

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-08-10
AND CHARGES FOR ELECTRIC SERVICE.)

IDAHO POWER COMPANY

DIRECT TESTIMONY

OF

WILLIAM E. AVERA

DIRECT TESTIMONY OF WILLIAM E. AVERA

TABLE OF CONTENTS

I. INTRODUCTION 1
 A. Overview 3
 B. Summary of Conclusions 6
II. FUNDAMENTAL ANALYSES 9
 A. Idaho Power Company 10
 B. Utility Industry 17
III. CAPITAL MARKET ESTIMATES 27
 A. Overview 28
 B. Discounted Cash Flow Analyses 33
 C. Capital Asset Pricing Model 53
 D. Comparable Earnings Method 57
 E. Summary of Results 58
 F. Flotation Costs 59
IV. RETURN ON EQUITY FOR IDAHO POWER COMPANY 62
 A. Implications for Financial Integrity 62
 B. Capital Structure 67
 C. Return on Equity Recommendation 72

Exhibit No. 16: Qualifications of William E. Avera
Exhibit No. 17: DCF Model - Utility Proxy Group
Exhibit No. 18: Sustainable Growth - Utility Proxy Group
Exhibit No. 19: DCF Model - Non-Utility Proxy Group
Exhibit No. 20: Sustainable Growth - Non-Utility Proxy
Group
Exhibit No. 21: Forward-Looking CAPM - Utility Proxy Group
Exhibit No. 22: Forward-Looking CAPM - Non-Utility Proxy
Group
Exhibit No. 23: Historical CAPM - Utility Proxy Group
Exhibit No. 24: Historical CAPM - Non-Utility Proxy Group
Exhibit No. 25: Comparable Earnings Approach
Exhibit No. 26: Capital Structure

1 I. INTRODUCTION

2 Q. Please state your name and business address.

3 A. William E. Avera, 3907 Red River, Austin, Texas,
4 78751.

5 Q. In what capacity are you employed?

6 A. I am the President of FINCAP, Inc., a firm
7 providing financial, economic, and policy consulting
8 services to business and government.

9 Q. Please describe your educational background and
10 professional experience.

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

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

1 Research Division. During my tenure at the PUCT, I managed
2 a division responsible for financial analysis, cost
3 allocation and rate design, economic and financial research,
4 and data processing systems, and I testified in cases on a
5 variety of financial and economic issues. Since leaving the
6 PUCT, I have been engaged as a consultant. I have
7 participated in a wide range of assignments involving
8 utility-related matters on behalf of utilities, industrial
9 customers, municipalities, and regulatory commissions. I
10 have previously testified before the Federal Energy
11 Regulatory Commission ("FERC"), as well as the Federal
12 Communications Commission, the Surface Transportation Board
13 (and its predecessor, the Interstate Commerce Commission),
14 the Canadian Radio-Television and Telecommunications
15 Commission, and regulatory agencies, courts, and legislative
16 committees in 40 states.

17 In 1995, I was appointed by the PUCT to the Synchronous
18 Interconnection Committee to advise the Texas legislature on
19 the costs and benefits of connecting Texas to the national
20 electric transmission grid. In addition, I served as an
21 outside director of Georgia System Operations Corporation,
22 the system operator for electric cooperatives in Georgia.

23 I have served as Lecturer in the Finance Department at
24 the University of Texas at Austin and taught in the evening
25 graduate program at St. Edward's University for twenty
26 years. In addition, I have lectured on economic and

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

20 **A. Overview**

21 Q. What is the purpose of your testimony in this
22 case?

23 A. The purpose of my testimony is to present to the
24 Idaho Public Utilities Commission (the "Commission" or
25 "IPUC") my independent evaluation of the fair rate of return
26 on equity ("ROE") for the jurisdictional utility operations

1 of Idaho Power Company ("Idaho Power" or "the Company").
2 The overall rate of return applied to Idaho Power's 2008
3 test year rate base is developed in the testimony of Mr.
4 Steve Keen.

5 Q. Please summarize the basis of your knowledge and
6 conclusions concerning the issues to which you are
7 testifying in this case.

8 A. As is common and generally accepted in my field of
9 expertise, I have accessed and used information from a
10 variety of sources. I am familiar with the organization,
11 operations, finances, and operation of Idaho Power from my
12 participation in prior proceedings before the IPUC, the
13 Oregon Public Utility Commission, and the FERC. In
14 connection with the present filing, I considered and relied
15 upon corporate disclosures and management discussions,
16 publicly available financial reports and filings, and other
17 published information relating to the Company and its
18 parent, IDACORP, Inc. ("IDACORP"). I also reviewed
19 information relating generally to current capital market
20 conditions and specifically to current investor perceptions,
21 requirements, and expectations for Idaho Power's electric
22 utility operations. These sources, coupled with my
23 experience in the fields of finance and utility regulation,
24 have given me a working knowledge of investors' ROE
25 requirements for Idaho Power as it competes to attract
26 capital, and form the basis of my analyses and conclusions.

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

3 A. The ROE serves to compensate investors for the use
4 of their capital to finance the plant and equipment
5 necessary to provide utility service. Investors commit
6 capital only if they expect to earn a return on their
7 investment commensurate with returns available from
8 alternative investments with comparable risks. To be
9 consistent with sound regulatory economics and the standards
10 set forth by the Supreme Court in the *Bluefield*¹ and *Hope*²
11 cases, a utility's allowed ROE should be sufficient to: 1)
12 fairly compensate the utility's investors, 2) enable the
13 utility to offer a return adequate to attract new capital on
14 reasonable terms, and 3) maintain the utility's financial
15 integrity.

16 Q. How did you go about developing your conclusions
17 regarding a fair rate of return for Idaho Power?

18 A. I first reviewed the operations and finances of
19 Idaho Power and the general conditions in the utility
20 industry and the economy. With this as a background, I
21 conducted various well-accepted quantitative analyses to
22 estimate the current cost of equity, including alternative
23 applications of the discounted cash flow ("DCF") model and

¹ *Bluefield Water Works & Improvement Co. v. Pub. Serv. Comm'n*, 262 U.S. 679 (1923).

² *Fed. Power Comm'n v. Hope Natural Gas Co.*, 320 U.S. 591 (1944).

1 the Capital Asset Pricing Model ("CAPM"), as well as
2 reference to comparable earned rates of return expected for
3 utilities. Based on the cost of equity estimates indicated
4 by my analyses, the Company's ROE was evaluated taking into
5 account the specific risks and economic requirements for
6 Idaho Power consistent with preservation of its financial
7 integrity.

8 B. Summary of Conclusions

9 Q. What are your findings regarding the fair rate of
10 return on equity for Idaho Power?

11 A. Based on the results of my analyses and the
12 economic requirements necessary to support continuous access
13 to capital, I recommend that Idaho Power be authorized a
14 fair rate of return on equity in the 10.8 percent to 11.8
15 percent range. The bases for my conclusion are summarized
16 below:

- 17 • In order to reflect the risks and prospects
18 associated with Idaho Power's jurisdictional
19 utility operations, my analyses focused on a proxy
20 group of twenty-seven electric utilities with
21 comparable investment risks. Consistent with the
22 fact that utilities must compete for capital with
23 firms outside their own industry, I also referenced
24 a proxy group of comparable risk companies in the
25 non-utility sector of the economy;
- 26 • I applied both the DCF and CAPM methods, as well as
27 the comparable earnings approach, to estimate a
28 fair ROE for Idaho Power:
 - 29 o My application of the constant growth DCF model
30 considered three alternative growth measures
31 based on projected earnings growth, as well as
32 the sustainable, "br+sv" growth rate for each
33 firm in the respective proxy groups;

1 overall rate of return. This conclusion was based on the
2 following findings:

- 3 • Idaho Power's proposed common equity ratio is
4 entirely consistent with range of capitalizations
5 maintained by the firms in the proxy group of
6 electric utilities at year-end 2007 and based on
7 investors' expectations;
- 8 • My conclusion is reinforced by the investment
9 community's focus on the need for a greater equity
10 cushion to accommodate higher operating risks,
11 including the uncertainties posed by exposure to
12 variable hydro conditions, and the pressures of
13 capital investments. Financial flexibility plays a
14 crucial role in ensuring the wherewithal to meet
15 the needs of customers, and Idaho Power's capital
16 structure reflects the Company's ongoing efforts to
17 support its credit standing and maintain access to
18 capital on reasonable terms.

19 Q. What other evidence did you consider in evaluating
20 your recommendation in this case?

21 A. My recommendation was reinforced by the following
22 findings:

- 23 • Sensitivity to regulatory uncertainties has
24 increased dramatically and investors recognize that
25 constructive regulation is a key ingredient in
26 supporting utility credit standing and financial
27 integrity;
- 28 • Because of Idaho Power's reliance on hydroelectric
29 generation, the Company is exposed to relatively
30 greater risks of power cost volatility;
- 31 • Investors recognize that Idaho Power's Power Cost
32 Adjustment Mechanism ("PCA") provides some level of
33 support for the Company's financial integrity, but
34 they understand that the PCA does not apply to 100
35 percent of power costs; nor does it insulate Idaho
36 Power from the need to finance accrued power
37 production and supply costs or shield the Company
38 from potential regulatory disallowances.
- 39 • Idaho Power must compete for investors' capital
40 with other utilities and businesses of comparable

1 risk. If Idaho Power is not provided an
2 opportunity to earn a return that is sufficient to
3 compensate for the underlying risks, investors will
4 be unwilling to supply capital;

- 5 • Providing Idaho Power with the opportunity to earn
6 a return that reflects these realities is an
7 essential ingredient to support the Company's
8 financial position, which ultimately benefits
9 customers by ensuring reliable service at lower
10 long-run costs;
- 11 • Past challenges confronting the utility industry
12 illustrate the need to ensure that Idaho Power has
13 the ability to respond effectively to unforeseen
14 events.

15 Ultimately, it is customers and the service area economy
16 that enjoy the rewards that come from ensuring that the
17 utility has the financial wherewithal to take whatever
18 actions are necessary to provide a reliable energy supply.

19 II. FUNDAMENTAL ANALYSES

20 Q. What is the purpose of this section?

21 A. As a predicate to my economic and capital market
22 analyses, this section examines conditions in the utility
23 industry generally, and for Idaho Power specifically, that
24 investors consider in evaluating their required rate of
25 return. An understanding of these fundamental factors,
26 which drive the risks and prospects for Idaho Power, is
27 essential to develop an informed opinion about investor
28 expectations and requirements that form the basis of a fair
29 rate of return on equity.

1 hydroelectric generation is capable of supplying
2 approximately 55 percent of total system requirements under
3 normal conditions, the Company has experienced prolonged
4 periods of persistent below-normal water conditions in the
5 past.

6 Because approximately one-half of Idaho Power's total
7 energy requirements are provided by hydroelectric
8 facilities, the Company is exposed to a level of uncertainty
9 not faced by most utilities. While hydropower confers
10 advantages in terms of fuel cost savings and diversity,
11 reduced hydroelectric generation due to below-average water
12 conditions forces Idaho Power to rely more heavily on
13 wholesale power markets or more costly thermal generating
14 capacity to meet its resource needs. As Standard & Poor's
15 Corporation ("S&P") recently observed:

16 A reduction in hydro generation typically
17 increases an electric utility's costs by requiring
18 it to buy replacement power or run more expensive
19 generation to serve customer loads. Low hydro
20 generation can also reduce utilities' opportunity
21 to make off-system sales. At the same time, low
22 hydro years increase regional wholesale power
23 prices, creating potentially a double impact -
24 companies have to buy more power than under normal
25 conditions, paying higher prices.³

26 Investors recognize that uncertainties over water conditions
27 are a persistent operational risk associated with Idaho

³ Standard & Poor's Corporation, "Pacific Northwest Hydrology And Its Impact On Investor-Owned Utilities' Credit Quality," *RatingsDirect* (Jan. 28, 2008).

1 Power. In addition to weather-related fluctuations in water
2 flows, Idaho Power is also exposed to uncertainties
3 regarding water rights and the administration of those
4 rights.

5 Idaho Power's retail electric operations are subject to
6 the jurisdiction of the IPUC and the Oregon Public Utility
7 Commission, with the interstate jurisdiction regulated by
8 FERC. Additionally, Idaho Power's hydroelectric facilities
9 are subject to licensing under the Federal Power Act, which
10 is administered by FERC, as well as the Oregon Hydroelectric
11 Act. Relicensing is not automatic under federal law, and
12 Idaho Power must demonstrate that it has operated its
13 facilities in the public interest, which includes adequately
14 addressing environmental concerns. The most significant of
15 Idaho Power's relicensing efforts concerns its Hells Canyon
16 Complex ("Hells Canyon"), which represents 68 percent of the
17 Company's hydro capacity and 40 percent of its total
18 generating capability.

19 In June 2003, after a prolonged period of planning and
20 consultation with interested parties, Idaho Power submitted
21 a license application for Hells Canyon that included various
22 protection, mitigation, and enhancement measures in order to
23 address environmental concerns while preserving the peak and
24 load following operations of the facilities. The current
25 license for Hells Canyon expired at the end of July 2005 and
26 until the new multi-year license is issued, Idaho Power will

1 operate the project under an annual license issued by FERC.
2 Apart from significant ongoing expenditures associated with
3 proposed environmental measures, the relicensing process is
4 complex, protracted, and expensive. As of December 31,
5 2007, Idaho Power had accumulated \$96 million of
6 construction work in progress associated with its Hells
7 Canyon relicensing efforts.

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

11 A. Beginning in May 1993, Idaho Power implemented a
12 PCA, under which rates are adjusted annually to reflect
13 changes in variable power production and supply costs. When
14 hydroelectric generation is reduced and power supply costs
15 rise above those included in base rates, the PCA allows
16 Idaho Power to increase rates to recover a portion of its
17 additional costs. Conversely, rates are reduced when
18 increased hydroelectric generation leads to lower power
19 supply costs. Although the PCA provides for rates to be
20 adjusted annually, it applies to 90 percent of the deviation
21 between actual power supply costs and normalized rates.

22 Q. Are there other mechanisms that affect Idaho
23 Power's rates for utility service?

24 A. Yes. Included in the provisions of Idaho Power's
25 PCA is a Load Growth Adjustment Rate ("LGAR"). The LGAR
26 subtracts the cost of serving new Idaho retail customers

1 from the power supply costs that the Company is allowed to
2 include in its PCA. The IPUC has recognized that Idaho
3 Power would nevertheless continue to be exposed to the risks
4 of shortfalls associated with load growth. The IPUC
5 specifically noted that these uncertainties are properly
6 considered in establishing a fair ROE for Idaho Power:

7 Because this process puts the Company at some
8 business and financial risk, it is awarded a
9 commensurate equity return. Idaho Power's current
10 equity return was set in a process that recognized
11 it would not recover the power supply costs of
12 load growth in the PCA mechanism.⁴

13 In 2007 the IPUC also approved a Fixed Cost Adjustment
14 Mechanism ("FCA") for Idaho Power under a three-year pilot
15 program applicable to residential and small commercial
16 customer classes. The FCA adjusts rates upward or downward
17 to insulate the recovery of fixed costs from the volume of
18 Idaho Power's energy sales. The pilot program includes
19 various provisions related to customer count and weather
20 normalization methodology, reporting requirements, and
21 detailed disclosure of demand-side management activities.

22 Q. What credit ratings have been assigned to Idaho
23 Power?

24 A. Citing concerns over deteriorating financial
25 metrics and the outcome of Idaho Power's last rate
26 proceeding before the IPUC, S&P lowered Idaho Power's

⁴ Order No. 30215 at 10.

1 corporate credit rating from "BBB+" to "BBB" in January
2 2008.⁵ While Moody's Investors Service ("Moody's) has so
3 far maintained the Company's issuer rating at "Baa1", it
4 recently revised its outlook for Idaho Power to "negative"
5 based on similar concerns, warning investors of the
6 potential for a downgrade in the Company's credit standing
7 going forward.⁶ Fitch Ratings Ltd. ("Fitch") has assigned
8 the Company an issuer default rating of "BBB" and, like
9 Moody's, has revised Idaho Power's Ratings Outlook to
10 "negative."⁷

11 Q. Does Idaho Power anticipate the need to access the
12 capital markets going forward?

13 A. Most definitely. Idaho Power will require capital
14 investment to meet customer growth, provide for necessary
15 maintenance and replacements of its utility infrastructure,
16 as well as fund new investment in electric generation,
17 transmission and distribution facilities. Idaho Power's
18 service area has experienced strong population growth, and
19 the Company's most recent resource plan anticipates the
20 addition of 11,000 to 12,000 new customers annually.⁸ In

⁵ Standard & Poor's Corporation, "IDACORP, Idaho Power Co. Ratings Lowered One Notch To 'BBB'; Outlook Stable," *RatingsDirect* (Jan. 31, 2008).

⁶ Moody's Investors Service, "Moody's Changes Outlook Of Idacorp And Sub To Negative," *Press Release* (June 3, 2008).

⁷ Fitch Ratings Ltd., "Idaho Power Company," *Global Power U.S. and Canada Credit Analysis* (Apr. 10, 2008).

⁸ Idaho Power Company, *2006 Integrated Resource Plan* (Oct. 12, 2006) at 1.

1 order to keep pace with customer growth, enhance
2 transmission infrastructure, and balance generation resource
3 uncertainty Idaho Power anticipates construction
4 expenditures of approximately \$900 million over the period
5 2008-2010.⁹

6 Over the ten-year planning period, Idaho Power's
7 Integrated Resource Plan has identified the potential need
8 for the Company to obtain 1,063 MW of supply-side capacity,
9 which will entail additional purchased power commitments and
10 financing construction of additional baseload generation, in
11 addition to other system upgrades.¹⁰ Moreover, as indicated
12 earlier, Idaho Power must also bear the costs of protection,
13 mitigation, and enhancement measures associated with Hells
14 Canyon relicensing. Considering the unfavorable outlook for
15 the Company's credit standing, support for Idaho Power's
16 financial integrity and flexibility will be instrumental in
17 attracting the capital necessary to fund these projects in
18 an effective manner.

⁹ IDACORP, Inc., *2007 Form-10K Report* at 27. This amount excludes expenditures for a 250-MW combined cycle combustion turbine expected to be operational in mid-2012 as well as any estimated costs attributable to the Gateway West Project, which contemplates construction of two 500-kV transmission lines with an estimated cost to Idaho Power of between \$800 million and \$1.2 billion.

¹⁰ Idaho Power Company, *2006 Integrated Resource Plan* (Oct. 12, 2006) at 95.

1 Q. What other key factors are of concern to
2 investors?

3 A. In recent years, utilities and their customers
4 have also had to contend with dramatic fluctuations in
5 energy costs due to ongoing price volatility in the spot
6 markets. Investors recognize that the prospect of further
7 turmoil in energy markets is an ongoing concern. S&P has
8 reported continued spikes in wholesale energy market
9 prices,¹⁴ with Moody's warning investors of ongoing exposure
10 to "extremely volatile" energy commodity costs, including
11 purchased power prices, which are heavily influenced by fuel
12 costs.¹⁵ Similarly, the FERC Staff has continued to
13 recognize the ongoing potential for market disruption. A
14 2008 market assessment report recognized ongoing concerns
15 regarding tight supply and congestion and observed that
16 wholesale power prices across the nation are likely to be
17 significantly higher than the previous year.¹⁶ FERC
18 continues to warn of load pockets vulnerable to periods of
19 high peak demand and unplanned outages of generation or
20 transmission capacity and ongoing reliability concerns that

¹⁴ Standard & Poor's Corporation, "Fuel and Purchased Power Cost Recovery in the Wake of Volatile Gas and Power Markets - U.S. Electric Utilities to Watch" *RatingsDirect* (Mar. 22, 2006).

¹⁵ Moody's Investors Service, "Storm Clouds Gathering on the Horizon for the North American Electric Utility Sector," *Special Comment* at 6 (Aug. 2007).

¹⁶ FERC, Office of Market Oversight and Investigations, "2008 Summer Market and Reliability Assessment," (May 15, 2008).

1 led FERC to establish mandatory standards for the bulk power
2 system.¹⁷

3 Additionally, in recent years, utilities and their
4 customers have also had to contend with dramatic
5 fluctuations in natural gas costs due to ongoing price
6 volatility in the spot markets.¹⁸ S&P observed that
7 "natural gas prices have proven to be very volatile,"
8 warning of a "turbulent journey" due to the uncertainty
9 associated with future fluctuations in energy costs,¹⁹ and
10 concluding: "Cost pressures from natural gas are not likely
11 to recede in the near future."²⁰ Fitch also highlighted the
12 challenges that fluctuations in commodity prices can have
13 for utilities and their investors, concluding that gas
14 prices are subject to near-term and longer-term fluctuations
15 that contribute to an "adverse environment" for electric
16 utilities.²¹

17 In addition, while coal-fired generation has
18 historically provided relative stability with respect to

¹⁷ See *Open Commission Meeting Statement of Chairman Joseph T. Kelliher*, Item E-13: Mandatory Reliability Standards for the Bulk-Power System (Docket No. RM06-16-000) (Mar. 15, 2007).

¹⁸ For example, the Department of Energy's Energy Information Administration ("EIA") reported that the average price of gas used by electricity generators (regulated utilities and non-regulated power producers) spiked from an average price of \$7.18 per Mcf for the first eight months of 2005 to over \$11.00 per Mcf in September and October 2005 (<http://tonto.eia.doe.gov/dnav/ng/hist/n3045us3m.htm>).

¹⁹ Standard & Poor's Corporation, "Top Ten Credit Issues Facing U.S. Utilities," *RatingsDirect* (Jan. 29, 2007).

²⁰ *Id.*

²¹ Fitch Ratings, Ltd., "U.S. Power and Gas 2008 Outlook," *Global Power North American Special Report*, at 3 (Dec. 11, 2007).

1 fuel costs, higher prices have raised investors' concerns.
2 In a 2004 article entitled "Rising Coal Prices May Threaten
3 U.S. Utility Credit Profiles," S&P noted that:

4 More recently, several current and structural
5 developments for the coal mining industry have
6 resulted in a dramatic increase in spot coal
7 prices.²²

8 The EIA reported that average delivered coal prices for
9 electric utilities increased 9.7 percent in 2006, the sixth
10 consecutive annual rise,²³ while Reuters Inc. reported in
11 May 2008 that benchmark coal prices exceeded \$100 per ton,
12 or over twice the levels of the previous fall.²⁴

13 Q. What are the key uncertainties considered by
14 investors in assessing their required rate of return for
15 Idaho Power?

16 A. Because roughly one-half of Idaho Power's total
17 energy requirements are provided by hydroelectric
18 facilities, the Company is exposed to a level of uncertainty
19 not faced by most utilities. While hydropower confers
20 advantages in terms of fuel cost savings and diversity,
21 reduced hydroelectric generation due to below-average water
22 conditions forces Idaho Power to rely more heavily on

²² Standard & Poor's Corporation, "Rising Coal Prices May Threaten U.S. Utility Credit Profiles," *RatingsDirect* (Aug. 12, 2004).

²³ Energy Information Administration, *Annual Coal Report 2006* at 9 (Nov. 2007).

²⁴ Nichols, Bruce, "US coal prices pass \$100 a ton, twice last fall's," *Reuters* (May 9, 2008).

1 purchased power or more costly thermal generating capacity
2 to meet its resource needs.

3 The prolonged drought conditions experienced in the
4 recent past have only deepened concerns over power prices
5 and fluctuations in gas costs. As S&P noted, "hydro
6 resources expose the company to substantial replacement
7 power price risk in the event of low water flows."²⁵ S&P
8 concluded that Idaho Power "has the greatest hydro exposure"
9 of any utility and faces "the most substantial risks."²⁶

10 Investors recognize the significant financial burden that
11 constrained hydro generation imposes on Idaho Power, as
12 Moody's summarized:

13 The company's recent financial metrics, including
14 its coverage of interest and debt by cash flow
15 from operations exclusive of working capital
16 changes (CFO Pre-W/C), have been pressured to a
17 level we often see for a regulated electric
18 utility in the Ba rating category. These recent
19 metrics are the result of unfavorable hydro
20 conditions and the adverse effects the recent
21 increase to the load growth adjustment rate (LGAR)
22 has had on net power supply cost recovery under
23 the power cost adjustment (PCA) mechanism.²⁷

24 Similarly, Fitch concluded that its negative outlook on
25 Idaho Power's ratings "primarily reflect persistent drought

²⁵ Standard & Poor's Corporation, "IDACORP, Idaho Power Co. Ratings Lowered One Notch To 'BBB'; Outlook Stable," *RatingsDirect* (Jan. 31, 2008).

²⁶ Standard & Poor's Corporation, "Pacific Northwest Hydrology And Its Impact On Investor-Owned Utilities' Credit Quality," *RatingsDirect* (Jan. 28, 2008).

²⁷ Moody's Investors Service, "Credit Opinion: Idaho Power Company," *Global Credit Research* (June 4, 2008).

1 conditions in recent years and their adverse impact on the
2 utility's cash flows, earnings and credit metrics."²⁸

3 Volatile energy markets, unpredictable stream flows,
4 and Idaho Power's reliance on wholesale purchases to meet a
5 portion of its resource needs expose the Company to the risk
6 of reduced cash flows and unrecovered power supply costs.
7 The IPUC has recognized "the unique circumstances of Idaho
8 Power's highly variable power supply costs."²⁹ The
9 Company's reliance on purchased power to meet shortfalls in
10 hydroelectric generation magnifies the importance of
11 strengthening financial flexibility to ensure access to the
12 cash resources and interim financing required to meet any
13 shortfall in operating cash flows, as well as fund required
14 investments in the utility system.

15 Q. Does the PCA remove the risk associated with
16 fluctuations in power supply costs?

17 A. No. While the PCA provides some level of support
18 for the Company's financial integrity, it does not apply to
19 100 percent of power costs. Moreover, even for utilities
20 with permanent energy cost adjustment mechanisms in place,
21 there can be a significant lag between the time the utility
22 actually incurs the expenditure and when it is recovered
23 from ratepayers. This lag can impinge on the utility's

²⁸ Fitch Ratings, Ltd., "Idaho Power Company," *Global Power U.S. and Canada Credit Analysis* (Apr. 10, 2008).

²⁹ Order No. 30215 at 9.

1 financial strength through reduced liquidity and higher
2 borrowings. As S&P observed:

3 Because increased purchases and higher prices are
4 not immediately met by increased retail revenues
5 from customers, cash flows can decline in low
6 water years. While PCAs and annual power cost
7 updates can mitigate these effects, they are not
8 designed to completely insulate a utility from
9 poor hydro conditions. As a result, a large
10 annual deviation from normal streamflow typically
11 weakens cash coverage of debt and interest for a
12 utility.³⁰

13 S&P recently cited exposure to high deferred power
14 costs resulting from "extremely variable" hydro generation
15 as a key challenge facing Idaho Power.³¹ Similarly, Moody's
16 observed that the Company's financial metrics "are pressured
17 relative to the current Baa1 rating and we expect that the
18 company's financial performance will remain subject to the
19 vagaries of water flow conditions."³² Moreover, even with
20 an energy cost adjustment mechanism, investors continue to
21 recognize the ongoing potential for regulatory disallowances
22 if the IPUC determines that the amounts were not prudently
23 incurred.

³⁰ Standard & Poor's Corporation, "Pacific Northwest Hydrology And Its Impact On Investor-Owned Utilities' Credit Quality," *RatingsDirect* (Jan. 28, 2008).

³¹ Standard & Poor's Corporation, "Idaho Power Co.," *RatingsDirect* (Feb. 1, 2008).

³² Moody's Investors Service, "Credit Opinion: Idaho Power Company," *Global Credit Research* (June 4, 2008).

1 Q. What other considerations affect investors'
2 evaluation of Idaho Power?

3 A. Investors are aware of the financial and
4 regulatory pressures faced by utilities associated with
5 rising costs and the need to undertake significant capital
6 investments. As Moody's observed:

7 [T]here are concerns arising from the sector's
8 sizeable infrastructure investment plans in the
9 face of an environment of steadily rising
10 operating costs. Combined, these costs and
11 investments can create a continuous need for
12 regulatory rate relief, which in turn can increase
13 the likelihood for political and/or regulatory
14 intervention.³³

15 Similarly, S&P noted that "onerous construction programs",
16 along with rising operating and maintenance costs and
17 volatile fuel costs, were a significant challenge to the
18 utility industry.³⁴ Moody's recently echoed this
19 assessment, concluding, "There are significant negative
20 trends developing over the longer-term horizon."³⁵

21 While providing the infrastructure necessary to meet
22 the energy needs of customers is certainly desirable, it
23 imposes additional financial responsibilities on Idaho
24 Power. As noted earlier, the Company's plans include

³³ Moody's Investors Service, "Storm Clouds Gathering on the Horizon for the North American Electric Utility Sector," *Special Comment* (Aug. 2007).

³⁴ Standard & Poor's Corporation, "U.S. Electric Utilities Continued Their Long Shift To Stability In Third Quarter," *RatingsDirect* (Oct. 23, 2007).

³⁵ Moody's Investors Service, "U.S. Utility Sector," *Industry Outlook* (Jan. 2008).

1 substantial capital expenditures, including enhancements to
2 its transmission and distribution system and investment in
3 generating resources. Investors are aware that the
4 challenge of achieving timely regulatory recovery associated
5 with rising costs and burdensome capital expenditure
6 requirements impacts the Company's ability to earn a fair
7 rate of return. For example, S&P cited "[r]egulatory
8 challenges in meeting rising costs and a large capital
9 expenditure program, resulting from high customer growth,"
10 as a key weakness for Idaho Power,³⁶ while Fitch noted that
11 the inability to increase base rates to recover anticipated
12 capital investment could lead to a downgrade in the
13 Company's credit standing.³⁷

14 In addition, electric utilities are confronting
15 increased environmental pressures that are imposing
16 significant uncertainties and costs. Utilities required to
17 meet renewable portfolio standards and carbon reduction
18 goals generally must embrace energy efficiency and
19 conservation initiatives that lead to decreased demand and
20 revenue erosion. In early 2007, S&P cited environmental
21 mandates, including emissions, conservation, and renewable
22 resources, as one of the top ten credit issues facing U.S.

³⁶ Standard & Poor's Corporation, "Idaho Power Co.," *RatingsDirect* (Feb. 1, 2008).

³⁷ Fitch Ratings, Ltd., "Idaho Power Company," *Global Power U.S. and Canada Credit Analysis* (Apr. 10, 2008).

1 utilities.³⁸ More recently, S&P cited the long-term
2 challenge posed by climate change legislation and observed
3 that:

4 What the ultimate outcome will be is cloudy right
5 now, but legislation addressing carbon emissions
6 and other greenhouse gases is extremely probable
7 in the near future. The credit implications of
8 any policy will be vast due to the compliance
9 costs involved.³⁹

10 Similarly, Moody's noted that "increasingly stringent
11 environmental compliance mandates will elevate cash outflow
12 recovery risk",⁴⁰ while Fitch noted that the electric
13 utility industry would be "a primary target" of new
14 environmental legislation, and concluded: "The murkiness of
15 the future policies and regulations on carbon emissions is
16 another factor clouding Fitch's long-term view of electric
17 utilities."⁴¹ Compliance with these evolving standards
18 almost certainly will mean significant capital expenditures.

³⁸ Standard & Poor's Corporation, "Top Ten Credit Issues Facing U.S. Utilities," *RatingsDirect* (Jan. 29, 2007).

³⁹ Standard & Poor's Corporation, "Upgrades Lead In U.S. Electric Utility Industry In 2007," *RatingsDirect* (Jan. 17, 2008).

⁴⁰ Moody's Investors Service, "U.S. Electric Utility Sector," *Industry Outlook* (Jan. 2008).

⁴¹ Fitch Ratings, Ltd., "U.S. Utilities, Power and Gas 2008 Outlook," *Global Power North America Special Report* (Dec. 11, 2007).

1 Q. Have investors recognized that electric utilities
2 face additional risks because of the impact of industry
3 restructuring on transmission operations?

4 A. Yes. Policy evolution in the transmission area
5 has been wide reaching and Idaho Power must address changes
6 in the electric transmission function of its business. S&P
7 confirmed a "continued lack of clarity from lawmakers and
8 regulators on the regulatory framework surrounding
9 transmission projects."⁴² Transmission operations have
10 become increasingly complex and investors have recognized
11 that difficulties in obtaining permits and uncertainty over
12 the adequacy of allowed rates of return have contributed to
13 heightened risk and fueled concerns regarding the need for
14 additional investment in the transmission sector of the
15 electric power industry.

16 **III. CAPITAL MARKET ESTIMATES**

17 Q. What is the purpose of this section?

18 A. This section presents capital market estimates of
19 the cost of equity. First, I examine the concept of the
20 cost of equity, along with the risk-return tradeoff
21 principle fundamental to capital markets. Next, I describe
22 DCF and CAPM analyses conducted to estimate the cost of
23 equity for benchmark groups of comparable risk firms and

⁴² Standard & Poor's Corporation, "Capital Spending On Electric Transmission Is On The Upswing Around The World," *RatingsDirect* (Aug. 7, 2006).

1 evaluate comparable earned rates of return expected for
2 utilities. Finally, I examine other factors (e.g.,
3 flotation costs) that are properly considered in evaluating
4 a fair rate of return on equity.

5 **A. Overview**

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

8 A. The return on common equity is the cost of
9 inducing and retaining investment in the utility's physical
10 plant and assets. This investment is necessary to finance
11 the asset base needed to provide utility service. Investors
12 will commit money to a particular investment only if they
13 expect it to produce a return commensurate with those from
14 other investments with comparable risks. Moreover, the
15 return on common equity is integral in achieving the sound
16 regulatory objectives of rates that are sufficient to: 1)
17 fairly compensate capital investment in the utility, 2)
18 enable the utility to offer a return adequate to attract new
19 capital on reasonable terms, and 3) maintain the utility's
20 financial integrity. Meeting these objectives allows the
21 utility to fulfill its obligation to provide reliable
22 service while meeting the needs of customers through
23 necessary system expansion.

1 Q. Is there evidence that the risk-return tradeoff
2 principle actually operates in the capital markets?

3 A. Yes. The risk-return tradeoff can be readily
4 documented in segments of the capital markets where required
5 rates of return can be directly inferred from market data
6 and where generally accepted measures of risk exist. Bond
7 yields, for example, reflect investors' expected rates of
8 return, and bond ratings measure the risk of individual bond
9 issues. The observed yields on government securities, which
10 are considered free of default risk, and bonds of various
11 rating categories demonstrate that the risk-return tradeoff
12 does, in fact, exist in the capital markets.

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

15 A. It is generally accepted that the risk-return
16 tradeoff evidenced with long-term debt extends to all
17 assets. Documenting the risk-return tradeoff for assets
18 other than fixed income securities, however, is complicated
19 by two factors. First, there is no standard measure of risk
20 applicable to all assets. Second, for most assets -
21 including common stock - required rates of return cannot be
22 directly observed. Yet there is every reason to believe
23 that investors exhibit risk aversion in deciding whether or
24 not to hold common stocks and other assets, just as when
25 choosing among fixed-income securities.

1 analyzing information about capital market conditions
2 generally, assessing the relative risks of the company
3 specifically, and employing various quantitative methods
4 that focus on investors' required rates of return. These
5 various quantitative methods typically attempt to infer
6 investors' required rates of return from stock prices,
7 interest rates, or other capital market data.

8 Q. Did you rely on a single method to estimate the
9 cost of equity for Idaho Power?

10 A. No. I used both the DCF and CAPM methods to
11 estimate the cost of equity, as well as referencing
12 comparable earned rates of return expected for utilities.
13 In my opinion, comparing estimates produced by one method
14 with those produced by other approaches ensures that
15 estimates of the cost of equity pass fundamental tests of
16 reasonableness and economic logic. In addition, I applied
17 the DCF and CAPM to alternative proxy groups of comparable
18 risk firms.

19 Q. Are you aware that the IPUC has traditionally
20 relied primarily on the DCF and comparable earnings methods?

21 A. Yes, although the Commission has also evidenced a
22 willingness to weigh alternatives in evaluating an allowed
23 ROE. For example, while noting that it had not focused on
24 the CAPM for determining the cost of equity, the IPUC
25 recognized in Order No. 29505 that "methods to evaluate a
26 common equity rate of return are imperfect predictors" and

1 emphasized "that by evaluating all the methods presented in
2 this case and using each as a check on the other," the
3 Commission had avoided the pitfalls associated with reliance
4 on a single method.⁴³

5 **B. Discounted Cash Flow Analyses**

6 Q. How are DCF models used to estimate the cost of
7 equity?

8 A. DCF models attempt to replicate the market
9 valuation process that sets the price investors are willing
10 to pay for a share of a company's stock. The model rests on
11 the assumption that investors evaluate the risks and
12 expected rates of return from all securities in the capital
13 markets. Given these expectations, the price of each stock
14 is adjusted by the market until investors are adequately
15 compensated for the risks they bear. Therefore, we can look
16 to the market to determine what investors believe a share of
17 common stock is worth. By estimating the cash flows
18 investors expect to receive from the stock in the way of
19 future dividends and capital gains, we can calculate their
20 required rate of return. In other words, the cash flows
21 that investors expect from a stock are estimated, and given
22 its current market price, we can "back-into" the discount
23 rate, or cost of equity, that investors implicitly used in
24 bidding the stock to that price.

⁴³ Order No. 29505 at 38 (emphasis added).

1 Q. What market valuation process underlies DCF
2 models?

3 A. DCF models assume that the price of a share of
4 common stock is equal to the present value of the expected
5 cash flows (i.e., future dividends and stock price) that
6 will be received while holding the stock, discounted at
7 investors' required rate of return. Thus, the cost of
8 equity is the discount rate that equates the current price
9 of a share of stock with the present value of all expected
10 cash flows from the stock. Notationally, the general form
11 of the DCF model is as follows:

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

12 where: P_0 = Current price per share;
13 P_t = Expected future price per share in period
14 t;
15 D_t = Expected dividend per share in period t;
16 k_e = Cost of equity.

1 Q. What form of the DCF model is customarily used to
2 estimate the cost of equity in rate cases?

3 A. Rather than developing annual estimates of cash
4 flows into perpetuity, the DCF model can be simplified to a
5 "constant growth" form:⁴⁴

6
$$P_0 = \frac{D_1}{k_e - g}$$

7 where: P_0 = Current price per share;
8 D_1 = Expected dividend per share in coming
9 year;
10 k_e = Cost of equity;
11 g = Investors' long-term growth expectations.

12 The cost of equity (K_e) can be isolated by rearranging
13 terms:

14
$$k_e = \frac{D_1}{P_0} + g$$

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

⁴⁴ The constant growth DCF model is dependent on a number of strict assumptions, which in practice are never strictly met. These include a constant growth rate for both dividends and earnings; a stable dividend payout ratio; the discount rate exceeds the growth rate; a constant growth rate for book value and price; a constant earned rate of return on book value; no sales of stock at a price above or below book value; a constant price-earnings ratio; a constant discount rate (i.e., no changes in risk or interest rate levels and a flat yield curve); and all of the above extend to infinity.

1 Q. How did you define the utility proxy group you
2 used to implement the DCF model?

3 A. In estimating the cost of equity, the DCF model is
4 typically applied to publicly traded firms engaged in
5 similar business activities. In order to reflect the risks
6 and prospects associated with Idaho Power's electric utility
7 operations, my utility proxy group was composed of those
8 dividend-paying companies included by The Value Line
9 Investment Survey ("Value Line") in its Electric Utilities
10 Industry groups with: (1) S&P corporate credit ratings
11 between "BBB-" and "BBB+", (2) a Value Line Safety Rank of
12 "2" or "3", and (3) a Value Line Financial Strength Rating
13 of "B" to "B++". I excluded three firms that otherwise
14 would have been in the proxy group, but are not appropriate
15 for inclusion because they either do not pay common
16 dividends (El Paso Electric Company) or are in the process
17 of being acquired (Energy East Corporation and Puget Energy,
18 Inc.). These criteria resulted in a proxy group composed of
19 27 comparable risk utilities. I refer to this group as the
20 "Utility Proxy Group."

21 Q. Do these criteria provide objective evidence that
22 investors would view the firms in your Utility Proxy Group
23 as risk-comparable?

24 A. Yes. Credit ratings are assigned by independent
25 rating agencies for the purpose of providing investors with
26 a broad assessment of the creditworthiness of a firm.

1 Because the rating agencies' evaluation includes virtually
2 all of the factors normally considered important in
3 assessing a firm's relative credit standing, corporate
4 credit ratings provide a broad measure of overall investment
5 risk that is readily available to investors. Widely cited
6 in the investment community and referenced by investors as
7 an objective measure of risk, credit ratings are also
8 frequently used as a primary risk indicator in establishing
9 proxy groups to estimate the cost of equity.

10 While credit ratings provide the most widely referenced
11 benchmark for investment risks, other quality rankings
12 published by investment advisory services also provide
13 relative assessments of risk that are considered by
14 investors in forming their expectations. Value Line's
15 primary risk indicator is its Safety Rank, which ranges from
16 "1" (Safest) to "5" (Riskiest). This overall risk measure
17 is intended to capture the total risk of a stock, and
18 incorporates elements of stock price stability and financial
19 strength. Given that Value Line is perhaps the most widely
20 available source of investment advisory information, its
21 Safety Rank provides a useful guide to the likely risk
22 perceptions of investors.

23 The Financial Strength Rating is designed as a guide to
24 overall financial strength and creditworthiness, with the
25 key inputs including financial leverage, business volatility
26 measures, and company size. Value Line's Financial Strength

1 Ratings range from "A++" (strongest) down to "C" (weakest)
2 in nine steps.

3 As discussed earlier, Idaho Power is rated "BBB" by
4 S&P, which is identical to the average for the firms in the
5 Utility Proxy Group. Meanwhile, Value Line has assigned
6 IDACORP a Safety Rank of "3" and a Financial Strength Rating
7 of "B+".⁴⁵ Based on these criteria, which reflect
8 objective, published indicators that incorporate
9 consideration of a broad spectrum of risks, including
10 financial and business position, relative size, and exposure
11 to company specific factors, investors are likely to regard
12 this group as having comparable risks and prospects.

13 Q. What steps are required to apply the DCF model?

14 A. The first step in implementing the constant growth
15 DCF model is to determine the expected dividend yield
16 (D_1/P_0) for the firm in question. This is usually
17 calculated based on an estimate of dividends to be paid in
18 the coming year divided by the current price of the stock.
19 The second, and more controversial, step is to estimate
20 investors' long-term growth expectations (g) for the firm.
21 The final step is to sum the firm's dividend yield and
22 estimated growth rate to arrive at an estimate of its cost
23 of equity.

⁴⁵ As noted earlier, Idaho Power is a wholly-owned subsidiary of IDACORP. Because Value Line's risk indicators apply to publicly traded common stock, I referenced published values for IDACORP in selecting a risk-comparable proxy group.

1 Q. How was the dividend yield for the Utility Proxy
2 Group determined?

3 A. Estimates of dividends to be paid by each of these
4 utilities over the next twelve months, obtained from Value
5 Line, served as D_1 . This annual dividend was then divided
6 by the corresponding stock price for each utility to arrive
7 at the expected dividend yield. The expected dividends,
8 stock prices, and resulting dividend yields for the firms in
9 the Utility Proxy Group are presented on Exhibit No. 17. As
10 shown there, dividend yields for the firms in the Utility
11 Proxy Group ranged from 1.2 percent to 6.1 percent.

12 Q. What is the next step in applying the constant
13 growth DCF model?

14 A. The next step is to evaluate long-term growth
15 expectations, or "g", for the firm in question. In constant
16 growth DCF theory, earnings, dividends, book value, and
17 market price are all assumed to grow in lockstep, and the
18 growth horizon of the DCF model is infinite. But
19 implementation of the DCF model is more than just a
20 theoretical exercise; it is an attempt to replicate the
21 mechanism investors used to arrive at observable stock
22 prices. A wide variety of techniques can be used to derive
23 growth rates, but the only "g" that matters in applying the
24 DCF model is the value that investors expect.

1 Q. Are historical growth rates likely to be
2 representative of investors' expectations for utilities?

3 A. No. If past trends in earnings, dividends, and
4 book value are to be representative of investors'
5 expectations for the future, then the historical conditions
6 giving rise to these growth rates should be expected to
7 continue. That is clearly not the case for utilities, where
8 structural and industry changes have led to declining
9 dividends, earnings pressure, and, in many cases,
10 significant write-offs. While these conditions serve to
11 depress historical growth measures, they are not
12 representative of long-term expectations for the utility
13 industry. Moreover, to the extent historical trends for
14 utilities are meaningful, they are also captured in
15 projected growth rates, since securities analysts also
16 routinely examine and assess the impact and continued
17 relevance (if any) of historical trends.

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

20 A. While the DCF model is technically concerned with
21 growth in dividend cash flows, implementation of this DCF
22 model is solely concerned with replicating the forward-
23 looking evaluation of real-world investors. In the case of
24 utilities, dividend growth rates are not likely to provide a
25 meaningful guide to investors' current growth expectations.
26 This is because utilities have significantly altered their

1 dividend policies in response to more accentuated business
2 risks in the industry.⁴⁶ As a result of this trend towards
3 a more conservative payout ratio, dividend growth in the
4 utility industry has remained largely stagnant as utilities
5 conserve financial resources to provide a hedge against
6 heightened uncertainties.

7 As payout ratios for firms in the utility industry
8 trended downward, investors' focus has increasingly shifted
9 from dividends to earnings as a measure of long-term growth.
10 Future trends in earnings, which provide the source for
11 future dividends and ultimately support share prices, play a
12 pivotal role in determining investors' long-term growth
13 expectations. The importance of earnings in evaluating
14 investors' expectations and requirements is well accepted in
15 the investment community. As noted in *Finding Reality in*
16 *Reported Earnings* published by the Association for
17 Investment Management and Research:

18 [E]arnings, presumably, are the basis for the
19 investment benefits that we all seek. "Healthy
20 earnings equal healthy investment benefits" seems
21 a logical equation, but earnings are also a
22 scorecard by which we compare companies, a filter
23 through which we assess management, and a crystal
24 ball in which we try to foretell future
25 performance.⁴⁷

⁴⁶ For example, the payout ratio for electric utilities fell from approximately 80 percent historically to on the order of 60 percent. The Value Line Investment Survey (Sep. 15, 1995 at 161, Dec. 28, 2007 at 695).

⁴⁷ Association for Investment Management and Research, "Finding Reality in Reported Earnings: An Overview", p. 1 (Dec. 4, 1996).

1 Value Line's near-term projections and its Timeliness
2 Rank,⁴⁸ which is the principal investment rating assigned to
3 each individual stock, are also based primarily on various
4 quantitative analyses of earnings. As Value Line explained:

5 The future earnings rank accounts for 65% in the
6 determination of relative price change in the
7 future; the other two variables (current earnings
8 rank and current price rank) explain 35%.⁴⁹

9 The fact that investment advisory services focus on
10 growth in earnings indicates that the investment community
11 regards this as a superior indicator of future long-term
12 growth. Indeed, "A Study of Financial Analysts: Practice
13 and Theory," published in the *Financial Analysts Journal*,
14 reported the results of a survey conducted to determine what
15 analytical techniques investment analysts actually use.⁵⁰
16 Respondents were asked to rank the relative importance of
17 earnings, dividends, cash flow, and book value in analyzing
18 securities. Of the 297 analysts that responded, only 3
19 ranked dividends first while 276 ranked it last. The
20 article concluded:

21 Earnings and cash flow are considered far more
22 important than book value and dividends.⁵¹

⁴⁸ The Timeliness Rank presents Value Line's assessment of relative price performance during the next six to twelve months based on a five point scale.

⁴⁹ The Value Line Investment Survey, *Subscriber's Guide*, p. 53.

⁵⁰ Block, Stanley B., "A Study of Financial Analysts: Practice and Theory", *Financial Analysts Journal* (July/August 1999).

⁵¹ *Id.* at 88.

1 More recently, the *Financial Analysts Journal* reported the
2 results of a study of the relationship between valuations
3 based on alternative multiples and actual market prices,
4 which concluded, "In all cases studied, earnings dominated
5 operating cash flows and dividends."⁵²

6 Q. What are security analysts currently projecting in
7 the way of growth for the firms in the Utility Proxy Group?

8 A. The earnings growth projections for each of the
9 firms in the Utility Proxy Group reported by Value Line,
10 Thomson Financial ("Thomson"),⁵³ and Zacks Investment
11 Research ("Zacks") are displayed on Exhibit No. 17.

12 Q. How else are investors' expectations of future
13 long-term growth prospects often estimated for use in the
14 constant growth DCF model?

15 A. Based on the assumptions underlying constant
16 growth theory, conventional applications of the constant
17 growth DCF model often examine the relationship between
18 retained earnings and earned rates of return as an
19 indication of the sustainable growth investors might expect
20 from the reinvestment of earnings within a firm. The
21 sustainable growth rate is calculated by the following
22 formula:

⁵² Liu, Jing, Nissim, Doron, & Thomas, Jacob, "Is Cash Flow King in Valuations?," *Financial Analysts Journal*, Vol. 63, No. 2 (March/April 2007) at 56.

⁵³ Thomson Financial, an arm of The Thomson Corporation, compiles and publishes consensus securities analyst growth rates under the IBES and First Call brands.

1 $g = br + sv$

2 where: g = investors' expected long-term
3 growth rate;
4 b = expected retention ratio;
5 r = expected earned return on
6 equity;
7 s = percent of common equity
8 expected to be issued annually
9 as new common stock; and,
10 v = expected equity accretion rate.

11 Q. What is the purpose of the "sv" term?

12 A. Under DCF theory, the "sv" factor is a component
13 of the growth rate designed to capture the impact of issuing
14 new common stock at a price above, or below, book value.
15 When a company's stock price is greater than its book value
16 per share, the per-share contribution in excess of book
17 value associated with new stock issues will accrue to the
18 current shareholders. This increase to the book value of
19 existing shareholders leads to higher expected earnings and
20 dividends, with the "sv" factor incorporating this
21 additional growth component.

22 Q. What growth rate does the earnings retention
23 method suggest for the Utility Proxy Group?

24 A. The sustainable, "br+sv" growth rates for each
25 firm in the Utility Proxy Group are summarized on Exhibit
26 No. 17, with the underlying details being presented on
27 Exhibit No. 18. For each firm, the expected retention ratio
28 (b) was calculated based on Value Line's projected dividends
29 and earnings per share. Likewise, each firm's expected
30 earned rate of return (r) was computed by dividing projected

1 earnings per share by projected net book value. Because
2 Value Line reports end-of-year book values, an adjustment
3 was incorporated to compute an average rate of return over
4 the year, consistent with the theory underlying this
5 approach to estimating investors' growth expectations.
6 Meanwhile, the percent of common equity expected to be
7 issued annually as new common stock (s) was equal to the
8 product of the projected market-to-book ratio and growth in
9 common shares outstanding, while the equity accretion rate
10 (v) was computed as 1 minus the inverse of the projected
11 market-to-book ratio.

12 Q. What cost of equity estimates were implied for the
13 Utility Proxy Group using the DCF model?

14 A. After combining the dividend yields and respective
15 growth projections for each utility, the resulting cost of
16 equity estimates are shown on Exhibit No. 17.

17 Q. In evaluating the results of the constant growth
18 DCF model, is it appropriate to eliminate cost of equity
19 estimates that fail to meet threshold tests of economic
20 logic?

21 A. Yes. It is a basic economic principle that
22 investors can be induced to hold more risky assets only if
23 they expect to earn a return to compensate them for their
24 risk bearing. As a result, the rate of return that
25 investors require from a utility's common stock, the most
26 junior and highest risk of its securities, must be

1 considerably higher than the yield offered by senior, long-
2 term debt. Consistent with this principle, the DCF range
3 for the Utility Proxy Group must be adjusted to eliminate
4 cost of equity estimates that fail fundamental tests of
5 economic logic.

6 Q. Have similar tests been applied by regulators?

7 A. Yes. The FERC has noted that adjustments are
8 justified where applications of the DCF approach produce
9 illogical results. FERC evaluates DCF results against
10 observable yields on long-term public utility debt and has
11 recognized that it is appropriate to eliminate cost of
12 equity estimates that do not sufficiently exceed this
13 threshold. In a 2000 opinion establishing its current
14 precedent for determining ROEs for electric utilities, for
15 example, FERC concluded:

16 An adjustment to this data is appropriate in the
17 case of PG&E's low-end return of 8.42%, which is
18 comparable to the average Moody's "A" grade public
19 utility bond yield of 8.06%, for October 1999.
20 Because investors cannot be expected to purchase
21 stock if debt, which has less risk than stock,
22 yields essentially the same return, this low-end
23 return cannot be considered reliable in this
24 case.⁵⁴

25 Similarly, in its October 2006 decision in *Kern River Gas*
26 *Transmission Company*, FERC noted that:

27 [T]he 7.31 and 7.32% costs of equity for El Paso
28 and Williams found by the ALJ are only 110 and 122

⁵⁴ *Southern California Edison Company*, 92 FERC ¶ 61,070 (2000) at p. 22.

1 basis points above that average yield for public
2 utility debt.⁵⁵

3 FERC upheld the opinion of Staff and the Administrative Law
4 Judge that cost of equity estimates for these two proxy
5 group companies "were too low to be credible."⁵⁶

6 Q. What does this test of logic imply with respect to
7 the DCF results for the Utility Proxy Group?

8 A. The average credit rating associated with the
9 firms in the Utility Proxy group is "BBB". Corporate credit
10 ratings of "BBB-", "BBB", and "BBB+" are all considered part
11 of the triple-B rating category, with Moody's monthly yields
12 on triple-B bonds averaging approximately 6.9 percent in May
13 2008.⁵⁷ As highlighted on Exhibit No. 17, eight of the
14 individual equity estimates for the firms in the Utility
15 Proxy Group fell below 8 percent.⁵⁸ In light of the risk-
16 return tradeoff principle, it is inconceivable that
17 investors are not requiring a substantially higher rate of
18 return for holding common stock, which is the riskiest of a
19 utility's securities. As a result, these values provide
20 little guidance as to the returns investors require from the
21 common stock of an electric utility.

⁵⁵ *Kern River Gas Transmission Company*, Opinion No. 486, 117 FERC ¶ 61,077 at P 140 & n. 227 (2006).

⁵⁶ *Id.*

⁵⁷ Moody's Investors Service, www.CreditTrends.com.

⁵⁸ As highlighted on Exhibit 2, these DCF estimates ranged from 6.2 percent to 7.8 percent.

1 Q. Do you also recommend excluding cost of equity
2 estimates at the high end of the range of DCF results?

3 A. Yes. The upper end of the cost of equity range
4 produced by the DCF analysis presented in Exhibit No. 17 was
5 set by a cost of equity estimate of 23.0 percent for
6 Allegheny Energy, with eleven other DCF estimates ranging
7 from 17.1 percent to 22.7 percent. Compared with the
8 balance of the remaining estimates, these results are
9 extreme outliers and should also be excluded in evaluating
10 the results of the DCF model for the Utility Proxy Group.
11 This is also consistent with the threshold adopted by FERC,
12 which established that a 17.7 percent DCF estimate for was
13 "an extreme outlier" and should be disregarded.⁵⁹

14 Q. What cost of equity is implied by your DCF results
15 for the Utility Proxy Group?

16 A. As shown on Exhibit No. 17 and summarized in Table
17 1, below, after eliminating illogical low- and high-end
18 values, application of the constant growth DCF model
19 resulted in the following cost of equity estimates:

20 TABLE 1
21 DCF RESULTS - UTILITY PROXY GROUP

<u>Growth Rate</u>	<u>Average Cost of Equity</u>
Value Line	11.7%
IBES	11.6%
Zacks	11.1%
br+sv	9.5%

⁵⁹ *ISO New England, Inc.*, 109 FERC ¶ 61,147 at P 205 (2004).

1 Q. What criteria did you apply to develop the Non-
2 Utility Proxy Group?

3 A. To reflect investors' risk perceptions in
4 developing the Non-Utility Proxy Group, my assessment of
5 comparable risk relied on three objective benchmarks for the
6 risks associated with common stocks - Value Line's Safety
7 Rank, Financial Strength Rating, and beta. Given that Value
8 Line is perhaps the most widely available source of
9 investment advisory information, its Safety Rank and
10 Financial Strength Rating provide useful guidance regarding
11 the risk perceptions of investors. These objective,
12 published indicators incorporate consideration of a broad
13 spectrum of risks, including financial and business
14 position, relative size, and exposure to company-specific
15 factors.

16 My comparable risk proxy group was composed of those
17 U.S. companies followed by Value Line that: 1) pay common
18 dividends; 2) have a Safety Rank of "1"; 3) have a Financial
19 Strength Rating of "A" or above; and 4) have beta values of
20 0.90 or less.⁶⁰ Consistent with the development of my
21 Utility Proxy Group, I also eliminated firms with below-
22 investment grade credit ratings. Table 2 compares the Non-

⁶⁰ This threshold corresponds to the average betas for the Electric Utility Proxy Group of 0.88.

1 Utility Proxy Group with the Utility Proxy Group and Idaho
2 Power across four key indicators of investment risk:⁶¹

3 TABLE 2
4 COMPARISON OF RISK INDICATORS

	S&P Credit Rating	Value Line		
		Safety Rank	Financial Strength	Beta
Non-Utility Group	A+	1	A+	0.79
Utility Proxy Group	BBB	3	B+	0.88
Idaho Power	BBB	3	B+	0.90

5 Considered along with S&P's corporate credit ratings, a
6 comparison of these Value Line indicators suggests that the
7 investment risks associated with the Non-Utility Proxy Group
8 are below those of the group of utilities and Idaho Power.

9 Q. What were the results of your DCF analysis for the
10 Non-Utility Proxy Group?

11 A. As shown on Exhibit No. 19, I applied the DCF
12 model to the Non-Utility Proxy Group in exactly the same
13 manner described earlier for the Utility Proxy Group.⁶² As
14 summarized in Table 3, below, after eliminating illogical
15 low- and high-end values, application of the constant growth
16 DCF model resulted in the following cost of equity
17 estimates:

⁶¹ Because Idaho Power has no publicly traded common stock, the Value Line risk measures shown reflect those published for its parent, IDACORP. As explained earlier, in my opinion these risk measures are indicative of the risk of Idaho Power.

⁶² Exhibit 5 contains the details underlying the calculation of the br+sv growth rates for the Non-Utility Proxy Group.

1
2

TABLE 3
DCF RESULTS - NON-UTILITY PROXY GROUP

<u>Growth Rate</u>	<u>Average Cost of Equity</u>
Value Line	12.3%
IBES	12.8%
Zacks	12.5%
br+sv	12.7%

3 Q. What did you conclude based on the results of the
4 DCF analyses for the Non-Utility Proxy Group?

5 A. Taken together, I concluded that the constant
6 growth DCF results for the Non-Utility Proxy Group implied a
7 cost of equity of 12.6 percent. As discussed earlier,
8 reference to the Non-Utility Proxy Group is consistent with
9 established regulatory principles and required returns for
10 utilities should be in line with those of non-utility firms
11 of comparable risk operating under the constraints of free
12 competition.

13 Q. Do you believe the DCF model should be relied on
14 exclusively to evaluate a reasonable ROE for the proxy
15 groups or Idaho Power?

16 A. No. Because the cost of equity is unobservable,
17 no single method should be viewed in isolation. While the
18 DCF model has been routinely relied on in regulatory
19 proceedings as one guide to investors' required return, it
20 is widely recognized that no single method can be regarded
21 as definitive. For example, a publication of the Society of
22 Utility and Financial Analysts (formerly the National
23 Society of Rate of Return Analysts), concluded that:

1 Each model requires the exercise of judgment as to
2 the reasonableness of the underlying assumptions
3 of the methodology and on the reasonableness of
4 the proxies used to validate the theory. Each
5 model has its own way of examining investor
6 behavior, its own premises, and its own set of
7 simplifications of reality. Each method proceeds
8 from different fundamental premises, most of which
9 cannot be validated empirically. Investors
10 clearly do not subscribe to any singular method,
11 nor does the stock price reflect the application
12 of any one single method by investors.⁶³

13 Moreover, evidence suggests that reliance on the DCF model
14 as a tool for estimating investors' required rate of return
15 has declined outside the regulatory sphere, with the CAPM
16 being "the dominant model for estimating the cost of
17 equity."⁶⁴

18 **C. Capital Asset Pricing Model**

19 Q. Please describe the CAPM.

20 A. The CAPM is generally considered to be the most
21 widely referenced method for estimating the cost of equity
22 both among academicians and professional practitioners, with
23 the pioneering researchers of this method receiving the
24 Nobel Prize in 1990. The CAPM is a theory of market
25 equilibrium that measures risk using the beta coefficient.
26 Because investors are assumed to be fully diversified, the

⁶³ Parcell, David C., "The Cost of Capital - A Practitioner's Guide," *Society of Utility and Regulatory Financial Analysts* (1997) at Part 2, p. 4.

⁶⁴ See e.g., Bruner, R.F., Eades, K.M., Harris, R.S., and Higgins, R.C., "Best Practices in Estimating Cost of Capital: Survey and Synthesis," *Financial Practice and Education* (1998).

1 relevant risk of an individual asset (e.g., common stock) is
2 its volatility relative to the market as a whole, with beta
3 reflecting the tendency of a stock's price to follow changes
4 in the market. The CAPM is mathematically expressed as:

$$5 \quad R_j = R_f + \beta_j (R_m - R_f)$$

6 where: R_j = required rate of return for stock j ;
7 R_f = risk-free rate;
8 R_m = expected return on the market portfolio;
9 and,
10 β_j = beta, or systematic risk, for stock j .

11 Like the DCF model, the CAPM is an *ex-ante*, or forward-
12 looking model based on expectations of the future. As a
13 result, in order to produce a meaningful estimate of
14 investors' required rate of return, the CAPM should be
15 applied using estimates that reflect the expectations of
16 actual investors in the market, not with backward-looking,
17 historical data.

18 Q. How did you apply the CAPM to estimate the cost of
19 equity?

20 A. Application of the CAPM to the utility proxy group
21 based on a forward-looking estimate for investors' required
22 rate of return from common stocks is presented on Exhibit
23 No. 21. In order to capture the expectations of today's
24 investors in current capital markets, the expected market
25 rate of return was estimated by conducting a DCF analysis on
26 the dividend paying firms in the S&P 500 Composite Index
27 ("S&P 500").

1 The dividend yield for each firm was obtained from
2 Value Line, with the growth rate being equal to the average
3 of the earnings growth projections for each firm published
4 by IBES and Value Line, with each firm's dividend yield and
5 growth rate being weighted by its proportionate share of
6 total market value. Based on the weighted average of the
7 projections for the 350 individual firms, current estimates
8 imply an average growth rate over the next five years of
9 10.6 percent. Combining this average growth rate with a
10 dividend yield of 2.4 percent results in a current cost of
11 equity estimate for the market as a whole of approximately
12 12.9 percent. Subtracting a 4.6 percent risk-free rate
13 based on the average yield on 20-year Treasury bonds for May
14 2008 produced a market equity risk premium of 8.3 percent.
15 As shown on Exhibit No. 21, multiplying this risk premium by
16 the average Value Line beta of 0.88 for the Utility Proxy
17 Group, and then adding the resulting 7.3 percent risk
18 premium to the average long-term Treasury bond yield,
19 indicated an ROE of approximately 11.9 percent.

20 Q. What cost of equity was indicated for the Non-
21 Utility Proxy Group based on this forward-looking
22 application of the CAPM?

23 A. As shown on Exhibit No. 22, applying the forward-
24 looking CAPM approach to the firms in the Non-Utility Proxy
25 Group implied a cost of equity estimate of 11.2 percent.

1 distribution utilities will earn an average rate of return
2 on common equity of 11.5 percent in 2008 and 12.0 percent in
3 2009, and 12.5 percent over the years 2011-2013.⁶⁶

4 For the firms in the Utility Proxy Group specifically,
5 the returns on common equity projected by Value Line over
6 its three-to-five year forecast horizon are shown on Exhibit
7 No. 25. Consistent with the rationale underlying the
8 development of the br+sv growth rates discussed earlier,
9 these year-end values were converted to average returns
10 using the same adjustment factor developed in Exhibit No.
11 18. As shown on Exhibit No. 25, after eliminating extreme
12 outliers, Value Line's projections suggested an average ROE
13 of 11.1 percent.

14 Q. What return on equity is indicated by the results
15 of the comparable earnings approach?

16 A. Based on the results discussed above, I concluded
17 that the comparable earnings approach implies a fair rate of
18 return on equity of at least 11.1 percent.

19 E. Summary of Results

20 Q. Please summarize the results of your quantitative
21 analyses.

22 A. The cost of equity estimates implied by my
23 quantitative analyses are summarized in Table 4 below:

⁶⁶ The Value Line Investment Survey at 446 (Mar. 14, 2008).

1
2

TABLE 4
SUMMARY OF QUANTITATIVE RESULTS

<u>Method</u>	<u>Utility</u>	<u>Non-Utility</u>
DCF	11.0%	12.6%
CAPM		
Forward-Looking	11.9%	11.2%
Historical	10.8%	10.2%
Comparable Earnings	11.1%	

3

F. Flotation Costs

4

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

5

6

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

7

8

9

10

11

12

13

14

15

16

17

18

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

19

20

A. No. While debt flotation costs are recorded on the books of the utility, amortized over the life of the

21

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

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

21 A. There are any number of ways in which a flotation
22 cost adjustment can be calculated, and the adjustment can
23 range from just a few basis points to more than a full
24 percent. One of the most common methods used to account for
25 flotation costs in regulatory proceedings is to apply an
26 average flotation-cost percentage to a utility's dividend

1 yield. Based on a review of the finance literature,
2 *Regulatory Finance: Utilities' Cost of Capital* concluded:

3 The flotation cost allowance requires an estimated
4 adjustment to the return on equity of
5 approximately 5% to 10%, depending on the size and
6 risk of the issue.⁶⁷

7 Alternatively, a study of data from Morgan Stanley regarding
8 issuance costs associated with utility common stock
9 issuances suggests an average flotation cost percentage of
10 3.6 percent.⁶⁸ Applying these expense percentages to a
11 representative dividend yield for a utility of 3.9 percent
12 implies a flotation cost adjustment on the order of 14 to 39
13 basis points.

14 Q. Has the IPUC Staff previously considered flotation
15 costs in establishing a fair ROE for Idaho Power?

16 A. Yes. For example, in Case No. IPC-E-07-8, IPUC
17 Staff witness Terri Carlock noted that she had adjusted her
18 DCF analysis to incorporate an allowance for flotation
19 costs.⁶⁹ While issuance costs are a legitimate
20 consideration in setting the return on equity for a utility,

⁶⁷ Roger A. Morin, *Regulatory Finance: Utilities' Cost of Capital*, 1994, at 166.

⁶⁸ *Application of Yankee Gas Services Company for a Rate Increase*, DPUC Docket No. 04-06-01, Direct Testimony of George J. Eckenroth (Jul. 2, 2004) at Exhibit GJE-11.1. Updating the results presented by Mr. Eckenroth through April 2005 also resulted in an average flotation cost percentage of 3.6 percent.

⁶⁹ Case No. IPC-E-07-8, *Direct Testimony of Terri Carlock* at 10 (Dec. 10, 2007).

1 a specific adjustment for flotation costs was not included
2 in defining my recommended ROE range.

3 **IV. RETURN ON EQUITY FOR IDAHO POWER COMPANY**

4 Q. What is the purpose of this section?

5 A. In addition to presenting the conclusions of my
6 evaluation of a fair rate of return on equity for Idaho
7 Power, this section also discusses the relationship between
8 ROE and preservation of a utility's financial integrity and
9 the ability to attract capital under reasonable terms on a
10 sustainable basis.

11 **A. Implications for Financial Integrity**

12 Q. Why is it important to allow Idaho Power an
13 adequate ROE?

14 A. Given the social and economic importance of the
15 utility industry, it is essential to maintain reliable and
16 economical service to all consumers. While Idaho Power
17 remains committed to deliver reliable service, a utility's
18 ability to fulfill its mandate can be compromised if it
19 lacks the necessary financial wherewithal. Coupled with the
20 ongoing potential for energy market volatility, Idaho
21 Power's exposure to variations in hydroelectric generation
22 and plans for significant infrastructure investment pose a
23 number of potential challenges that might require the
24 relatively swift commitment of significant capital resources

1 in order to maintain the high level of service that
2 customers have come to expect.

3 As documented earlier, the major rating agencies have
4 warned of exposure to uncertainties associated with
5 political and regulatory developments, especially in view of
6 the potential for high and volatile commodity costs in
7 competitive energy markets. Investors understand how
8 swiftly unforeseen circumstances can lead to deterioration
9 in a utility's financial condition, and stakeholders have
10 discovered first hand how difficult and complex it can be to
11 remedy the situation after the fact. For a utility with an
12 obligation to provide reliable service, investors' increased
13 reticence to supply additional capital during times of
14 crisis highlights the necessity of preserving the
15 flexibility necessary to overcome periods of adverse capital
16 market conditions.

17 Q. What role does regulation play in ensuring Idaho
18 Power's access to capital?

19 A. Considering investors' heightened awareness of the
20 risks associated with the utility industry and the damage
21 that results when a utility's financial flexibility is
22 compromised, supportive regulation remains crucial to Idaho
23 Power's access to capital. Investors recognize that
24 regulation has its own risks, and that constructive
25 regulation is a key ingredient in supporting utility credit
26 ratings and financial integrity, particularly during times

1 of adverse conditions. S&P concluded, "The political
2 atmosphere will remain highly charged, fostering
3 uncertainty."⁷⁰ Moody's echoed these sentiments, noting
4 that "regulatory relationships are becoming more important"
5 in an era of broadly rising costs and uncertainties,⁷¹ and
6 concluding:

7 [T]here are concerns arising from the sector's
8 sizeable infrastructure investment plans in the
9 face of an environment of steadily rising
10 operating costs. Combined, these costs and
11 investments can create a continuous need for
12 regulatory rate relief, which in turn can increase
13 the likelihood for political and/or regulatory
14 intervention.⁷²

15 The rapid rise in wholesale energy prices has
16 heightened investor concerns over the implications for
17 regulatory uncertainty. The Wall Street Journal reported in
18 May 2008 that escalating fuel costs were leading to soaring
19 utility bills across the nation, raising the specter that
20 social pressures could impact the outcome of regulatory
21 proceedings.⁷³ S&P noted that, while timely cost recovery
22 was paramount to maintaining credit quality in the utility
23 sector, an "environment of rising customer tariffs, coupled

⁷⁰ Standard & Poor's Corporation, "Top Ten Credit Issues Facing U.S. Utilities," *RatingsDirect* (Jan. 29, 2007).

⁷¹ Moody's Investors Service, "Regulatory Pressures Increase for U.S. Electric Utilities," *Special Comment* (March 2007).

⁷² Moody's Investors Service, "Storm Clouds Gathering on the Horizon for the North American Electric Utility Sector," *Special Comment* (Aug. 2007).

⁷³ Smith, Rebecca, "Expect a Jolt When Opening The Electric Bill," *Wall Street Journal* at D1 (May 7, 2008).

1 with a sluggish economy, portend a difficult regulatory
2 environment in coming years."⁷⁴

3 Q. What danger does an inadequate rate of return pose
4 to Idaho Power?

5 A. Given the pressure on Idaho Power's financial
6 metrics and its declining credit standing, which is
7 exemplified by the negative outlook assigned by Moody's and
8 Fitch, the perception of a lack of regulatory support would
9 almost certainly lead to further downgrades. As Moody's
10 concluded, "A key consideration in order for [Idaho Power]
11 to stabilize its rating outlook and maintain its Baal senior
12 unsecured rating will be the extent to which the IPUC is
13 supportive in any future regulatory filings."⁷⁵

14 At the same time, Idaho Power's plans include
15 significant plant investment to ensure that the energy needs
16 of its service territory are met in a reliable and cost-
17 effective manner. Fitch noted that "[m]eaningful price
18 increases will be required to recover planned capital
19 expenditures to meet infrastructure and growth
20 requirements,"⁷⁶ while S&P cited "[r]egulatory challenges in
21 meeting rising costs and a large capital expenditure

⁷⁴ Standard & Poor's Corporation, "Top 10 U.S. Electric Utility Credit Issues For 2008 And Beyond," *RatingsDirect* (Jan. 28, 2008).

⁷⁵ Moody's Investors Service, "Credit Opinion: Idaho Power Company," *Global Credit Research* (June 4, 2008).

⁷⁶ Fitch Ratings, Ltd., "Idaho Power Company," *Global Power U.S. and Canada Credit Analysis* (Apr. 10, 2008).

1 program" as a key risk exposure.⁷⁷ While providing the
2 infrastructure necessary to meet the energy needs of
3 customers is certainly desirable, it imposes additional
4 financial responsibilities on Idaho Power. To continue to
5 meet these challenges successfully and economically, it is
6 crucial that Idaho Power receive adequate support to
7 buttress its credit standing.

8 Q. Do customers benefit by enhancing the utility's
9 financial flexibility?

10 A. Yes. While providing an ROE that is sufficient to
11 maintain Idaho Power's ability to attract capital, even in
12 times of financial and market stress, is consistent with the
13 economic requirements embodied in the Supreme Court's *Hope*
14 and *Bluefield* decisions, it is also in customers' best
15 interests. Ultimately, it is customers and the service area
16 economy that enjoy the benefits that come from ensuring that
17 the utility has the financial wherewithal to take whatever
18 actions are required to ensure reliable service. By the
19 same token, customers also bear a significant burden when
20 the ability of the utility to attract necessary capital is
21 impaired and service quality is compromised.

⁷⁷ Standard & Poor's Corporation, "Idaho Power Co.," *RatingsDirect* (Feb. 1, 2008).

1 B. 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, or
6 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 which
11 lenders are exposed, and they require correspondingly higher
12 rates of interest. From common shareholders' standpoint, a
13 higher debt ratio means that there are proportionately more
14 investors ahead of them, thereby increasing the uncertainty
15 as to the amount of cash flow, if any, that will remain.

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

18 A. Idaho Power's capital structure is presented in
19 the testimony of Mr. Steve Keen. As summarized in his
20 testimony, the common equity ratio used to compute Idaho
21 Power's overall rate of return was approximately 49 percent
22 in this filing.

23 Q. What was the average capitalization maintained by
24 the Utility Proxy Group?

25 A. As shown on Exhibit No. 26, for the firms in the
26 Utility Proxy Group, common equity ratios at December 31,

1 2007 ranged from 13.8 percent to 57.9 percent and averaged
2 43.3 percent. Value Line expects that the average common
3 equity ratio for the proxy group of electric utilities will
4 average 47.6 percent over the next three to five years, with
5 the individual common equity ratios ranging from 29.0
6 percent to 59.5 percent.

7 Q. What implication do the uncertainties facing the
8 utility industry have for the capital structures maintained
9 by electric utilities?

10 A. As discussed earlier, utilities are facing energy
11 market volatility, rising cost structures, the need to
12 finance significant capital investment plans, uncertainties
13 over accommodating future environmental mandates, and
14 ongoing regulatory risks. Coupled with a decline in credit
15 quality, these considerations warrant a stronger balance
16 sheet to deal with an increasingly uncertain and competitive
17 market. A more conservative financial profile, in the form
18 of a higher common equity ratio, is consistent with
19 increasing uncertainties and the need to maintain the
20 continuous access to capital that is required to fund
21 operations and necessary system investment, even during
22 times of adverse capital market conditions.

23 Moody's has warned investors of the risks associated
24 with debt leverage and fixed obligations and advised
25 utilities not to squander the opportunity to strengthen the

1 balance sheet as a buffer against future uncertainties.⁷⁸
2 Moody's recently noted that, absent a stronger equity
3 cushion, utilities would be faced with lower credit ratings
4 in the face of rising business and operating risks:

5 There are significant negative trends developing
6 over the longer-term horizon. This developing
7 negative concern primarily relates to our view
8 that the sector's overall business and operating
9 risks are rising - at an increasingly fast pace -
10 but that the overall financial profile remains
11 relatively steady. A rising risk profile
12 accompanied by a relatively stable balance sheet
13 profile would ultimately result in credit quality
14 deterioration.⁷⁹

15 This is especially the case for electric utilities that are
16 exposed to potential significant fluctuations in power
17 supply costs, such as Idaho Power.

18 Q. What other factors do investors consider in their
19 assessment of a company's capital structure?

20 A. Because power purchase agreements ("PPAs") and
21 other contractual commitments typically obligate the utility
22 to make specified minimum payments akin to those associated
23 with traditional debt financing, investors consider a
24 portion of these obligations as debt in evaluating total
25 financial risks. Similarly, when a utility enters into a
26 mandated PPA with a Qualifying Facility under PURPA, the

⁷⁸ Moody's Investors Service, "Storm Clouds Gathering on the Horizon for the North American Electric Utility Sector," *Special Comment* (Aug. 2007).

⁷⁹ Moody's Investors Service, "U.S. Electric Utility Sector," *Industry Outlook* (Jan. 2008).

1 fixed charges associated with the contract increase the
2 utility's financial risk in the same way that long-term debt
3 and other financial obligations increase financial leverage.

4 Reflecting the longstanding perception of investors
5 that the fixed obligations associated with off-balance sheet
6 obligations diminish a utility's creditworthiness and
7 financial flexibility, the implications of these commitments
8 have been repeatedly cited by major bond rating agencies in
9 connection with assessments of utility financial risks. For
10 example, in explaining its evaluation of the credit
11 implications of off-balance sheet obligations, S&P affirmed
12 its position that such agreements give rise to "debt
13 equivalents" and that the increased financial risk must be
14 considered in evaluating a utility's credit risks.⁸⁰

15 Q. What did you conclude with respect to the
16 Company's capital structure?

17 A. Based on my evaluation, I concluded that Idaho
18 Power's requested capital structure represents a reasonable
19 mix of capital sources from which to calculate the Company's
20 overall rate of return. Idaho Power's requested common
21 equity ratio of approximately 49 percent is consistent with
22 the range of capitalizations implied for the Utility Proxy

⁸⁰ Standard & Poor's Corporation, "Standard & Poor's Methodology For Imputing Debt For U.S. Utilities' Power Purchase Agreements," *RatingsDirect* (May 7, 2007).

1 Group based on year-end 2007 data and Value Line's Line's
2 near-term projections.

3 While industry averages provide one benchmark for
4 comparison, each firm must select its capitalization based
5 on the risks and prospects it faces, as well its specific
6 needs to access the capital markets. A public utility with
7 an obligation to serve must maintain ready access to capital
8 under reasonable terms so that it can meet the service
9 requirements of its customers. The need for access becomes
10 even more important when the company has capital
11 requirements over a period of years, and financing must be
12 continuously available, even during unfavorable capital
13 market conditions.

14 The decline in Idaho Power's credit standing and the
15 heightened uncertainty associated with energy market
16 volatility magnifies the importance of preserving financial
17 flexibility. Idaho Power's capital structure reflects the
18 Company's ongoing efforts to support its financial integrity
19 and maintain access to capital on reasonable terms. As
20 indicated earlier, the challenges posed by significant
21 capital requirements, volatile energy prices, and reliance
22 on hydro generation and wholesale markets magnifies the
23 importance of preserving financial flexibility. The rating
24 agencies have observed that Idaho Power's financial metrics
25 have been under pressure, and utilities with higher leverage
26 may be foreclosed from additional borrowing, especially

1 during times of stress. In this regard, Idaho Power's
2 equity ratio reflects the challenges posed by its resource
3 mix, as well as the burden of significant capital spending
4 requirements.

5 **C. Return on Equity Recommendation**

6 Q. Please summarize the results of your analyses.

7 A. Reflecting the fact that investors' required ROE
8 is unobservable and no single method should be viewed in
9 isolation, I considered the results of both the DCF and CAPM
10 methods and evaluated comparable earned rates of return
11 expected for utilities. In order to reflect the risks and
12 prospects associated with Idaho Power's jurisdictional
13 electric utility operations, my analyses focused on a proxy
14 group of twenty-seven comparable risk electric utilities.
15 Consistent with the fact that utilities must compete for
16 capital with firms outside their own industry, I also
17 referenced a proxy group of comparable risk companies in the
18 non-utility sectors of the economy.

19 My application of the constant growth DCF model
20 considered three alternative growth measures based on
21 projected earnings growth, as well as the sustainable,
22 "br+sv" growth rate for each firm in the respective proxy
23 groups. In addition, I evaluated the reasonableness of the
24 resulting DCF estimates and eliminated low- and high-end
25 outliers that failed to meet threshold tests of economic
26 logic. My CAPM analyses focused on forward-looking data

1 that best reflects the underlying assumptions of this
2 approach, as well as considering historical risk premiums.
3 The results of my alternative analyses were summarized
4 earlier in Table 4, which is reproduced below:

5 TABLE 4
6 SUMMARY OF QUANTITATIVE RESULTS

<u>Method</u>	<u>Utility</u>	<u>Non-Utility</u>
DCF	11.0%	12.6%
CAPM		
Forward-Looking	11.9%	11.2%
Historical	10.8%	10.2%
Comparable Earnings	11.1%	

7 Based on my assessment of the relative strengths and
8 weaknesses inherent in each method, and conservatively
9 giving less emphasis to the upper-most end of the range of
10 results, I concluded that the cost of equity indicated by my
11 analyses is in the 10.8 percent to 11.8 percent range.

12 Q. What then is your conclusion as to a fair ROE
13 range for Idaho Power?

14 A. In evaluating the rate of return for Idaho Power,
15 it is important to consider investors' continued focus on
16 the unsettled conditions in restructured wholesale energy
17 markets, the Company's ongoing exposure to these markets to
18 meet a portion of its energy supply, as well as other risks
19 associated with the utility industry, such as heightened
20 exposure to regulatory uncertainties.

