "comparable earnings" standard, i.e., that
6 the earnings must be "commensurate with the returns on investments in other enterprises
7 having corresponding risks." The second is that earnings must be sufficient to assure
8 "confidence in the financial integrity of the enterprise," and the third is that they must
9 allow the utility to attract capital and maintain credit.

10
11 **Q. HOW CAN THE COMPARABLE EARNINGS STANDARD BE APPLIED IN**
12 **ESTIMATING THE RATE OF RETURN TO EQUITY CAPITAL?**

13
14 A. There is a certain circularity to the comparable earnings standard because the competitive
15 nature of the capital markets virtually ensures that the returns to all enterprises having
16 corresponding risks are comparable with each other. Investors establish the price of each
17 traded stock based on that stock's present and prospective earnings in comparison with the
18 present and prospective earnings of all other stocks and other investments available to
19 them. If the earnings of a firm are depressed or highly uncertain, then investors will pay
20 only a low price for that firm's stock. As a result, the return on the market value of that
21 stock will be comparable to the return on the market value of the stock of other companies
22 that are highly profitable but which, as a consequence of their profitability, have been bid
23 up to a very high price. Thus, if "return" is defined as the earnings of an equity investment
24 relative to its current market price, then the comparable earnings test becomes a cipher.
25 All returns are comparable with all other returns.

26
27 In public utility regulation the conventional procedure for resolving this circularity is to
28 identify the required equity return based on the market value of a utility's stock. That

⁴ Id. at 603

1 return is combined with the cost of debt and preferred stock, using either the actual or a
2 hypothetical minimum-cost capital structure. The blended return to total capital is then
3 applied to a rate base reflective of the book value of the utility's investment. The book
4 value is the accountant's quantification of the original cost of the utility's assets adjusted
5 for ratepayer contributions such as deposits and deferred taxes. Under this procedure, the
6 market price of a stock is used only to determine the return that investors expect from that
7 stock. That expectation is then applied to the book value of the utility's investment to
8 identify the level of earnings that regulation will allow the utility's common shareholders
9 to recover. As noted earlier, this procedure is peculiar to regulated public utilities.
10

11 **Q. HOW CAN THE FINANCIAL INTEGRITY AND CAPITAL ATTRACTION**
12 **STANDARDS BE APPLIED IN ESTIMATING THE RATE OF RETURN TO**
13 **EQUITY CAPITAL?**

14
15 A. If a utility can earn a return on its investment comparable to that required by enterprises of
16 comparable risk, then it should have no difficulty in maintaining financial integrity or
17 attracting capital. Investors would have no reason to shun such a utility in favor of other
18 investment opportunities. Thus, if the comparable earnings test is met, then the financial
19 integrity and capital attraction standards are met as well.
20

21 **Q. HOW DO YOU DEFINE "ENTERPRISES OF COMPARABLE RISK" AS**
22 **REQUIRED BY *HOPE NATURAL GAS*?**

23
24 A. I shall use the list of 25 electric companies in Schedule CWK-3. All of these companies
25 derive at least 60 percent of their revenue from regulated utility service.
26
27

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1 **Q. HOW WILL YOU IDENTIFY THE MARKET-DETERMINED RATE OF**
2 **RETURN TO THE EQUITY CAPITAL OF THESE COMPARISON GROUP**
3 **COMPANIES?**

4
5 A. In developing the equity returns for the comparison groups, I shall apply the Discounted
6 Cash Flow ("DCF") procedure. I consider the DCF procedure to be the most credible test
7 of a market return. I shall present two versions of this test. The first, which I shall
8 describe as the "classic" DCF, employs the forecasts of investment analysts in estimating
9 the growth component of the DCF formula. The other procedure employs both analysts'
10 forecasts and a forecast of the annual growth of Gross Domestic Product in the "out" years
11 beyond 2012. Additionally, I shall consider the Capital Asset Pricing Model ("CAPM")
12 as a check on the DCF results. Finally, I shall examine the trend in rates of return allowed
13 by public utility commissions to electric utilities during the past 16 years.

14
15 **DISCOUNTED CASH FLOW PROCEDURE**
16

17
18 **Q. PLEASE DESCRIBE THE DISCOUNTED CASH FLOW PROCEDURE.**
19

20 A. The basic premise of the Discounted Cash Flow ("DCF") procedure is that the market
21 price of each stock is the discounted present value of all expected future flows of cash to
22 the investor. The discount rate that equates those future cash flows with the market value
23 of the stock is the investor's required rate of return.

24
25 The DCF approach is usually represented by the following formula:

26
27
$$k = \frac{d}{p} + g$$

28

29 where k = required rate of return
30 d = dividend in the immediate period
31 p = market price
32 g = expected growth rate in dividends
33

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1 While the DCF method is usually presented in mathematical notation format (as above), it
2 can also be described in narrative fashion. The formula says that the return that any
3 investor expects from the purchase of a stock consists of two components. The first is the
4 immediate cash flow in the form of a dividend. The second is the prospect for future
5 growth in dividends. The sum of the rates of these two flows, present and future, equals
6 the return that investors require. Investors adjust the price they are willing to pay for the
7 stock until the sum of the dividend yield and the annual rate of expected future growth in
8 dividends equals the rate of return they expect from other investments of comparable risk.
9 The DCF test thus determines what the investing community requires from the company
10 in terms of present and future dividends relative to the current market price.

11
12 **Q. DON'T MOST INVESTORS REGARD CAPITAL APPRECIATION AS A**
13 **PORTION OF THEIR EXPECTED RETURN?**

14
15 A. Yes. The expectation of capital appreciation is captured in the "g" or growth portion of
16 the DCF formula. If dividends grow, then it follows that the market price of the stock will
17 grow as well. It is this growth that most equity investors seek, at least in part, in
18 purchasing shares in a traded company.

19
20 **Q. HOW DO YOU IDENTIFY THE FIRST TERM, "d/p," FOR PURPOSES OF THE**
21 **APPLYING DCF PROCEDURE?**

22
23 A. The "d" is the dividend in the next period, that is, the next year. There is a somewhat
24 mechanical procedure for predicting this value which applies a factor of .5 to the "g" or
25 growth factor, on the assumption that dividends will increase in lock step with earnings
26 growth. Alternatively, there are analysts' predictions of next year's dividends that
27 presumably reflect a fairly close scrutiny of the companies' cash flow requirements and
28 their apparent desire (or lack thereof) to increase dividends to their stockholders. Because
29 the latter procedure takes into account company-specific considerations, I believe it is

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1 more appropriate. For this purpose, I have used *Value Line's* forecast of dividends. For
2 the "next period," I have assumed that the investment horizon at this point is the year
3 2007, and so I have used *Value Line's* forecast of 2007 dividends.
4

5 The "p" or price denominator of the dividend yield fraction requires the exercise of some
6 judgment. Given the volatility of the stock market, it is inappropriate to use any one
7 day's price, but it is also necessary to reflect the market's current perception of each
8 stock's value. For purposes of this analysis, I have used the average of prices for the
9 most recent 90 calendar days preceding December 8, 2006 as reported by Yahoo finance.
10

11 Columns A, B, and C of Schedule CWK-4 present the dividend yields of each of the
12 comparison group companies. The schedule shows that the average dividend yield of the
13 electric group is 3.9 percent.
14

15 **Q. IS THERE A CONVENTIONAL PROCEDURE FOR CALCULATING THE "g"**
16 **GROWTH COMPONENT OF THE DCF FORMULATION?**
17

18 A. Yes. There is a conventional procedure for calculating equity return under the DCF
19 formula that is often referred to as the "classic" DCF calculation. The Federal
20 Communications Commission ("FCC") adopted this method in 1986 and concluded that
21 it should be given the greatest weight in determining the rate of return to equity.⁵ I
22 should note also that the Surface Transportation Board⁶ routinely uses this method each
23 year to determine the revenue adequacy of each of the nation's Class I railroads.⁷
24

⁵ *Authorized Rates of Return for the Interstate Services of AT&T Communications and Exchange Telephone Carriers, Memorandum Opinion and Order on Reconsideration*, CC Docket No. 84-800, Phase II, 104 FCC 2d 1404, at 1407 (1986); *Resubscribing the Authorized Rate of Return for Interstate Services of Local Exchange Carriers, Order*, CC Docket No. 89-624, 5 FCC Rcd 7507, 7512 (1990); *Notice Initiating a Prescription Proceeding and Notice of Proposed Rulemaking*, CC Docket No. 98-166, October 5, 1998.

⁶ Successor agency to the Interstate Commerce Commission.

⁷ Comments of the Association of American Railroads and Its Member Railroads, Surface Transportation Board Ex Parte No. 558 (Sub-No.9), *Railroad Cost of Capital – 2005*, pp. 2-3.

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1 According to the DCF theory, the relevant measure of "g" should be the growth in
2 dividends. Dividends, however, are largely a function of management discretion, and in
3 the near term they do not necessarily reflect the underlying driver of earnings. In the long
4 run, however, any rate of dividend growth that differs significantly from earnings growth
5 is unlikely to be sustainable. For this reason, it is generally accepted that the growth rate
6 of earnings per share ("EPS") is the most reliable indicator of the "g" factor.

7
8 The classic DCF calculation employs predictions of EPS growth, usually in the three to
9 five year time horizon. Investment analysts routinely attempt to forecast the future
10 earnings of traded companies. *Value Line* provides such forecasts based on the research of
11 its own and other organizations' analysts. Another commonly cited source is the
12 Institutional Brokers Estimation System, or I/B/E/S, now part of Thomson Financial's
13 research program. I/B/E/S does not conduct independent research but surveys investment
14 analysts for their predictions of future earnings growth. I have used the forecasts from
15 these two sources for my development of the classic DCF return.

16
17 The long-term earnings growth forecasts for AmerenUE and each comparison company
18 are presented in columns D and E of Schedule CWK-4 of my exhibit. Column F shows
19 the average of these forecasts for each company. Schedule CWK-4 shows that the average
20 forecast rate of earnings growth for the electric comparison group is 6.0 percent.

21
22 **Q. WHAT IS THE EQUITY RETURN INDICATION FROM YOUR APPLICATION**
23 **OF THE CLASSIC DCF PROCEDURE?**

24
25 A. The final column of Schedule CWK-4 presents the results of my classic DCF analysis.
26 The schedule reveals that when the average electric company earnings growth rate of 6.0
27 percent is added to those companies' 3.9 percent dividend yield, the result is an average
28 DCF return of 9.9 percent to the electric utility comparison group.

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1 **Q. WHAT IS THE CLASSIC DCF RETURN INDICATION FOR AMERENUE?**

2

3 A. The top line of Schedule CWK-4 shows that the classic DCF return for AmerenUE is 8.3

4 percent. This very low indication is principally due to *Value Line*'s prediction that

5 Ameren's earnings will increase only 1.5 percent on average over the coming five years.

6 The discussion in *Value Line*'s report suggests that this forecast is a function of the

7 expectation that Ameren's earnings will decline by four percent in 2006 owing to two

8 one-time negatives, poor weather and an unplanned outage at the Calloway nuclear plant.

9 For this reason, I do not place much confidence in the AmerenUE result.

10

11 **Q. WHAT IS YOUR ASSESSMENT OF THE QUALITY OF THE CLASSIC DCF**

12 **RETURN INDICATIONS?**

13

14 A. I agree with the FCC (and other commissions) that the "classic" formulation of the DCF

15 model is a reliable basis for estimating returns to equity. That is because it uses market

16 data for the dividend yield portion of the formula, and it relies on the informed judgment

17 of market analysts for its projection of future growth.

18

19 I do not believe, however, that the classic DCF formulation can be considered as

20 providing a hard and fast statement of investors' requirements for earnings from any one

21 company, or even groups of companies such as the comparison groups I am using in this

22 analysis. Other approaches must be applied to offer guidance as to whether the classic

23 DCF results provide appropriate estimates of the rate of return to equity.

24

25 **Q. IS THERE ANOTHER DCF FORMULATION BESIDE THE "CLASSIC" FORM**

26 **THAT YOU HAVE JUST DISCUSSED?**

27

28 A. Yes. An arguable weakness in the classic DCF formulation is that it assumes that the

29 rates of earnings growth predicted by investment analysts will continue indefinitely. That

1 is not the prediction of the analysts. They are quite explicit that their forecasts are only to
2 a time horizon of about five years. Beyond that, the companies' earnings growth rates
3 are unknown and unknowable.
4

5 It is not realistic to expect that a growth in earnings that departs significantly from the
6 overall growth of the economy can last indefinitely. Sooner or later, any company's
7 earnings growth must be constrained by the performance of the economy in which it
8 operates.
9

10 In establishing authorized equity returns for pipeline companies, the Federal Energy
11 Regulatory Commission ("FERC") recognizes this ultimate constraint on earnings
12 growth. Accordingly, it uses a two-step procedure in estimating the "g" factor in the
13 DCF formula. The first step is the same analysts' forecasts used in the classic
14 formulation. The second step is an estimate of long-term nominal rate of growth in Gross
15 Domestic Product ("GDP").⁸ This procedure acknowledges that disparities between the
16 short-term rate of growth and the growth in the overall economy cannot last forever.
17 Ultimately, earnings growth will trend toward the rate of increase in the total market. In
18 developing its "g" factor for the DCF formula, FERC assigns two-thirds weighting to the
19 analysts' forecasts and one-third weighting to the GDP growth forecast.⁹
20

21 **Q. WHAT FORECAST RATE OF GDP GROWTH DO YOU PROPOSE TO USE IN**
22 **IMPLEMENTING THE FERC 2-STEP GROWTH PROCEDURE?**
23

24 A. The Congressional Budget Office ("CBO") produces forecasts of most of the major
25 economic indicators. CBO's current forecast for the years 2010 through 2015 calls for an
26 annual rate of increase of 4.5% in nominal GDP.
27

⁸ See for example, *Wilston Basin Interstate Pipeline*, FERC Docket No. RP00-107-000, 104 FERC 61,036, 61,099.

⁹ *Id.*

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Q. WHAT IS THE DCF RETURN INDICATION USING THE FERC 2- STEP GROWTH FORMULATION FOR THE ELECTRIC COMPARISON GROUP?

A. The calculation of the DCF return using the FERC two-step growth factor is presented in Schedule CWK-5. I calculate a rate of return indication for the electric comparison group of 9.4 percent.

THE CAPITAL ASSET PRICING MODEL

Q. PLEASE DESCRIBE THE CAPITAL ASSET PRICING MODEL?

A. The Capital Asset Pricing Model ("CAPM") employs a measure called "beta," which tests the covariance of the stock at issue with that of the overall market, to assess the relative risk of any stock against the market. As conventionally used by rate-of-return analysts, the beta is assumed to measure the cost of the company's equity on a continuum between the average required return of the overall equity market and a risk-free return.

The CAPM formula is as follows:

$$k = R_f + \beta(R_m - R_f)$$

Where

k = the prospective market cost of common equity for a specific investment

R_f = the "risk-free" rate of return

β = the company-specific beta

R_m = the overall stock market return on stocks for the prospective period

Q. WHAT IS YOUR ASSESSMENT OF THE CAPM?

A. I believe that CAPM has value in assessing the relative risk of different stocks and portfolios of stocks. It can therefore be useful in checking the results of other, more reliable methods of measuring equity return, such as the DCF procedure. However,

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1 because of the extensive requirement for judgment in selecting each of the inputs, I
2 question its value in directly estimating a return to equity.

3
4 **Q. WHAT JUDGMENT IS REQUIRED FOR THE FIRST INPUT, β , OR BETA?**

5
6 A. As noted, beta measures the degree of covariance of the stock with that of the market
7 overall. But neither the fluctuations of the stock nor those of the market are constant, or
8 even consistent with each other over any extended period of time. As a result, there are
9 as many estimates of beta for a given company as there are analysts making the
10 measurement.

11
12 Schedule CWK-6 in my exhibit presents the betas for the electric comparison group as
13 derived by *Value Line* and Thomson Financial, the publishers of I/B/E/S. Both of these
14 sources purport to be reliable and respected. As can be seen from the exhibit, there is
15 little or no consistency among the beta values for the respective companies. Indeed, there
16 is no case where the betas from these two sources match.

17
18 **Q. WHAT JUDGMENT IS REQUIRED IN SELECTING THE INPUT R_f , THE RISK-**
19 **FREE RATE OF RETURN?**

20
21 A. There is general consensus that yields to U.S. government securities are risk-free in the
22 sense that they are free from the risk of default. The difficulty is that there are quite a
23 number of U.S. government securities of differing maturities that have very different
24 yields. Most utility-sponsored rate-of-return witnesses assert that because stocks exist in
25 perpetuity, the yield of long-term government bonds is the appropriate risk-free rate. The
26 rationale is that because stocks are held in perpetuity, the corresponding risk-free rate
27 should be that of very long-term government bonds.

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1 There are two difficulties with this rationale. The first is that stocks are not held in
2 perpetuity. To the contrary, the New York Stock Exchange has a turnover rate of about
3 100 percent annually, suggesting that the average share of stock is held only about a year.
4 The second difficulty is that long-term bonds are not free from risk. To the contrary, they
5 carry a substantial risk that inflation will erode their eventual value at maturity. Stocks
6 do not bear this inflation risk because generally the stock market rises when inflation
7 rises.

8
9 **Q. WHAT JUDGMENT IS REQUIRED IN SELECTING THE INPUT R_m , THE**
10 **RETURN TO THE OVERAL MARKET?**

11
12 A. The complexities and uncertainties associated with measuring the return to equity of an
13 individual company are not reduced when the object of the analysis is expanded to the
14 entire market for equities. Generally, CAPM analysts use one of two procedures. Either
15 they perform simplistic DCFs for a wide variety of stocks, in which case why not use the
16 same DCF for the stock under study? Or they use the historical return to market equities,
17 which assumes, totally unrealistically, that the investors in the equity markets during the
18 period under study actually realized the return that they were expecting. This approach
19 tells us nothing about future expectations from the market.

20
21 **Q. HAVE YOU DEVELOPED A CAPM APPLICATION?**

22
23 A. Yes. In Schedule CWK-7 of my exhibit, I have applied the CAPM approach using
24 generally accepted inputs. To identify the overall market return, I have applied a DCF
25 approach using *Value Line*'s forecasts of the median dividend yield for the coming year
26 and the potential for appreciation for 1700 stocks. The dividend yield is 1.7 percent, and
27 *Value Line* estimates that the potential for market appreciation is 40 percent in the
28 coming 3 to 5 years. Using the mid-point of 4 years, this forecast translates into a growth

1 factor of 8.8 percent per year. The sum of the dividend yield of 1.7 percent and a growth
2 rate of 8.8 percent produces an overall market return of 10.48 percent.

3
4 Although I do not necessarily agree that the 30-year Treasury bond yield is the
5 appropriate risk-free rate for purposes of the CAPM, I have accepted it in line 5. The
6 yield on these bonds for the week ending of December 1, 2006 was 4.58 percent. Based
7 on these inputs, I arrive at an overall market risk premium of 5.9 percent.

8
9 As demonstrated in Schedule CWK-6, there is a wide variety of beta measures among the
10 companies in the comparison group and between my two sources, *Value Line* and
11 Thomson Financial. To minimize the effect of these variations, I have used the average
12 of the two sources to arrive at a beta of .75 for the electric comparison group. When
13 applied to the total market risk premium of 5.9 percent, the risk premium for the electric
14 companies is 4.45 percent. When added to the risk-free rate of 4.58 percent, the indicated
15 return to equity is 9.03 percent.

16
17 **Q. WHAT VALUE DO YOU PLACE ON THESE RESULTS?**

18
19 A. As I have noted, the principal difficulty with the CAPM calculation is the judgment it
20 requires in the selection of critical inputs. The results that I have shown in Schedule 7
21 can be changed dramatically by the use of slightly different inputs for the overall market
22 return, the beta factor and the risk-free return. This observation is borne out by a
23 comparison of my CAPM results with those of AmerenUE's rate-of-return witnesses.

24
25 Additionally, there is the more fundamental conceptual issue relating to the assumption
26 implicit in the CAPM that the beta factor is the sufficient to describe not only the relative
27 but the absolute degree of risk associated with each company's stock. That assumption is
28 flatly contradicted by *Value Line*. In addition to the beta for each company, *Value Line*
29 produces a "Safety Rank." The Safety Rank is computed by averaging two other *Value*

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1 *Line* indices – the Price Stability Index and the Financial Strength Rating. Safety Ranks
2 range from 1 (highest) to 5 (lowest).

3
4 The final column of Schedule CWK-6 shows the Safety Rank for each of the comparison
5 group company. At the bottom of the schedule I present the average for the group. The
6 electric group's average Safety Rank is 2.08. In my accompanying testimony in the gas
7 rate case, I calculate a gas group Safety Rank of 2.07, slightly below the electric. But
8 when I compare the betas of the two groups, I find that the gas group's beta is much
9 higher than the electric group, .87 versus .75 (see Schedule CWK-6 attached to my gas
10 case testimony). This relationship is inconsistent with the results of the Safety Rank
11 comparison.

12
13 For the foregoing reasons, I am inclined to agree with the Interstate Commerce
14 Commission which found that the CAPM is "conceptually and technically flawed."¹⁰
15 The best that can be said of the CAPM is that it suggests that the DCF results are, if
16 anything, generous to the electric utilities.

17
18 **STATE COMMISSION EQUITY RETURN AWARDS**

19
20 **Q. DO YOU HAVE ANY OTHER TESTS OF EQUITY RETURN?**

21
22 A. Yes. Another test of equity return is the record of equity return awards given to electric
23 utilities by state utility commissions. The Edison Electric Institute tracks the equity
24 return awards granted by state commissions each quarter. Schedule CWK-8 is a chart
25 that shows the averages of these awards each quarter since the first quarter of 1990. The
26 chart demonstrates a clear downward trend: above 12 percent in 1990 and 1992, in the 11
27 percent range but trending downward from 1993 through the first quarter of 2004, and
28 below 11 percent in 2004, 2005 and the first two quarters of 2006. The most recent

¹⁰ *Ex Parte No. 436*, 367 I.C.C. at 670

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1 observation is for the third quarter of 2006. In that quarter six commissions granted
2 equity return awards to electric utilities averaging 9.98 percent.

3
4 **Q. WHAT VALUE DO YOU PLACE ON THESE INDICATIONS?**

5
6 A It is overly simplistic to compare rate of return awards among utilities and commissions.
7 Many rate case decisions contain conditions and *caveats* that make the awards more or
8 less generous than the simple percentage values would suggest.

9
10 I am also concerned with the issue of circularity. To base any return allowance on the
11 decisions of other commissions makes the regulatory process self-generating. The
12 finding of an equity return justifies the finding another equity return. If this process is
13 continued, then the equity returns could soon lose contact with any objective and
14 independent data.

15
16 For these reasons, I value the information contained in Schedule CWK-8 only as a
17 demonstration of two facts: first, that rate-of-return awards have been trending downward
18 for the last 16 years, and particularly in the last four years, and second, that a rate-of-
19 return award below 10 percent would not be inconsistent with recent equity return
20 allowances by other state commissions.

21
22 **EQUITY RETURN CONCLUSION**

23
24 **Q. WHAT IS YOUR CONCLUSION AS TO THE RETURN TO EQUITY CAPITAL**
25 **FOR THE ELECTRIC COMPARISON GROUP?**

26
27 A. I have discussed the relative value of the DCF results, the CAPM and the EEI record of
28 commission awards. The only results that I find to be reliable indicators of the absolute
29 level of required equity return are those derived from the DCF methodology. As between

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1 the two formulations of that methodology, I find the FERC 2-step approach conceptually
2 most appropriate. The classic formulation, however, enjoys the widest level of
3 acceptance, so I think it inappropriate to de-weight its result. For this reason, I
4 recommend an average of the classic and 2-step DCF results. The classic result is 9.9
5 percent, the 2-step result is 9.4 percent. The average is 9.65 percent.
6

7 **Q. IS THERE ANY REASON TO SET DIFFERENT RETURN FOR AMERENUE'S**
8 **ELECTRIC SERVICE RELATIVE TO THE COMPARISON GROUP?**
9

10 A. No. To justify a different return to AmerenUE, it would be necessary to find that
11 investment risk associated with AmerenUE's equity differs from that of the comparison
12 groups. I see no basis for such a finding. It is true that AmerenUE has a slightly less
13 risky capital structure than the electric comparison group companies. On the other hand,
14 one could argue that the absence of a fuel adjustment clause increases AmerenUE's
15 electric business risk relative to the comparison companies, almost all of which have such
16 clauses. The problem with this argument is that the Missouri legislature as recently
17 authorized fuel adjustment clauses for Missouri utilities, so that this distinction will
18 probably disappear in the near future.
19

20 According to the investment analyst reports I have read, the greatest risk currently
21 confronting Ameren is the possibility that the State of Illinois may extend the current
22 electric rate freeze applicable to the three Ameren companies there. This threat, however,
23 is discrete to Illinois and does not affect the risk of Ameren's Missouri operations.
24

25 For the foregoing reasons, I do not believe there is any justification for increasing or
26 decreasing the equity return to AmerenUE relative to the comparison groups.
27
28

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1 **Q. WHAT RATE OF RETURN TO EQUITY DO YOU RECOMMEND FOR**
2 **AMERENUE'S ELECTRIC OPERATIONS?**

3
4 A. I recommend a return to equity of **9.65 percent** for AmerenUE's electric utility
5 operations.

6
7 **RETURN TO TOTAL CAPITAL**

8
9 **Q. WHAT AFTER-TAX RETURN TO OVERALL CAPITAL DO YOU**
10 **RECOMMEND FOR AMERENUE'S ELECTRIC RATE BASE?**

11
12 A. As shown on Schedule CWK-1 of my exhibit, the application of an electric service equity
13 return of 9.65 percent into my recommended capital structure yields after-tax return to
14 AmerenUE's electric rate base of **7.55 percent**.

15
16 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

17
18 A. Yes. It does.

AmerenUE
Cost of Capital - Electric Operations

Capital Structure June 30, 2006:

A		B		C		D		E		F		G	
		AmerenUE		Parent Stand-alone Cap. Structure	Composite Capital Struecture		Electric				Cost Rate	Weighted Return	
		Amount Outstanding (\$MM)	Percent of Total										
1	Long-term Debt	\$ 2,552	45.0%	5.2%	47.3%					5.473%	2.59%		
3	Short-term Debt	\$ 45	0.8%	0.5%	0.8%					5.360%	0.04%		
4	Preferred Stock	\$ 115	2.0%		2.0%					5.189%	0.10%		
4	Common Equity	\$ 2,964	52.2%	94.3%	49.8%					9.65%	4.81%		
5	Total	\$ 5,675	100.0%	100.0%	100.0%						7.55%		

Sources:

Capital Structure, Ameren UE: Nickloy Schedule LRN-G5-1
Capital Structure, Ameren Corp.: Response to d.r. Bible 001
Debt Cost: Nickloy Schedule LRN-G5-1
Equity Cost: Testimony

Major Utility Companies
2005 Revenues by Source

			2005 Revenues (\$millions)				2005 Revenues Percent				Classification
			Regulated		Non-Regulated	Total	Regulated		Non-Regulated	Total	
			Electric	Gas			Electric	Gas			
1	Ameren Corp	AEE	\$ 5,431.0	\$ 1,345.0	\$ 4.0	\$ 6,780.0	80.1%	19.8%	0.1%	100.0%	Electric
2	AGL Resources	ATG		2,662.0	56	2,718.0	0.0%	97.9%	2.1%	100.0%	Gas
3	Alant Energy	LNT	2,320.6	685.1	188.0	3,193.7	72.7%	21.5%	5.9%	100.0%	Electric
4	American Electric Power	AEP	11,193.0	463.0	455.0	12,111.0	92.4%	3.8%	3.8%	100.0%	Electric
5	Atmos Energy	ATO		566.8	167.5	734.3	0.0%	77.2%	22.8%	100.0%	Gas
6	Cascade Natural Gas	CGC		326.5		326.5	0.0%	100.0%	0.0%	100.0%	Gas
7	Consolidated Edison	ED	7,588.0	1,858.0	2,244.0	11,690.0	64.9%	15.9%	19.2%	100.0%	Electric
8	Constellation Energy	CEG	2,036.5	961.7	14,133.8	17,132.0	11.9%	5.6%	82.5%	100.0%	Unregulated
9	Dominion Resources	D	5,543.0	1,763.0	10,768.0	18,074.0	30.7%	8.8%	59.6%	100.0%	Unregulated
10	DTE Energy	DTE	4,462.0	2,138.0	1,356.0	7,956.0	56.1%	26.9%	17.0%	100.0%	Electric
11	Edison International	EIX	9,500.0		2,352.0	11,852.0	80.2%	0.0%	19.8%	100.0%	Electric
12	Empire District Electric	EDE	360.4		26.5	386.9	93.2%	0.0%	6.8%	100.0%	Electric
13	Energy East Corp.	EAS	2,969.6	1,783.6	545.4	5,298.6	56.0%	33.7%	10.3%	100.0%	Electric
14	Entergy Corp	ETR	8,446.8	77.7	1,581.8	10,106.3	83.6%	0.8%	15.7%	100.0%	Electric
15	FirstEnergy Corp	FE	4,915.0		838.0	5,753.0	85.4%	0.0%	14.6%	100.0%	Electric
16	FPL Group	FPL	9,528.0		2,318.0	11,846.0	80.4%	0.0%	19.6%	100.0%	Electric
17	Great Plains Energy	GXP	1,130.8		1,474.1	2,604.9	43.4%	0.0%	56.6%	100.0%	Unregulated
18	Hawaiian Electric	HE	1,806.4		409.2	2,215.6	81.5%	0.0%	18.5%	100.0%	Electric
19	IDACORP Inc.	IDA	837.7		21.8	859.5	97.5%	0.0%	2.5%	100.0%	Electric
20	Laclede Group	LG		978.2	618.8	1,597.0	0.0%	61.3%	38.7%	100.0%	Gas
21	MDU Resources	MDU	181.2	772.1	2,502.1	3,455.4	5.2%	22.3%	72.4%	100.0%	Unregulated
22	Nicor, Inc.	GAS		2,909.6	448.2	3,357.8	0.0%	86.7%	13.3%	100.0%	Gas
23	NISource Inc.	NI	1,248.6	5,600.4	1,050.1	7,899.1	15.8%	70.9%	13.3%	100.0%	Gas
24	Northeast Utilities	NU	4,836.5	670.8	1,890.1	7,397.4	65.4%	9.1%	25.6%	100.0%	Electric
25	Northwest Natural Gas	NWN		315.2	9.7	325.0	0.0%	97.0%	3.0%	100.0%	Gas
26	NSTAR	NST	2,543.5	571.2	128.4	3,243.1	78.4%	17.6%	4.0%	100.0%	Electric
27	OGE Energy	OGE	1,720.7	4,227.5		5,948.2	28.9%	71.1%	0.0%	100.0%	Gas Pipeline
28	Otter Tail Corp.	OTTR	313.0		733.4	1,046.4	29.9%	0.0%	70.1%	100.0%	Unregulated
29	People's Energy Corp.	PGL		1,678.0	921.6	2,599.6	0.0%	64.5%	35.5%	100.0%	Gas
30	PEPCO Holdings	POM	4,702.9		3,362.5	8,065.4	58.3%	0.0%	41.7%	100.0%	Unregulated
31	Piedmont Natural Gas	PNY		1,761.1		1,761.1	0.0%	100.0%	0.0%	100.0%	Gas
32	Pinnacle West Capital	PNW	2,237.1		750.9	2,988.0	74.9%	0.0%	25.1%	100.0%	Electric
33	PHM Resources	PNM	1,564.1	510.8	1.9	2,076.8	75.3%	24.6%	0.1%	100.0%	Electric
34	PPL Corp.	PPL	4,329.0		1,890.0	6,219.0	69.6%	0.0%	30.4%	100.0%	Electric
35	Progress Energy	PGN	7,710.0		235.0	7,945.0	97.0%	0.0%	3.0%	100.0%	Electric
36	Puget Energy Inc.	PSD	1,612.9	952.5	7.8	2,573.2	62.7%	37.0%	0.3%	100.0%	Electric
37	SCANA Corp.	SCG	1,908.3	1,826.6	1,609.4	5,344.3	35.7%	34.2%	30.1%	100.0%	Electric, Gas
38	Sempra Energy	SRE	1,658.0	5,071.0	4,366.0	11,095.0	14.9%	45.7%	39.4%	100.0%	Gas
39	Southern Co.	SO	4,461.8		186.0	4,647.8	96.0%	0.0%	4.0%	100.0%	Electric
40	South Jersey Industries	SJI		576.4	344.6	921.0	0.0%	62.6%	37.4%	100.0%	Gas
41	Southwest Gas Corp.	SWX		1,401.3	313.0	1,714.3	0.0%	81.7%	18.3%	100.0%	Gas
42	TXU Corp	TXU	10,437.0		354.0	10,791.0	96.7%	0.0%	3.3%	100.0%	too leveraged
43	Vectren Corp	AVU	421.4	1,359.7	246.9	2,028.0	20.8%	67.0%	12.2%	100.0%	Gas
44	WGL Holdings	WGL		1,379.4	806.9	2,186.3	0.0%	63.1%	36.9%	100.0%	Gas
45	Wisconsin Energy	WEC	3,793.0		40.0	3,833.0	99.0%	0.0%	1.0%	100.0%	Electric
46	Xcel Energy Inc.	XEL	7,246.6	2,307.4	74.5	9,628.5	75.3%	24.0%	0.8%	100.0%	Electric

Source: Companies' SEC Forms 10K, 2005

Electric Utility Comparison Group
Capital Structures, December 31, 2005
(Dollars in Millions)

[illegible]

Electric Utility Comparison Group
"Classic" Discounted Cash Flow Analysis

			A	B	C	D	E	F	G
			2007 Dividend	90 Day Price	Dividend Yield	Earnings Growth Forecast			DCF Indication
			Value Line	Yahoo Finance	A/B	Value Line	I/B/E/S	Average	C+F
	Company Name	Ticker							
1	Ameren Corp	AEE	\$ 2.54	\$ 53.48	4.7%	1.5%	5.6%	3.6%	8.3%
2	Aliant Energy	LNT	1.25	37.83	3.3%	4.5%	5.0%	4.8%	8.1%
3	American Electric Power	AEP	1.60	39.61	4.0%	5.0%	4.0%	4.5%	8.5%
4	Consolidated Edison	ED	2.32	47.22	4.9%	2.0%	3.0%	2.5%	7.4%
5	DTE Energy	DTE	2.06	44.22	4.7%	3.0%	4.5%	3.8%	8.4%
6	Edison International	EIX	1.18	43.81	2.7%	8.0%	6.5%	7.3%	9.9%
7	Empire District Electric	EDE	1.28	23.29	5.5%	9.5%	6.0%	7.8%	13.2%
8	Energy East Corp.	EAS	1.21	24.17	5.0%	4.0%	4.3%	4.2%	9.2%
9	Entergy Corp	ETR	2.16	84.12	2.6%	5.0%	8.3%	6.6%	9.2%
10	FirstEnergy Corp	FE	1.94	58.04	3.3%	12.5%	6.8%	9.6%	13.0%
11	FPL Group	FPL	1.58	48.75	3.2%	8.5%	7.8%	8.2%	11.4%
12	Hawaiian Electric	HE	1.24	27.25	4.6%	3.0%	3.4%	3.2%	7.7%
13	IDACORP Inc.	IDA	1.20	38.96	3.1%	7.5%	4.7%	6.1%	9.2%
14	Northeast Utilities	NU	0.78	25.01	3.1%	8.5%	11.4%	10.0%	13.1%
15	NSTAR	NST	1.33	34.30	3.9%	7.5%	6.3%	6.9%	10.8%
16	Pinnacle West Capital	PNW	2.13	46.97	4.5%	7.0%	5.0%	6.0%	10.5%
17	PNM Resources	PNM	0.92	28.91	3.2%	6.0%	15.4%	10.7%	13.9%
18	PPL Corp.	PPL	1.20	34.02	3.5%	11.0%	10.7%	10.8%	14.4%
19	Progress Energy	PGN	2.46	45.68	5.4%	-1.5%	3.7%	1.1%	6.5%
20	Puget Energy Inc.	PSD	1.00	23.59	4.2%	5.0%	4.8%	4.9%	9.2%
21	SCANA Corp.	SCG	1.72	40.84	4.2%	3.5%	4.4%	4.0%	8.2%
22	Southern Co.	SO	1.60	35.43	4.5%	3.5%	5.0%	4.3%	8.8%
23	Wisconsin Energy	WEC	0.96	44.97	2.1%	6.5%	7.8%	7.2%	9.3%
24	Xcel Energy Inc.	XEL	0.93	21.57	4.3%	6.0%	6.0%	6.0%	10.3%
24	Average				3.9%			6.0%	9.9%

**Electric Utility Comparison Group
FERC 2-Step DCF Formulation**

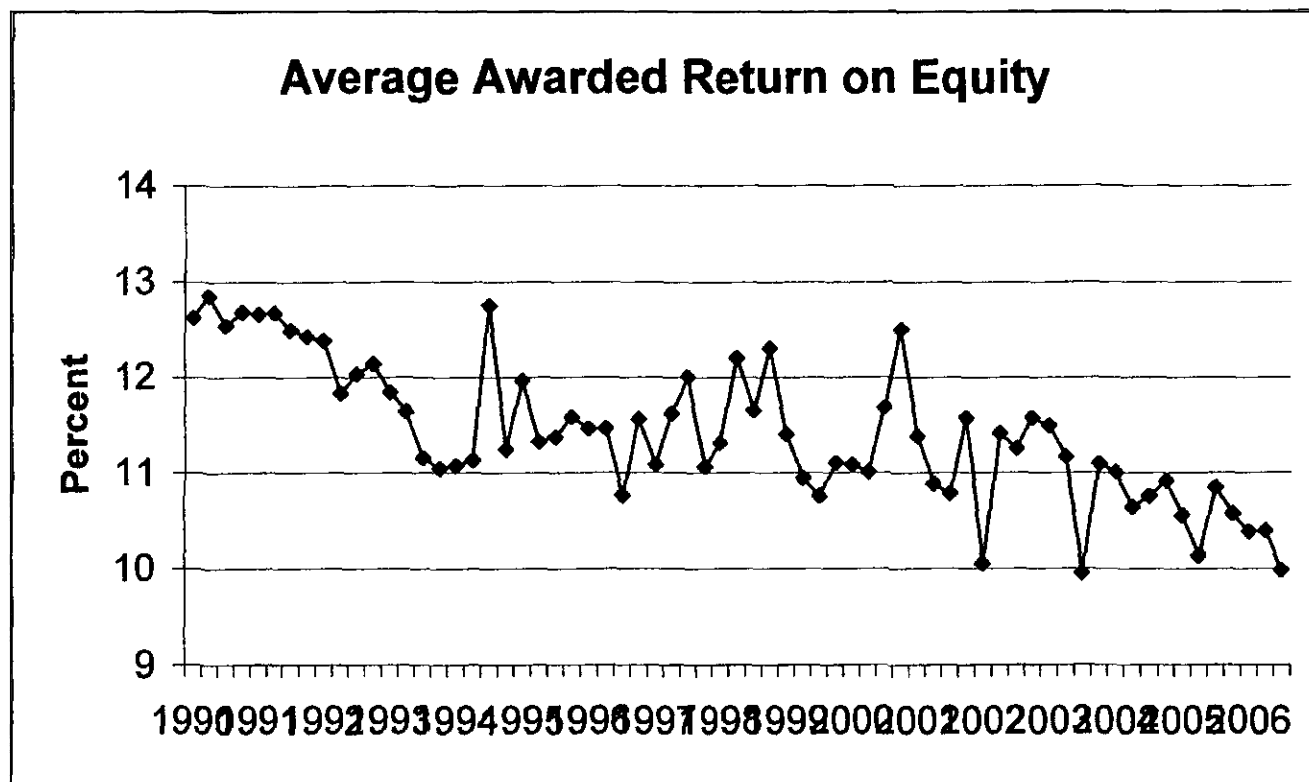
		Source	Rate	Weighting	Composite
	Earnings Growth:				
1	Short-Term	CWK-4, Col F	6.0%	0.6667	4.0%
2	Long-term	CBO	4.5%	0.3333	1.5%
3	Total	1C + 2C			5.5%
4	Dividend Yield	CWK-4, Col C			3.9%
5	DCF Return	3C + 4C			9.4%

Electric Utility Comparison Group
Selected Utility Beta and Safety Values, June 2006

	Company Name	Ticker	beta		Average	Value Line Safety
			Thomson	Value Line		
1	Ameren Corp	AEE	0.51	0.75	0.63	1
2	Aliant Energy	LNT	0.62	0.90	0.76	3
3	American Electric Power	AEP	0.71	1.25	0.98	3
4	Consolidated Edison	ED	0.47	0.75	0.61	1
5	DTE Energy	DTE	0.60	0.75	0.68	3
6	Edison International	EIX	0.64	1.15	0.90	3
7	Empire District Electric	EDE	0.75	0.80	0.78	3
8	Energy East Corp.	EAS	0.77	0.90	0.84	2
9	Entergy Corp	ETR	0.65	0.85	0.75	2
10	FirstEnergy Corp	FE	0.54	0.80	0.67	2
11	FPL Group	FPL	0.49	0.85	0.67	1
12	Hawaiian Electric	HE	0.74	0.70	0.72	2
13	IDACORP Inc.	IDA	0.81	1.00	0.91	3
14	Northeast Utilities	NU	0.64	0.90	0.77	3
15	NSTAR	NST	0.66	0.80	0.73	1
16	Pinnacle West Capital	PNW	0.63	1.00	0.81	1
17	PNM Resources	PNM	0.77	1.00	0.89	2
18	PPL Corp.	PPL	0.66	0.95	0.80	2
19	Progress Energy	PGN	0.66	0.90	0.78	2
20	Puget Energy Inc.	PSD	0.53	0.80	0.66	3
21	SCANA Corp.	SCG	0.69	0.85	0.77	2
22	Southern Co.	SO	0.42	0.70	0.56	1
23	Wisconsin Energy	WEC	0.70	0.80	0.75	2
24	Xcel Energy Inc.	XEL	0.53	0.90	0.72	2
25	Average				0.75	2.08

**Electric Utility Comparison Group
Capital Asset Pricing Model**

	A	B
Market Return - DCF		
1 Median Dividend Yield, Next 12 Months	Value Line	1.70%
2 Appreciation Potential 3-5 years, 1700 Stocks	Value Line	40%
3 Annual Appreciation Potential	$(1 + \text{Ln } 2)^{.25}$	8.8%
4 Total Market Return	$\text{Ln } 1 + \text{Ln } 3$	10.48%
Risk-Free Rate		
5 30-year US Treasury Bond Yield, Dec. 1, 2006	federalreserve.gov	4.58%
Current Market Risk Premium		
6 Market Return less Treasury Bond Yield	$\text{Ln } 4 - \text{Ln } 5$	5.90%
7 Average beta, Comparison Company Groups	Schedule CWK-6	0.75
8 Risk Premium for Comparison Company Groups	$\text{Ln } 6 * \text{Ln } 7$	4.45%
9 CAPM Rate of Return	$\text{Ln } 5 + \text{Ln } 8$	9.03%



Source: Edison Electric Institute, Washington, D.C.; "Rate Case Summary" in Third Quarter 2006 Financial Update.

Experience

Snively King Majoros O'Connor & Lee, Inc. Washington, DC

President (1989 to Present)

Vice President (1970 - 1989)

Mr. King, a founder of the firm and acknowledged authority on regulatory economics, brings over thirty years of experience in economic consulting to his direction of the firm's work in transportation, utility and telecommunications economics.

Mr. King has appeared as an expert witness on over 300 separate occasions before more than thirty state and nine U.S. and Canadian federal regulatory agencies, presenting testimony on rate base calculations, rate of return, rate design, costing methodology, depreciation market forecasting, and ratemaking principles. Mr. King has also testified before House and Senate Committees on energy and telecommunications legislation pending before the U.S. Congress.

In telecommunications, Mr. King has testified before the Federal Communications Commission on a number of policy issues, service authorization, competitive impacts, video dialtone, and prescription of interstate depreciation rates. Before state regulatory bodies, he has presented testimony in proceedings on intrastate rates, costs earnings and depreciation.

Mr. King has testified in electric, gas and water utility cases on virtually every aspect of regulation, including cost of capital, revenue requirements, depreciation, cost allocation and rate design. Mr. King is one of the nation's leading authorities on utility depreciation practices, having testified on this subject in several dozen cases before state regulatory bodies.

In addition to his appearances as a witness in judicial and administrative proceedings, Mr. King has negotiated settlements among private parties and between private parties and regulatory offices. Mr. King also has directed depreciation studies, investment cost benefit analyses, demand forecasts, cost allocation studies and antitrust damage calculations. Mr. King directed analyses of the prices of services under Federal Government's FTS2000 long distance system.

In Canada, Mr. King designed and directed an extended inquiry into the principles and procedures for regulating the telecommunication carriers subject to the jurisdiction of the Canadian Transport Commission. He also was the principal investigator in the Canadian Transport Commission's comprehensive review of rail costing procedures.

EBS Management Consultants, Inc., Washington, DC

*Director, Economic Development Department
(1968-1970)*

Mr. King organized and directed a five-person staff of economists performing research, evaluation, and planning relating to economic development of depressed areas and communities within the U.S. Most of this work was on behalf of federal, state, and municipal agencies responsible for community or regional economic development.

Principal Consultant (1966-1968)

Mr. King conducted research on a broad range of economic topics, including transportation, regional economic development, communications, and physical distribution.

W.B. Saunders & Company, Inc., Washington, DC

Staff Economist (1962-1966)

For this economic consulting firm, which later merged with EBS Management Consultants, Inc., Mr. King engaged in numerous research efforts relating primarily to economic development and transportation.

U.S. Bureau of the Budget, Office of Statistical Standards

Analytical Statistician (1961-1962)

Mr. King was responsible for the review of all federal statistical and data-gathering programs relating to transportation.

Education

Washington & Lee University, B.A. in Economics

*The George Washington University, M.A. in
Government Economic Policy*

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Appearances before State Regulatory Agencies

State	Electric, Gas, Water Utility Cases			Date of Cross-Examination
	Client	Case		
		Case Number	Utility	
AK	Exxon USA	P-89-1,2	Trans Alaska Pipeline System	October 18, 1990
AZ	Arizona Corporation Commission Arizona Retailers Association	U-1345-I U-1345-II	Arizona Public Service Co. Arizona Public Service Co.	December 16, 1980 January 15, 1981
CA	California Retailers Association California Retailers Association California Retailers Association California Retailers & California Manufacturers California Retailers Association	57666 57602 59351 59351 61138	Pacific Gas & Electric Co. Southern California Edison Pacific Gas & Electric Co. Southern California Edison Southern California Edison	March 6, 1978 April 25, 1978 June 12, 1981 May 20, 1982 May 28, 1982
CO	U. S. Department of Defense J.C. Penney Company U.S. Department of Defense U. S. Department of Defense U.S. Department of Defense U.S. Department of Defense U.S. Department of Defense U.S. Department of Defense	I&S 1100 5693 I&S 1339 I&S 1540 C. Council C. Council C. Council C. Council	Colorado Springs (Elec) All Electric Utilities Colorado Springs DPU (Gas) Colorado Springs DPU (Gas) Colorado Springs DPU (Gas) Colorado Springs DPU (Elec) Colorado Springs DPU (Elec) Colorado Springs DPU (Elec)	June 14, 1977 March 8, 1978 October 18, 1979 February 9, 1982 September 30, 1984 June 6, 1985 May 19, 1986 June 30, 1987
CT	Retailers Merchants Association Division of Consumer Counsel Public Utilities Control Auto Division of Consumer Counsel Division of Consumer Counsel Division of Consumer Counsel Division of Consumer Counsel Coalition of Hotels, Alloys & Retailers Coalition of Hotels, Alloys & Retailers	72-0204 76-0604,5 78-0303 80-0403,4 81-0413 81-0602,4 82-0701 85-10-22 87-07-01	Various Electric Utilities CL&P and HELCO Bridgeport Hydraulic Co. CL&P and HELCO United Illuminating Company CL&P and HELCO CL&P CL&P CL&P	July 22, 1976 November 10, 1977 (none) August 11, 1980 July 20, 1981 October 5, 1981 September 28, 1982 (none) April 25, 1988

CHARLES W. KING
Appearances before State Regulatory Agencies

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State	Electric, Gas, Water Utility Cases			Date of Cross-Examination
	Client	Case		
		Case Number	Utility	
DC	D.C. People's Counsel	685	Potomac Electric Power Company	March 6, 1978
	D.C. People's Counsel	715	Potomac Electric Power Company	(none)
	D.C. People's Counsel	725	Potomac Electric Power Company	April 4, 1980
	D.C. People's Counsel	737	Potomac Electric Power Company	January 1, 1981
	Washington Metro Area Transit Authority	748	Potomac Electric Power Company	June 26, 1981
	Washington Metro Area Transit Authority	758	Potomac Electric Power Company	December 15, 1981
	D.C. People's Counsel	785	Potomac Electric Power Company	September 21, 1982
	Washington Metro Area Transit Authority	759	Potomac Electric Power Company	March 29, 1984
	D.C. People's Counsel	685 Remand	Potomac Electric Power Company	June 10, 1985
	D.C. People's Counsel	905	Potomac Electric Power Company	August 20, 1991
	D.C. People's Counsel	912	Potomac Electric Power Company	May 7, 1992
	D.C. People's Counsel	834, III	Potomac Electric Power Company	May 22, 1992
	D.C. People's Counsel	917	Potomac Electric Power Company	September 24, 1992
	D.C. People's Counsel	922	Washington Gas Light Company	June 15, 1993
	D.C. People's Counsel	929	Potomac Electric Power Company	December 16, 1993
	D.C. People's Counsel	934	Washington Gas Light Company	Filed April 22, 1994
	D.C. People's Counsel	939	Potomac Electric Power Company	March 16, 1995
	D.C. People's Counsel	917	Potomac Electric Power Company	April 16, 1995
	D.C. People's Counsel	951	Potomac Electric Power Company	February 20, 1997
	D.C. People's Counsel	945	Potomac Electric Power Company	September 29, 1999
	D.C. People's Counsel	847	Washington Gas Light Company	June 27, 2001
	D.C. People's Counsel	989	Washington Gas Light Company	May 22, 2002
	D.C. People's Counsel	1016	Washington Gas Light Company	September 23, 2003
DE	Delaware PSC Staff	94-164	Artesian Water Company	Filed March 10, 1995
	Delaware PSC Staff	94-149	Wilmington Suburban Water Company	March 10, 1995
	Delaware PSC Staff	04-152	Tidewater Utilities Company	Filed July 26, 2004
FL	Florida Retail Federation	790593-EU	All Electric Utilities	March 5, 1981
	Florida Retail Federation	810002-EU	Florida Power and Light Company	July 23, 1981
	Florida Retail Federation	820097-EU	Florida Power and Light Company	September 22, 1982
	Florida Retail Federation	820097-EU	Florida Power and Light Company	April 11, 1983
	Florida Retail Federation	830012-EU	Tampa Electric Company	August 19, 1983
	Florida Retail Federation	830465-EI	Florida Power and Light Company	April 19, 1984
	Florida Retail Federation	830465-EI	Tampa Electric Company	(none)

CHARLES W. KING
Appearances before State Regulatory Agencies

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State	Electric, Gas, Water Utility Cases			Date of Cross-Examination
	Client	Case		
		Case Number	Utility	
GA	Georgia Retail Federation Georgia Public Service Commission Georgia Public Service Commission Georgia Public Service Commission Georgia Public Service Commission Georgia Public Service Commission Georgia Public Service Commission Georgia Public Service Commission Georgia Public Service Commission Georgia Public Service Commission Georgia Public Service Commission Georgia Public Service Commission Georgia Public Service Commission Georgia Public Service Commission Georgia Public Service Commission	3270-U 4007-U 4384-U 4755-U 4697-U 9355-U 14000-U 14618-U 14311-U 17066-U 18300-U 18638-U 19758-U 20298-U	Georgia Power Company Georgia Power Company All Electric Utilities Georgia Power Company All Utilities Georgia Power Company Georgia Power Company Savannah Electric & Power Company Atlanta Gas Light Company Georgia Power Company Georgia Power Company Atlanta Gas Light Company Savannah Electric & Power Company Atmos Energy Corp.	September 3, 1981 August 21, 1991 August 1, 1993 January 25, 1994 May 10, 1994 November 4, 1998 October 23, 2001 March 27, 2002 April 8, 2002 July 31, 2003 October 26, 2004 March 14, 2005 March 29, 2005 October 11, 2005
HI	Public Utilities Department Hawaii Consumer Advocate	2793 4536	All Electric Utilities Hawaiian Electric Company	February 14, 1978 February 1, 1983
IL	Illinois Retail Merchants Association ("IRMA"/ Chicago Bldg. Mgrs. Association ("CBMA") IRMA/CBMA IRMA/CBMA IRMA/CBMA IRMA/CBMA IRMA/CBMA IRMA/CBMA IRMA/CBMA City of O'Fallon, IL	76-0698 76-0568 80-0546 82-0026 83-0537 87-0427 90-0169 02-0690	Commonwealth Edison All Electric Utilities Commonwealth Edison Commonwealth Edison Commonwealth Edison Commonwealth Edison Commonwealth Edison Commonwealth Edison Illinois-American Water Company	June 22, 1977 (none) March 5, 1981 July 22, 1982 March 19, 1984 March/April 22, 1988 October 29, 1990 Filed Feb.5, Apr.11,2003
IN	Indiana Retail Council Indiana Retail Council Indiana Retail Council	35780-S2 35780-S1 36318	N. Ind. Public Service co. Public Service of Indiana Public Service of Indiana	June 1, 1980 October 15, 1980 May 4, 1982
KS	J.C. Penney Company	115,379-U	All Kansas Utilities	January 22, 1981
KY	Seven Kentucky Retailers Attorney General of Kentucky Attorney General of Kentucky Attorney General of Kentucky	7310 2002-145 2003-252 2004-67	Louisville Gas & Electric Co. Columbia Gas of Kentucky Union Heat Light & Power Co. Delta Gas Company	April 25, 1979 Filed August 8, 2002 September 30, 2003 August 18, 2004

CHARLES W. KING
Appearances before State Regulatory Agencies

State	Electric, Gas, Water Utility Cases			Date of Cross-Examination
	Client	Case		
		Case Number	Utility	
MA	Coalition of Municipalities	20279	Western Massachusetts Electric	March 19, 1980
	Coalition of Municipalities	557/558	Western Massachusetts Electric	May 14, 1981
	Coalition of Municipalities	957	Western Massachusetts Electric	March 9, 1982
	Coalition of Municipalities	1300	Western Massachusetts Electric	January 1, 1983
	Coalition of Municipalities	85-270	Western Massachusetts Electric	March 26, 1986
MD	Maryland People's Counsel	6977	Washington Gas & Light Company	September 17, 1976
	Maryland People's Counsel	6814	Potomac Electric Power Company	
	Maryland People's Counsel	6807	All Electric Utilities	September 1, 1977
	Maryland People's Counsel	6882	Baltimore Gas & Electric Company	(none)
	Maryland People's Counsel	6985	Baltimore Gas & Electric Company	September 28, 1976
	Maryland People's Counsel	7070	Baltimore Gas & Electric Company	December 20, 1976
	Maryland People's Counsel	7149	Potomac Electric Power Company	April 18, 1978
	Maryland People's Counsel	7163	All Electric Utilities	January 17, 1979
	Maryland People's Counsel	7236	Delmarva Power & Light Company	October 23, 1978
	Retail Merchants of Baltimore	7397	Baltimore Gas & Electric Company	June 20, 1980
	Maryland People's Counsel	7427	Delmarva Power & Light Company	September 8, 1980
	Maryland People's Counsel	7574	Baltimore Gas & Electric Company	December 2, 1981
	Maryland People's Counsel	7597	Potomac Electric Power Company	February 18, 1982
	Organization of Consumer Justice	7604	Potomac Electric Power Company	April 20, 1982
	Maryland People's Counsel	7588	Baltimore Gas & Electric Company	October 19, 1982
	Maryland People's Counsel	7663	Potomac Electric Power Company	November 22, 1982
	Retail Merchants of Baltimore	7685	Baltimore Gas & Electric Company	April 12, 1983
	Genstar Stone Products, et al.	7878	Potomac Electric Power Company	December 9, 1985
	Industrial Intervenors	7878	Potomac Electric Power Company	June 28/July 1986
	Maryland People's Counsel	7983	Baltimore Gas & Electric Company	March 4, 1987
Giant Foods, Inc.	8855	Baltimore Gas & Electric Company	January 8, 2003	
Maryland People's Counsel	9036	Baltimore Gas & Electric Company	September 29, 2005	
MI	General Services Administration	U-10102	Detroit Edison Company	March 22, 1993
	Michigan Attorney General	U-11722	Detroit Edison Company	November 6, 1998
	Michigan Attorney General	U-11772	Consumers Energy/Detroit Edison	November 16, 1998
	Michigan Attorney General	U-11495	Detroit Edison Company	December 8, 1999
	Michigan Attorney General	U-11956	Consumer Energy/Detroit Edison	December 15, 1999
	Michigan Attorney General	U-12505	Consumers Energy Company	September 7, 2000
	Michigan Attorney General	U-12478	Detroit Edison Company	October 5, 2000
	Michigan Attorney General	U-12630	Consumers Energy/Detroit Edison	July 19, 2001
	Michigan Attorney General	U-13000	Consumers Energy Company	January 29, 2002
	Michigan Attorney General	U-13380	Consumers Energy Company	September 9, 2002
	Michigan Attorney General	U-13715	Consumers Energy Company	April 24, 2003
	Michigan Attorney General	U-13808	Detroit Edison Company	Dec 12, 2003; Jan 30, Mar 5, 04

CHARLES W. KING
Appearances before State Regulatory Agencies

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State	Electric, Gas, Water Utility Cases			Date of Cross-Examination
	Client	Case		
		Case Number	Utility	
MI (Cont'd)	Michigan Attorney General Michigan Attorney General Michigan Attorney General Michigan Attorney General Michigan Attorney General Michigan Attorney General Michigan Attorney General Michigan Attorney General Michigan Attorney General Michigan Attorney General Michigan Attorney General Michigan Attorney General Michigan Attorney General	U-12999 U-13898,9 U-14201 U-14274 U-14148 U-14399 U-14428 U-14292 U-13808-R U-14547 U-14701 U-14526 U-14561	Consumers Energy Company Michigan Consolidated Gas Co. Detroit Edison Company Consumers Energy Company Consumers Energy Company Detroit Edison Company Detroit Edison Company All Michigan Utilities Detroit Edison Company Consumers Energy Company Consumers Energy Company Consumers Energy Company All Gas Distribution Utilities	March 10, 2004 August 23, 2004 Filed December 5, 2004' Filed February 15, 2005 Filed March 2, 25, 2005 July 29, 2005 September 7, 2005 September 27, 2005 November 7, 2005 Nov.7, 2005; Mar. 22, 2006 March 21, 2006 April 11,2006 June 1, 2006
MN	Minnesota Retail Federation	EOO2/6R-77-611	Northern States Power	1979
MO	Missouri Retailers Association Missouri Public Counsel	EO-78-161 ER-2006-0315	Kansas City Power & Light Company Empire District Electric Company	February 19, 1981 September 14, 2006
NC	North Carolina Merchants Association	E-100	All Electric Utilities	December 18, 1975
ND	North Dakota Public Service Commission North Dakota Public Service Commission North Dakota Public Service Commission North Dakota Public Service Commission North Dakota Public Service Commission North Dakota Public Service Commission	PU-400-00-521 PU-399-01-186 PU-399-02-183 PU-399-02-183 PU-399-03-296 PU-04-97	Xcel Energy, Inc. Montana-Dakota Utilities (Electric) Montana-Dakota Utilities (Gas) Montana-Dakota Utilities (Gas Depr.) Montana-Dakota Utilities (Electric) Montana-Dakota Utilities (Gas)	April 20, 2001 February 25, 2002 October 7, 2002 Filed April 7, 2003 Filed October 15, 2003 Filed July 6, 2004
NH	Business & Industry Association of N.H. Business & Industry Association of N.H. Business & Industry Association of N.H.	79-187-II 80-260 82-333	Public Service of N.H. Public Service of N.H. Public Service of N.H.	February 6, 1981 February 5, 1981 November 2, 1983
NJ	N.J. Retail Merchants Association Department of Public Advocate Resorts International Hotel, Inc. Dept. of Public Advocate Dept. of Public Advocate Dover Township Fire Chiefs	803-151 815-459 8011-827 822-116 355-87 88-080967	All New Jersey Utilities N.J. Natural Gas Company Atlantic City Sewerage Co. Atlantic City Electric Co. Elizabethtown Gas Tom's River Water Company	March 31, 1981 (none) (none) August 11, 1982 June 9, 1987 February 22, 1989

CHARLES W. KING
Appearances before State Regulatory Agencies

State	Electric, Gas, Water Utility Cases			Date of Cross-Examination
	Client	Case		
		Case Number	Utility	
NY	N.Y. Council of Retail Merchants Metropolitan N.Y. Retail Council Metropolitan N.Y. Retail Council N.Y. Metro. Transit Authority	26806 27029 27136 27353	All Electric Utilities Consolidated Edison Company Long Island Lighting Company Consolidated Edison Company	February 3, 1976 (none) July 1, 1977 September 5, 1980
OH	Ohio Council of Retail Association Ohio Council of Retail Association	88-170-EL 83-1529-EL	Cleveland Elec. Illuminating Cincinnati Gas & Electric	(none) February 15, 1992
PA	Pennsylvania Retail Association Southeastern Pa. Transp. Authority Eastern Penn Energy Users Group Eastern Penn Energy Association Penn Business Utility User Group Pennsylvania Office of Consumer Advocate	76-PRMD-7 R-811626 R-822169 R-842651 R-850152 R-00016339	All Electric Utilities Philadelphia Electric Company Penn. Power & Light Company Penn. Power & Light Company Philadelphia Electric Company Pennsylvania-American Water Co.	September 7, 1977 December 11, 1981 March/April 1983 December 3, 1984 February 19, 1986 September 19, 2001
TX	Houston Retailers Association Houston Retailers Association Cities for Fair Utility Rates	5779 6765 8425/8431	Houston Lighting Company Houston Lighting Company Houston Lighting Company	October 19, 1984 September 25, 1986 April 25, 1989
UT	Div. Of Public Utilities Dept of Commerce Div. Of Public Utilities Dept of Commerce	98-2035-33 05-057-T01	Pacific Corp Questar Gas Company	Filed August 16, Sept 22, 1999 May 17, 2006
VA	Consumer Congress of Virginia Consumer Congress of Virginia Va. Business Committee on Energy Virginia Pipe Trades Council	19426 19960 PUE 7900012 PUE 8900051	Virginia Electric Power Company Virginia Electric Power Company Virginia Electric Power Company Old Dominion Electric Corp. &	July 1, 1975 September 19, 1978 February 25, 1981 October 31, 1989
WI	Wisconsin Merchants Federation	6630-ER-2	Wisconsin Electric Power Company	May 15, 1978

CHARLES W. KING
Appearances before State Regulatory Agencies

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State	Telecommunications Cases			Date of Cross-Examination
	Client	Case		
		Case Number	Utility	
AL	U.S. Department of Defense	24472	All Telephone Companies	June 14, 1995
AK	GCI Communications, Inc. GCI Communications, Inc.	U-97-82,U-97-143 U-05-46	Alaska Communications Systems Matanuska Telephone Association	Filed Feb 25, April 5, 2004 October 28, 2005
AZ	Arizona Burglar & Fire Alarm Association	9981-E- 1051-80-64	Mountain State Telephone	(none)
	Federal Executive Agencies U.S. Department of Defense	E-1051-88-146 T-01051B-99-0105	Mountain State Telephone US WEST Communications	(none) Filed July 26, Sept 8, 2000
CA	Western Burglar & Fire Alarm Association Western Burglar & Fire Alarm Association Western Burglar & Fire Alarm Association Western Burglar & Fire Alarm Association Western Burglar & Fire Alarm Association Western Burglar & Fire Alarm Association Western Burglar & Fire Alarm Association California Cellular Resellers Federal Executive Agencies California Cellular Resellers Cellular Services, Inc. Federal Executive Agencies	59849 5984cont. A83-01-22 A83-02-02 A82-11-07 A85-01-034 A87-01-02 A88-07-17019 A.88-11-1040 1.87-11-033 1.88-11-040 1.88-11-040 A92-05-004	Pacific Telephone & Telegraph Pacific Telephone & Telegraph Pacific Telephone & Telegraph General Telephone of California Pacific Telephone & Telegraph Pacific Telephone & Telegraph General Telephone of California Pac. Bell Tel. & GTE of CA. All Cellular Carriers All Telephone Companies All Cellular Carriers All Cellular Carriers Pacific Telephone & Telegraph	March 25, 1981 June 23, 1982 June 29, 1983 January 17, 1984 Jan. 18, Oct. 31, Nov 28, 1984 June 4, 1985, October 2, 1986 October 22, 1987 January 23, 1989 August 11, 1989 March 6-7, 1991 August 19, 1991 October 3, 1991 June 9, 1993
CO	U.S. Department of Defense U.S. Department of Defense U.S. Department of Defense U.S. Department of Defense Colorado Municipal League U.S. Department of Defense U.S. Department of Defense U.S. Department of Defense U.S. Department of Defense U.S. Department of Defense U.S. Department of Defense AT&T	I&S 717 I&S 1700 Appl. I&S 1766 Appl 36883 I&S 891-082T 905-544T 90A-665T 92M-039T 92S-229T 90A-665T 96S-331T	Mountain Bell Telephone Company Mountain Bell Telephone Company Mountain Bell Telephone Company Mountain Bell Telephone Company Mountain Bell Telephone Company U.S. West Communications U.S. West Communications U.S. West Communications U.S. West Communications U.S. West Communications U.S. West Communications U.S. West Communications	1972 (none) September 18, 1986 November 28, 1988 December 13, 1988 February 21, 1990 July 17, 1991 October 23, 1991 February 24-24, 1992 July 30-31, 1992 November 6, 1996 April 17, 1997

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	Client	Case		
		Case Number	Utility	
CT	Connecticut Consumer Counsel CT Cellular Resellers Assn. CT Cellular Resellers Coalition AT&T Connecticut Consumer Counsel Connecticut Consumer Counsel	770526 89-12-05 94-03-27 AT&T/SNET Arbitration 96-04-07 00-07-17	Southern New England Telephone Co. Southern New England Telephone Co. Springwich Cellular/Bell Atlantic Southern New England Telephone Co. Southern New England Telephone Co. Southern New England Telephone Co.	November 10, 1977 (none) May 16, June, 1994 Filed October 28, 1996 February 10, 1998 December 5, 2000
DC	D.C. People's Counsel D.C. People's Counsel General Services Administration General Services Administration General Services Administration General Services Administration	729 798 827 854 850 926	Chesapeake & Potomac Tel. Co. Chesapeake & Potomac Tel. Co. Chesapeake & Potomac Tel. Co. Chesapeake & Potomac Tel. Co. Chesapeake & Potomac Tel. Co. Chesapeake & Potomac Tel. Co.	May 13, 1980 July 18, 1983 May 7, 1985 April 16, 1987 October 7, 1991 October 7, 1993
DE	Public Service Commission Federal Executive Agencies Public Service Commission	Depr.Repre 86-20 Depr.Repre	Diamond State Telephone Co. Diamond State Telephone Co. Diamond State Telephone Co.	April 1, 1985 July 31, 1987 March 8, 1988
FL	GTE Sprint Communications Company Office of Public Counsel Federal Executive Agencies Federal Executive Agencies Federal Executive Agencies	720536-TP Depr.Repre 880069-TL 880069-TL 880069-TL	All Telephone Companies Southern Bell Southern Bell Southern Bell Southern Bell	September 12, 1983 July 30, 1986 July 21, 1988 November 30, 1990 February 11, 1992
GA	Georgia Attorney General Federal Executive Agencies Federal Executive Agencies Georgia Public Service Commission	3893-U 3905-U 3987-U 4018-U	Southern Bell Telephone Co. Southern Bell Telephone Co. Southern Bell Telephone Co. Southern Bell Telephone Co.	January 8, 1990 June 12, 1990 February 13, 1992 Jan 14, Feb 10, 1993
HI	Hawaii Public Utility Commission Four Hawaii Counties Department of Defense Department of Defense Department of Defense Department of Defense Department of Defense	1871 4588 7579 94-0093 7702 94-0298 7720	Hawaiian Telephone Company Hawaiian Telephone Company Hawaiian Telephone Company Oceanic Communications All Communications Carriers GTE Hawaiian Telephone Company Verizon-Hawaii	July 8, 1971 December 15, 1983 April 26, 1994 March 13, 1995 June 2, 1995 May 7, 1996 November 15, 2000

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State	Telecommunications Cases			Date of Cross-Examination
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ID	U.S. Department of Energy U.S. Department of Energy	U-1000-63 U-1000-70	Mountain Bell Telephone Co. Mountain Bell Telephone Co.	May 16, 1983 March 6, 1984
IL	Illinois Alarm Companies Attorney General of Illinois GTE Sprint Communications Co. Federal Executive Agencies	79-0143 81-0478 83-0142 89-0033	Illinois Bell Telephone Illinois Bell Telephone All Telephone Companies Illinois Bell Telephone	September 26, 1979 December 28, 1981 August 4, 1983 June 12, 1989
KS	State Corporation Commission Federal Executive Agencies Federal Executive Agencies	Depr. Repr. 166.856-U 190, 492	Southwestern Bell Southwestern Bell All Telephone Companies	May 12-14, 1986 November 7, 1989 November 4, 1994
KY	Kentucky Cable Telecommunications Assn. Kentucky Cable Telecommunications Assn.	2000-414 2000-39	Blue Grass Energy Cooperative Cumberland Valley Electric, Inc.	January 11, 2001 January 11, 2001
MD	Maryland People's Counsel Maryland People's Counsel Maryland People's Counsel Maryland People's Counsel Federal Executive Agencies Federal Executive Agencies Federal Executive Agencies	6813 6881 7025 7467 7851 8106 8274	C&P Telephone Company C&P Telephone Company C&P Telephone Company C&P Telephone Company C&P Telephone Company C&P Telephone Company C&P Telephone Company	1975 December 17, 1975 March 15, 1975 October 20, 1981 March 20, 1985 May 9, 1988 August 2, 1990
MI	Michigan Attorney General Michigan Attorney General	U-8911 U-9553	Michigan Bell Telephone Co. AT&T Communications/MCI	November 7, 1988 December 4, 1990
MN	GTE Sprint Communications Co. U.S. Department of Defense	83-102-HC 87-021-BC	All Telephone Companies Northwest Bell Telephone Co.	August 5, 1983 (none)

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	Client	Case		
		Case Number	Utility	
MO	GTE Sprint Communications Co. Federal Executive Agencies Federal Executive Agencies	TR83-253 TC-89-14 TO-89-56	Southwestern Bell Tel. Co. Southwestern Bell Tel. Co. Southwestern Bell Tel. Co.	September 5, 1983 (none) November 7, 1990
MS	Federal Executive Agencies	U-5453	South Central Bell Tel. Co.	May 15, 1990
NJ	Department of Public Advocate Department of Public Advocate Department of Public Advocate Department of Public Advocate Department of Public Advocate Department of Public Advocate	Depr.Repr. 815-458 Depr.Repr. Depr.Repr. T092030358 TMO05080739	N.J. Bell Telephone Company N.J. Bell Telephone Company N.J. Bell Telephone Company N.J. Bell Telephone Company N.J. Bell Telephone Company United Telephone Co. of New Jersey	Mar-79 October 15, 1981 March 1, 1982 February 1, 1985 September 30, 1992 January 5,2006
NM	New Mexico Corporation Commission New Mexico Corporation Commission	1032 86-151-TC	Mountain Bell Telephone Co. General Telephone of Southwest	November 14, 1983 February 5, 1987
NV	Prime Cable of Las Vegas Prime Cable of Las Vegas	95-8034/8035 96-9035	Central Telephone - NV Sprint/Centel, Nevada Bell	Filed November 22, 1995 June 2, 1997
NY	Holmes Protection, Inc. Holmes Protection, Inc. 5 Alarm Companies GTE Sprint Communications Co.	27350 27469 27710 28425	New York Telephone Company New York Telephone Company New York Telephone Company All Telephone Companies	October 17, 1978 May 17, 1979 July 24, 1980 July 8, 1983
PA	City of Philadelphia	R-832316	Pennsylvania Bell Telephone	September 20, 1983
SC	Office of Consumer Advocate Office of Consumer Advocate Office of Consumer Advocate Office of Consumer Advocate Office of Consumer Advocate	Depr.Repr. 86-511-C 86-541-C Depr.Repr. 89-180-C	Southern Bell Southern Bell General Telephone of South Southern Bell ALLTEL of South Carolina	July 1, 1986 December 11, 1986 April 8, 1987 July 10, 1989 September 26, 1989

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	Client	Case		
		Case Number	Utility	
TX	U.S. Department of Defense	8585/8218	Southwestern Bell Telephone Co.	(none)
VA	U.S. Dept. Of Defense, GSA, et Federal Executive Agencies	19696 PUC 890014	C&P Telephone Company All Telephone Companies	October 6, 1976 February 13, 1989
VI	V.I. Department of Commerce V.I. Public Service Commission	205 341	Virgin Islands Telephone Co. Virgin Islands Telephone Co.	April 29, 1980 March 20, 1991
WA	U.S. Department of Defense U.S. Department of Defense U.S. Department of Defense U.S. Department of Defense WA Attorney General/TRACER U.S. Department of Defense U.S. Department of Defense WA Attorney General/TRACER WA Attorney General/TRACER U.S. Department of Defense WA Attorney General/WeBTEC/AARP WA Attorney General WA Attorney General	U-72-39 U-87-796-T U-88-20524 U-89-2698-F UT-940641 UT-941464 UT-951425 UT-961632 UT-021120 UT-040788 UT-040520 UT-050814	Pacific Northwest Bell Pacific Northwest Bell Pacific Northwest Bell US West Communications US West Communications US West Communications US West Communications US West Communications GTE Northwest, Inc Qwest Communications Verizon Northwest, Inc. Verizon Northwest, Inc. Verizon - MCI Merger	1973 December 20, 1983 November 8, 1988 November 28, 1989 Filed October 14, 1994 June 22, 1995 January 22, 1996 Filed June 23, 1997 July 29, 1997 May 22, 2003 August 12, 2004 February 2, 2005 November 2, 2005
WI	GTE Sprint Wisconsin Consumers Utility Board Wisconsin Consumers Utility Board	6720-TR-38 2055-TR-102 5846-TR-102	All Telephone Companies CenturyTel of Central Wisconsin Telephone USA, LCC	October 20, 1983 June 26, 2002 June 26, 2002

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Federal Communications Commission			
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Department of Defense	16020	Consat Rate of Return	1973
Airline Parties	16258	Bell System Rates	July 22, 1968
Airline Parties	18128	TELPAC	3/22, 10/15 1971, Feb. 22, 1972
National Data Corporation	19989	WATS	(none)
Press Wire Services	19919	Private Line Rates	(none)
Aeronautical Radio	20814	Private Line Rates	October 5, 1978
Department of Defense	20690	1,544 Mbps Service	January 30, 1979
State of Hawaii	21263	Interstate Separation	February 7, 1979
International Record Carriers	CC78-97	Telex/TWX Rates	March 6, 1980
ITT World Communications	CC84-633	Rate of Return	(none)
Aeronautical Radio	CC78-72	Access Line Charges	(none)
MCI	CC84-800	Rate of Return	(none)
Ind. Data Com. Mfg. Assn.	CC85-26	AT&T Accounting Plan	(none)
Tymnet, Inc.	ENF84-22	Packet Switching Costs	(none)
Adelphia Jones Intercable, et. al.	Bell Atlantic	Video Dialtone	Filed 7/29/94
Adelphia Jones Intercable, et. al.	Bell Atlantic	Video Dialtone	Filed 8/23/94
Adelphia Jones Intercable, et. al.	Bell Atlantic	Video Dialtone	Filed 2/21/95
Nuclear Regulatory Commission			
Fauquier League for Environment Protection	50-328 50-329	Va. Electric Power Co.	1976
Postal Rate Commission			
Association of Third Class Mail Users	R71-1	Rates	1970
Dow Jones & Company	R72-1	Rates	1972
Dow Jones & Company	R74-1	Rates	September 13, 1974
Dow Jones & Company	MC76-2	Rate Structure	January 6, 1979
Dow Jones & Company	MC79-3	Rate Structure	September 12, 1979
Dow Jones & Company	R80-1	Rates	November 25, 1980
Warshawsky & Company	C82-1	Rate Structure	(none)
Dow Jones & Company	R84-1	Postal Costs	June 14, 1984
Dow Jones & Company	R87-1	Rate Structure Costs	November 2, 1987
Dow Jones & Company	R90-1	Rate Structure Costs	Sept 12, Oct 10, 1990
Dow Jones & Company	MC91-1	Pre-barcoding Discounts	November 19, 1991
Dow Jones & Company	MC91-3	Palletization Discounts	March 2, 1992

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U.S. Congress

National Retail Merchants Association	House/Senate Hearings	Electric Rate Reform Legislation	1976, 1977 & 1979
National Wireless Resellers Association	House Commerce Committee	Interconnection & Resale of Wireless Services	October 12, 1995

Federal Maritime Commission

State of Hawaii	71-18	Ocean Shipping Rates	October-71
Foss Alaska Line	79-54	Barge Rate Increase	July 1979
Palmetto Shipping and Stevedoring	85-20	Vessel Charge Liability	October 27, 1986

Interstate Commerce Commission

Western Coal Traffic League	Ex Parte 349	R.R. Rate Increase	May-76
Western Coal Traffic League	Ex Parte 357	R.R. Rate Increase	Oct-78
Western Coal Traffic League	Ex Parte 375 (Sub1)	R.R. Rate Increase	June 1, 1980
Arkansas Power & Light Co.	37276	Cost of Capital	(none)
Central Illinois Light Co.	37450	Cost of Capital	March 10, 1981
Western Coal Traffic League	Ex Parte 347	Costing Methods	(none)

Civil Aeronautics Board

Thomas Cook, Inc.	36595	Air Fare Deregulation	(none)
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Copyright Royalty Tribunal

Public Broadcasting Service	88-2-86CD	Television Valuation	(none)
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Federal Energy Regulatory Commission

Exxon USA	OR89-2-000	Pipeline Quality Bank	October 18, 1990
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Canadian Transport Commission

Rail Costing Inquiry, 1967-1969 Telecommunications Costing Inquiry, 1972-1975			
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Surface Transportation Board

Williams Energy Services, Inc	Ex Parte 582, Sub 1	Rail Merger Guidelines	April 5, 2001
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