

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION)
OF IDAHO POWER COMPANY FOR)
AUTHORITY TO INCREASE ITS RATES) CASE NO. IPC-E-03-13
AND CHARGES FOR ELECTRIC SERVICE)
TO ELECTRIC CUSTOMERS IN THE STATE)
OF IDAHO.)
_____)

IDAHO POWER COMPANY

DIRECT TESTIMONY

OF

WILLIAM E. AVERA

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(For Convenience of Reader)

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I. INTRODUCTION

1 Q. Please state your name and business address.

2 A. William E. Avera, 3907 Red River, Austin,
3 Texas, 78751.

4 Q. What is your present occupation?

5 A. I am a financial, economic, and policy
6 consultant to business and government.

A. Qualifications

7 Q. What are your qualifications?

8 A. I received a B.A. degree with a major in
9 economics from Emory University. After serving in the
10 United States Navy, I entered the doctoral program in
11 economics at the University of North Carolina at Chapel
12 Hill. Upon receiving my Ph.D., I joined the faculty at the
13 University of North Carolina and taught finance in the
14 Graduate School of Business. I subsequently accepted a
15 position at the University of Texas at Austin where I
16 taught courses in financial management and investment
17 analysis. I then went to work for International Paper
18 Company in New York City as Manager of Financial Education,
19 a position in which I had responsibility for all corporate
20 education programs in finance, accounting, and economics.

21 In 1977, I joined the staff of the Public Utility
22 Commission of Texas ("PUCT") as Director of the Economic

1 in Georgia.

2 I have served as Lecturer in the Finance Department
3 at the University of Texas at Austin and taught in the
4 evening graduate program at St. Edward's University for
5 twenty years. In addition, I have lectured on economic and
6 regulatory topics in programs sponsored by universities and
7 industry groups. I have taught in hundreds of educational
8 programs for financial analysts in programs sponsored by
9 the Association for Investment Management and Research, the
10 Financial Analysts Review, and local financial analysts
11 societies. These programs have been presented in Asia,
12 Europe, and North America, including the Financial Analysts
13 Seminar at Northwestern University. I hold the Chartered
14 Financial Analyst (CFA[®]) designation and have served as Vice
15 President for Membership of the Financial Management
16 Association. I have also served on the Board of Directors
17 of the North Carolina Society of Financial Analysts. I was
18 elected Vice Chairman of the National Association of
19 Regulatory Commissioners ("NARUC") Subcommittee on
20 Economics and appointed to NARUC's Technical Subcommittee
21 on the National Energy Act. I have also served as an
22 officer of various other professional organizations and
23 societies. A resume containing the details of my
24 experience and qualifications is attached as Exhibit No.
25 11.

1 expectations for vertically integrated electric utilities
2 like Idaho Power. These sources, coupled with my
3 experience in the fields of finance and utility regulation,
4 have given me a working knowledge of investors' ROE
5 requirements confronting Idaho Power as it competes to
6 attract capital, and form the basis of my analyses and
7 conclusions.

8 Q. What is the role of ROE in setting a utility's
9 rates?

10 A. The rate of return on common equity serves to
11 compensate investors for the use of their capital to
12 finance the plant and equipment necessary to provide
13 utility service. Investors only commit money in
14 anticipation of earning a return on their investment
15 commensurate with that available from other investment
16 alternatives having comparable risks. Consistent with both
17 sound regulatory economics and the standards specified in
18 the *Bluefield* [*Bluefield Water Works & Improvement Co. v.*
19 *Pub. Serv. Comm'n*, 262 U.S. 679 (1923)] and *Hope* [*Fed.*
20 *Power Comm'n v. Hope Natural Gas Co.*, 320 U.S. 591 (1944)]
21 cases, the return on investment allowed a utility should be
22 sufficient to: 1) fairly compensate capital invested in the
23 utility, 2) enable the utility to offer a return adequate
24 to attract new capital on reasonable terms, and 3) maintain
25 the utility's financial integrity.

1 methods to a benchmark group of eight electric utilities
2 operating in the western U.S. Based on the results of
3 these approaches, I concluded that the fair rate of return
4 on common equity for Idaho Power is presently in the range
5 of 10.6 to 11.9 percent.

6 In evaluating the ROE for Idaho Power, it is
7 important to consider investors' continued focus on the
8 unsettled conditions in western power markets and the
9 unique risks imposed by the Company's much greater reliance
10 on hydroelectric generation to meet its energy needs.
11 Regulatory uncertainties, along with unfavorable capital
12 market conditions, compound the investment risks associated
13 with the jurisdictional utility operations of Idaho Power.
14 Coupled with investors' expectations for higher utility
15 bond yields going forward, these greater risks support the
16 reasonableness of my 10.6 to 11.9 percent ROE range.

17 The cost of fully funding the Company's return on
18 common equity is small relative to the potential benefits
19 that a financially sound utility can have in providing
20 reliable service at reasonable rates and supporting
21 economic growth. Considering the importance of ensuring
22 investor confidence and maintaining Idaho Power's financial
23 flexibility and the ability to attract needed capital, an
24 ROE in the 10.6 to 11.9 percent range is both necessary and
25 reasonable at this critical juncture.

II. FUNDAMENTAL ANALYSES

1 Q. What is the purpose of this section?

2 A. This section examines the risks and prospects
3 for the electric utility industry as a whole and conditions
4 in the capital markets and the general economy. An
5 understanding of these fundamental factors that drive the
6 risks and prospects of electric utilities is essential to
7 developing an informed opinion about current investor
8 expectations and requirements that form the basis of a fair
9 rate of return on equity. In addition, as a predicate to
10 my economic and capital market analyses, this section
11 briefly describes Idaho Power and reviews its operations
12 and finances.

A. Idaho Power Company

13 Q. Briefly describe Idaho Power.

14 A. Headquartered in Boise, Idaho Power is a
15 wholly-owned subsidiary of IDACORP and is principally
16 engaged in providing integrated retail electric utility
17 service in a 20,000 square mile area in southern Idaho and
18 eastern Oregon. During the most recent fiscal year, Idaho
19 Power's energy deliveries totaled 15.0 million megawatt
20 hours ("mWh"). Sales to residential customers comprised 34
21 percent of retail sales, with 27 percent to commercial, 25
22 percent to industrial end-users, and 14 percent
23 attributable to irrigation pumping. Idaho Power also

1 supplies firm wholesale power service to various utilities
2 and municipalities, as well as three large customers under
3 sales contracts. Idaho Power's service area has
4 experienced strong population growth, expanding over 10
5 percent in the last decade compared with the national
6 average of 3.8 percent.

7 At year-end 2002, Idaho Power had total assets of
8 \$2.7 billion and during the most recent fiscal year total
9 electric revenues amounted to approximately \$867 million.
10 Principal industries in the area include food processing,
11 lumber, electronics and general manufacturing, fertilizer
12 production, and year-round recreational facilities, such as
13 those in the Sun Valley resort area. Idaho Power
14 anticipates total capital expenditures of approximately
15 \$675 million over the next three years. The Company
16 recently approved a development contract, subject to
17 Commission approval, for construction of a 160 megawatt
18 ("MW") gas-fired generating plant near Mountain Home,
19 Idaho. Total cost of the project, which includes plant
20 construction and necessary transmission system upgrades, is
21 \$61 million, with Idaho Power taking ownership once the
22 facility has been fully tested and operational. In order
23 to provide additional support for its capital expenditure
24 program, Idaho Power's Board of Directors ("Board") voted
25 to cut its common stock dividends for the next quarter by

1 more than \$6 million, prompting IDACORP to announced that
2 it was reducing annual common dividends some 35 percent
3 from \$1.86 to \$1.20 per share.¹

4 With a combined capacity of approximately 3,117 MW,
5 Idaho Power's existing generating units include 17
6 hydroelectric generating plants located in southern Idaho
7 and interests in three coal-fired plants located in Oregon,
8 Nevada, and Wyoming. During 2002, company-owned generation
9 accounted for 82.1 percent of the electric energy provided
10 by Idaho Power, with the balance being obtained through
11 power purchases. The electrical output of its
12 hydroelectric plants is dependent on streamflows, which
13 have fallen below normal levels for the last three years.
14 As a result, approximately 45 percent of Idaho Power's
15 total system generation in 2002 was provided by
16 hydroelectric generation, as compared with 57 percent under
17 normal conditions. Snowpack and upstream reservoir storage
18 for 2003 have fallen below measurements for the previous
19 year and Idaho Power is experiencing its fourth consecutive
20 year of below-normal water conditions.

21 Idaho Power's transmission system interconnects the
22 Company with other western electric utilities. Coupled
23 with Idaho Power's membership in the Western Electricity
24 Coordinating Council, the Western Systems Power Pool, the
25 Northwest Power Pool and the Northwest Regional

1 Transmission Association, these transmission
2 interconnections permit the interchange, purchase, and sale
3 of power among all major electric systems in the west.

4 Idaho Power is subject to state retail regulation in
5 Idaho and Oregon and at the federal level by FERC.
6 Additionally, Idaho Power's hydroelectric facilities are
7 subject to licensing under the Federal Power Act, which is
8 administered by FERC, as well as the Oregon Hydroelectric
9 Act. Currently, the permanent licenses for five of Idaho
10 Power's hydroelectric facilities have expired. Idaho Power
11 is actively seeking relicensing under a process that could
12 continue for up to 15 years. Relicensing is not automatic
13 under federal law, and Idaho Power must demonstrate that it
14 has operated its facilities in the public interest, which
15 includes adequately addressing environmental concerns. The
16 most significant of Idaho Power's relicensing efforts
17 concerns its Hells Canyon Complex, which represent 68
18 percent of the Company's hydro capacity and 40 percent of
19 its total generating capability. After a prolonged period
20 of planning and consultation with interested parties, Idaho
21 Power has developed a draft license application that
22 includes various protection, mitigation, and enhancement
23 measures in order to address environmental concerns while
24 preserving the peak and load following operations of the
25 facilities. The estimated cost of these measures is \$78

1 million in the first five years of the license.

2 Q. How are fluctuations in Idaho Power's
3 operating expenses caused by varying hydro and power market
4 conditions accommodated in its rates?

5 A. Beginning in May 1993, Idaho Power implemented
6 a power cost adjustment mechanism ("PCA"), under which
7 rates are adjusted annually to reflect changes in variable
8 power production and supply costs. When hydroelectric
9 generation is reduced and power supply costs rise above
10 those included in base rates, the PCA allows Idaho Power to
11 increase rates to recover a portion of its additional
12 costs. Conversely, if increased hydroelectric generation
13 were to lead to lower power supply costs, rates would be
14 reduced. Although the PCA provides for rates to be
15 adjusted annually, it applies to 90 percent of the
16 deviation between actual power supply costs and normalized
17 rates. As a result, the net amount of power supply costs
18 not recovered through the PCA mechanism totaled
19 approximately \$55.2 million over the past three years.

20 Q. What credit ratings have been assigned to
21 Idaho Power and its parent, IDACORP?

22 A. Idaho Power and its parent, IDACORP are both
23 currently assigned a corporate credit rating of "A-" by
24 Standard & Poor's Corporation ("S&P"). Meanwhile, Moody's
25 Investors Service ("Moody's) has assigned issuer credit

1 ratings of "A3" and "Baa1" to Idaho Power and IDACORP,
2 respectively. S&P recently revised its outlook on both
3 companies downward from "positive" to "stable", primarily
4 due to expected weakness attributable to Idaho Power's
5 ongoing recovery of deferred power costs, poor water
6 conditions, and lower than expected sales.²

B. Electric Power Industry

7 Q. What are the general conditions in the
8 electric power industry?

9 A. For almost twenty years, electric utilities
10 and their consumers have enjoyed a respite from the
11 volatility characteristic of the late 1970s and early
12 1980s. More recently, however, these general economic
13 factors have been overshadowed by structural changes in the
14 electric utility industry resulting from market forces,
15 decontrol initiatives, and judicial decisions.

16 Q. Please describe these structural changes.

17 A. At the federal level, FERC has been an
18 aggressive proponent of regulatory driven reforms designed
19 to foster greater competition in markets for wholesale
20 power supply. The National Energy Policy Act of 1992,
21 which reformed the Public Utility Holding Company Act of
22 1935, and to a limited extent, the Federal Power Act,
23 greatly increased prospective competition for the
24 production and sale of power at the wholesale level. In

1 April 1996, FERC adopted Order No. 888, mandating "open
2 access" to the transmission facilities of jurisdictional
3 electric utilities. FERC also has pushed for the
4 regionalization of transmission system control by
5 establishing frameworks for creation of Regional
6 Transmission Organizations ("RTOs") in its Order No. 2000³
7 and through subsequent policy statements.⁴ "Open access"
8 has, in the view of most market observers, resulted in more
9 competition and competitors in wholesale power markets, but
10 not without the introduction of substantial risks.

11 Policies affecting competition in the electric power
12 industry vary widely at the state level, but over 25
13 jurisdictions have enacted some form of industry
14 restructuring. This process of industry transition has led
15 to the disaggregation of many formerly integrated electric
16 utilities into three primary components - generation,
17 transmission, and distribution. Presently, however, Idaho
18 Power is, and is expected to remain, a fully integrated
19 public utility.

20 Q. What impact has the western power crisis had
21 on investors' risk perceptions for firms involved in the
22 electric power industry?

1 coupled with the collapse of Enron, have left a
2 devastating wake within the industry. Investor
3 confidence has been shaken by these events, by a
4 declining national economy, indictments of energy
5 traders, accounting irregularities, downgrades by
6 rating agencies, and continuing investigations by
7 the FERC, CFTC, the SEC, and the Justice
8 Department. ...The flight of capital from the
9 industry has been severe since the collapse of
10 Enron.⁵

11 While the case of California and PG&E represents an
12 extreme example, there is every indication that investors'
13 risk perceptions for electric utilities have shifted
14 sharply upward as events in the western U.S. continued to
15 unfold. The resolution is far from over, as even today,
16 FERC, federal and state courts, and other agencies continue
17 their investigations to determine the underlying causes of
18 the volatility, high prices and erratic supply patterns
19 characteristic of western wholesale power markets in 2000
20 and 2001.

21 Q. Have these events affected electric utilities'
22 credit standing?

23 A. Yes. The last several years have witnessed a
24 steady erosion in credit quality throughout the electric
25 utility industry, both as a result of revised perceptions
26 of the risks in the industry and the weakened finances of
27 the utilities themselves. For example, during 2002, S&P
28 recorded 182 downgrades in the electric power industry,
29 versus only 15 upgrades, while Moody's downgraded 109

1 utility issuers and upgraded one; an acceleration of the
2 trend in bond rating changes during the previous two years.
3 The fourth quarter of 2002 alone witnessed 48 downgrades as
4 the negative pressure on utility creditworthiness continued
5 unabated.

6 Q. What is the impact of these capital and credit
7 market conditions on the ability of electric utilities to
8 raise funds?

9 A. Combined with a stagnant economy and global
10 uncertainties, the dramatic upward shift in investors' risk
11 perceptions and the weakened financial picture of most
12 industry participants, have combined to produce a severe
13 liquidity crunch in the electric power industry. S&P cited
14 the debilitating impact of these developments on investors'
15 willingness to provide capital:

16 The last 24 months have witnessed extraordinary
17 turmoil for power and energy debt, unprecedented
18 since Samuel Insull's utility empire collapsed
19 during the 1930s. Events ranging from the credit
20 collapse of the California utilities, through the
21 Enron bankruptcy and subsequent market
22 disruptions for U.S. energy merchant companies
23 have destroyed billions of dollars of value for
24 investors. Wall Street has virtually shut down
25 new investment in this sector.⁶

26 Increasingly constrained capital market access as
27 a result of investor skepticism over accounting
28 practices and disclosure, more and more federal
29 and state investigations and subpoenas, audits,
30 and failing confidence in future financial
31 performance has created a liquidity crisis.⁷

1 have permanent fuel and purchased power adjustment
2 mechanisms in place, there can be a significant lag between
3 the time the utility actually incurs the expenditure and
4 when it is recovered from ratepayers. One example of this
5 regulatory lag was noted by The Value Line Investment
6 Survey (Value Line):

7 **A lag in the recovery of sharply higher power**
8 **costs is hurting Sierra Pacific Resources.** Power
9 prices in the West have soared since the second
10 quarter of 2000, and until recently, SPR's two
11 utilities lacked a mechanism for recovering these
12 increases. The Nevada Commission has granted
13 one, but it won't solve the utilities' problem
14 right away. That's because the mechanism tracks
15 power costs over a trailing 12-month period and
16 because the amount by which the utilities can
17 raise rates each month is capped.¹⁴

18 Because Idaho Power was dependent on wholesale power
19 markets in the west to meet the gap in its resource needs
20 created by reduced hydro generation, the chaotic market
21 conditions were felt directly. The continuing prospect of
22 further turmoil in western power markets cannot be
23 discounted. From the standpoint of the capital markets,
24 the west is risky - and Idaho Power's exposure to wholesale
25 markets in meeting shortfalls in hydroelectric generation
26 compounds these uncertainties.

27 Investors recognize that volatile markets,
28 unpredictable stream flows, and Idaho Power's dependence on
29 wholesale purchases to meet the needs of its customers can

1 create a "perfect storm", exposing the Company to the risk
2 of reduced cash flows and unrecovered power supply costs.
3 In response to the risks inherent in substantial reliance
4 on wholesale power markets for electricity supply, and
5 recognizing the continuing uncertainty concerning the
6 availability of hydroelectric generation, Idaho Power has
7 proposed a plan to expand its electric utility system,
8 including the construction of additional generating
9 resources at Mountain Home. Accordingly, maintaining Idaho
10 Power's financial integrity and flexibility will be
11 instrumental in attracting the capital necessary to fund
12 these projects in an effective manner.

13 Q. What are the implications of the recent power
14 outages recently experienced in the upper Midwest and
15 Northeast?

16 A. These events underscore the continuing risks
17 inherent in the industry and the uncertain state of affairs
18 with respect to the industry's structure. The massive
19 blackout, which stretched from New York to Detroit and from
20 Ohio into Canada, was the largest power outage in U.S.
21 history. This single event has galvanized the attention of
22 all industry stakeholders - utilities, consumers,
23 regulators, and investors - on the urgent need to improve
24 the nation's electricity infrastructure, especially in
25 light of the additional stress that deregulated wholesale

1 markets have placed on the network. The importance of
2 rapidly stimulating investment in electric power
3 infrastructure has been almost universally cited as the key
4 to ensuring that further outages are avoided. As FERC
5 Chairman Wood noted:

6 If we draw any conclusions from this blackout, it
7 is the urgent need for more investment in the
8 nation's transmission grid to serve broad
9 regional needs.¹⁵

10 Indeed, as noted earlier, Idaho Power is committed to
11 expanding the scope and reliability of its utility system
12 in order to provide customers with reliable service while
13 attempting to insulate them from the potential impact of
14 power market anomalies.

15 Q. Are investors likely to consider the impact of
16 industry uncertainty in assessing their required rate of
17 return for Idaho Power?

18 A. Absolutely. While electric utility
19 restructuring has not been actively pursued in Idaho, the
20 Company continues to face the prospect of FERC-driven
21 changes in the transmission sector of their business, as
22 well as fundamental reforms in the operation of wholesale
23 markets.¹⁶ Idaho Power is an active participant in the
24 formation of a proposed RTO ("RTO West"), an independent
25 entity that will operate the transmission grid in seven
26 western states. While RTO West received Stage II approval

1 on investors' required rates of return for electric
2 utilities:

3 Because transmission assets are long lived,
4 regulatory uncertainty increases the risks to
5 investors and, therefore, increases the returns
6 they need to justify transmission system
7 investments.²⁰

8 In remarks before NARUC, a representative of MBIA Insurance
9 Corporation, the world's largest financial guaranty
10 insurance company, noted the increased risks posed by
11 inconsistent regulatory decision-making "have made access
12 to the capital markets very difficult and very expensive."²¹
13 Similarly, while the Consumer Energy Council of America
14 recognized that improvements in electric utility
15 infrastructure are necessary to ensure reliability and
16 support the economy, they concluded that regulatory
17 uncertainty "has contributed to a fear of instability for
18 the entire system".²²

19 The recent blackout has only served to reinforce the
20 importance of regulatory risks for investors. The Wall
21 Street Journal cited the debilitating impact of an
22 "unsteady regulatory environment" and the "chaotic
23 combination of regulated and deregulated markets" in
24 explaining inhibitions to increased investment in the
25 electric utility system.²³ Similarly, FERC Chairman Wood
26 concluded in his initial comments on the power outages

1 faced by electric utilities?

2 A. No. Apart from these factors, the industry
3 continues to face the normal risks inherent in operating
4 electric utility systems, including the potential adverse
5 effects of inflation, interest rate changes, growth, and
6 regulatory uncertainty and lag. Electric utilities are
7 confronting increased environmental pressures that leave
8 them exposed to uncertainties regarding emissions and
9 potential contamination. S&P recognized the potential
10 financial challenges posed by such uncertainties:

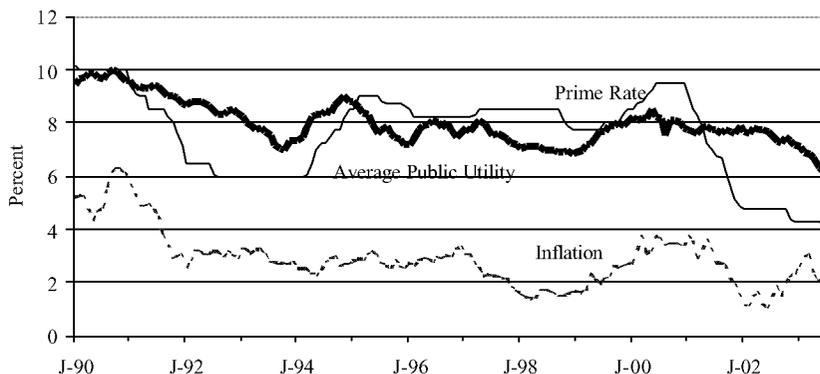
11 Pension obligations, environmental liabilities,
12 and serious legal problems restrict flexibility,
13 apart from the obligations' direct financial
14 implications.²⁷

C. Capital Markets and Economy

15 Q. What has been the pattern of interest rates
16 over the last decade?

17 A. Average long-term public utility bond rates,
18 the monthly average prime rate, and inflation as measured
19 by the consumer price index since 1990 are plotted in the
20 graph below. After rising to approximately 10 percent in
21 mid-1990, the average yield on long-term public utility
22 bonds generally fell as economic conditions weakened in the
23 aftermath of the 1991 Gulf war, with rates dipping below 7
24 percent in late 1993. Yields subsequently rose again in
25 1994, before beginning a general decline, with investors

1 requiring approximately 6.8 percent from average public
2 utility bonds in August 2003:



3 Q. Are investors likely to anticipate any
4 substantial decline in interest rates going forward?

5 A. No. Since early 2001, a great deal of
6 attention has been focused on the actions of the Federal
7 Reserve as they have moved successively to lower short-term
8 interest rates in response to weakness in the United States
9 economy. But while interest rates are currently at
10 relatively low levels, investors are unlikely to expect any
11 further significant declines going forward. The general
12 expectation is that, as economic growth strengthens,
13 interest rates will begin to rise. For example, the Energy
14 Information Administration ("EIA"), a statistical agency of
15 the DOE, routinely publishes a 25-year forecast for energy
16 markets and the nation's economy. The most recent
17 forecast, released November 20, 2002, anticipates that the
18 double-A public utility bond yield will increase from 6.90

1 percent in 2002 to 8.10 percent by 2005, with the average
2 being 7.49 percent over the next 10 years.²⁸ Similarly, the
3 most recent long-term projections from *GlobalInsight*
4 (formerly DRI/WEFA) anticipate that public utility bond
5 yields will increase to 8.19 percent by 2007 and average
6 approximately 7.8 percent over the intervening years.²⁹

7 Q. How has the market for common equity capital
8 performed?

9 A. Between 1990 and early 2000 stock prices
10 pushed steadily higher as the longest bull market in United
11 States history continued unabated. While the S&P 500 had
12 increased over four times in value by August 2000, mounting
13 concerns regarding prospects for future growth,
14 particularly for firms in the high technology and
15 telecommunications sectors, pushed equity prices lower, in
16 some cases precipitously. While equity prices have
17 recovered from recent lows, the market has become
18 increasingly volatile, with share values repeatedly
19 changing in full percentage points during a single day's
20 trading. The graph below plots the performances of the
21 Dow-Jones Industrial Average, the S&P 500, and the New York
22 Stock Exchange Utility Index since 1990 (the latter two
23 indices were scaled for comparability):

1 hiring. More recently, uncertainties over the fragility of
2 the economy have been magnified by the aftermath of war in
3 Iraq and ongoing instability in the Middle East, which
4 undermines consumer confidence and contributes to global
5 economic uncertainty. These factors cause the outlook to
6 remain tenuous, with persistent stock and bond price
7 volatility providing tangible evidence of the uncertainties
8 faced by the United States economy.

9 Q. How do these economic uncertainties affect
10 electric utilities?

11 A. The weakened state of the economy and the
12 uncertainty of recovery have combined to heighten the risks
13 faced by electric utilities. Stagnant economic growth
14 would undoubtedly mean flat electric sales, while the
15 potential for higher inflation and interest rates that
16 would likely accompany an economic recovery would place
17 additional pressure on the adequacy of existing service
18 rates. While the economy may ultimately return to a path
19 of steady growth and the volatility in the capital and
20 energy markets may abate, the underlying weaknesses now
21 present cause considerable uncertainties to persist, which
22 increase the risks faced by the electric utility industry.

III. CAPITAL MARKET ESTIMATES

23 Q. What is the purpose of this section?

1 A. In this section, capital market estimates of
2 the cost of equity are developed for a benchmark group of
3 electric utilities. First, I examine the concept of the
4 cost of equity, along with the risk-return tradeoff
5 principle fundamental to capital markets. Next, DCF and
6 risk premium analyses are conducted to estimate the cost of
7 equity for a reference group of electric utilities.

A. Economic Standards

8 Q. What role does the rate of return on common
9 equity play in a utility's rates?

10 A. The return on common equity is the cost of
11 inducing and retaining investment in common shares. This
12 investment is necessary to finance the asset base needed to
13 provide utility service. Competition for investor funds is
14 intense and investors are free to invest their funds
15 wherever they choose. They will commit money to a
16 particular investment only if they expect it to produce a
17 return commensurate with those from other investments with
18 comparable risks. Moreover, the return on common equity is
19 integral in achieving the sound regulatory objectives of
20 rates that are sufficient to: 1) fairly compensate capital
21 investment in the utility, 2) enable the utility to offer a
22 return adequate to attract new capital on reasonable terms,
23 and 3) maintain the utility's financial integrity.

24 Q. What fundamental economic principle underlies

1 this cost of equity concept?

2 A. Unlike debt capital, there is no contractually
3 guaranteed return on common equity capital since
4 shareholders are the residual owners of the utility.
5 Nonetheless, common equity investors still require a return
6 on their investment, with the cost of equity being the
7 minimum "rent" that must be paid for the use of their
8 money. This cost of equity typically serves as the
9 starting point for determining a fair rate of return on
10 common equity.

11 The cost of equity concept is predicated on the
12 notion that investors are risk averse and willingly bear
13 additional risk only if paid for doing so. In capital
14 markets where relatively risk-free assets are available
15 (e.g., U.S. Treasury securities) investors can be induced
16 to hold more risky assets only if they are offered a
17 premium, or additional return, above the rate of return on
18 a risk-free asset. Since all assets - including debt and
19 equity - compete with each other for scarce investors'
20 funds, more risky assets must yield a higher expected rate
21 of return than less risky assets in order for investors to
22 be willing to hold them.

23 Given this risk-return tradeoff, the required rate
24 of return (k) from an asset (i) can be generally expressed
25 as:

1 $k_i = R_f + RP_i$

2 where: R_f = Risk-free rate of return; and
3 RP_i = Risk premium required to hold risky
4 asset i.

5 Thus, the required rate of return for a particular asset at
6 any point in time is a function of: 1) the yield on risk-
7 free assets, and 2) its relative risk, with investors
8 demanding correspondingly larger risk premiums for assets
9 bearing greater risk.

10 Q. Does the risk-return tradeoff principle
11 actually operate in the capital markets?

12 A. Yes. The risk-return tradeoff is observable
13 in certain segments of the capital markets where required
14 rates of return can be directly inferred from market data
15 and generally accepted measures of risk exist. Bond
16 yields, for example, reflect investors' expected rates of
17 return, and bond ratings measure the risk of individual
18 bond issues. The observed yields on government securities,
19 which are considered free of default risk, and bonds of
20 various rating categories demonstrate that the risk-return
21 tradeoff does, in fact, exist in the capital markets.

22 Q. Does the risk-return tradeoff observed with
23 fixed income securities extend to common stocks and other
24 assets?

25 A. It is generally accepted that the risk-return
26 tradeoff evidenced with long-term debt extends to all

1 assets. Documenting the risk-return tradeoff for assets
2 other than fixed income securities, however, is complicated
3 by two factors. First, there is no standard measure of
4 risk applicable to all assets. Second, for most assets -
5 including common stock - required rates of return cannot be
6 directly observed. Nevertheless, it is a fundamental tenet
7 that investors exhibit risk aversion in deciding whether or
8 not to hold common stocks and other assets, just as when
9 choosing among fixed income securities. This has been
10 supported and demonstrated by considerable empirical
11 research in the field of finance and is confirmed by
12 reference to historical earned rates of return, with
13 realized rates of return on common stocks exceeding those
14 on government and corporate bonds over the long-term.

15 Q. Is this risk-return tradeoff limited to
16 differences between firms?

17 A. No. The risk-return tradeoff principle
18 applies not only to investments in different firms, but
19 also to different securities issued by the same firm.
20 Debt, preferred stock, and common equity vary considerably
21 in risk because they have different characteristics and
22 priorities.

23 When investors loan money to a utility in the form
24 of long-term debt (or bonds), they enter into a contract
25 under which the utility agrees to pay a specified amount of

1 higher than the yield on the utility's long-term debt.

2 Q. What does the above discussion imply with
3 respect to estimating the cost of equity?

4 A. Although the cost of equity cannot be observed
5 directly, it is a function of the prospective returns
6 available from other investment alternatives and the risks
7 to which the equity capital is exposed. Because it is
8 unobservable, the cost of equity for a particular utility
9 must be estimated by analyzing information about capital
10 market conditions generally, assessing the relative risks
11 of the company specifically, and employing various
12 quantitative methods that focus on investors' current
13 required rates of return. These various quantitative
14 methods typically attempt to infer investors' required
15 rates of return from stock prices, interest rates, or other
16 capital market data.

17 Q. Have you relied on a single method to estimate
18 the cost of equity for Idaho Power?

19 A. No. In my opinion, no single method or model
20 should be relied upon to determine a utility's cost of
21 equity because no single approach can be regarded as wholly
22 reliable. As the Federal Communications Commission
23 recognized:

24 Equity prices are established in highly volatile
25 and uncertain capital markets... Different
26 forecasting methodologies compete with each other

1 for eminence, only to be superceded by other
2 methodologies as conditions change... In these
3 circumstances, we should not restrict ourselves
4 to one methodology, or even a series of
5 methodologies, that would be applied
6 mechanically. Instead, we conclude that we
7 should adopt a more accommodating and flexible
8 position.³⁰

9 Therefore, in addition to the DCF model, I applied
10 the risk premium method based on data for electric
11 utilities and using forward-looking estimates of required
12 rates of return. In addition, I also evaluated my results
13 using a comparable earnings approach based on investors'
14 current expectations in the capital markets. In my
15 opinion, comparing estimates produced by one method with
16 those produced by other approaches ensures that the
17 estimates of the cost of equity pass fundamental tests of
18 reasonableness and economic logic.

B. Discounted Cash Flow Analyses

19 Q. How are DCF models used to estimate the cost
20 of equity?

21 A. The use of DCF models is essentially an
22 attempt to replicate the market valuation process that sets
23 the price investors are willing to pay for a share of a
24 company's stock. The model rests on the assumption that
25 investors evaluate the risks and expected rates of return
26 from all securities in the capital markets. Given these
27 expected rates of return, the price of each stock is

1 adjusted by the market until investors are adequately
2 compensated for the risks they bear. Therefore, we can
3 look to the market to determine what investors believe a
4 share of common stock is worth. By estimating the cash
5 flows investors expect to receive from the stock in the way
6 of future dividends and capital gains, we can calculate
7 their required rate of return. In other words, the cash
8 flows that investors expect from a stock are estimated, and
9 given its current market price, we can "back-into" the
10 discount rate, or cost of equity, that investors
11 presumptively used in bidding the stock to that price.

12 Q. What market valuation process underlies DCF
13 models?

14 A. DCF models are derived from a theory of
15 valuation which assumes that the price of a share of common
16 stock is equal to the present value of the expected cash
17 flows (i.e., future dividends and stock price) that will be
18 received while holding the stock, discounted at investors'
19 required rate of return, or the cost of equity.

20 Notationally, the general form of the DCF model is as
21 follows:

$$22 \quad P_0 = \frac{D_1}{(1+k_e)^1} + \frac{D_2}{(1+k_e)^2} + \dots + \frac{D_t}{(1+k_e)^t} + \frac{P_t}{(1+k_e)^t}$$

23 where: P_0 = Current price per share;
24 P_t = Expected future price per share in
25 period t;

1 Given these assumptions, the general form of the DCF model
2 can be reduced to the more manageable formula of:

$$3 \quad P_0 = \frac{D_1}{k_e - g}$$

4 Where: g = Investors' long-term growth
5 expectations.

6 The cost of equity (Ke) can be isolated by rearranging
7 terms:

$$8 \quad k_e = \frac{D_1}{P_0} + g$$

9 This constant growth form of the DCF model recognizes that
10 the rate of return to stockholders consists of two parts:
11 1) dividend yield (D_1/P_0), and 2) growth (g). In other
12 words, investors expect to receive a portion of their total
13 return in the form of current dividends and the remainder
14 through price appreciation.

15 Q. Are the assumptions underlying the constant
16 growth form of the DCF model always fully met?

17 A. In practice, none of the assumptions required
18 to convert the general form of the DCF model to the
19 constant growth form are ever strictly met. Nevertheless,
20 where earnings are derived from stable activities, and
21 earnings, dividends, and book value track fairly closely,
22 the constant growth form of the DCF model may be a
23 reasonable working approximation of stock valuation that

1 can provide useful insight as to investors' required rate
2 of return.

3 Q. How did you implement the DCF model to
4 estimate the cost of equity for Idaho Power?

5 A. Application of the DCF model directly to Idaho
6 Power is hindered because, as a wholly-owned subsidiary,
7 the Company does not have publicly traded common stock.
8 Meanwhile, as discussed earlier, Idaho Power and, in turn,
9 IDACORP recently elected to cut common dividend payments
10 significantly in order to improve cash flow and help
11 maintain the strong credit ratings necessary to support the
12 Company's capital expansion plan. Under the DCF approach,
13 observable stock prices are a function of the cash flows
14 that investors' expected to receive, discounted at their
15 required rate of return. Because dividend payments are a
16 key parameter required to apply DCF methods, this approach
17 is not well-suited for firms that do not pay common
18 dividends or have recently cut their payout.

19 As an alternative, the cost of equity is often
20 estimated by applying the DCF model to publicly traded
21 companies engaged in the same business activity. In order
22 to reflect the risks and prospects associated with Idaho
23 Power's jurisdictional utility operations, my DCF analyses
24 focused on a reference group of other electric utilities
25 composed of those companies included by Value Line in their

1 Electric Utilities (West) Industry group. Excluded from my
2 analyses were four firms that do not pay common dividends
3 and two that were rated below investment grade by S&P.³¹
4 Given that these eight utilities are all engaged in
5 electric utility operations in the western region of the
6 U.S., investors are likely to regard this group as facing
7 similar market conditions and having comparable risks and
8 prospects. There are important factors distinguishing
9 western utilities from those located in other regions, as
10 the Electric Consumers Resource Council recently reported:

11 The West is different than the East in terms of
12 electricity grid operations, according to Marsha
13 Smith, a Commissioner with the Idaho Public
14 Utilities Commission and Chair of (NARUC). ...
15 The vast geographic areas served by western
16 utilities mean electricity is being transmitted
17 over much longer distances than in other regions,
18 particularly the East, and there are fewer
19 customers per mile of transmission line,
20 resulting in greater line loss, Ms. Smith said.

21 She also said the West's reliance on
22 hydroelectric energy makes planning more
23 difficult than in the East. Hydropower cannot be
24 forecast, and the amount of winter snow
25 determines how much may be shipped each spring
26 and summer to power-dependent areas such as
27 California. Reliance on hydropower makes long-
28 term planning difficult and plays havoc with the
29 day-ahead market, envisioned in FERC's proposed
30 standard market design (SMD) rule.³²

31 Indeed, as noted earlier, the uncertainties associated with
32 relying on hydroelectric generation is an important
33 consideration in evaluating investors' required rate of

1 return for Idaho Power.

2 Q. What other considerations support the use of a
3 proxy group in estimating the cost of equity for Idaho
4 Power?

5 A. Apart from recognizing the inherent risks and
6 prospects for an electric utility operating in the west,
7 reference to a proxy group of electric utilities is
8 essential to insulate against vagaries that can result when
9 the stochastic process involved in estimating the cost of
10 equity is applied to a single company. The cost of equity
11 is inherently unobservable and can only be inferred
12 indirectly by reference to available capital market data.
13 To the extent that the data used to apply the DCF model
14 does not capture the expectations that investors have
15 incorporated into current stock prices, the resulting cost
16 of equity estimates will be biased. For example, the
17 potential for mergers or acquisitions or the announced sale
18 of a major business segment would undoubtedly influence the
19 price investors would be willing to pay for a utility's
20 common stock. But because such factors are not typically
21 reflected in the growth rates used to apply the DCF model,
22 cost of equity estimates for any single company may fail to
23 reflect investors' required rate of return. Indeed, using
24 even a limited group of companies increases the potential
25 for error, as the FERC noted in its July 3, 2003 *Order on*

1 *Initial Decision* in Docket No. RP00-107-000:

2 Both Staff and Williston agreed that a proxy
3 group of only three companies presented problems
4 because "a single company will have a magnified
5 influence on the group results." It was with
6 those changing market dynamics in mind that
7 witnesses of both Staff and Williston proposed to
8 expand the group of proxy companies to determine
9 a zone of reasonableness.³³

10 A proxy group composed of western electric utilities is
11 consistent not only with the shared circumstances of
12 electric power markets in the west, but also with the need
13 to ensure against the potential that a single cost of
14 equity estimate may not reflect investors' required rate of
15 return.

16 Q. What form of the DCF model did you use?

17 A. I applied the constant growth DCF model to
18 estimate the cost of equity for Idaho Power, which is the
19 form of the model most commonly relied on to establish the
20 cost of equity for traditional regulated utilities and the
21 method most often referenced by regulators.

22 Other forms of the general, or non-constant DCF
23 model, such as "two-stage" or "multi-stage" analyses can be
24 used to estimate the cost of equity; however, such
25 approaches increase the number of inputs that must be
26 estimated and add to the computational difficulties. While
27 such methods might be warranted when investors expect a
28 discontinuity in the operations of a particular firm or

1 industry, they generally require several very specific
2 assumptions regarding investors' expected cash flows that
3 must occur at given points in the future. This makes the
4 results of non-constant growth DCF applications sensitive
5 to changes in assumptions and, therefore, subject to
6 greater controversy in a rate case setting.

7 Moreover, to the that extent each of these time-
8 specific suppositions about future cash flows do not
9 reflect what real-world investors actually anticipate, the
10 resulting cost of equity estimate will be biased. Indeed,
11 the benchmark for growth in a DCF model is what investors
12 expect when they purchase stock. Unless we replicate
13 investors' thinking, we cannot uncover their required
14 returns and thus the market cost of equity. In practice,
15 applying a non-constant DCF model would lead to error if it
16 ignores the requirements of real-world investors.

17 Q. Are there circumstances where a multi-stage
18 DCF model might be preferable to the constant growth form?

19 A. Yes. The greater complexity of the non-
20 constant growth DCF model is sometimes warranted when it is
21 evident that investors anticipate a well-defined shift in
22 growth rates over the horizon of their expectations. For
23 example, in response to structural reforms introduced in
24 the early 1990s, it was widely anticipated that certain
25 segments of the electric power industry would transition

1 from fully regulated to competitive businesses. Because of
2 the difficulty associated with capturing these expectations
3 in the single growth measure of the constant growth DCF
4 model, many witnesses, including myself, chose to apply a
5 multi-stage approach. A number of regulatory commissions
6 also departed from the simplicity of the constant growth
7 DCF model that they had traditionally favored in order to
8 recognize the transition to competition that was
9 anticipated by investors.

10 But acceptance of the multi-stage DCF model was
11 predicated on very specific assumptions tailored to
12 investors' actual expectations at the time. As discussed
13 earlier, however, investors are no longer anticipating that
14 such a transition will take place going forward. Broad-
15 reaching structural changes once anticipated by investors
16 at the state and federal levels have been largely
17 effectuated to the extent investors expect them to occur.
18 In the minds of investors, any new initiatives focused on
19 deregulation of the electric utility industry at the retail
20 level have been indefinitely postponed or abandoned
21 altogether. This is certainly true in Idaho, where retail
22 deregulation is not being actively pursued.

23 While the complexity of non-constant DCF models may
24 impart an aura of accuracy, there is no evidence that
25 investors' current view of electric utilities anticipates a

1 series of discrete, clearly defined stages. As a result,
2 despite the considerable uncertainties now confronting the
3 electric utility industry, there is no discernable
4 transition that would support use of the multi-stage DCF
5 approach.

6 Q. How is the constant growth form of the DCF
7 model typically used to estimate the cost of equity?

8 A. The first step in implementing the constant
9 growth DCF model is to determine the expected dividend
10 yield (D_1/P_0) for the firm in question. This is usually
11 calculated based on an estimate of dividends to be paid in
12 the coming year divided by the current price of the stock.
13 The second, and more controversial, step is to estimate
14 investors' long-term growth expectations (g) for the firm.
15 Since book value, dividends, earnings, and price are all
16 assumed to move in lock-step in the constant growth DCF
17 model, estimates of expected growth are sometimes derived
18 from historical rates of growth in these variables under
19 the presumption that investors expect these rates of growth
20 to continue into the future. Alternatively, a firm's
21 internal growth can be estimated based on the product of
22 its earnings retention ratio and earned rate of return on
23 equity. This growth estimate may rely on either historical
24 or projected data, or both. A third approach is to rely on
25 security analysts' projections of growth as proxies for

1 investors' expectations. The final step is to sum the
2 firm's dividend yield and estimated growth rate to arrive
3 at an estimate of its cost of equity.

4 Q. How was the dividend yield for the reference
5 group of electric utilities determined?

6 A. Estimates of dividends to be paid by each of
7 these electric utilities over the next twelve months,
8 obtained from Value Line, served as D_1 . This annual
9 dividend was then divided by the corresponding stock price
10 for each utility to arrive at the expected dividend yield.
11 The expected dividends, stock price, and resulting dividend
12 yields for the firms in the reference group of electric
13 utilities are presented on Exhibit No. 5. As shown there,
14 dividend yields for the eight firms in the electric utility
15 proxy group ranged from 3.2 percent to 6.0 percent, with
16 the average being 4.4 percent.

17 Q. What are investors most likely to consider in
18 developing their long-term growth expectations?

19 A. In constant growth DCF theory, earnings,
20 dividends, book value, and market price are all assumed to
21 grow in lockstep and the growth horizon of the DCF model is
22 infinite. But implementation of the DCF model is more than
23 just a theoretical exercise; it is an attempt to replicate
24 the mechanism investors used to arrive at observable stock
25 prices. Thus, the only "g" that matters in applying the

1 DCF model is that which investors expect and have embodied
2 in current market prices. While the uncertainties inherent
3 with common stock make estimating investors' growth
4 expectations a difficult task for any company, in the case
5 of electric utilities, the problem is exacerbated due to
6 the ongoing turmoil in the power industry.

7 Q. Are dividend growth rates likely to provide a
8 meaningful guide to investors' growth expectations for
9 electric utilities?

10 A. No. While the dividend yield is an important
11 component of DCF applications and investors look to
12 dividends as one indicator of a firm's financial health,
13 trends in dividends are unlikely to reflect the long-term
14 "g" presumed by the DCF model. As illustrated by the
15 recent decision of the Board and IDACORP to significantly
16 reduce their payout, dividend policies for electric
17 utilities have become increasingly conservative as business
18 risks in the industry have become more accentuated. Thus,
19 while earnings may be expected to grow significantly,
20 dividends have remained largely stagnant as utilities
21 conserve financial resources to provide a hedge against
22 heightened uncertainties. Investors' focus has
23 increasingly shifted from dividends to earnings as a
24 measure of long-term growth as payout ratios for firms in
25 the electric utility industry have been trending downward

1 from approximately 80 percent historically to on the order
2 of 65 percent.³⁴ As a result, growth in earnings, which
3 ultimately support future dividends and share prices, is
4 likely to provide a more meaningful guide to investors'
5 long-term growth expectations.

6 Q. What other evidence suggests that investors
7 are more apt to consider trends in earnings in developing
8 growth expectations?

9 A. The importance of earnings in evaluating
10 investors' expectations and requirements is well accepted
11 in the investment community. As noted in *Finding Reality*
12 *in Reported Earnings* published by the Association for
13 Investment Management and Research:

14 [E]arnings, presumably, are the basis for the
15 investment benefits that we all seek. "Healthy
16 earnings equal healthy investment benefits" seems
17 a logical equation, but earnings are also a
18 scorecard by which we compare companies, a filter
19 through which we assess management, and a crystal
20 ball in which we try to foretell the future.³⁵

21 Value Line's near-term projections and its Timeliness Rank,
22 which is the principal investment rating assigned to each
23 individual stock, are also based primarily on various
24 quantitative analyses of earnings. As Value Line
25 explained:

26 The future earnings rank accounts for 65% in the
27 determination of relative price change in the
28 future; the other two variables (current earnings

1 rank and current price rank) explain 35%.³⁶
2 The fact that investment advisory services, such as Value
3 Line and I/B/E/S International, Inc. ("IBES"), focus on
4 growth in earnings indicates that the investment community
5 regards this as a superior indicator of future long-term
6 growth. Indeed, Financial Analysts Journal reported the
7 results of a survey conducted to determine what analytical
8 techniques investment analysts actually use.³⁷ Respondents
9 were asked to rank the relative importance of earnings,
10 dividends, cash flow, and book value in analyzing
11 securities. Of the 297 analysts that responded, only 3
12 ranked dividends first while 276 ranked it last. The
13 article concluded:

14 Earnings and cash flow are considered far more
15 important than book value and dividends.³⁸

16 Q. What are security analysts currently
17 projecting in the way of earnings growth for the firms in
18 the electric utility proxy group?

1 A. The consensus earnings growth projections for
2 each of the firms in the reference group of electric
3 utilities reported by IBES and published in S&P's Earnings
4 Guide are shown on Exhibit No. 6. Also presented are the
5 earnings growth projections reported by Value Line, First
6 Call Corporation ("First Call"), and Multex Investor
7 ("Multex"), which is a service of Reuters. As shown there,
8 with the exception of Value Line's estimates, these
9 security analysts' projections suggested growth the order
10 of 5.0 to 5.5 percent for the reference group of electric
11 utilities:

Electric Utility Proxy Group

<u>Service</u>	<u>Growth Rate</u>
<i>IBES</i>	5.3%
<i>Value Line</i>	2.7%
<i>First Call</i>	5.5%
<i>Multex</i>	5.0%

12 Q. What other earnings growth rates might be
13 relevant in assessing investors' current expectations for
14 electric utilities?

15 A. Short-term projected growth rates may be
16 colored by current uncertainties regarding the near-term
17 direction of the economy in general and the spate of
18 challenges faced in the electric power industry
19 specifically. Consider the example of Value Line, which
20 recently noted that the electric utility industry "is still

1 in a state of flux"³⁹ and that:

2 ...this industry still faces problems. The after-
3 effects of the turbulence in the power markets
4 still exist, some companies are stressed
5 financially, and even for traditional utilities,
6 regulatory risk is often a potential problem.⁴⁰

7 Value Line also reduced its Timeliness ranking, a relative
8 measure of year-ahead stock price performance for the 98
9 industries it covers, for the electric utility industry
10 from 70 to 89. While this cautious outlook may explain the
11 fact that Value Line's near-term growth estimates are out
12 of line with other analysts' projections, it is not
13 necessarily indicative of investors' long-term expectations
14 for the industry.

15 Given the unsettled conditions in the economy and
16 electric utility industry over the near-term, historical
17 growth in earnings might also provide a meaningful guide to
18 investors' future expectations. Accordingly, earnings
19 growth rates for the past 10- and 5-year periods reported
20 by Value Line for the firms in the electric utility group
21 are also presented on Exhibit No. 6. As shown there, 10-
22 year historical earnings growth rates for the group of
23 eight electric utilities averaged 7.3 percent, or 8.1
24 percent over the most recent 5 year period.

25 Q. How else are investors' expectations of future
26 long-term growth prospects often estimated for use in the

1 constant growth DCF model?

2 A. In constant growth theory, growth in book
3 equity will be equal to the product of the earnings
4 retention ratio (one minus the dividend payout ratio) and
5 the earned rate of return on book equity. Furthermore, if
6 the earned rate of return and payout ratio are constant
7 over time, growth in earnings and dividends will be equal
8 to growth in book value. Although these conditions are
9 seldom, if ever, met in practice, this approach may provide
10 investors with a rough guide for evaluating a firm's growth
11 prospects. Accordingly, conventional applications of the
12 constant growth DCF model often examine the relationships
13 between retained earnings and earned rates of return as an
14 indication of the growth investors might expect from the
15 reinvestment of earnings within a firm.

16 Q. What growth rate does the earnings retention
17 method suggest for the reference group of electric
18 utilities?

19 A. The sustainable, "b x r" growth rates for each
20 firm in the reference group is shown on Exhibit No. 7. For
21 each firm, the expected retention ratio (b) was calculated
22 based on Value Line's projected dividends and earnings per
23 share. Likewise, each firm's expected earned rate of
24 return (r) was computed by dividing projected earnings per
25 share by projected net book value. As shown there, this

1 method resulted in an average expected growth rate for the
2 group of electric utilities of 4.7 percent.

3 Q. What did you conclude with respect to
4 investors' growth expectations for the reference group of
5 electric utilities?

6 A. I concluded that investors currently expect
7 growth on the order of 5.0 to 7.0 percent for the average
8 firm in the electric utility proxy group. This
9 determination was based on the growth projections discussed
10 above, but giving little weight to Value Line's
11 projections, which deviated significantly from the more
12 broadly-based consensus growth rate projections reported by
13 IBES, First Call, and Multex, as well as past experience.

14 Q. What cost of equity was implied for the
15 reference group of electric utilities using the DCF model?

16 A. Combining the 4.4 percent average dividend
17 yield with the 6.0 percent midpoint of my representative
18 growth rate range implied a DCF cost of equity for this
19 group of electric utilities of 10.4 percent.

C. Risk Premium Analyses

20 Q. What other analyses did you conduct to
21 estimate the cost of equity?

22 A. As I have mentioned previously, because the
23 cost of equity is inherently unobservable, no single method
24 should be considered a solely reliable guide to investors'

1 required rate of return. Accordingly, I also evaluated the
2 cost of equity for Idaho Power using risk premium methods.
3 My applications of the risk premium method provide
4 alternative approaches to measure equity risk premiums that
5 focused specifically on data for electric utilities and
6 forward-looking estimates of investors' required rates of
7 return.

8 Q. Briefly describe the risk premium method.

9 A. The risk premium method of estimating
10 investors' required rate of return extends to common stocks
11 the risk-return tradeoff observed with bonds. The cost of
12 equity is estimated by first determining the additional
13 return investors require to forgo the relative safety of
14 bonds and to bear the greater risks associated with common
15 stock, and then adding this equity risk premium to the
16 current yield on bonds. Like the DCF model, the risk
17 premium method is capital market oriented. However, unlike
18 DCF models, which indirectly impute the cost of equity,
19 risk premium methods directly estimate investors' required
20 rate of return by adding an equity risk premium to
21 observable bond yields.

22 Q. How did you implement the risk premium method?

23 A. The actual measurement of equity risk premiums
24 is complicated by the inherently unobservable nature of the
25 cost of equity. In other words, like the cost of equity

1 itself and the growth component of the DCF model, equity
2 risk premiums cannot be calculated precisely. Therefore,
3 equity risk premiums must be estimated, with adjustments
4 being required to reflect present capital market conditions
5 and the relative risks of the groups being evaluated.

6 I based my estimates of equity risk premiums for
7 electric utilities on (1) surveys of previously authorized
8 rates of return on common equity for electric utilities,
9 (2) realized rates of return on electric utility common
10 stocks; and (3) forward-looking applications of the Capital
11 Asset Pricing Model ("CAPM"). Authorized returns
12 presumably reflect regulatory commissions' best estimates
13 of the cost of equity, however determined, at the time they
14 issued their final order, and the returns provide a logical
15 basis for estimating equity risk premiums. Under the
16 realized-rate-of-return approach, equity risk premiums are
17 calculated by measuring the rate of return (including
18 dividends, interest, and capital gains and losses) actually
19 realized on an investment in common stocks and bonds over
20 historical periods. The realized rate of return on bonds
21 is then subtracted from the return earned on electric
22 utility common stocks to measure equity risk premiums. The
23 CAPM approach measures the market-expected return for a
24 security as the sum of a risk-free rate and a risk premium
25 based on the portion of a security's risk that cannot be

1 eliminated by holding a well-diversified portfolio. Under
2 the CAPM, risk is represented by the beta coefficient (β),
3 which measures the volatility of a security's price
4 relative to the market at a whole. Even before the widely
5 cited study by Eugene F. Fama and Kenneth R. French,⁴¹
6 considerable controversy surrounded the validity of beta as
7 a relevant measure of a utility's investment risk.
8 Nevertheless, the CAPM is routinely referenced in the
9 financial literature and in regulatory proceedings.

10 While these methods are premised on different
11 assumptions, each having their own strengths and
12 weaknesses, they are widely accepted approaches that have
13 been routinely referenced in estimating the cost of equity
14 for regulated utilities.

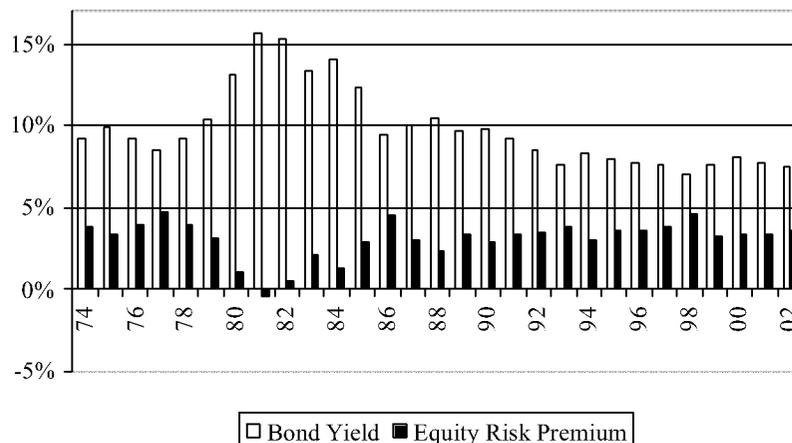
15 Q. How did you implement the risk premium
16 approach using surveys of allowed rates of return?

17 A. While the purest form of the survey approach
18 would involve querying investors directly, surveys of
19 previously authorized rates of return on common equity are
20 frequently referenced as the basis for estimating equity
21 risk premiums. The rates of return on common equity
22 authorized electric utilities by regulatory commissions
23 across the U.S. are compiled by Regulatory Research
24 Associates ("RRA") and published in its Regulatory Focus
25 report. In Exhibit No. 8, the average yield on public

1 utility bonds is subtracted from the average allowed rate
2 of return on common equity for electric utilities to
3 calculate equity risk premiums for each year between 1974
4 and 2002. Over this 29-year period, these equity risk
5 premiums for electric utilities averaged 3.08 percent, and
6 the yield on public utility bonds averaged 9.81 percent.

7 Q. Is there any risk premium behavior that needs
8 to be considered when implementing the risk premium method?

9 A. Yes. There is considerable evidence that the
10 magnitude of equity risk premiums is not constant and that
11 equity risk premiums tend to move inversely with interest
12 rates. In other words, when interest rate levels are
13 relatively high, equity risk premiums narrow, and when
14 interest rates are relatively low, equity risk premiums
15 widen. To illustrate, the graph below plots the yields on
16 public utility bonds (shaded bars) and equity risk premiums
17 (solid bars) shown on Exhibit No. 8:



1 The graph clearly illustrates that the higher the level of
2 interest rates, the lower the equity risk premium, and vice
3 versa. The implication of this inverse relationship is
4 that the cost of equity does not move as much as, or in
5 lockstep with, interest rates. Accordingly, for a 1
6 percent increase or decrease in interest rates, the cost of
7 equity may only rise or fall, say, 50 basis points.
8 Therefore, when implementing the risk premium method,
9 adjustments may be required to incorporate this inverse
10 relationship if current interest rate levels have changed
11 since the equity risk premiums were estimated.

12 Q. What cost of equity is implied by surveys of
13 allowed rates of return on equity?

14 A. As illustrated above, the inverse relationship
15 between interest rates and equity risk premiums is evident.
16 Based on the regression output between the interest rates
17 and equity risk premiums displayed at the bottom of Exhibit
18 No. 8, the equity risk premium for electric utilities
19 increased approximately 43 basis points for each percentage
20 point drop in the yield on average public utility bonds.
21 As shown there, with the yield on public utility bonds in
22 August 2003 being 302 basis points lower than the average
23 for the study period, this implied a current equity risk
24 premium of 4.39 percent for electric utilities. Adding
25 this equity risk premium to the August 2003 yield on

1 single-A public utility bonds of 6.79 percent implies a
2 current cost of equity for Idaho Power of approximately
3 11.2 percent.

4 Q. How did you apply the realized-rate-of-return
5 approach?

6 A. Widely used in academia, the realized-rate-of-
7 return approach is based on the assumption that, given a
8 sufficiently large number of observations over long
9 historical periods, average realized market rates of return
10 will converge to investors' required rates of return. From
11 a more practical perspective, investors may base their
12 expectations for the future on, or may have come to expect
13 that they will earn, rates of return corresponding to those
14 realized in the past.⁴² By focusing on data for electric
15 utilities specifically, my realized rate of return approach
16 avoided the need to make assumptions regarding relative
17 risk (e.g., beta) that are often embodied in applications
18 of this method.

19 Stock price and dividend data for the electric
20 utilities included in the S&P 500 Composite Index ("S&P
21 500") are available since 1946. Exhibit No. 9 presents
22 annual realized rates of return for these electric
23 utilities in each year between 1946 and 2002. As shown
24 there, over this 57-year period realized rates of return
25 for these utilities have exceeded those on single-A public

1 utility bonds by an average of 4.01 percent. The realized-
2 rate-of-return method ignores the inverse relationship
3 between equity risk premiums and interest rates and assumes
4 that equity risk premiums are stationary over time;
5 therefore, no adjustment for differences between historical
6 and current interest rate levels was made. Adding this
7 4.01-percent equity risk premium to the August 2003 yield
8 of 6.79 percent on single-A public utility bonds suggests a
9 current cost of equity for Idaho Power of approximately
10 10.8 percent.

11 Q. Please describe your application of the CAPM.

12 A. The CAPM is a theory of market equilibrium
13 that measures risk using the beta coefficient. Under the
14 CAPM, investors are assumed to be fully diversified, so the
15 relevant risk of an individual asset (e.g., common stock)
16 is its volatility relative to the market as a whole. Beta
17 reflects the tendency of a stocks price to follow changes
18 in the market. A stock that tends to respond less to
19 market movements has a beta less than 1.00, while stocks
20 that tend to move more than the market have betas greater
21 than 1.00. The CAPM is mathematically expressed as:

22
$$R_j = R_f + \beta_j (R_m - R_f)$$

23 Where: R_j = required rate of return for stock j ;
24 R_f = risk-free rate;
25 R_m = expected return on the market
26 portfolio; and,

1 group is presently in the 10.4 to 11.7 percent range.

2 Q. What other considerations are relevant in
3 setting the return on equity for a utility?

4 A. The common equity used to finance the
5 investment in utility assets is provided from either the
6 sale of stock in the capital markets or from retained
7 earnings not paid out as dividends. When equity is raised
8 through the sale of common stock, there are costs
9 associated with "floating" the new equity securities.
10 These flotation costs include services such as legal,
11 accounting, and printing, as well as the fees and discounts
12 paid to compensate brokers for selling the stock to the
13 public. Also, some argue that the "market pressure" from
14 the additional supply of common stock and other market
15 factors may further reduce the amount of funds a utility
16 nets when it issues common equity.

17 Q. Is there an established mechanism for a
18 utility to recognize equity issuance costs?

19 A. No. While debt flotation costs are recorded
20 on the books of the utility, amortized over the life of the
21 issue, and thus increase the effective cost of debt
22 capital, there is no similar accounting treatment to ensure
23 that equity flotation costs are recorded and ultimately
24 recognized. Alternatively, no rate of return is authorized
25 on flotation costs necessarily incurred to obtain a portion

1 of the equity capital used to finance plant. In other
2 words, equity flotation costs are not included in a
3 utility's rate base because neither that portion of the
4 gross proceeds from the sale of common stock used to pay
5 flotation costs is available to invest in plant and
6 equipment, nor are flotation costs capitalized as an
7 intangible asset. Unless some provision is made to
8 recognize these issuance costs, a utility's revenue
9 requirements will not fully reflect all of the costs
10 incurred for the use of investors' funds. Because there is
11 no accounting convention to accumulate the flotation costs
12 associated with equity issues, they must be accounted for
13 indirectly, with an upward adjustment to the cost of equity
14 being the most logical mechanism.

15 Q. What is the magnitude of the adjustment to the
16 "bare bones" cost of equity to account for issuance costs?

17 A. There are any number of ways in which a
18 flotation cost adjustment can be calculated, and the
19 adjustment can range from just a few basis points to more
20 than a full percent. One of the most common methods used
21 to account for flotation costs in regulatory proceedings is
22 to apply an average flotation-cost percentage to a
23 utility's dividend yield. Based on a review of the finance
24 literature, Roger A. Morin concluded:

25 The flotation cost allowance requires an

1 estimated adjustment to the return on equity of
2 approximately 5% to 10%, depending on the size
3 and risk of the issue.⁴³

4 Applying these expense percentages to a representative
5 dividend yield for an electric utility of 4.4 percent
6 implies a flotation cost adjustment on the order of 20 to
7 40 basis points.

8 Q. What then is your conclusion regarding a fair
9 rate of return on equity for the companies in your
10 benchmark group?

11 A. After incorporating a minimum adjustment for
12 flotation costs of 20 basis points to my "bare bones" cost
13 of equity range, I concluded that a fair rate of return on
14 equity for the proxy group of electric utilities is
15 currently in the 10.6 to 11.9 percent range.

IV. RETURN ON EQUITY FOR IDAHO POWER COMPANY

16 Q. What is the purpose of this section?

17 A. This section addresses the economic
18 requirements for Idaho Power's return on equity. It
19 examines other factors properly considered in determining a
20 fair rate of return, such as market perceptions of Idaho
21 Power's relative investment risks and comparable earnings
22 for utilities and industrial firms. This section also
23 discusses the relationship between ROE and preservation of
24 a utility's financial integrity and the ability to attract

1 capital.

A. Capital Structure

2 Q. Is an evaluation of the capital structure
3 maintained by a utility relevant in assessing its return on
4 equity?

5 A. Yes. Other things equal, a higher debt ratio,
6 or lower common equity ratio, translates into increased
7 financial risk for all investors. A greater amount of debt
8 means more investors have a senior claim on available cash
9 flow, thereby reducing the certainty that each will receive
10 his contractual payments. This increases the risks to
11 which lenders are exposed, and they require correspondingly
12 higher rates of interest. From common shareholders'
13 standpoint, a higher debt ratio means that there are
14 proportionately more investors ahead of them, thereby
15 increasing the uncertainty as to the amount of cash flow,
16 if any, that will remain.

17 Q. What common equity ratio is implicit in Idaho
18 Power's requested capital structure?

19 A. Idaho Power's capital structure is presented
20 in the testimony of Dennis C. Gribble. As summarized in
21 his testimony, the common equity ratio used to compute
22 Idaho Power's overall rate of return was approximately 44.7
23 percent.

24 Q. How does Idaho Power's common equity ratio

1 compare with those maintained by the reference group of
2 utilities?

3 A. For the eight firms in the Electric Utility
4 (West) group, common equity ratios at year-end 2002 ranged
5 from 37.4 percent to 60.6 percent and averaged 45.8
6 percent.

7 Q. How does Idaho Power's capital structure
8 compare with other widely cited financial benchmarks for
9 electric utilities?

10 A. The financial ratio guidelines published by
11 S&P specify a range for a utility's total debt ratio that
12 corresponds to each specific bond rating. Widely cited in
13 the investment community, these ratios are viewed in
14 conjunction with a utility's *business profile* ranking,
15 which ranges from 1 (strong) to 10 (weak) depending on a
16 utility's relative business risks. Thus, S&P's guideline
17 financial ratios for a given rating category (e.g., triple-
18 B) vary with the business or operating risk of the utility.
19 In other words, a firm with a *business profile* of "2"
20 (i.e., relatively lower business risk) could presumably
21 employ more financial leverage than a utility with a
22 business profile assessment of "9" while maintaining the
23 same credit rating.

24 Consistent with S&P's current guidelines and Idaho
25 Power's S&P *business profile* ranking of "4", a utility

1 would be required to maintain a ratio of total debt to
2 total capital of 46.0 percent to qualify for a single-A
3 bond rating.⁴⁴ This benchmark equates to total equity ratio
4 of 54.0 percent.

5 Q. What implication does the increasing risk of
6 the electric power industry have for the capital structures
7 maintained by utilities like Idaho Power?

8 A. The challenges imposed by evolving structural
9 changes in the industry imply that utilities will be
10 required to incorporate relatively greater amounts of
11 equity in their capital structures. Moody's noted early on
12 that utilities must adopt a more conservative financial
13 posture if credit ratings are to be maintained:

14 'The key issue,' says the analysts in a recent
15 special comment, "is that the competitive
16 industries have much lower operating and
17 financial leverage and that utilities must
18 streamline both in order to be effective
19 competitors." Analysts say the utilities must do
20 this in order to post stronger financial
21 indicators and maintain their current ratings
22 level.⁴⁵

23 More recently, Value Line reported that the average common
24 equity ratio for all firms in the electric utility industry
25 is expected to increase from 43 percent in 2003 to 50
26 percent over the next three to five years.⁴⁶ Indeed,
27 continued pressure on credit quality in the electric
28 industry is indicative of the need for utilities to

1 strengthen financial profiles to deal with an increasingly
2 uncertain market. S&P cited the inadequacy of current
3 balance sheets in the electric industry as one of the key
4 factors explaining this deterioration:

5 The downward slope in the power industry's credit
6 picture can be traced to higher debt leverage and
7 overall deterioration in financial profiles,
8 constrained access to capital markets as a result
9 of investor skepticism over accounting practices
10 and disclosure, liquidity problems, financial
11 insolvency, and investments outside the
12 traditional regulated utility business,
13 principally merchant generation facilities and
14 related energy marketing and trading activities.⁴⁷

15 A more conservative financial profile is consistent with
16 the increasing uncertainties associated with restructuring
17 in wholesale power markets and the imperative of
18 maintaining continuous access to capital, even during times
19 of adverse capital market and industry conditions.

20 Q. What other indications confirm the
21 reasonableness of Idaho Power's capital structure policies?

22 A. In the wake of Enron's collapse, bond rating
23 agencies and investors are closely scrutinizing debt
24 levels. For those firms with higher leverage, this intense
25 focus has led not only to ratings downgrades, but to
26 reduced access to capital and increased borrowing costs.
27 The Wall Street Journal reported that even firms with stock
28 prices at recent lows have been forced to issue new common
29 equity and quoted a credit analyst with Fitch, Inc.:

1 "[B]anks are fearful to put more money into the
2 sector" and it is making credit analysts nervous
3 as well. The smart companies, he says, are the
4 ones that voluntarily "get their balance sheets
5 in line" and the "let the market know they're in
6 charge of their destiny...since the market clearly
7 has the heebie-jeebies."⁴⁸

8 The article went on to note the crucial role that financial
9 flexibility plays in ensuring that the utility has the
10 wherewithal to meet the needs of customers:

11 All the belt tightening spells bad news for the
12 continued development of the nation's energy
13 infrastructure. Companies that can borrow more
14 money and stretch their dollars, quite simply,
15 can build more plants and equipment. Companies
16 that are increasingly dependent on equity
17 financing - particularly in a bear market - can
18 do less.⁴⁹

19 Q. What did you conclude with respect to Idaho
20 Power's requested capitalization?

21 A. Idaho Power's proposed capital structure is
22 in-line with the ranges maintained by the comparable group
23 of electric utilities, although its equity ratio falls
24 somewhat below the guideline specified by S&P for a single-
25 A rated utility. The reasonableness of Idaho Power's
26 requested capital structure is reinforced by the ongoing
27 uncertainties associated with the electric power industry,
28 the need to support system expansion, and the imperative of
29 maintaining continuous access to capital, even during times
30 of adverse industry and market conditions.

B. Other Factors

1 Q. How does Idaho Power's credit rating compare
2 to those of the reference groups?

3 A. Corporate credit ratings for the eight firms
4 in the Electric Utility (West) group used to estimate the
5 cost of equity range from "BBB-" to "A-". As noted
6 earlier, Idaho Power's senior debt is also currently rated
7 "A-", comparable to the firms in the benchmark group.

8 Q. What else should be considered in evaluating
9 the relative risks of Idaho Power?

10 A. Because approximately one-half of Idaho
11 Power's total energy requirements are provided by
12 hydroelectric facilities, the Company is exposed to a level
13 of uncertainty not faced by other utilities, which are less
14 dependent on hydro generation. While hydropower confers
15 advantages in terms of fuel cost savings and diversity,
16 investors also associated hydro facilities with risks that
17 are not encountered with other sources of generation.
18 Reduced hydroelectric generation due to below-average water
19 conditions forces Idaho Power to rely on less efficient
20 thermal generating capacity and purchased power to meet its
21 resource needs. As noted earlier, in the minds of
22 investors, this dependence on wholesale markets entails
23 significant risk, especially for a utility located in the
24 west. Indeed, the ongoing risks associated with

1 uncertainty in western power markets has been recognized by
2 the Commission. In declining to spread recovery of power
3 cost deferrals over multiple years, the Commission
4 recognized that:

5 ...the Commission is very concerned about the
6 unknown water and market conditions that lie
7 ahead. ...A one-year recovery will take care of
8 nearly all the deferred costs remaining from a
9 sustained period of extraordinarily high
10 wholesale prices at the same time that hydro-
11 dependent Idaho Power customers were experiencing
12 the second worst drought in 75 years. ...However,
13 as we have learned over the past two years, there
14 are no guarantees about future stream flows or
15 market prices.⁵⁰

16 Apart from exposure to market uncertainties, Idaho
17 Power also confronts the complexities associated with
18 obtaining the necessary licenses to operate its
19 hydroelectric stations. The process of relicensing is
20 prolonged and involved and often includes the
21 implementation of various measures to address environmental
22 and stakeholder concerns. These measures can impose
23 significant additional costs and/or lead to reduced
24 generating capacity and flexibility. Moody's recently
25 noted that "[Idaho Power's] rating outlook is negative as
26 the utility continues to cope with difficult power supply
27 markets in its region"⁵¹ and concluded the Company's bond
28 ratings could be reduced based on the following factors:

29 Continued delay in return to more normal hydro

1 and weather conditions in combination with
2 unexpected harsh treatment from Idaho regulators
3 in the upcoming general rate proceedings.
4 Significant increases in relicensing costs and/or
5 stringent operational constraints impose as part
6 of the license renewal process.⁵²

7 Similarly, S&P recently observed that:

8 Utilities in the Pacific Northwest continue to
9 face a host of challenges. If the western power
10 crisis left a large number of them, investor-
11 owned as well as publicly-owned, in dire
12 financial straits, weak economic conditions and
13 the uncertain hydro situation have hampered
14 recovery prospects.⁵³

15 S&P went on to note the significant potential costs and
16 risks imposed by uncertainty over fish-conservation
17 measures that might be required to meet federal law and
18 continued volatility in wholesale power markets, concluding
19 that "managing hydro risk has assumed a critical importance
20 to credit quality."⁵⁴

21 Q. What other factors would investors likely
22 consider in evaluating their required rate of return for
23 Idaho Power?

24 A. Investors have clearly recognized that
25 structural change and market evolution in the electric
26 power industry have led to a significant increase in the
27 risks faced by industry participants. For a firm caught
28 between expanding wholesale competition in the industry and
29 the constraints of regulation, as are electric utilities,
30 these risks are further magnified. As S&P recognized:

1 severe capacity shortage/pricing crisis in
2 California, has raised investors' level of
3 awareness and concern with regard to the ability
4 of electric utilities to recover increased
5 wholesale power costs and fuel expenses from
6 customers.⁵⁷

7 Investors' required rates of return for utilities
8 are premised on the regulatory compact that allows the
9 utility an opportunity to recover reasonable and necessary
10 costs. By sheltering utilities from exposure to
11 extraordinary power cost volatility, ratepayers benefit
12 from lower capital costs than they would otherwise bear.
13 Of course, the corollary implies that, if investors believe
14 that the utility might face continued exposure to
15 potentially extreme fluctuations in power supply costs
16 while remaining obligated to provide service at regulated
17 rates, their required return would be considerably
18 increased. As S&P noted, the August 14th blackout is
19 unlikely to ease investors' concerns:

20 Clearly, the blackout has highlighted the
21 complexity of the system, the diversity of its
22 many stakeholders and the susceptibility of the
23 industry to political and regulatory risk.⁵⁸

C. Implications for Financial Integrity

24 Q. Why is it important to allow Idaho Power an
25 adequate rate of return on equity?

26 A. Given the social and economic importance of
27 the electric utility industry, it is essential to maintain

1 reliable and economical service to all consumers. While
2 Idaho Power remains committed to deliver reliable electric
3 service at the lowest possible price, a utility's ability
4 to fulfill its mandate can be compromised if it lacks the
5 necessary financial wherewithal.

6 Q. What lessons can be learned from recent events
7 in the energy industry?

8 A. Events in the western U.S. provide a dramatic
9 illustration of the high costs that all stakeholders must
10 bear when a utility's financial integrity is compromised.
11 California's failed market structure led to unprecedented
12 volatility in the region's wholesale power costs. For many
13 utilities, recovery of purchased energy costs that they
14 were forced to buy to serve their customers was either
15 prevented and/or postponed. As a result, they were denied
16 the opportunity to earn risk-equivalent rates of return and
17 access to capital was cut off. Regional economies have
18 been jolted and consumers have suffered the results of
19 higher cost power and reduced reliability. Moreover, while
20 the impact of the utilities' deteriorating financial
21 condition was felt swiftly, stakeholders have discovered
22 first hand how difficult and complex it can be to remedy
23 the situation after the fact.

24 Q. Do you have any personal experience regarding
25 the damage to customers that can result when a utility's

1 financial integrity deteriorates?

2 A. Yes. I was a staff member of the PUCT when
3 the financial condition of El Paso Electric Company ("EPE")
4 began to suffer in the late 1970s. I later observed first-
5 hand the difficulties in reversing this slide as a
6 consultant to Asarco Mining, EPE's largest single customer.
7 EPE's ultimate bankruptcy imposed enormous costs on
8 customers and absorbed an undue amount of the PUCT's
9 resources, as well as those of the Attorneys General and
10 other state agencies. Now I am serving as a consultant to
11 the utility as it continues its struggle to fully recover
12 its financial health. There is no question that customers
13 and other stakeholders would have been far better off had
14 EPE avoided bankruptcy by maintaining its financial
15 resilience.

16 Q. What danger does an inadequate rate of return
17 pose to Idaho Power?

1 A. While Idaho Power has been successful in
2 maintaining its financial flexibility, it is important to
3 remember that, once lost, investor confidence is difficult
4 to recover and the damage is not easily reversible.
5 Consider the example of bond ratings. To restore a
6 company's rating to a previous, higher level, rating
7 agencies generally require the company to maintain its
8 financial indicators above the minimum levels required for
9 the higher rating over a period of time. Considering
10 investors' sharp focus on the risks associated with the
11 west and the uncertainties imposed by the Company's
12 relative reliance on hydroelectric generation, the
13 perception of a lack of regulatory support would almost
14 certainly lead to a decline in Idaho Power's credit quality
15 and financial flexibility.

16 At the same time, Idaho Power plans to add
17 significant plant investment, such as the Mountain Home
18 generating facility, to ensure that the energy needs of its
19 service territory are met. While providing the
20 infrastructure necessary to support economic growth is
21 certainly desirable, it imposes significant
22 responsibilities on Idaho Power. To meet these challenges
23 successfully and economically, it is crucial that the
24 Company receive adequate support for its credit standing.
25 Finally, maintaining Idaho Power's access to capital on

1 reasonable terms has the added benefit of preserving the
2 Company's independence and ability to maintain quality
3 service based on the interests of Idaho ratepayers.

D. Conclusions

4 Q. What is your conclusion regarding a fair rate
5 of return on equity range for Idaho Power?

6 A. Based on the capital market research presented
7 earlier and the economic requirements discussed above, it
8 is my conclusion that a return on equity in the range of
9 10.6 to 11.9 percent represents a conservative estimate of
10 investors' required rate of return for Idaho Power in
11 today's capital markets.

12 In evaluating the rate of return for Idaho Power, it
13 is important to consider investors' continued focus on the
14 unsettled conditions in western power markets. These
15 uncertainties are compounded by the Company's continued
16 reliance on hydroelectric power for a relatively greater
17 portion of its energy supply, as well as other risks
18 associated with the power industry, such as heightened
19 exposure to regulatory uncertainties.

20 Q. How does your recommended fair rate of return
21 on equity range for Idaho Power compare with other
22 benchmarks that investors would consider?

23 A. Reference to rates of return available from
24 alternative investments can also provide a useful guideline

1 in assessing the return necessary to assure confidence in
2 the financial integrity of a firm and its ability to
3 attract capital. This comparable earnings approach avoids
4 the complexities and limitations of capital market methods
5 and instead focuses on the returns earned on book equity,
6 which are readily available to investors.

7 Indeed, the most recent edition of Value Line
8 reports that its analysts expect average rates of return on
9 common equity for the electric utility industry of 11.3
10 percent and 11.8 percent for 2003 and 2004, respectively,
11 with their three to five year projections anticipating a
12 return on equity of 12.0 percent.⁵⁹ Similarly, expected
13 rates of return for gas distribution utilities are expected
14 to average 11.5 percent over Value Line's forecast
15 horizon,⁶⁰ while the 696 industrial, retail, and
16 transportation companies included in Value Line's Composite
17 Index are expected to earn 16.0 percent on book equity
18 during the 2006-2008 time frame.⁶¹ Accordingly, these
19 expected earned rates of return confirm the reasonableness
20 of my recommended rate of return on equity range for Idaho
21 Power.

22 My recommended ROE range is further supported by the
23 fact that investors are likely to anticipate increases in
24 utility bond yields going forward. Moreover, an ROE in the
25 10.6 percent to 11.9 percent range is reasonable at this

1 critical juncture, given the importance of supporting the
2 financial capability of Idaho Power as it invests the
3 capital that is needed to develop and enhance utility
4 infrastructure. As the recent power failures amply
5 demonstrated, the cost of providing Idaho Power an adequate
6 return is small relative to the potential benefits that a
7 strong utility can have in providing reliable service and
8 fostering growth. Considering investors' heightened
9 awareness of the risks associated with the electric power
10 industry and the damage that results when a utility's
11 financial flexibility is compromised, supportive regulation
12 is perhaps more crucial now than at any time in the past.

13 Q. Does this conclude your direct testimony in
14 this case?

15 A. Yes, it does.

ENDNOTES

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- ⁵ *Remarks by William L. Massey*, Center for Public Utilities Advisory Council, "The Santa Fe Conference" (March 17, 2003).
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²⁶ *Id.*

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²⁸ Energy Information Administration, *Annual Energy Outlook 2003*, at Table 20, Nov. 20, 2002, available at http://www.eia.doe.gov/oiaf/aeo/pdf/aeo_base.pdf.

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- ⁴⁰ *The Value Line Investment Survey* (Aug. 15, 2003) at 1776.
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- ⁵⁰ *Idaho Power granted \$256 million deferral, but bond plan denied*, Idaho Public Utilities Commission (May 13, 2002).
- ⁵¹ Moody's Investors Service, *Opinion Update: Idaho Power Company* (Jun. 20, 2003).
- ⁵² *Id.*
- ⁵³ Standard & Poor's Corporation, "Legal Developments Add to Utilities' Disquiet in U.S. Northwest," *Utilities & Perspectives* (July 21, 2003) at 2-3.
- ⁵⁴ *Id.*
- ⁵⁵ Standard & Poor's, *CreditWeek*, Nov. 1, 2000, at 31.
- ⁵⁶ Rebecca Smith, *Shock Waves*, The Wall Street Journal, Nov. 30, 2001, at A1.
- ⁵⁷ Regulatory Research Associates, "Recovery of Wholesale Power Costs: Who is at Risk and Who is Not?", *Regulatory Focus*, p. 1 (February 28, 2001).
- ⁵⁸ Standard & Poor's Corporation, "Electric Utility Blackout Puts Spotlight on Political and Regulatory Credit Risk," *RatingsDirect* (Aug. 21, 2003).
- ⁵⁹ The Value Line Investment Survey (Aug. 15, 2003) at 1776.
- ⁶⁰ The Value Line Investment Survey (June 20, 2003) at 458.
- ⁶¹ The Value Line Investment Survey, *Selection & Opinion* (July 18, 2003) at 2857.