DAVID J. MEYER VICE PRESIDENT, GENERAL COUNSEL, REGULATORY & GOVERNMENTAL AFFAIRS AVISTA CORPORATION P.O. BOX 3727 1411 EAST MISSION AVENUE SPOKANE, WASHINGTON 99220-3727 TELEPHONE: (509) 495-4316 FACSIMILE: (509) 495-8851

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION) CASE NO. AVU-E-08-01 OF AVISTA CORPORATION FOR THE) AUTHORITY TO INCREASE ITS RATES) AND CHARGES FOR ELECTRIC AND) DIRECT TESTIMONY NATURAL GAS SERVICE TO ELECTRIC) AND NATURAL GAS CUSTOMERS IN THE) STATE OF IDAHO

CASE NO. AVU-G-08-01

RECEIVED 2008 APR - 3 PM 2: 41 UTIL PANO PUBLIC UTIL PIES COMMISSION

OF WILLIAM E. AVERA

FOR AVISTA CORPORATION

(ELECTRIC AND NATURAL GAS)

DIRECT TESTIMONY OF WILLIAM E. AVERA

TABLE OF CONTENTS

I. INTRODUCTION 1					
<pre>A. Overview1 B. Summary of Conclusions4</pre>					
II. RISKS OF AVISTA 8					
A. Operations & Finances 8 B. Capital Structure 21					
III. CAPITAL MARKET ESTIMATES 29					
A. Overview					
IV. RETURN ON EQUITY FOR AVISTA CORP 41					
 A. Implications for Financial Integrity					
Schedule WEA-1 - Qualifications of William E. Avera Schedule WEA-2 - Description of Quantitative Analyses Schedule WEA-3 - Capital Structure Schedule WEA-4 - Constant Growth DCF Model - Utility Proxy Group					
Schedule WEA-5 - Sustainable Growth Rate - Utility Proxy Group					
Schedule WEA-6 - Constant Growth DCF Model - Non-Utility Proxy Group					
Schedule WEA-7 - Sustainable Growth Rate - Non-Utility Proxy Group					
Schedule WEA-8 - Forward-looking CAPM - Utility Proxy Group					
Schedule WEA-9 - Forward-looking CAPM - Non-Utility Proxy Group					
Schedule WEA-10 - Historical CAPM - Utility Proxy Group Schedule WEA-11 - Historical CAPM - Non-Utility Proxy Group Schedule WEA-12 - Expected Earnings Approach					

1 I. INTRODUCTION Please state your name and business address. 2 0. William E. Avera, 3907 Red River, Austin, Texas, 3 Α. 4 78751. 5 In what capacity are you employed? ο. I am the President of FINCAP, Inc., a firm 6 Α. providing financial, economic, and policy consulting 7 services to business and government. 8 Please describe your educational background and 9 0. 10 professional experience. of background and 11 Α. А description mv qualifications, including a resume containing the details 12 of my experience, is attached as Schedule WEA-1. 13 14 A. Overview 15 **Q**. What is the purpose of your testimony in this 16 case? The purpose of my testimony is to present to the 17 Α. Idaho Public Utilities Commission (the "Commission" or 18 "IPUC") my independent evaluation of the fair rate of 19 return on equity ("ROE") for the jurisdictional electric 20 and gas utility operations of Avista Corp. ("Avista" or 21 22 "the Company"). In addition, I also examined the reasonableness of Avista's capital structure, considering 23 24 both the specific risks faced by the Company and other 25 industry guidelines.

> Avera, Di 1 Avista Corporation

Q.Please summarize the information and materialsyou relied on to support the opinions and conclusionscontained in your testimony.

To prepare my testimony, I used information from 4 Α. a variety of sources that would normally be relied upon by 5 I am familiar with the 6 a person in my capacity. organization, finances, and operations of Avista from my 7 participation in prior proceedings before the IPUC, the 8 Washington Utilities and Transportation Commission, and the 9 Oregon Public Utility Commission. In connection with the 10 present filing, I considered and relied upon corporate 11 disclosures, publicly available financial reports and 12 and other published information relating to 13 filings, I also reviewed information relating generally to 14 Avista. current capital market conditions and specifically to 15 perceptions, requirements, and 16 current investor expectations for Avista's utility operations. 17 These sources, coupled with my experience in the fields of 18 finance and utility regulation, have given me a working 19 knowledge of this issues relevant to investors' required 20 return for Avista, and they form the basis of my analyses 21 and conclusions. 22

Q. What is the role of the rate of return on common
equity in setting a utility's rates?
A. The ROE serves to compensate common equity
investors for the use of their capital to finance the plant

Avera, Di 2 Avista Corporation

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

12Q. How did you go about developing your conclusions13regarding a fair rate of return for Avista?

I first reviewed the operations and finances of 14 Α. Avista and the general conditions in the utility industry. 15 With this as a background, I conducted various well-16 accepted quantitative analyses to estimate the current cost 17 including alternative applications of the eauity, 18 of discounted cash flow ("DCF") model and the Capital Asset 19 Pricing Model ("CAPM"), as well as reference to expected 20 earned rates of return for utilities. Based on the cost of 21 equity estimates indicated by my analyses, the Company's 22 ROE was evaluated taking into account the specific risks 23

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).

and potential challenges for Avista's utility operations in
 Idaho.

3

B. <u>Summary of Conclusions</u>

Q. What are your findings regarding the fair rate of
 return on equity for Avista?

A. Based on the results of my analyses and the economic requirements necessary to support continuous access to capital under reasonable terms, I determined that a fair ROE for Avista falls in the range of 10.7 percent to 12.2 percent. The bases for my conclusion are summarized

11 below:

21

22

23

24

25

26

27

28

29

30

31

32

33 34

35

36

- risks and prospects reflect the to 12 In order • associated with Avista's jurisdictional utility 13 operations, my analyses focused on a proxy group of 14 twenty other utilities with comparable investment 15 Consistent with the fact that utilities 16 risks. must compete for capital with firms outside their 17 own industry, I also referenced a proxy group of 18 comparable risk companies in the non-utility sector 19 20 of the economy;
 - Because investors' required return on equity is unobservable and no single method should be viewed in isolation, I applied both the discounted cash flow ("DCF") and capital asset pricing model ("CAPM") methods, as well as the expected earnings approach, to estimate a fair ROE for Avista:
 - o My application of the constant growth DCF model considered four alternative growth measures based on projected earnings growth, as well as the sustainable, "br+sv" growth rate for each firm in the respective proxy groups;
 - o After eliminating low- and high-end outliers, my DCF analyses implied a cost of equity of 10.7 percent for the proxy group of utilities and 12.6 percent for the group of non-utility companies;

o Application of the CAPM approach using forward-1 looking data that best reflects the underlying 2 assumptions of this approach implied a cost of 3 equity of 12.2 percent for the utility proxy 4 group and 11.4 percent for the firms in the 5 6 non-utility proxy group; o Applying the method using historical 7 CAPM realized rates of return resulted in a cost of 8 equity of 10.7 percent for the utility proxy 9 group and 10.0 percent for the non-utility 10 proxy group; 11 of return earned rates 12 evaluation of o Mv expected for utilities suggested a cost of 13 equity on the order of 11.0 percent; 14 o Based on these results, I concluded that the 15 cost of equity for the proxy groups of electric 16 utilities and non-utility companies is in the 17 10.7 percent to 12.2 percent range. 18 expectations capital Considering investors' for 19 markets and the need to support financial integrity and 20 adverse under capital investment even 21 fund crucial circumstances, I concluded that Avista's requested ROE of 22 Based on my evaluation, I 10.8 percent is reasonable. 23 determined that: 24 • Because Avista's requested ROE of 10.8 percent 25 barely exceeds the lower bound of my recommended 26 range, it represents a conservative estimate of 27 investors' required rate of return; 28 • The reasonableness of a 10.8 percent minimum ROE 29 for Avista is also supported by the need to 30 credit standing, Company's which 31 consider the remains relatively weak: 32 o The pressures of funding significant capital 33 increased operating risks expenditures and 34 uncertainties with associated 35 heighten the 36 Avista; o Because of Avista's reliance on hydroelectric 37 Company is exposed to the 38 generation, power cost risks of 39 relatively greater 40 volatility;

1 2 3 4 5 6 7 8 9	o Investors view the Power Cost Adjustment Mechanism ("PCA") as supportive of the Company's financial integrity, but they understand that the PCA does not apply to 100 percent of power costs; nor does it insulate Avista from the need to finance accrued power production and supply costs or shield the Company from potential regulatory disallowances;					
10 11 12 13	o Given Avista's present credit ratings, an inadequate rate of return imposed in this proceeding would further pressure the Company's financial flexibility and credit standing;					
14 15 16 17 18 19 20 21	o My conclusion that a 10.8 percent ROE for Avista is a conservative estimate of investors' required return is also reinforced by the Company's relatively greater risks as compared with the proxy group, the greater uncertainties associated with Avista's relatively small size, and the fact that my recommended ROE range does not consider flotation costs.					
22						
23	Q. What is your conclusion as to the reasonableness					
24	of the Company's capital structure?					
25	A. Based on my evaluation, I concluded that a common					
26	6 equity ratio of 47.94 percent represents a reasonable basis					
27	from which to calculate Avista's overall rate of return.					
28	This conclusion was based on the following findings:					
29	• Avista's requested capitalization is consistent					
30 31 32 33 34	standing and financial flexibility as it seeks to raise additional capital to fund significant system investments and meet the requirements of its service territory;					

1 2 3 4 5 6 7	 My conclusion is reinforced by the investment community's focus on the need for a greater equity cushion to accommodate higher operating risks and the pressures of funding significant capital investments, as well as the impact of off-balance sheet commitments such as purchased power agreements.
8	Q. What other evidence did you consider in
9	evaluating your recommendation in this case?
10	A. My recommendation was reinforced by the following
11	findings:
12 13 14 15 16	 Sensitivity to regulatory uncertainties has increased dramatically and investors recognize that constructive regulation is a key ingredient in supporting utility credit standing and financial integrity;
17 18 19 20 21 22	• Providing Avista with the opportunity to earn a return that reflects these realities is an essential ingredient to strengthen the Company's financial position, which ultimately benefits customers by ensuring reliable service at lower long-run costs;
23 24 25 26 27 28 29	• My conclusion is reinforced by the economic reality that Avista's actual returns have fallen systematically short of the allowed ROE; and the financial impact of an ROE below the minimum level requested by Avista would threaten the Company's ability to maintain an investment grade credit rating;
30 31 32 33 34 35	• Investors are aware of the near-term challenges posed by upward pressure on costs and rising capital expenditures. For Avista, these concerns are magnified by the fact that financial metrics continue to be anemic and its credit standing, accordingly, remains relatively weak;
36 37 38 39 40 41 42	 Regulatory support, including a reasonable ROE, will be a key driver in securing additional progress towards restoring the Company's financial health. Further strengthening Avista's financial integrity is imperative to ensure that the Company has the capability to maintain an investment grade rating while confronting potential challenges

1 2

3

4

associated with funding infrastructure development necessary to meet the needs of its customers.

II. RISKS OF AVISTA

Q. What is the purpose of this section?

A. As a predicate to my economic and capital market analyses, this section examines the investment risks that investors consider in evaluating their required rate of return for Avista.

- 9
- 10

A. Operations & Finances

Q. Briefly describe Avista.

Avista is engaged primarily in the procurement, 11 Α. transmission, and distribution of natural gas and electric 12 generating facilities include 8 Avista's 13 energy. hydroelectric generating stations with a combined capacity 14 of approximately 980 megawatts ("MW") and the electrical 15 output of these plants, which has a significant impact on 16 total energy costs, is dependent on streamflows. Although 17 Avista estimates that hydroelectric generation is capable 18 of supplying approximately 50 percent of total system 19 requirements under normal conditions, the Company has 20 experienced prolonged periods of persistent below-normal 21 water conditions in the past. 22

Because close to one-half of Avista's total energy requirements are provided by hydroelectric facilities, the Company is exposed to a level of uncertainty not faced by most utilities. While hydropower confers advantages in

diversity, reduced cost savings and terms of fuel 1 generation water 2 hvdroelectric due to below-average conditions forces Avista to rely more heavily on wholesale 3 power markets or more costly thermal generating capacity to 4 meet its resource needs. As S&P recently observed: 5

typically generation 6 reduction in hydro Α electric utility's costs by 7 an increases requiring it to buy replacement power or run more 8 expensive generation to serve customer loads. 9 Low hydro generation can also reduce utilities' 10 opportunity to make off-system sales. At the 11 same time, low hydro years increase regional 12 wholesale power prices, creating potentially a 13 double impact - companies have to buy more power 14 normal conditions, paying higher than under 15 prices.' 16

Additionally, all but one of Avista's hydroelectric 17 facilities are subject to licensing under the Federal Power 18 Act, which is administered by FERC. After agreeing to 19 institute various protections, mitigation, and enhancement 20 measures in order to address environmental concerns, Avista 21 received new 45-year operating licenses covering its two 22 largest hydroelectric facilities - Cabinet Gorge and Noxon 23 Rapids - in 2001. The license covering five hydroelectric 24 plants on the Spokane River expired in August 2007, with an 25 annual permit being issued to temporarily extend the 26 Relicensing is not automatic under license. 27 current law, and Avista must demonstrate that it has 28 federal

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

operated its facilities in the public interest, which
 includes adequately addressing environmental concerns.

Avista's operating are fluctuations in 3 0. How market varying hydro and power 4 expenses caused bv conditions accommodated in its rates? 5

jurisdictional Under the PCA, Avista's Idaho 6 Α. rates are adjusted periodically to reflect changes in 7 costs. production and supply When variable power 8 hydroelectric generation is reduced and power supply costs 9 rise above those included in base rates, the PCA allows 10 Avista to increase rates to recover a portion of its 11 Conversely, if increased hydroelectric additional costs. 12 generation were to lead to lower power supply costs, rates 13 would be reduced. Although the PCA provides for rates to 14 be adjusted periodically, it applies to 90 percent of the 15 deviation between actual power supply costs and normalized 16 17 rates.

the PCA completely eliminate the risk 18 0. Does associated with fluctuations in power supply costs? 19 The PCA is viewed as supportive of the No. 20 Α. example of integrity and an Company's financial 21 constructive regulation, but it does not apply to 100 22 percent of Avista's power costs. Moreover, even for 23 utilities with permanent energy cost adjustment mechanisms 24 in place, there can be a significant lag between the time 25 the utility actually incurs the expenditure and when it is 26

> Avera, Di 10 Avista Corporation

recovered from ratepayers. The PCA does not insulate 1 Avista from the need to finance deferred power production 2 and supply costs, with Moody's observing, "The historical 3 financial metrics for Avista have been pressured by debt 4 added to fund energy cost deferrals during times when 5 drought conditions prevailed and this has caused us to 6 consider the metrics in line with the Ba rating category."4 7 Moreover, even with a PCA, investors recognize the ongoing 8 potential for regulatory disallowances if the Commission 9 determines that the amounts were not prudently incurred. 10

11 Q. Are there other mechanisms that affect Avista's 12 Idaho jurisdictional rates for utility service?

A. Yes. With respect to its Idaho gas utility operations, Avista is allowed to adjust natural gas rates to reflect the difference between actual purchased natural gas costs and amounts collected through rates under a Purchased Gas Adjustment ("PGA") clause.

18 Q. Does Avista anticipate the need to access the 19 capital markets going forward?

A. Most definitely. Avista will require capital investment to meet customer growth, provide for necessary maintenance and replacements of its natural gas utility systems, as well as fund new investment in electric generation, transmission and distribution facilities. As

⁴ Moody's Investors Service, "Credit Opinion: Avista Corp.," Global Credit Opinion (Dec. 21, 2007).

discussed by Company witness Mr. Malquist, planned capital 1 expenditures for 2008 total approximately \$190 million, and 2 approximately \$200 million annually going forward. In 3 addition to funding investment in utility infrastructure, 4 Avista will also be required to refinance \$318 million of 5 its long-term debt outstanding in 2008 and will need to 6 issue new securities to fund a significant portion of these 7 8 requirements.

Continued support for Avista's financial integrity and 9 flexibility will be instrumental in attracting the capital 10 necessary to fund these projects in an effective manner. 11 Similarly, bolstering Avista's financial position will also 12 support the Company's efforts to refinance securities at 13 favorable terms, thereby lowering costs for customers in 14 Avista's reliance on purchased power to meet the future. 15 generation magnifies the in hydroelectric 16 shortfalls importance of strengthening financial flexibility, which is 17 essential to guarantee access to the cash resources and 18 interim financing required to cover inadequate operating 19 cash flows, as well as fund required investments in the 20 utility system. 21

Q. What credit ratings have been assigned to Avista?
A. Standard & Poor's Corporation ("S&P") recently
raised the Company's corporate credit rating from "BB+" to
"BBB-", in large part due to improved financial metrics

Avera, Di 12 Avista Corporation

resulting from the settlement of Avista's last general rate 1 case in Washington.⁵ Similarly, Moody's Investors Service 2 ("Moody's") upgraded Avista's issuer credit rating from 3 "Ba1" to "Baa3" in December 2007.6 Fitch Ratings, Ltd. 4 ("Fitch") upgraded its issuer default rating for Avista one 5 notch to "BB+", and has assigned the Company a "Positive 6 Outlook", indicating the potential for higher ratings going 7 and Moody's forward.⁷ The ratings assigned by S&P 8 represent the lowest rung on the ladder of the investment 9 10 grade scale.

11 Q. How have investors' risk perceptions for firms 12 involved in the utility industry evolved?

Implementation of structural change and related 13 Α. events caused investors to rethink their assessment of the 14 relative risks associated with the utility industry. The 15 past decade witnessed steady erosion in credit quality 16 throughout the utility industry, both as a result of 17 revised perceptions of the risks in the industry and the 18 of the utilities themselves. S&P weakened finances 19 recently reported that the majority of the companies in the 20

⁵ Standard & Poor's Corporation, "Avista Corp.'s Corporate Credit Rating Raised One Notch To 'BBB-'," RatingsDirect (Feb. 7, 2008). ⁶ Moody's Investors Service, "Credit Opinion: Avista Corp.," Global Credit Research (Dec. 21, 2007). ⁷ Fitch Ratings, Ltd, "Fitch Upgrades Avista Corp.'s IDR to 'BB+' from 'BB'; Outlook Positive," Press Release (Aug. 9, 2007).

utility sector now fall in the triple-B rating category," 1 with Fitch recently concluding that "the long-term outlook 2 utilities." for investor-owned electric 3 negative" is observed, "Material negative bias Similarlv. Moodv's 4 appears to be developing over the intermediate and longer 5 term due to rapidly rising business and operating risks."10 6

7 8

Is the potential for energy market volatility an ο. ongoing concern for investors?

Investors recognize the ongoing Most definitely. 9 Α. prospect for further turmoil in energy markets. S&P has 10 reported continued spikes in wholesale market prices," with 11 Fitch noting that "elevated energy commodity prices" 12 contribute to a "challenging environment" for electric 13 Similarly, the FERC Commission Staff has utilities.12 14 continued to recognize the ongoing potential for market 15 disruption in the West, as a 2007 market assessment report 16 17 concluded:

18 Prices are likely to remain a concern. Last year we monitored transactions above the \$400 per 19 megawatt hour Western soft cap due to scarcity at 20 Given the likelihood of higher-priced 21 peak. gas in the West this year, extreme 22 natural

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

⁹ Fitch Ratings, Ltd., "U.S. Utilities, Power and Gas 2008 Outlook," Global Power North America Special Report (Dec. 11, 2007). ¹⁰ Moody's Investors Service, "U.S. Electric Utility Sector," Industry

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," (Mar. 22, 2006). ¹² Fitch Ratings, Ltd., "U.S. Power and Gas 2007 Outlook," Global Power North American Special Report (Dec. 15, 2006) at 1.

> Avera, Di 14 Avista Corporation

Outlook (Jan. 2008).

weather could easily raise prices to the peak level again in summer 2007.¹³

3 The report noted that other regional electricity 4 markets were experiencing double-digit price increases and 5 expressed ongoing concern regarding tight supply and 6 congestion.¹⁴

In recent years utilities and their customers have 7 also had to contend with dramatic fluctuations in gas costs 8 due to ongoing price volatility in the spot markets.¹⁵ S&P 9 concluded that "natural gas prices have proven to be very 10 volatile" and warned of a "turbulent journey" due to the 11 uncertainty associated with future fluctuations in energy 12 Fitch also highlighted the challenges that costs.16 13 fluctuations in commodity prices can have for utilities and 14 their investors, concluding that gas prices are subject to 15 near-term and longer-term fluctuations that contribute to 16 an "adverse environment" for electric utilities.17 17

18 In addition, while coal-fired generation has 19 historically provided relative stability with respect to

¹⁴ Id. at 4 and 15.

1

2

(http://tonto.eia.doe.gov/dnav/ng/ng_pri_sum_dcu_ nus_m.htm). ¹⁶ Standard & Poor's Corporation, "Top Ten Credit Issues Facing U.S. Utilities," RatingsDirect (Jan. 29, 2007).

Avera, Di 15 Avista Corporation

¹³ Federal Energy Regulatory Commission, Office of Market Oversight and Investigations, "Summer Energy Market Assessment 2007," (May 17, 2007) at 14.

¹⁵ For example, the Energy Information Administration 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

¹⁷Fitch Ratings, Ltd., "U.S. Power and Gas 2008 Outlook," Global Power North American Special Report, at 3 (Dec. 11, 2007).

1 fuel costs, rising prices for this energy source has raised 2 investors' concerns. In a 2004 article entitled "Rising 3 Coal Prices May Threaten U.S. Utility Credit Profiles," S&P 4 noted that:

[S]everal current and structural developments for the coal mining industry have resulted in a dramatic increase in spot coal prices.¹⁸

5

6

7

8 More recently, the Energy Information Administration 9 ("EIA"), a statistical agency of the U.S. Department of 10 Energy, reported that average delivered coal prices for 11 electric utilities increased 9.7 percent in 2006, the sixth 12 consecutive annual rise.¹⁹

Q. What are the key uncertainties considered by
 investors in assessing their required rate of return for
 Avista?

one-half of Avista's total Because close to 16 Α. hydroelectric requirements are provided bv 17 energy level of is Company exposed to а 18 facilities, the faced by most utilities. Investors 19 uncertainty not unpredictable recognize that volatile energy markets, 20 stream flows, and Avista's reliance on wholesale purchases 21 to meet a significant portion of its resource needs can 22 expose the Company to the risk of reduced cash flows and 23 unrecovered power supply costs. S&P cited this exposure as 24

¹⁸ Standard & Poor's Corporation, "Rising Coal Prices May Threaten U.S. Utility Credit Profiles," *RatingsDirect* (Aug. 12, 2004).
¹⁹ Energy Information Administration, *Annual Coal Report 2006* at 9 (Nov. 2007).

the "key utility risk" confronting the Company, 20 and 1 concluded that Avista, along with Idaho Power Company, 2 "face the most substantial risks despite their PCAs and 3 cost-update mechanisms."²¹ Similarly, Fitch concluded, "The 4 potential negative cash flow impact from a prolonged period 5 of below normal hydro conditions and high natural gas 6 prices are primary sources of concern" for Avista's 7 investors.²² 8

9 In addition, investors are aware of the financial and 10 regulatory pressures faced by utilities associated with 11 rising costs and the need to undertake significant capital 12 investments. As Moody's observed:

[T]here are concerns arising from the sector's 13 sizeable infrastructure investment plans in the 14 environment of steadily rising face 15 of an these costs and operating costs. Combined, 16 investments can create a continuous need for 17 regulatory rate relief, can which in turn 18 increase the likelihood for political and/or 19 regulatory intervention. 20

21 Similarly, S&P noted that "onerous construction programs", 22 along with rising operating and maintenance costs and 23 volatile fuel costs, were a significant challenge to the

²⁰ Standard & Poor's Corporation, "Avista Corp.'s Corporate Credit Rating Raised One Notch to 'BBB-'," RatingsDirect (Feb. 7, 2008).
²¹ Standard & Poor's Corporation, "Pacific Northwest Hydrology And Its Impact On Investor-Owned Utilities' Credit Quality," RatingsDirect (Jan. 28, 2008).

²² Fitch Ratings, Ltd., "Fitch Affirms Avista Corp.'s IDR at 'BB+'; Outlook Positive," Press Release (Feb. 6, 2008).

²³ Moody's Investors Service, "Storm Clouds Gathering on the Horizon for the North American Electric Utility Sector," Special Comment (Aug. 2007).

utility industry.²⁴ Moody's recently echoed this
 assessment, concluding, "There are significant negative
 trends developing over the longer-term horizon."²⁵

While providing the infrastructure necessary to meet 4 5 the energy needs of customers is certainly desirable, it imposes additional financial responsibilities on Avista. 6 7 As noted earlier, the Company's plans include capital of approximately \$200 million annually, 8 expenditures 9 including enhancements to its transmission and distribution system and investment in generating resources. Investors 10 are aware that the challenge of achieving timely regulatory 11 12 recovery associated with rising costs and burdensome capital expenditure requirements impacts Avista's ability 13 to earn a fair rate of return. 14

15 Q. What other considerations affect investors' 16 evaluation of Avista?

utilities 17 Avista and other are confronting Α. could impose pressures that 18 increased environmental significant uncertainties and costs. In 2007 S&P cited 19 environmental mandates, including emissions, conservation, 20

²⁴ Standard & Poor's Corporation, "U.S. Electric Utilities Continued Their Long Shift To Stability In Third Quarter," RatingsDirect (Oct. 23, 2007).
²⁵ Moody's Investors Service, "U.S. Utility Sector," Industry Outlook

⁽Jan. 2008).

1 and renewable resources as one of the top ten credit issues facing U.S. utilities.²⁶ More recently, S&P observed that: 2 What the ultimate outcome will be is cloudy right 3 4 now, but legislation addressing carbon emissions and other greenhouse gases is extremely probable 5 in the near future. The credit implications of 6 any policy will be vast due to the compliance 7 costs involved.27 8 Similarly, Moody's noted that "increasingly stringent 9

environmental compliance mandates will elevate cash outflow recovery risk",²⁸ while Fitch noted that the electric utility industry would be "a primary target" of new environmental legislation, and concluded, "The murkiness of the future policies and regulations on carbon emissions is another factor clouding Fitch's long-term view of electric utilities."²⁹

Q. Does Avista also face additional risks because of the impact of industry restructuring on transmission operations?

Policy evolution in the transmission area 20 Α. Yes. has been wide reaching and Avista must address changes in 21 the electric transmission function of its business. S&P 22 confirmed a "continued lack of clarity from lawmakers and 23 regulators regulatory framework surrounding 24 the on

²⁶ Standard & Poor's Corporation, "Top Ten Credit Issues Facing U.S. Utilities," RatingsDirect (Jan. 29, 2007).

²⁷ Standard & Poor's Corporation, "Upgrades Lead In U.S. Electric

Utility Industry In 2007, " RatingsDirect (Jan. 17, 2008).

Avera, Di 19 Avista Corporation

²⁸ Moody's Investors Service, "U.S. Electric Utility Sector," Industry Outlook (Jan. 2008).
²⁹ Fitch Ratings, Ltd., "U.S. Utilities, Power and Gas 2008 Outlook,"

Global Power North America Special Report (Dec. 11, 2007).

transmission projects."³⁰ Transmission operations have 1 become increasingly complex and investors have recognized 2 that difficulties in obtaining permits and uncertainty over 3 the adequacy of allowed rates of return have contributed to 4 heightened risk and fueled concerns regarding the need for 5 additional investment in the transmission sector of the 6 electric power industry. 7

Would investors consider Avista's relative size 8 ο. 9 in their assessment of the Company's risks and prospects? firm's relative size has 10 Α. Yes. А important in their evaluation of 11 implications for investors alternative investments, and it is well established that 12 smaller firms are more risky than larger firms. With a 13 market capitalization of approximately \$1.1 billion, Avista 14 is one of the smallest publicly traded electric utilities 15 Value Line. which have an average 16 followed by capitalization of approximately \$8.1 billion.³¹ 17

The magnitude of the size disparity between Avista and other firms in the utility industry has important practical implications with respect to the risks faced by investors. All else being equal, it is well accepted that smaller firms are more risky than their larger counterparts, due in part to their relative lack of diversification and lower

³⁰ Standard & Poor's Corporation, "Capital Spending On Electric Transmission Is On The Upswing Around The World," *RatingsDirect* (Aug. 7, 2006).

³¹ <u>www.valueline.com</u> (Retrieved Feb. 13, 2008).

Avera, Di 20 Avista Corporation

financial resiliency.³² These greater risks imply a higher 1 required rate of return, and there is ample empirical 2 evidence that investors in smaller firms realize higher 3 rates of return than in larger firms.³³ Common sense and 4 accepted financial doctrine hold that investors require 5 higher returns from smaller companies, and unless that 6 compensation is provided in the rate of return allowed for 7 a utility, the legal tests embodied in the Hope and 8 9 Bluefield cases cannot be met.

10

B. Capital Structure

11 Q. Is an evaluation of the capital structure 12 maintained by a utility relevant in assessing its return on 13 equity?

Yes. Other things equal, a higher debt ratio, or 14 Α. lower common equity ratio, translates into increased 15 financial risk for all investors. A greater amount of debt 16 means more investors have a senior claim on available cash 17 flow, thereby reducing the certainty that each will receive 18 This increases the risks to his contractual payments. 19 which lenders are exposed, and they require correspondingly 20 From common shareholders' higher rates of interest. 21

³² It is well established in the financial literature that smaller firms are more risky than larger firms. See, e.g., Eugene F. Fama and Kenneth R. French, "The Cross-Section of Expected Stock Returns", The Journal of Finance (June 1992); George E. Pinches, J. Clay Singleton, and Ali Jahankhani, "Fixed Coverage as a Determinant of Electric Utility Bond Ratings", Financial Management (Summer 1978). ³³ See for example Rolf W. Banz, "The Relationship Between Return and Market Value of Common Stocks", Journal of Financial Economics (September 1981) at 16.

1 standpoint, a higher debt ratio means that there are 2 proportionately more investors ahead of them, thereby 3 increasing the uncertainty as to the amount of cash flow, 4 if any, that will remain.

5 Q. What common equity ratio is implicit in Avista's 6 requested capital structure?

A. Avista's capital structure is presented in the
testimony of Mr. Malquist. As summarized in his testimony,
the pro-forma common equity ratio used to compute Avista's
overall rate of return was 47.94 percent in this filing.

11 Q. What was the average capitalization maintained by 12 the utility proxy group?

A. As shown on Schedule WEA-3, for the twenty firms in the utility proxy group, common equity ratios at December 31, 2007 ranged between 40.1 percent and 57.9 percent and averaged 47.8 percent.

17 Q. What capitalization is representative for the 18 proxy group of utilities going forward?

A. As shown on Schedule WEA-3, The Value Line Investment Survey ("Value Line") expects an average common equity ratio for the proxy group of utilities of 49.0 percent for its three-to-five year forecast horizon, with the individual common equity ratios ranging from 42.5 percent to 60.5 percent.

How does Avista's common equity ratio compare 1 0. with those maintained by the reference group of utilities? 2 The 47.94 percent common equity ratio requested 3 Α. by Avista is entirely consistent with the 47.8 percent and 4 49.0 percent average equity ratios for the firms in the 5 proxy group at year-end 2007 and based on Value Line's 6 near-term expectations, respectively. 7

8 Q. What implication does the increasing risk of the 9 utility industry have for the capital structures maintained 10 by utilities?

As discussed earlier, the average credit rating 11 Α. associated with firms in the electric industry has fallen 12 to triple-B, with Avista's "BBB-" rating occupying the 13 lowest rung on the ladder of the investment grade scale. 14 At the same time, electric utilities are facing rising cost 15 structures, the need to finance significant capital 16 investment plans, uncertainties over accommodating future 17 environmental mandates, and ongoing regulatory risks. 18 quality, these decline in credit Coupled with the 19 considerations warrant a stronger balance sheet to deal 20 with an increasingly uncertain and competitive market. А 21 more conservative financial profile, in the form of a 22 higher common equity ratio, is consistent with increasing 23 uncertainties and the need to maintain the continuous 24 access to capital that is required to fund operations and 25 necessary system investment, even during times of adverse 26

> Avera, Di 23 Avista Corporation

capital market conditions. This is especially the case if
 electric utilities are to be successful in raising the
 substantial funds necessary to boost investments for
 network reliability.

5 Moody's has warned investors of the risks associated 6 with debt leverage and fixed obligations and advised 7 utilities not to squander the opportunity to strengthen the 8 balance sheet as a buffer against future uncertainties.³⁴ 9 Moody's recently noted that, absent a stronger equity 10 cushion, utilities would be faced with lower credit ratings 11 in the face of rising business and operating risks:

There are significant negative trends developing 12 over the longer-term horizon. This developing 13 negative concern primarily relates to our view 14 that the sector's overall business and operating 15 risks are rising - at an increasingly fast pace -16 but that the overall financial profile remains 17 relatively steady. A rising risk profile accompanied by a relatively stable balance sheet rising risk profile 18 19 profile would ultimately result in credit quality 20 deterioration.³ 21

This is especially the case for electric utilities that are exposed to the potential for significant fluctuations in power supply costs, such as Avista.

 ³⁴ Moody's Investors Service, "Storm Clouds Gathering on the Horizon for the North American Electric Utility Sector," Special Comment (Aug. 2007).
 ³⁵ Moody's Investors Service, "U.S. Electric Utility Sector," Industry

[&]quot;Moody's Investors Service, "U.S. Electric Utility Sector," Industry Outlook (Jan. 2008).

1

2

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

specific attributes, 3 Α. Depending on their contractual agreements or other obligations that require 4 the utility to make specified payments may be treated as 5 debt in evaluating Avista's financial risk. Because power 6 purchase agreements ("PPAs") and leases typically obligate 7 the utility to make specified minimum contractual payments 8 akin to those associated with traditional debt financing, 9 investors consider a portion of these commitments as debt 10 Because investors in evaluating total financial risks. 11 consider the debt impact of such fixed obligations in 12 utility's financial position, they imply 13 assessing a In order greater risk and reduced financial flexibility. 14 to offset the debt equivalent associated with off-balance 15 sheet obligations, the utility must rebalance its capital 16 structure by increasing its common equity in order to 17 restore its effective capitalization ratios to previous 18 levels.³⁶ 19

20 Reflecting the longstanding perception of investors 21 that the fixed obligations associated with PPAs, leases, 22 and other off-balance sheet obligations diminish a 23 utility's creditworthiness and financial flexibility, the

³⁶ The capital structure ratios presented earlier do not include imputed debt associated with power purchase agreements or the impact of other off-balance sheet obligations.

implications of these commitments have been repeatedly 1 cited by major bond rating agencies in connection with 2 assessments of utility financial risks. For example, in 3 explaining its evaluation of the credit implications of 4 PPAs, S&P affirmed its position that such agreements give 5 rise to "debt equivalents" and that the increased financial 6 risk must be considered in evaluating a utility's credit 7 risks.³⁷ As the rating agency explained: 8

Ratings For many years, Standard & Poor's 9 Services has viewed power supply agreements (PPA) 10 in the U.S. utility sector as creating fixed, debt-like, financial obligations that represent 11 12 substitutes for debt-financed capital investments 13 In a sense, a utility in generation capacity. 14 that has entered into a PPA has contracted with a 15 supplier to make the financial investment on its 16 behalf. Consequently, PPA fixed obligations, in 17 the form of capacity payments, merit inclusion in 18 a utility's financial metrics as though they are 19 part of a utility's permanent capital structure 20 and are incorporated in our assessment of a utility's creditworthiness.³⁸ 21 22

Apart from reaffirming the importance of imputed debt in 23 its analysis of credit standing, S&P also noted that it has 24 refined its methodology to include imputed debt associated 25 with shorter-term PPAs.³⁹ Similarly, S&P recently affirmed 26 its policy of modifying a utility's balance sheet to 27

³⁷ Standard & Poor's Corporation, "Standard & Poor's Methodology For Imputing Debt For U.S. Utilities' Power Purchase Agreements," RatingsDirect (May 7, 2007). ³⁸ Id. ³⁹ Id.

Avera, Di 26 Avista Corporation include the debt equivalents associated with operating
 leases.⁴⁰

As discussed earlier, a significant portion of the 3 Company's power requirements are currently obtained through 4 These contractual payment 5 purchased power contracts. obligations, along with operating leases and obligations 6 fixed postretirement benefits, are 7 associated with commitments with debt-like characteristics and are properly 8 considered when evaluating the financial risks implied by 9 Avista's capital structure. S&P reported that it adjusts 10 include approximately \$226 capitalization to 11 Avista's debt from off-balance sheet imputed 12 million in obligations.⁴¹ Unless the Company takes action to offset 13 this additional financial risk by maintaining a higher 14 equity ratio, the resulting leverage will weaken Avista's 15 creditworthiness, implying a higher required rate of return 16 to compensate investors for the greater risks.42 17

18Q. What did you conclude with respect to the19Company's capital structure?

20 A. Based on my evaluation, I concluded that Avista's 21 requested capital structure represents a reasonable mix of

⁴⁰ Standard & Poor's Corporation, "Implications Of Operating Leases On Analysis Of U.S. Electric Utilities," *RatingsDirect* (Jan. 15, 2008).
⁴¹ Standard & Poor's Corporation, "Avista Corp.," *RatingsDirect* (Aug. 1, 2007).

^{1, 2007).} ⁴² Apart from the immediate impact that the fixed obligation of purchased power costs has on the utility's financial risk, higher fixed charges also reduce ongoing financial flexibility, and the utility may face other uncertainties, such as potential replacement power costs in the event of supply disruption.

1 capital sources from which to calculate the Company's 2 overall rate of return. Avista's requested common equity 3 ratio is entirely consistent with the average capital 4 structure for the utility proxy group, based on year-end 5 2007 data and Value Line's near-term projections.

While industry averages provide one benchmark for 6 comparison, each firm must select its capitalization based 7 on the risks and prospects it faces, as well its specific 8 needs to access the capital markets. A public utility with 9 an obligation to serve must maintain ready access to 10 capital under reasonable terms so that it can meet the 11 service requirements of its customers. The need for access 12 becomes even more important when the company has capital 13 requirements over a period of years, and financing must be 14 continuously available, even during unfavorable capital 15 16 market conditions.

Avista's capital structure reflects the Company's 17 ongoing efforts to strengthen its credit standing and 18 on reasonable terms. As capital 19 support access to indicated earlier, the challenges posed by significant 20 capital requirements, volatile energy prices, and reliance 21 on hydro generation and wholesale markets magnifies the 22 importance of preserving financial flexibility. Moody's 23 Avista's financial metrics have been that 24 observed pressured by the need to finance power cost deferrals 25

> Avera, Di 28 Avista Corporation

its ratings during low-water years, and noted that 1 anticipate "conservative financing strategies."43 Financial 2 flexibility plays а crucial role in ensuring the 3 wherewithal to meet the needs of customers, and utilities 4 with higher leverage may be foreclosed from additional 5 borrowing, especially during times of stress. In this 6 regard, Avista's equity ratio reflects the challenges posed 7 by its resource mix, as well as the burden of significant 8 capital spending requirements. 9

- 10
- 11

III. CAPITAL MARKET ESTIMATES

Q. What is the purpose of this section?

A. This section presents capital market estimates of the cost of equity. The details of my quantitative analyses are contained in Schedule WEA-2, with the results being summarized below.

16

A. <u>Overview</u>

Q. What role does the rate of return on common
equity play in a utility's rates?
A. The return on common equity is the cost of

inducing and retaining investment in the utility's physical plant and assets. This investment is necessary to finance the asset base needed to provide utility service. Investors will commit money to a particular investment only

⁴³ Moody's Investors Service, "Credit Opinion: Avista Corp.," Global Credit Research (Dec. 21, 2007).

if they expect it to produce a return commensurate with 1 investments with comparable risks. those from other 2 Moreover, the return on common equity is integral in 3 achieving the sound regulatory objectives of rates that are 4 sufficient to: 1) fairly compensate capital investment in 5 the utility, 2) enable the utility to offer a return 6 adequate to attract new capital on reasonable terms, and 3) 7 Meeting these maintain the utility's financial integrity. 8 objectives allows the utility to fulfill its obligation to 9 provide reliable service while meeting the needs of 10 customers through necessary system expansion. 11

Did you rely on a single method to estimate the 12 0. cost of equity for Avista? 13 In my opinion, no single method or model 14 Α. No. should be relied upon to determine a utility's cost of 15 equity because no single approach can be regarded as wholly 16 the Federal Communications Commission reliable. As 17 recognized: 18

Equity prices are established in highly volatile 19 and uncertain capital markets. ... Different 20 forecasting methodologies compete with each other 21 eminence, only to be superceded by other 22 for methodologies as conditions change. ... In these 23 circumstances, we should not restrict ourselves 24 a series of even 25 one methodology, or to would applied be methodologies, that 26 Instead, we conclude that we 27 mechanically.

> Avera, Di 30 Avista Corporation

should adopt a more accommodating and flexible position.44

Therefore, I used both the DCF and CAPM methods to estimate 3 the cost of equity. In addition, I also evaluated a fair 4 ROE return using an earnings approach based on investors' 5 current expectations in the capital markets. In mv 6 opinion, comparing estimates produced by one method with 7 those produced by other approaches ensures that the 8 estimates of the cost of equity pass fundamental tests of 9 reasonableness and economic logic. 10

11 Q. What was your conclusion regarding a fair rate of 12 return on equity for the proxy companies?

A. Based on the results of my quantitative analyses, and my assessment of the relative strengths and weaknesses inherent in each method, I concluded that the cost of equity for the proxy companies is in the 10.7 percent 12.2 percent range.

18

1

2

B. Results of Quantitative Analyses

19 Q. How did you define the proxy groups you used to
 20 implement the DCF model?

A. In estimating the cost of equity, the DCF model is typically applied to publicly traded firms engaged in similar business activities or with comparable investment risks. As described in detail in Schedule No. WEA-2, I

"Federal Communications Commission, Report and Order 42-43, CC Docket No. 92-133 (1995).

applied the DCF model to a utility proxy group composed of 1 those dividend-paying companies included by Value Line in 2 (1)its Electric Utilities Industry groups with: S&P 3 corporate credit ratings between "BBB-" and "BBB+," (2) a 4 Value Line Safety Rank of "2" or "3", (3) a Value Line 5 Financial Strength Rating of "B+" to "B++", and (4) 6 published growth estimates from IBES, 45 Value Line, Reuters, 7 Inc. ("Reuters"), and Zacks Investment Research ("Zacks"). 8 I excluded two companies that otherwise would have been in 9 the proxy group because they are in the process of being 10 11 acquired.

Under the regulatory standards established by Hope and 12 in establishing criteria а Bluefield. salient 13 the meaningful benchmark to evaluate a fair rate of return is 14 relative risk, not the particular business activity or 15 Consistent with this degree of regulation. accepted 16 regulatory standard, I also applied the DCF model to a 17 reference group of comparable risk companies in the non-18 utility sector of the economy. My assessment of comparable 19 risk relied on three objective benchmarks for the risks 20 associated with common stocks -- Value Line's Safety Rank, 21 Financial Strength rating, and beta. My non-utility proxy 22 group was composed of those U.S. companies followed by 23

⁴⁵ IBES growth rates are compiled and reported by Thompson Financial, an arm of The Thompson Corporation, which also publishes consensus securities analyst growth rates under the First Call brand. Value Line that 1) pay common dividends, 2) have a Safety Rank of "1", 3) have a Financial Strength Rating of "A" or above, 4) have beta values of 0.90 or less,⁴⁶ and 5) have published data from IBES, Value Line, Reuters, and Zacks. Consistent with the development of my utility proxy group, I also eliminated firms with below-investment grade credit ratings.

Q. How do the overall risks of your proxy groups
 compare with Avista?

10 A. As shown below, Table 1 compares the non-utility 11 proxy group with the utility proxy group and Avista across 12 four key indicators of investment risk:

- 13
- 14

TABLE 1 COMPARISON OF RISK INDICATORS

	S&P Credit <u>Rating</u>	Value Line		
		Safety <u>Rank</u>	Financial <u>Strength</u>	<u>Beta</u>
Non-Utility Group	A+	1	A+	0.80
Utility Proxy Group	BBB	3	B++	0.89
Avista Corp.	BBB-	3	B+	0.95

15

16 Considered together, a comparison of these objective 17 measures indicates that the risks investors associate with 18 Avista generally exceed those of the proxy groups. As a 19 result, the cost of equity estimates indicated by my

"This threshold corresponds to the average beta of 0.89 for the utility proxy group discussed earlier.

analyses provide a conservative estimate of investors'
 required rate of return for Avista.

Q. What cost of equity is implied by your DCF 4 results for the utility proxy group?

My application of the DCF model, which is 5 Α. discussed in greater detail in Schedule No. WEA-2, 6 considered four alternative measures of expected earnings 7 growth, as well as the sustainable growth rate based on the 8 relationship between expected retained earnings and earned 9 rates of return ("br + sv"). As shown on Schedule WEA-4 10 and summarized below in Table 2, after eliminating 11 illogical low- and high-end values, application of the 12 constant growth DCF model resulted in the following cost of 13 14 equity estimates:

15TABLE 216DCF RESULTS - UTILITY PROXY GROUP

<u>Growth Rate</u>	Average Cost of Equity
IBES	11:3%
Value Line	10.4%
Reuters	10.6%
Zacks	10.9%
br+sv	9.28

17

Taken together, and considering the relative strengths and weaknesses associated with the alternative growth measures, I concluded that the constant growth DCF results for the utility proxy group implied a cost of equity of 10.8 percent.

> Avera, Di 34 Avista Corporation
Q. What were the results of your DCF analysis forthe non-utility reference group?A. As shown on Schedule WEA-6, I applied the DCF

4 model to the non-utility companies in exactly the same 5 manner described earlier for the utility proxy group. As 6 summarized below in Table 3, after eliminating illogical 7 low- and high-end values, application of the constant 8 growth DCF model resulted in the following cost of equity 9 estimates:

10 11 TABLE 3 DCF RESULTS - NON-UTILITY GROUP

Average	Cost	o£	Equity
	12.9	98	
	12.3	28	
	12.	58	
	12.	78	
	13.	08	
	<u>Average</u>	Average Cost 12. 12. 12. 12. 12. 12. 13.	Average Cost of 12.9% 12.2% 12.5% 12.7% 13.0%

12

Based on my assessment of these results, I concluded that the constant growth DCF results for the non-utility proxy group implied a cost of equity of 12.6 percent.

Q. Do you believe the constant growth DCF model
should be relied on exclusively to evaluate a reasonable
ROE for Avista?

A. No. Because the cost of equity is unobservable, no single method should be viewed in isolation. While the DCF model has been routinely relied on in regulatory proceedings as one guide to investors' required return, it is a blunt tool that should not be used exclusively.

> Avera, Di 35 Avista Corporation

Regulators have customarily considered the results of 1 alternative approaches in determining allowed returns.47 It 2 is widely recognized that no single method can be regarded 3 as a panacea; all approaches having their own advantages 4 For example, a publication of the 5 and shortcomings. Society of Utility and Financial Analysts (formerly the 6 National Society of Rate of Return Analysts), concluded 7 8 that:

Each model requires the exercise of judgment as 9 the underlying reasonableness of 10 the to on the of the methodology and assumptions 11 reasonableness of the proxies used to validate 12 Each model has its own way of 13 the theory. examining investor behavior, its own premises, 14 and its own set of simplifications of reality. 15 Each method proceeds from different fundamental 16 premises, most of which cannot be validated 17 empirically. Investors clearly do not subscribe 18 to any singular method, nor does the stock price 19 reflect the application of any one single method 20 by investors. 21

22 Moreover, evidence suggests that reliance on the DCF 23 model as a tool for estimating investors' required rate of 24 return has declined outside the regulatory sphere, with the 25 CAPM being "the dominant model for estimating the cost of

⁴⁷ For example, a NARUC survey reported that 26 regulatory jurisdictions ascribe to no specific method for setting allowed ROEs, with the results of all approaches being considered. "Utility Regulatory Policy in the U.S. and Canada, 1995-1996," National Association of Regulatory Utility Commissioners (December 1996). ⁴⁸ Parcell, David C., "The Cost of Capital - A Practitioner's Guide," Society of Utility and Regulatory Financial Analysts (1997) at Part 2, p. 4.

Regulatory Finance: Utilities Cost of Capital equity."49 1 noted the inherent difficulties of the DCF approach: 2

in judgment are required and [Claution interpreting the results of DCF models because of (1) the questionable applicability of the DCF market certain to utility stocks in model effect of declining environments, (2)the earnings and dividends on financial inputs to the DCF model and biases caused by the effect of the and (3)risk and growth, 10 changes in conceptual and practical difficulties associated 11 with the growth component of the DCF model.5

3

4

5

6

7

8

9

12

of equity "If the cost concluded, publication 13 The estimation process is limited to one methodology, such as 14 DCF, it may severely bias the results."⁵¹ 15

How did you apply the CAPM to estimate the cost 16 0. of equity? 17

Like the DCF model, the CAPM is an ex-ante, or 18 Α. forward-looking model based on expectations of the future. 19 As a result, in order to produce a meaningful estimate of 20 investors' required rate of return, the CAPM is best 21 applied using estimates that reflect the expectations of 22 actual investors in the market, not with backward-looking, 23 historical data. 24

I applied the CAPM to the utility proxy group based on 25 a forward-looking estimate for investors' required rate of 26

⁴⁹See, 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). Morin, Roger A., "Regulatory Finance: Utilities' Cost of Capital," Public Utilities Reports, Inc. (1994) at 238. Id.

return from common stocks. In addition, because it is 1 frequently referenced in regulatory proceedings, I also 2 applied the CAPM using risk premiums based on historical 3 realized rates of return published by Ibbotson Associates 4 (now Morningstar). Reference to historical data represents 5 one way to apply the CAPM, but these realized rates of 6 return reflect, at best, an indirect estimate of investors' 7 a result, forward-looking As 8 current requirements. applications of the CAPM that look directly at investors' 9 expectations in the capital markets are apt to provide a 10 more meaningful guide to investors' required rate of 11 12 return.

13 Q. What cost of equity was indicated by the CAPM 14 approach?

As shown on Schedule WEA-8, my forward-looking 15 Α. CAPM model indicated an ROE of 16 application of the approximately 12.2 percent for the utility proxy group. 17 Applying the forward-looking CAPM approach to the firms in 18 the non-utility proxy group (Schedule WEA-9) implied a cost 19 of equity of 11.4 percent. 20

21 Application of the CAPM to the firms in the utility 22 and non-utility proxy groups using risk premiums based on 23 historical realized rates of return published by Ibbotson 24 Associates is presented on Schedules WEA-10 and WEA-11, 25 respectively. As shown there, this historical CAPM 26 approach implied a cost of equity of 10.7 percent for the

> Avera, Di 38 Avista Corporation

1 utility proxy group and 10.0 percent for the firms in the 2 non-utility proxy group.

3 Q. What other analyses did you conduct to estimate 4 the cost of equity?

As I noted earlier, I also evaluated the cost of 5 Α. equity using the expected earnings method. Reference to 6 rates of return available from alternative investments of 7 comparable risk can provide an important benchmark in 8 assessing the return necessary to assure confidence in the 9 financial integrity of a firm and its ability to attract 10 This expected earnings approach is consistent 11 capital. with the economic underpinnings for a fair rate of return 12 established by the Supreme Court. Moreover, it avoids the 13 complexities and limitations of capital market methods and 14 instead focuses on the returns earned on book equity, which 15 are readily available to investors. 16

17Q. What rates of return on equity are indicated for18utilities based on the expected earnings approach?

A. Value Line reports that its analysts anticipate an average rate of return on common equity for the electric utility industry of 11.5 percent over its forecast horizon,⁵² with natural gas distribution utilities expected to earn an average rate of return on common equity of 11.5

⁵² The Value Line Investment Survey at 1776 (Feb. 8, 2008).

percent to 12.0 percent.⁵³ As shown on Schedule WEA-12, Value Line's projections for the utility proxy group suggested an average ROE of 10.5 percent after eliminating potential outliers.⁵⁴ Based on the results discussed above, I concluded that the expected earnings approach implies a fair rate of return on equity of 11.0 percent.

Q. What did you conclude with respect to the cost of
equity implied by your analyses for the proxy groups?
A. The cost of equity estimates implied by my
quantitative analyses are summarized in Table 4, below:

11TABLE 412SUMMARY OF QUANTITATIVE RESULTS

	<u>Cost of Equity Estimates</u>		
Method	Utility <u>Proxy Group</u>	Non-Utility Proxy Group	
DCF	10.7%	12.6%	
CAPM			
Forward-looking	12.2%	11.4%	
Historical	10.7%	10.0%	
Expected Earnings	11.0%		

Based on the results of my quantitative analyses, and my assessment of the relative strengths and weaknesses inherent in each method, I concluded that the cost of equity is in the 10.7 percent to 12.2 percent range.

⁵³ The Value Line Investment Survey 445 (Dec. 14, 2007).
⁵⁴ As highlighted on Schedule WEA-12, I eliminated two low-end estimates of 7.1 percent, as well as an extreme high-end outlier of 24.4%. While these three Value Line projections may accurately reflect expectations for actual earned rates of return on common equity over the forecast horizon, they are unlikely to be representative of investors' required rate of return.

RETURN ON EQUITY FOR AVISTA CORP. 1 IV. What is the purpose of this section? 2 0. In addition to presenting the conclusions of my 3 Α. evaluation of a fair rate of return on equity range for 4 Avista, this section also discusses the relationship 5 between ROE and preservation of a utility's financial 6 integrity and the ability to attract capital under 7 reasonable terms on a sustainable basis. 8 A. Implications for Financial Integrity 9 Why is it important to allow Avista an adequate ο. 10 return on equity? 11 Given the importance of the utility industry to 12 Α. the economy and society, it is essential to maintain 13 While reliable and economical service to all consumers. 14 Avista remains committed to provide reliable utility 15 service, a utility's ability to fulfill its mandate can be 16 compromised if it lacks the necessary financial wherewithal 17 or is unable to earn a return sufficient to attract 18 Coupled with the ongoing potential for energy 19 capital. market volatility, Avista's plans for infrastructure 20 investment and ongoing exposure to regulatory uncertainty 21 pose a number of potential challenges that might require 22 the relatively swift commitment of significant capital 23 resources in order to maintain the high level of service 24 that customers have come to expect. 25

> Avera, Di 41 Avista Corporation

As documented earlier, the major rating agencies have 1 exposure to uncertainties associated with 2 warned of political and regulatory developments, especially in view 3 of the pressures associated with large capital expenditure 4 programs and the potential for high and volatile commodity 5 Investors understand costs in wholesale energy markets. 6 just how swiftly unforeseen circumstances can lead to 7 deterioration in a utility's financial condition, and 8 stakeholders have discovered first hand how difficult and 9 complex it can be to remedy the situation after the fact. 10 While providing the infrastructure necessary to enhance the 11 power system and meet the energy needs of customers is 12 imposes additional financial it certainly desirable, 13 a utility with an responsibilities on Avista. For 14 service, investors' reliable obligation provide to 15 increased reticence to supply additional capital during 16 times of crisis highlights the necessity of preserving the 17 flexibility necessary to overcome periods of adverse 18 capital market conditions. These considerations heighten 19 the importance of allowing Avista an adequate return on the 20 21 fair value of its investment.

What role does regulation play in ensuring that 22 0. Avista has access to capital under reasonable terms and on 23 a sustainable basis? 24 Considering investors' heightened awareness of 25 Ά. the risks associated with the utility industry and the

26

42 Avera, Di Avista Corporation 1 damage that results when a utility's financial flexibility is compromised, supportive regulation remains crucial to 2 Avista's access to capital. Investors recognize that 3 risks. and that constructive regulation has its own 4 regulation is a key ingredient in supporting utility credit 5 ratings and financial integrity, particularly during times 6 of adverse conditions. S&P noted that: 7

8 Regulatory rulings have returned to center stage 9 as a dominant factor in assessing companies' 10 credit quality. These decisions will be critical 11 for an industry that in many jurisdictions is 12 nearing the end of extended transition periods 13 and will be making significant capital investment 14 in infrastructure during the next several years.⁵⁵

With respect to Avista specifically, the major bond 15 rating agencies have noted the near-term challenges posed 16 upward and rising capital 17 pressure on costs by expenditures, while explicitly citing the potential that 18 adverse regulatory rulings could compromise the Company's 19 credit standing.⁵⁶ Of particular concern to investors is 20 the impact of regulatory lag and cost-recovery on Avista's 21 ability to earn its authorized ROE and maintain its 22 financial metrics, with Moody's noting an ongoing need for 23

⁵⁵ Standard & Poor's Corporation, "Industry Report Card: U.S. Electric/Gas/Water," RatingsDirect (May 3, 2005).
 ⁵⁶ See, e.g., Standard & Poor's Corporation, "Avista Corp.'s Corporate Credit Rating Raised One Notch To 'BBB-'," RatingsDirect (Feb 7, 2008); Moody's Investors Service, "Credit Opinion: Avista Corp.," Global Credit Research (Dec. 21, 2007).

supportive regulation in light of a significant capital
 investment program.⁵⁷ Moody's concluded:

Continuation of supportive treatment in future PGA and general rate cases would be particularly important in helping Avista continue to make progress towards consistently earning at the utility division's allowed level of return on its investment.⁵⁸

S&P concluded that Avista's credit outlook could be revised 9 the Company's financial profile is 10 "negative" if to weakened due to an inability to obtain timely rate relief." 11 Moreover, the negative impact of declining credit 12 financial quality on a utility's capital costs and 13 flexibility becomes more pronounced as debt ratings move 14 down the scale from investment to non-investment grade. In 15 light of Avista's present ratings, an inadequate rate of 16 return imposed in this proceeding would further pressure 17 the Company's financial flexibility and credit standing. 18

Q. Do the potential exposures faced by Avista
highlight the need for ongoing support of the Company's
financial strength and ability to attract capital?

A. Most definitely. Avista must finance a major construction program and a number of potential challenges might require the relatively swift commitment of capital resources in order to maintain the high level of service to

⁵⁷ Moody's Investors Service, "Credit Opinion: Avista Corp.," Global Credit Research (Dec. 21, 2007).
⁵⁸ Id..

⁵⁹ Standard & Poor's Corporation, "Avista Corp.'s Corporate Credit Rating Raised One Notch To 'BBB-'," RatingsDirect (Feb. 7, 2008).

which its customers have become accustomed. Avista faces 1 the potential for fluctuating stream flows and significant 2 volatility in wholesale fuel and energy markets. S&P 3 concluded that Avista's "key utility risk going forward is 4 its exposure to high-cost replacement power, particularly 5 in low water years."⁶⁰ Given utilities' lack of control 6 over the timing of such events, the Company must have the 7 wherewithal to meet these challenges even when capital and 8 energy market conditions are unfavorable. 9

For Avista, these concerns are magnified by the fact 10 that its credit standing remains relatively weak. While 11 the Company's efforts to regain an investment grade credit 12 rating have been successful, Avista's financial metrics 13 Mr. Malquist confirms in his remain pressured. As 14 regulatory support will be a key driver in 15 testimonv. restoring the 16 securing additional progress towards Company's financial health. Further strengthening Avista's 17 financial integrity is imperative to ensure that the 18 Company has the capability to maintain an investment grade 19 rating while confronting potential challenges. 20

⁵⁰ Standard & Poor's Corporation, "Avista Corp.'s Corporate Credit Rating Raised One Notch To 'BBB-'," RatingsDirect (Feb. 7, 2008). 1 Q. Do customers benefit by enhancing the utility's 2 financial flexibility?

While providing an ROE that is sufficient 3 Α. Yes. to maintain Avista's ability to attract capital, even in 4 times of financial and market stress, is consistent with 5 the economic requirements embodied in the Supreme Court's 6 Hope and Bluefield decisions, it is also in customers' best 7 Ultimately, it is customers and the service 8 interests. area economy that enjoy the benefits that come from 9 ensuring that the utility has the financial wherewithal to 10 take whatever actions are required to ensure reliable 11 By the same token, customers also bear a 12 service. significant burden when the ability of the utility to 13 attract necessary capital is impaired and service quality 14 is compromised. 15

16

B. Flotation Costs

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

The common equity used to finance the investment 19 Α. in utility assets is provided from either the sale of stock 20 in the capital markets or from retained earnings not paid 21 out as dividends. When equity is raised through the sale 22 of common stock, there are costs associated with "floating" 23 These flotation costs include 24 the new equity securities. services such as legal, accounting, and printing, as well 25 as the fees and discounts paid to compensate brokers for 26

> Avera, Di 46 Avista Corporation

1 selling the stock to the public. Also, some argue that the 2 "market pressure" from the additional supply of common 3 stock and other market factors may further reduce the 4 amount of funds a utility nets when it issues common 5 equity.

6 7

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

While debt flotation costs are recorded on 8 Α. No. the books of the utility, amortized over the life of the 9 issue, and thus increase the effective cost of debt 10 capital, there is no similar accounting treatment to ensure 11 that equity flotation costs are recorded and ultimately 12 recognized. Alternatively, no rate of return is authorized 13 on flotation costs necessarily incurred to obtain a portion 14 of the equity capital used to finance plant. In other 15 equity flotation costs are not included in a 16 words, utility's rate base because neither that portion of the 17 gross proceeds from the sale of common stock used to pay 18 available to invest in plant 19 flotation costs is and flotation costs capitalized as an 20 equipment, nor are 21 Unless some provision is made to intangible asset. utility's revenue costs, а 22 recognize these issuance requirements will not fully reflect all of the costs 23 incurred for the use of investors' funds. Because there is 24 no accounting convention to accumulate the flotation costs 25 associated with equity issues, they must be accounted for 26

> Avera, Di 47 Avista Corporation

indirectly, with an upward adjustment to the cost of equity
 being the most logical mechanism.

Q. What is the magnitude of the adjustment to the what bones cost of equity to account for issuance costs?

There are any number of ways in which a flotation 5 Α. cost adjustment can be calculated, and the adjustment can 6 range from just a few basis points to more than a full 7 One of the most common methods used to account 8 percent. for flotation costs in regulatory proceedings is to apply 9 average flotation-cost 10 an percentage to а utilitv's review of the finance Based on a 11 dividend vield. literature, Regulatory Finance: Utilities' Cost of Capital 12 concluded: 13

14The flotation cost allowance requires an15estimated adjustment to the return on equity of16approximately 5% to 10%, depending on the size17and risk of the issue.⁶¹

18 Alternatively, a study of data from Morgan Stanley regarding issuance costs associated with utility common 19 average flotation cost 20 stock issuances suggests an percentage of 3.6%.⁶² Applying these expense percentages to 21 a representative dividend yield for a utility of 4.0 22

⁶¹ Roger A. Morin, *Regulatory Finance: Utilities' Cost of Capital*, 1994, at 166.

⁵² 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 implies a flotation cost adjustment on the order of
 14 to 40 basis points.

3 Q. Has the IPUC Staff previously considered 4 flotation costs in estimating a fair ROE?

For example, in Case No. IPC-E-07-8, IPUC 5 Α. Yes. 6 Staff witness Terri Carlock noted that she had adjusted her DCF analysis to incorporate an allowance for flotation 7 costs. 8 While issuance costs are а legitimate consideration in setting the return on equity for a 9 utility, a specific adjustment for flotation costs was not 10 included in defining my recommended ROE range. 11

12

C. Return on Equity Recommendation

13Q. What then is your conclusion as to a fair rate of14return on equity range for Avista?

As explained above, based on the capital market 15 Α. oriented analyses for the utility and non-utility proxy 16 groups described in my testimony, I concluded that the fair 17 rate of return on equity range was 10.7 percent to 12.2 18 Considering capital market expectations, the 19 percent. 20 potential exposures faced by Avista, and the economic requirements necessary to maintain financial integrity and 21 support additional capital investment even under adverse 22 circumstances, it is my opinion that this represents a fair 23 24 and reasonable ROE range for Avista.

⁶³ Case No. IPC-E-07-8, Direct Testimony of Terri Carlock at 10 (Dec. 10, 2007).

Q. Based on the results of your evaluation, what is
 your opinion regarding the reasonableness of the ROE
 requested by Avista in this case?

My evaluation indicates that Avista's requested 4 Α. ROE of 10.8 percent represents a conservative estimate of 5 Given the fact that investors' required rate of return. 6 the Company's requested ROE falls barely above the lower 7 bound of my recommended range, it should be viewed as an 8 absolute floor in establishing rates for Avista. This 9 conclusion is reinforced by the need to buttress the 10 Company's credit standing, which remains relatively weak, 11 as well as the pressures of funding significant capital 12 increased operating risks. and meeting 13 expenditures including those associated with Avista's reliance on 14 hydroelectric generation and wholesale energy markets. The 15 reasonableness of a minimum 10.8 percent ROE for Avista is 16 also supported by the Company's relatively greater risks as 17 compared with the proxy groups, the higher uncertainties 18 associated with Avista's relatively small size, and the 19 fact that my recommended ROE range does not consider 20 flotation costs. 21

22 Q. Does this conclude your pre-filed direct 23 testimony?

24 A. Yes.

Avera, Di 50 Avista Corporation

	RECEIVED
DAVID J. MEYER VICE PRESIDENT, GENERAL COUNSEL, GOVERNMENTAL AFFAIRS AVISTA CORPORATION P.O. BOX 3727 1411 EAST MISSION AVENUE SPOKANE, WASHINGTON 99220-3727 TELEPHONE: (509) 495-4316 FACSIMILE: (509) 495-8851	REGULZIOR READ AND PUBLIC UTILITIES COMMISSION
BEFORE THE IDAHO PUBLIC U	TILITIES COMMISSION
IN THE MATTER OF THE APPLICATION OF AVISTA CORPORATION FOR THE AUTHORITY TO INCREASE ITS RATES AND CHARGES FOR ELECTRIC AND NATURAL GAS SERVICE TO ELECTRIC AND NATURAL GAS CUSTOMERS IN THE STATE OF IDAHO	<pre>) CASE NO. AVU-E-08-01) CASE NO. AVU-G-08-01))</pre>
) EXHIBIT NO. 3 ;)) WILLIAM E. AVERA)
FOR AVISTA COR	PORATION
(ELECTRIC AND NA	TURAL GAS)

 $\sum_{i=1}^{n-1} \left(\left(f_{i} \right)^{2} - f_{i} \right)^{2} + \left(\left(f_{i} \right)^{2} + \left(f_{i} \right)$

SCHEDULE WEA-1

QUALIFICATIONS OF WILLIAM E. AVERA

What is the purpose of this exhibit? 1 Q. This exhibit describes my background and experience 2 Α. and contains the details of my qualifications. 3 What are your gualifications? 4 Ο. I received a B.A. degree with a major in economics 5 Α. from Emory University. After serving in the U.S. Navy, I 6 entered the doctoral program in economics at the University 7 of North Carolina at Chapel Hill. Upon receiving my Ph.D., I 8 joined the faculty at the University of North Carolina and 9 taught finance in the Graduate School of Business. т 10 subsequently accepted a position at the University of Texas 11 at Austin where I taught courses in financial management and 12 investment analysis. I then went to work for International 13 Paper Company in New York City as Manager of Financial 14 Education, a position in which I had responsibility for all 15 corporate education programs in finance, accounting, and 16 17 economics.

In 1977, I joined the staff of the Public Utility Ocommission of Texas (PUCT) as Director of the Economic Research Division. During my tenure at the PUCT, I managed a division responsible for financial analysis, cost allocation and rate design, economic and financial research, and data processing systems, and I testified in cases on a variety of

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-U-08-01 W. Avera, Avista Schedule WEA-1 p. 1 of 10

financial and economic issues. Since leaving the PUCT, I 1 have been engaged as a consultant. I have participated in a 2 wide range of assignments involving utility-related matters 3 on behalf of utilities, industrial customers, municipalities, 4 I have previously testified and regulatory commissions. 5 before the Federal Energy Regulatory Commission ("FERC"), as 6 well as the Federal Communications Commission ("FCC"), the 7 Surface Transportation Board (and its predecessor, the 8 the Canadian Radio-Commerce Commission), 9 Interstate Television and Telecommunications Commission, and regulatory 10 agencies, courts, and legislative committees in 39 states. 11

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

I have served as Lecturer in the Finance Department at 18 the University of Texas at Austin and taught in the evening 19 graduate program at St. Edward's University for twenty years. 20 In addition, I have lectured on economic and regulatory 21 topics in programs sponsored by universities and industry 22 groups. I have taught in hundreds of educational programs 23 sponsored by the 24 for financial analysts in programs Association for Investment Management and Research, the 25

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-U-08-01 W. Avera, Avista Schedule WEA-1 p. 2 of 10

Financial Analysts Review, and local financial analysts 1 These programs have been presented in Asia, 2 societies. Europe, and North America, including the Financial Analysts 3 Seminar at Northwestern University. I hold the Chartered 4 Financial Analyst (CFA®) designation and have served as Vice 5 President for Membership of the Financial Management 6 Association. I have also served on the Board of Directors of 7 the North Carolina Society of Financial Analysts. I was 8 elected Vice Chairman of the National Association of 9 Regulatory Commissioners ("NARUC") Subcommittee on Economics 10 and appointed to NARUC's Technical Subcommittee on the 11 National Energy Act. I have also served as an officer of 12 various other professional organizations and societies. A 13 experience and resume containing the details of my 14 qualifications is attached. 15

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-U-08-01 W. Avera, Avista Schedule WEA-1 p. 3 of 10

FINCAP, INC. Financial Concepts and Applications Economic and Financial Counsel 3907 Red River Austin, Texas 78751 (512) 458-4644 FAX (512) 458-4768 fincap@texas.net

Summary of Qualifications

Ph.D. in economics and finance; Chartered Financial Analyst (CFA *) designation; extensive expert witness testimony before courts, alternative dispute resolution panels, regulatory agencies and legislative committees; lectured in executive education programs around the world on ethics, investment analysis, and regulation; undergraduate and graduate teaching in business and economics; appointed to leadership positions in government, industry, academia, and the military.

Employment

Principal, FINCAP, Inc. (Sep. 1979 to present)

economic and policy Financial, consulting to business and government. Perform business and public policy research, cost/benefit analyses and modeling, valuation of financial businesses (over 150 entities valued), estimation of damages, statistical and industry studies. Provide strategy advice and educational services in public and private sectors, and serve as expert witness before regulatory agencies, legislative committees, arbitration panels, and courts.

Director, Economic Research Division, Public Utility Commission of Texas (Dec. 1977 to Aug. 1979) Responsible for research and testimony preparation on rate of return, rate structure, and econometric analysis with energy, dealing telecommunications, water and sewer Testified in major rate utilities. cases and appeared before legislative served as Chief and committees Administered Economist for agency. state and federal grant funds. Communicated frequently with political leaders and representatives from consumer groups, media, and investment community.

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-U-08-01 W. Avera, Avista Schedule WEA-1 p. 4 of 10

Manager, Financial Education, International Paper Company New York City (Feb. 1977 to Nov. 1977)

Lecturer in Finance, The University of Texas at Austin (Sep. 1979 to May 1981) Assistant Professor of Finance, (Sep. 1975 to May 1977)

Assistant Professor of Business, University of North Carolina at Chapel Hill (Sep. 1972 to Jul. 1975)

Education

Ph.D., Economics and Finance, University of North Carolina at Chapel Hill (Jan. 1969 to Aug. 1972)

B.A., Economics, Emory University, Atlanta, Georgia (Sep. 1961 to Jun. 1965)

Directed corporate education programs in accounting, finance, and economics. Developed course materials, recruited and trained instructors, liaison within the company and with academic institutions. Prepared operating budget and designed financial controls for corporate professional development program.

Taught graduate and undergraduate courses in financial management and investment theory. Conducted research in business and public policy. Named Outstanding Graduate Business Professor and received various administrative appointments.

and Ph.D. MBA, Taught in BBA, programs. Created project course in Financial Management for finance. Women, and participated in developing Small Business Management sequence. Organized the North Carolina Institute for Investment Research, a group of financial institutions that supported academic research. Faculty advisor to the Media Board, which funds student publications and broadcast stations.

Elective courses included financial management, public finance, monetary theory, and econometrics. Awarded the Stonier Fellowship by the American Bankers' Association and University Teaching Fellowship. Taught statistics, macroeconomics, and microeconomics.

Dissertation: The Geometric Mean Strategy as a Theory of Multiperiod Portfolio Choice

Active in extracurricular activities, President of the Barkley Forum (debate team), Emory Religious Association, and Delta Tau Delta chapter.

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-U-08-01 W. Avera, Avista Schedule WEA-1 p. 5 of 10

Individual awards and team championships at national collegiate debate tournaments.

Professional Associations

Received Chartered Financial Analyst (CFA) designation in 1977; Vice President for Membership, Financial Management Association; President, Austin Chapter of Planning Executives Institute; Board of Directors, North Carolina Society of Financial Analysts; Candidate Curriculum Committee, Association for Investment Management and Research; Executive Committee of Southern Finance Association; Vice Chair, Staff Subcommittee on Economics and National Association of Regulatory Utility Commissioners (NARUC); Appointed to NARUC Technical Subcommittee on the National Energy Act.

Teaching in Executive Education Programs

<u>University-Sponsored Programs</u>: Central Michigan University, Duke University, Louisiana State University, National Defense University, National University of Singapore, Texas A&M University, University of Kansas, University of North Carolina, University of Texas.

Business and Government-Sponsored Programs: Advanced Seminar on Earnings Regulation, American Public Welfare Association, Association for Investment Management and Research, Congressional Fellows Program, Cost of Capital Workshop, Electricity Consumers Resource Council, Financial Analysts Association of Indonesia, Financial Analysts Review, Financial Analysts Seminar at Northwestern University, Governor's Executive Development Program of Texas, Louisiana Association of Business and Industry, National Association of Purchasing Management, National Association of Tire Dealers, Planning Executives Institute, School of Banking of the South, State of Wisconsin Investment Board, Stock Exchange of Thailand, Texas Association of State Sponsored Computer Centers, Texas Bankers' Association, Texas Bar Association, Texas Savings and Loan League, Texas Society of CPAs, Tokyo Association of Foreign Banks, Union Bank of Switzerland, U.S. Department of State, U.S. Navy, U.S. Veterans Administration, in addition to Texas state agencies and major corporations.

Presented papers for Mills B. Lane Lecture Series at the University of Georgia and Heubner Lectures at the University of Pennsylvania. Taught graduate courses in finance and economics in evening program at St. Edward's University in Austin from January 1979 through 1998.

Expert Witness Testimony

Testified in over 250 cases before regulatory agencies addressing cost of capital, regulatory policy, rate design, and other economic and financial issues.

<u>Federal Agencies:</u> Federal Communications Commission, Federal Energy Regulatory Commission, Surface Transportation Board, Interstate Commerce Commission, and the Canadian Radio-Television and Telecommunications Commission.

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-U-08-01 W. Avera, Avista Schedule WEA-1 p. 6 of 10

<u>State Regulatory Agencies:</u> Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Kansas, Maryland, Michigan, Missouri, Nevada, New Mexico, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina, South Dakota, Texas, Utah, Virginia, Washington, West Virginia, Wisconsin, and Wyoming.

Testified in 41 cases before federal and state courts, arbitration panels, and alternative dispute tribunals (86 depositions given) regarding damages, valuation, antitrust liability, fiduciary duties, and other economic and financial issues.

Board Positions and Other Professional Activities

Audit Committee and Outside Director, Georgia System Operations Corporation (electric system operator for member-owned electric cooperatives in Georgia); Chairman, Board of Print Depot, Inc. and Synchronous Interconnection Committee, Co-chair, FINCAP. Inc.; appointed by Public Utility Commission of Texas and approved by governor; Appointed by Hays County Commission to Citizens Advisory Committee of Habitat Conservation Plan, Operator of AAA Ranch, a certified organic producer of agricultural products; Appointed to Organic Livestock Advisory Committee by Texas Agricultural Commissioner Susan Combs; Appointed by Texas Railroad Commissioners to study group for The UP/SP Merger: An Assessment of the Impacts on the State of Texas; Appointed by Hawaii Public Utilities Commission to team reviewing affiliate relationships of Hawaiian Electric Industries; Chairman, Energy Task Force, Greater Austin-San Antonio Corridor Council; Consultant to Public Utility Commission of Texas on cogeneration policy and other matters; Consultant to Public Service Commission of New Mexico on cogeneration policy; Evaluator of Energy Research Grant Proposals for Texas Higher Education Coordinating Board.

Community Activities

Board Member, Sustainable Food Center; Chair, Board of Deacons, Finance Committee, and Elder, Central Presbyterian Church of Austin; Founding Member, Orange-Chatham County (N.C.) Legal Aid Screening Committee.

<u>Military</u>

Captain, U.S. Naval Reserve (retired after 28 years service); Commanding Officer, Naval Special Warfare Engineering Support Unit; Officer-in-charge of SWIFT patrol boat in Vietnam; Enlisted service as weather analyst (advanced to second class petty officer).

Bibliography

Monographs

- Ethics and the Investment Professional (video, workbook, and instructor's guide) and Ethics Challenge Today (video), Association for Investment Management and Research (1995)
 - "Definition of Industry Ethics and Development of a Code" and "Applying Ethics in the Real World," in *Good Ethics: The Essential*

Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-U-08-01 W. Avera, Avista Schedule WEA-1 p. 7 of 10 Element of a Firm's Success, Association for Investment Management and Research (1994)

- "On the Use of Security Analysts' Growth Projections in the DCF Model," with Bruce H. Fairchild in *Earnings Regulation Under Inflation*, J. R. Foster and S. R. Holmberg, eds. Institute for Study of Regulation (1982)
- An Examination of the Concept of Using Relative Customer Class Risk to Set Target Rates of Return in Electric Cost-of-Service Studies, with Bruce H. Fairchild, Electricity Consumers Resource Council (ELCON) (1981); portions reprinted in Public Utilities Fortnightly (Nov. 11, 1982)
 - "Usefulness of Current Values to Investors and Creditors," Research Study on Current-Value Accounting Measurements and Utility, George M. Scott, ed., Touche Ross Foundation (1978)
 - "The Geometric Mean Strategy and Common Stock Investment Management," with Henry A. Latané in *Life Insurance Investment Policies*, David Cummins, ed. (1977)
- Investment Companies: Analysis of Current Operations and Future Prospects, with J. Finley Lee and Glenn L. Wood, American College of Life Underwriters (1975)

Articles

- "Should Analysts Own the Stocks they Cover?" The Financial Journalist, (March 2002)
- "Liquidity, Exchange Listing, and Common Stock Performance," with John C. Groth and Kerry Cooper, *Journal of Economics and Business* (Spring 1985); reprinted by National Association of Security Dealers
- "The Energy Crisis and the Homeowner: The Grief Process," Texas Business Review (Jan.-Feb. 1980); reprinted in The Energy Picture: Problems and Prospects, J. E. Pluta, ed., Bureau of Business Research (1980)
- "Use of IFPS at the Public Utility Commission of Texas," Proceedings of the IFPS Users Group Annual Meeting (1979)
- "Production Capacity Allocation: Conversion, CWIP, and One-Armed Economics," Proceedings of the NARUC Biennial Regulatory Information Conference (1978)
- "Some Thoughts on the Rate of Return to Public Utility Companies," with Bruce H. Fairchild in *Proceedings of the NARUC Biennial Regulatory* Information Conference (1978)
- "A New Capital Budgeting Measure: The Integration of Time, Liquidity, and Uncertainty," with David Cordell in Proceedings of the Southwestern Finance Association (1977)
- "Usefulness of Current Values to Investors and Creditors," in Inflation Accounting/Indexing and Stock Behavior (1977)
- "Consumer Expectations and the Economy," Texas Business Review (Nov. 1976)

Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-U-08-01 W. Avera, Avista Schedule WEA-1 p. 8 of 10

- "Portfolio Performance Evaluation and Long-run Capital Growth," with Henry A. Latané in *Proceedings of the Eastern Finance Association* (1973)
- Book reviews in *Journal of Finance* and *Financial Review*. Abstracts for *CFA Digest*. Articles in *Carolina Financial Times*.

Selected Papers and Presentations

- "The Who, What, When, How, and Why of Ethics", San Antonio Financial Analysts Society (Jan. 16, 2002). Similar presentation given to the Austin Society of Financial Analysts (Jan. 17, 2002)
- "Ethics for Financial Analysts," Sponsored by Canadian Council of Financial Analysts: delivered in Calgary, Edmonton, Regina, and Winnipeg, June 1997. Similar presentations given to Austin Society of Financial Analysts (Mar. 1994), San Antonio Society of Financial Analysts (Nov. 1985), and St. Louis Society of Financial Analysts (Feb. 1986)
 - "Cost of Capital for Multi-Divisional Corporations," Financial Management Association, New Orleans, Louisiana (Oct. 1996)
- "Ethics and the Treasury Function," Government Treasurers Organization of Texas, Corpus Christi, Texas (Jun. 1996)
- "A Cooperative Future," Iowa Association of Electric Cooperatives, Des Moines (December 1995). Similar presentations given to National G & T Conference, Irving, Texas (June 1995), Kentucky Association of Electric Cooperatives Annual Meeting, Louisville (Nov. 1994), Virginia, Maryland, and Delaware Association of Electric Cooperatives Annual Meeting, Richmond (July 1994), and Carolina Electric Cooperatives Annual Meeting, Raleigh (Mar. 1994)
- "Information Superhighway Warnings: Speed Bumps on Wall Street and Detours from the Economy," Texas Society of Certified Public Accountants Natural Gas, Telecommunications and Electric Industries Conference, Austin (Apr. 1995)
- "Economic/Wall Street Outlook," Carolinas Council of the Institute of Management Accountants, Myrtle Beach, South Carolina (May 1994). Similar presentation given to Bell Operating Company Accounting Witness Conference, Santa Fe, New Mexico (Apr. 1993)
- "Regulatory Developments in Telecommunications," Regional Holding Company Financial and Accounting Conference, San Antonio (Sep. 1993)
- "Estimating the Cost of Capital During the 1990s: Issues and Directions," The National Society of Rate of Return Analysts, Washington, D.C. (May 1992)
- "Making Utility Regulation Work at the Public Utility Commission of Texas," Center for Legal and Regulatory Studies, University of Texas, Austin (June 1991)
- "Can Regulation Compete for the Hearts and Minds of Industrial Customers," Emerging Issues of Competition in the Electric Utility Industry Conference, Austin (May 1988)
- "The Role of Utilities in Fostering New Energy Technologies," Emerging Energy Technologies in Texas Conference, Austin (Mar. 1988)

Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-U-08-01 W. Avera, Avista Schedule WEA-1 p. 9 of 10

- "The Regulators' Perspective," Bellcore Economic Analysis Conference, San Antonio (Nov. 1987)
- "Public Utility Commissions and the Nuclear Plant Contractor," Construction Litigation Superconference, Laguna Beach, California (Dec. 1986)
- "Development of Cogeneration Policies in Texas," University of Georgia Fifth Annual Public Utilities Conference, Atlanta (Sep. 1985)
- "Wheeling for Power Sales," Energy Bureau Cogeneration Conference, Houston (Nov. 1985).
- "Asymmetric Discounting of Information and Relative Liquidity: Some Empirical Evidence for Common Stocks" (with John Groth and Kerry Cooper), Southern Finance Association, New Orleans (Nov. 1982)
- "Used and Useful Planning Models," Planning Executive Institute, 27th Corporate Planning Conference, Los Angeles (Nov. 1979)
- "Staff Input to Commission Rate of Return Decisions," The National Society of Rate of Return Analysts, New York (Oct. 1979)
- "Electric Rate Design in Texas," Southwestern Economics Association, Fort Worth (Mar. 1979)
- "Discounted Cash Life: A New Measure of the Time Dimension in Capital Budgeting," with David Cordell, Southern Finance Association, New Orleans (Nov. 1978)
- "The Relative Value of Statistics of Ex Post Common Stock Distributions to Explain Variance," with Charles G. Martin, Southern Finance Association, Atlanta (Nov. 1977)
- "An ANOVA Representation of Common Stock Returns as a Framework for the Allocation of Portfolio Management Effort," with Charles G. Martin, Financial Management Association, Montreal (Oct. 1976)
- "A Growth-Optimal Portfolio Selection Model with Finite Horizon," with Henry A. Latané, American Finance Association, San Francisco (Dec. 1974)
- "An Optimal Approach to the Finance Decision," with Henry A. Latané, Southern Finance Association, Atlanta (Nov. 1974)
- "A Pragmatic Approach to the Capital Structure Decision Based on Long-Run Growth," with Henry A. Latané, Financial Management Association, San Diego (Oct. 1974)
- "Multi-period Wealth Distributions and Portfolio Theory," Southern Finance Association, Houston (Nov. 1973)
- "Growth Rates, Expected Returns, and Variance in Portfolio Selection and Performance Evaluation," with Henry A. Latané, Econometric Society, Oslo, Norway (Aug. 1973)

Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-U-08-01 W. Avera, Avista Schedule WEA-1 p. 10 of 10

SCHEDULE WEA-2

DESCRIPTIONS OF QUANTITATIVE ANALYSES

What is the purpose of this schedule? 1 Q. Schedule WEA-2 presents capital market estimates 2 À. of the cost of equity. First, I examine the concept of the 3 cost of equity, along with the risk-return tradeoff 4 principle fundamental to capital markets. Next, I describe 5 DCF, CAPM, and expected earnings analyses conducted to 6 estimate the cost of equity for reference groups of 7 comparable risk firms. 8 Overview Δ. What role does the rate of return on common 9 0. equity play in a utility's rates? 10 The return on common equity is the cost of 11 Α. inducing and retaining investment in the utility's physical 12 This investment is necessary to finance plant and assets. 13 the asset base needed to provide utility service. 14 Investors will commit money to a particular investment only 15 if they expect it to produce a return commensurate with 16 those from other investments with comparable risks. 17 Moreover, the return on common equity is integral in 18 achieving the sound regulatory objectives of rates that are 19 sufficient to: 1) fairly compensate capital investment in 20

- 21 the utility, 2) enable the utility to offer a return
- adequate to attract new capital on reasonable terms, and 3)

Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 1 of 27 maintain the utility's financial integrity. Meeting these objectives allows the utility to fulfill its obligation to provide reliable service while meeting the needs of customers through necessary system expansion.

5 Q. What fundamental economic principle underlies any 6 evaluation of investors' required return on equity?

The fundamental economic principle underlying the 7 Α. cost of equity concept is the notion that investors are 8 The required rate of return for a particular 9 risk averse. asset at any point in time is a function of: 1) the yield 10 11 on risk-free assets, and 2) its relative risk, with investors demanding correspondingly larger risk premiums 12 for assets bearing greater risk. Given this risk-return 13 tradeoff, the required rate of return (k) from an asset (i) 14 can be generally expressed as: 15

 $16 k_i = R_f + RP_i$

17	where: R	, =	Risk-free rate of return; and
18	RP	. =	Risk premium required to hold
19		•	risky asset i.

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

25 Because common shareholders have the lowest priority 26 claim on a firm's cash flows, they receive only the

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 2 of 27

residual that remains after all other claimants (employees, suppliers, governments, lenders) have been paid. As a result, the rate of return that investors require from a utility's common stock, the most junior and riskiest of its securities, is considerably higher than the yield on the utility's long-term debt.

Q. Is the cost of equity observable in the capital
8 markets?

Unlike debt capital, there is no 9 Α. No. contractually guaranteed return on common equity capital 10 since shareholders are the residual owners of the utility. 11 Because it is unobservable, the cost of equity for a 12 particular utility must be estimated by analyzing 13 information about capital market conditions generally, 14 assessing the relative risks of the company specifically, 15 and employing various quantitative methods that focus on 16 investors' current required rates of return. These various 17 quantitative methods typically attempt to infer investors' 18 required rates of return from stock prices, interest rates, 19 or other capital market data. 20

A. Discounted Cash Flow Analyses

Q. How are DCF models used to estimate the cost of
equity?
A. DCF models attempt to replicate the market
valuation process that sets the price investors are willing
to pay for a share of a company's stock. The model rests

Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 3 of 27

on the assumption that investors evaluate the risks and 1 expected rates of return from all securities in the capital 2 markets. Given these expectations, the price of each stock 3 is adjusted by the market until investors are adequately 4 Therefore, we can 5 compensated for the risks they bear. 6 look to the market to determine what investors believe a share of common stock is worth. By estimating the cash 7 flows investors expect to receive from the stock in the way 8 of future dividends and capital gains, we can calculate 9 their required rate of return. In other words, the cash 10 flows that investors expect from a stock are estimated, and 11 given its current market price, we can "back-into" the 12 discount rate, or cost of equity, that investors implicitly 13 14 used in bidding the stock to that price.

15 Q. What market valuation process underlies DCF 16 models?

17 DCF models assume that the price of a share of Α. common stock is equal to the present value of the expected 18 cash flows (i.e., future dividends and stock price) that 19 will be received while holding the stock, discounted at 20 investors' required rate of return. That is, the cost of 21 22 equity is the discount rate that equates the current price of a share of stock with the present value of all expected 23 cash flows from the stock. 24

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 4 of 27

Q.What form of the DCF model is customarily used toestimate the cost of equity in rate cases?A.Rather than developing annual estimates of cashflows into perpetuity, the DCF model can be simplified to a"constant growth" form: 1

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

6

7 where: P₀ = Current price per share; 8 D₁ = Expected dividend per share in the 9 coming year; 10 k_e = Cost of equity; 11 g = Investors' long-term growth 12 expectations.

13 The cost of equity (K_e) can be isolated by rearranging 14 terms:

15
$$k_e = \frac{D_1}{P_0} + g$$

16 This constant growth form of the DCF model recognizes that 17 the rate of return to stockholders consists of two parts: 18 1) dividend yield (D_1/P_0) , and 2) growth (g). In other 19 words, investors expect to receive a portion of their total 20 return in the form of current dividends and the remainder 21 through price appreciation.

¹ 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?

As discussed in my testimony, my utility proxy 3 Α. group was composed of those dividend-paying companies 4 included by Value Line in its Electric Utilities Industry 5 groups with: (1) S&P corporate credit ratings between "BBB-6 " and "BBB+," (2) a Value Line Safety Rank of "2" or "3", 7 and (3) a Value Line Financial Strength Rating of "B+" to 8 "B++", and (4) published growth estimates from IBES, Value 9 Line, Reuters, and Zacks. I excluded two companies that 10 otherwise would have been in the proxy group (Energy East 11 Corporation and Puget Energy, Inc.) because they are in the 12 13 process of being acquired.

Q. Do these criteria provide objective evidence that
 investors would view the firms in the utility proxy group
 as risk-comparable to Avista?

Credit ratings are assigned by independent 17 Α. Yes. rating agencies to provide investors with a broad 18 assessment of the creditworthiness of a firm. Because the 19 20 rating agencies' evaluation includes virtually all of the 21 factors normally considered important in assessing a firm's relative credit standing, corporate credit ratings provide 22 a broad measure of overall investment risk that is readily 23 available to investors. Widely cited in the investment 24 community and referenced by investors as an objective 25 measure of risk, credit ratings are also frequently used as 26

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 6 of 27

a primary risk indicator in establishing proxy groups to
 estimate the cost of equity.

Apart from the broad assessment of investment risk 3 provided by credit ratings, other quality rankings 4 published by investment advisory services also provide 5 6 relative assessments of risk that are considered by investors in forming their expectations. Given that Value 7 8 Line is perhaps the most widely available source of investment advisory information, its Safety Rank and 9 Financial Strength Rating provide useful guidance regarding 10 the risk perceptions of investors. 11

The Safety Rank is Value Line's primary risk indicator 12 and ranges from "1" (Safest) to "5" (Riskiest). This 13 overall risk measure is intended to capture the total risk 14 of a stock, and incorporates elements of stock price 15 stability and financial strength. The Financial Strength 16 Rating is designed as a guide to overall financial strength 17 and creditworthiness, with the key inputs including 18 financial leverage, business volatility measures, and 19 company size. Value Line's Financial Strength Ratings 20 range from "A++" (strongest) down to "C" (weakest) in nine 21 22 steps.

As discussed earlier, Avista is rated "BBB-" by S&P,
which indicates slightly greater risk than the "BBB"
average rating for the firms in the utility proxy group.
Meanwhile, Value Line has assigned Avista a Safety Rank of

Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 7 of 27

"3" and a Financial Strength Rating of "B+" versus averages 1 of "3" and "B++", respectively for the utility proxy group. 2 Based on my screening criteria, which reflect objective, 3 published indicators that incorporate consideration of a 4 5 broad spectrum of risks, including financial and business position, relative size, and exposure to company specific 6 factors, investors are likely to regard this group as 7 having risks and prospects generally comparable to Avista. 8

What steps are required to apply the DCF model? 9 0. The first step in implementing the constant 10 Α. growth DCF model is to determine the expected dividend 11 yield (D_1/P_0) for the firm in question. This is usually 12 calculated based on an estimate of dividends to be paid in 13 the coming year divided by the current price of the stock. 14 The second, and more controversial, step is to estimate 15 investors' long-term growth expectations (g) for the firm. 16 The final step is to sum the firm's dividend yield and 17 estimated growth rate to arrive at an estimate of its cost 18 19 of equity.

20 Q. How was the dividend yield for the utility proxy
21 group determined?

A. Estimates of dividends to be paid by each of these utilities over the next twelve months, obtained from Value Line, served as D_1 . This annual dividend was then divided by the corresponding stock price for each utility to arrive at the expected dividend yield. The expected

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 8 of 27

dividends, stock prices, and resulting dividend yields for
 the firms in the utility proxy group are presented on
 Schedule WEA-4. As shown there, dividend yields for the
 twenty firms in the utility proxy group ranged from 2.4
 percent to 6.0 percent.

6 Q. What is the next step in applying the constant 7 growth DCF model?

The next step is to evaluate long-term growth 8 Α. expectations, or "g'', for the firm in question. In 9 constant growth DCF theory, earnings, dividends, book 10 value, and market price are all assumed to grow in 11 lockstep, and the growth horizon of the DCF model is 12 infinite. But implementation of the DCF model is more than 13 just a theoretical exercise; it is an attempt to replicate 14 the mechanism investors used to arrive at observable stock 15 prices. A wide variety of techniques can be used to derive 16 growth rates, but the only "g" that matters in applying the 17 DCF model is the value that investors expect. 18

Are historical growth rates likely to be 19 0. representative of investors' expectations for utilities? 20 If past trends in earnings, dividends, and 21 Α. No. book value are to be representative of investors' 22 expectations for the future, then the historical conditions 23 giving rise to these growth rates should be expected to 24 That is clearly not the case for utilities, 25 continue. where structural and industry changes have led to declining 26

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 9 of 27
dividends, earnings pressure, and, in many cases, 1 significant write-offs. While these conditions serve to 2 depress historical growth measures, they are not 3 representative of long-term expectations for the utility 4 industry. Moreover, to the extent historical trends for 5 utilities are meaningful, they are also captured in 6 projected growth rates, since securities analysts also 7 routinely examine and assess the impact and continued 8 relevance (if any) of historical trends. 9

10 Q. What are investors most likely to consider in 11 developing their long-term growth expectations?

While the DCF model is technically concerned with 12 Α. growth in dividend cash flows, implementation of this DCF 13 model is solely concerned with replicating the forward-14 looking evaluation of real-world investors. In the case of 15 electric utilities, dividend growth rates are not likely to 16 provide a meaningful guide to investors' current growth 17 This is because utilities have significantly expectations. 18 altered their dividend policies in response to more 19 accentuated business risks in the industry.² As a result 20 of this trend towards a more conservative payout ratio, 21 dividend growth in the utility industry has remained 22 largely stagnant as utilities conserve financial resources 23 to provide a hedge against heightened uncertainties. 24

² For example, the payout ratio for electric utilities fell from approximately 80% historically to on the order of 60%. The Value Line Investment Survey (Sep. 15, 1995 at 161, Dec. 28, 2007 at 695).

As payout ratios for firms in the utility industry 1 trended downward, investors' focus has increasingly shifted 2 from dividends to earnings as a measure of long-term 3 growth. Future trends in earnings, which provide the 4 source for future dividends and ultimately support share 5 prices, play a pivotal role in determining investors' long-6 term growth expectations. The importance of earnings in 7 evaluating investors' expectations and requirements is well 8 accepted in the investment community. As noted in Finding 9 Reality in Reported Earnings published by the Association 10 for Investment Management and Research: 11

[E]arnings, presumably, are the basis for the 12 investment benefits that we all seek. "Healthy 13 earnings equal healthy investment benefits" seems 14 a logical equation, but earnings are also a 15 scorecard by which we compare companies, a filter 16 through which we assess management, and a crystal 17 ball in which we try to foretell future 18 performance.³ 19

Value Line's near-term projections and its Timeliness 20 Rank, which is the principal investment rating assigned to 21 each individual stock, are also based primarily on various 22 quantitative analyses of earnings. As Value Line 23 explained: 24

The future earnings rank accounts for 65% in the 25 determination of relative price change in the 26 future; the other two variables (current earnings 27 rank and current price rank) explain 35%. 28

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

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

The fact that investment advisory services, such as Value 1 Line, Thompson, and Reuters, focus on growth in earnings 2 indicates that the investment community regards this as a 3 superior indicator of future long-term growth. Indeed, "A 4 Study of Financial Analysts: Practice and Theory," 5 published in the Financial Analysts Journal, reported the 6 results of a survey conducted to determine what analytical 7 techniques investment analysts actually use. Sespondents 8 were asked to rank the relative importance of earnings, 9 dividends, cash flow, and book value in analyzing 10 securities. Of the 297 analysts that responded, only 3 11 ranked dividends first while 276 ranked it last. The 12 13 article concluded:

14 Earnings and cash flow are considered far more 15 important than book value and dividends.⁶

More recently, the *Financial Analysts Journal* reported the results of a study of the relationship between valuations based on alternative multiples and actual market prices, which concluded, "In all cases studied, earnings dominated operating cash flows and dividends."⁷

⁵ Block, Stanley B., "A Study of Financial Analysts: Practice and Theory", Financial Analysts Journal (July/August 1999). ⁶ Id. at 88.

¹ Liu, Jing, Nissim, Doron, & Thomas, Jacob, "Is Cash Flow King in Valuations?," *Financial Analysts Journal*, Vol. 63, No. 2 (March/April 2007) at 56.

Q. What are security analysts currently projecting
 in the way of growth for the firms in the utility proxy
 group?

A. The IBES earnings growth projections for each of the firms in the utility proxy group reported by Thomson Financial are displayed on Schedule WEA-4. Also presented are the earnings per share ("EPS") growth projections reported by Value Line, Reuters, and Zacks.

9 Q. How else are investors' expectations of future 10 long-term growth prospects often estimated for use in the 11 constant growth DCF model?

Based on the assumptions underlying constant 12 Α. growth theory, conventional applications of the constant 13 growth DCF model often examine the relationship between 14 retained earnings and earned rates of return as an 15 indication of the sustainable growth investors might expect 16 from the reinvestment of earnings within a firm. The 17 sustainable growth rate is calculated by the formula, g =18 br+sv, where "b" is the expected retention ratio, "r" is 19 the expected earned return on equity, "s" is the percent of 20 common equity expected to be issued annually as new common 21 stock, and "v" is the equity accretion rate. 22

Q. What is the purpose of the "sv" term? A. Under DCF theory, the "sv" factor is a component of the growth rate designed to capture the impact of issuing new common stock at a price above, or below, book value. When a company's stock price is greater than its

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 13 of 27

book value per share, the per-share contribution in excess of book value associated with new stock issues will accrue to the current shareholders. This increase to the book value of existing shareholders leads to higher expected earnings and dividends, with the "sv" factor incorporating this additional growth component.

7 8

Q. How did you apply the earnings retention method for the proxy group of utilities?

The sustainable, "br+sv" growth rates for each 9 Α. firm in the proxy group are summarized on Schedule WEA-4, 10 with the underlying details being presented on 11 Schedule WEA-5. For each firm, the expected retention 12 ratio (b) was calculated based on Value Line's projected 13 dividends and earnings per share. Likewise, each firm's 14 expected earned rate of return (r) was computed by dividing 15 projected earnings per share by projected net book value. 16 Because Value Line reports end-of-year book values, an 17 adjustment was incorporated to compute an average rate of 18 return over the year, consistent with the theory underlying 19 this approach to estimating investors' growth expectations. 20 Meanwhile, the percent of common equity expected to be 21 issued annually as new common stock (s) was equal to the 22 product of the projected market-to-book ratio and growth in 23 common shares outstanding, while the equity accretion rate 24 (v) was computed as 1 minus the inverse of the projected 25 market-to-book ratio. 26

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 14 of 27

Q. What cost of equity estimates were implied for
 the utility proxy group using the DCF model?
 A. After combining the dividend yields and
 respective growth projections for each utility, the
 resulting cost of equity estimates are shown on
 Schedule WEA-4.

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

It is a basic economic principle that 11 Α. Yes. investors can be induced to hold more risky assets only if 12 they expect to earn a return to compensate them for their 13 risk bearing. As a result, the rate of return that 14 investors require from a utility's common stock, the most 15 junior and riskiest of its securities, must be considerably 16 higher than the yield offered by senior, long-term debt. 17 Consistent with this principle, the DCF range for the proxy 18 group of electric utilities must be adjusted to eliminate 19 cost of equity estimates that fail fundamental tests of 20 21 economic logic.

Q. Have similar tests been applied by regulators? A. Yes. The FERC has noted that adjustments are justified where applications of the DCF approach produce illogical results. FERC evaluates DCF results against observable yields on long-term public utility debt and has recognized that it is appropriate to eliminate cost of

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 15 of 27

equity estimates that do not sufficiently exceed this
 threshold. In a 2002 opinion establishing its current
 precedent for determining ROEs for electric utilities, for
 example, FERC concluded:

An adjustment to this data is appropriate in the 5 case of PG&E's low-end return of 8.42 percent, 6 7 which is comparable to the average Moody's "A" grade public utility bond yield of 8.06 percent, 8 9 for October 1999. Because investors cannot be expected to purchase stock if debt, which has 10 less risk than stock, yields essentially the same return, this low-end return cannot be considered 11 12 reliable in this case. 13

14 More recently, in its October 2006 decision in Kern River

15 Gas Transmission Company, FERC noted that:

16	[T]he 7.31 and 7.32 percent costs of equity for
17	El Paso and Williams found by the ALJ are only
18	110 and 122 basis points above that average yield
19	for public utility debt.

- FERC upheld the opinion of Staff and the Administrative LawJudge that cost of equity estimates for these two proxy
- 22 group companies "were too low to be credible."¹⁰

Q. What does this test of logic imply with respect
to the DCF results for the utility proxy group?
A. The average bond rating associated with the firms
in the utility proxy group is triple-B, with Moody's

27 monthly yields on triple-B bonds averaging approximately

- 28 6.4 percent in January 2008.¹¹ As highlighted on
- 29 Schedule WEA-4, six of the individual equity estimates for

¹¹ Moody's Investors Service, Credit Perspectives (Feb. 11, 2008).

⁸ Southern California Edison Company, 92 FERC ¶ 61,070 (2000) at p. 22. ⁹ Kern River Gas Transmission Company, Opinion No. 486, 117 FERC ¶ 61,077 at P 140 & n. 227 (2006). ¹⁰ Id.

the firms in the utility proxy group exceeded this 1 threshold by 120 basis points or less.¹² In light of the 2 risk-return tradeoff principle and the test applied in Kern 3 River Gas Transmission Company, it is inconceivable that 4 investors are not requiring a substantially higher rate of 5 return for holding common stock, which is the riskiest of a 6 utility's securities. As a result, these values provide 7 little guidance as to the returns investors require from 8 the common stock of an electric utility. 9

Do you also recommend excluding cost of equity 10 ο. estimates at the high end of the range of DCF results? 11 As highlighted on Schedule WEA-4, I also 12 Α. Yes. eliminated cost of equity estimates at the upper end of the 13 Compared with the balance of the range of DCF results. 14 remaining estimates, these values are extreme outliers and 15 should also be excluded in evaluating the results of the 16 17 DCF model for the utility proxy group. This is also consistent with the approach and threshold adopted by FERC, 18 which established that a 17.7 percent DCF estimate for an 19 electric utility was "an extreme outlier" and should be 20 disregarded.¹³ 21

- ¹² As highlighted on Schedule WEA-4, these DCF estimates ranged from 5.7 percent to 7.5 percent.
- 5.7 percent to 7.5 percent. ¹³ ISO New England, Inc., 109 FERC ¶ 61,147 at P 205 (2004).

Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 17 of 27 Q. What cost of equity is implied by your DCF
 results for the utility proxy group?
 A. As shown on Schedule WEA-4 and summarized in
 Table 1, below, after eliminating illogical low- and high end values, application of the constant growth DCF model
 resulted in the following cost of equity estimates:

7 8

TABLE 1 DCF RESULTS - UTILITY PROXY GROUP

Growth Rate	Average Cost of Equity
IBES	11.3%
Value Line	10.4%
Reuters	10.6%
Zacks	10.9%
br+sv	9.2%

9	Q. What did you conclude based on the results of the
10	DCF analyses for the utility proxy group?
11	A. Taken together, and considering the relative
12	strengths and weaknesses associated with the alternative
13	growth measures, I concluded that the constant growth DCF
14	results for the utility proxy group implied a cost of
15	equity of 10.7 percent.

How else can the DCF model be applied to estimate 16 0. 17 the ROE for Avista? Under the regulatory standards established by 18 Α. Hope and Bluefield, the salient criteria in establishing a 19 meaningful benchmark to evaluate a fair rate of return is 20 relative risk, not the particular business activity or 21 degree of regulation. Utilities must compete for capital, 22 not just against firms in their own industry, but with 23

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 18 of 27

other investment opportunities of comparable risk. With 1 regulation taking the place of competitive market forces, 2 required returns for utilities should be in line with those 3 of non-utility firms of comparable risk operating under the 4 constraints of free competition. Consistent with this 5 accepted regulatory standard, I also applied the DCF model 6 to a reference group of comparable risk companies in the 7 non-utility sector of the economy. 8

9 Q. What criteria did you apply to evaluate 10 investors' risk perceptions?

As discussed in my testimony, my assessment of 11 Α. comparable risk relied on three objective benchmarks for 12 the risks associated with common stocks -- Value Line's 13 Safety Rank, Financial Strength rating, and beta. Μv 14 comparable risk proxy group was composed of those U.S. 15 companies followed by Value Line that 1) pay common 16 dividends, 2) have a Safety Rank of "1", 2) have a 17 Financial Strength Rating of "A" or above, and 3) have beta 18 values of 0.90 or less,¹⁴ and (4) have published data from 19 IBES, Value Line, Reuters, and Zacks. Consistent with the 20 development of my utility proxy group, I also eliminated 21 firms with below-investment grade credit ratings. 22

¹⁴ This threshold corresponds to the average beta of 0.89 for the utility proxy group discussed earlier.

1 Q. What were the results of your DCF analysis for 2 the non-utility reference group?

A. As shown on Schedule WEA-6, I applied the DCF model to the non-utility proxy group in exactly the same manner described earlier for the utility proxy group.¹⁵ As summarized in Table 2, below, after eliminating illogical low- and high-end values, application of the constant growth DCF model resulted in the following cost of equity estimates:

TABLE 2DCF RESULTS - NON-UTILITY PROXY GROUP

10

11

Growth Rate	Average Cost of Equity
I/B/E/S	12.9%
Value Line	12.2%
Reuters	12.5%
Zacks	12.7%
br+sv	13.0%

12 Taken together, I concluded that the constant growth DCF 13 results for the non-utility proxy group implied a cost of 14 equity of 12.6 percent.

B. Capital Asset Pricing Model

Q Please describe the CAPM.
A. The CAPM is a theory of market equilibrium that
measures risk using the beta coefficient. The CAPM assumes
that investors are fully diversified, so the relevant risk
of an individual asset (e.g., common stock) is its
volatility relative to the market as a whole. Beta

¹⁵ Schedule WEA-7 contains the details underlying the calculation of the br+sv growth rates for the non-utility proxy group.

Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 20 of 27 1 reflects the tendency of a stock's price to follow changes 2 in the market. A stock that tends to respond relatively 3 less to market movements has a beta less than 1.00, while 4 stocks that tend to move more than the market have betas 5 greater than 1.00. The CAPM is mathematically expressed 6 as:

7

8 where: R_j = required rate of return for stock j; 9 R_f = risk-free rate; 10 R_m = expected return on the market 11 portfolio; and, 12 • = beta, or systematic risk, for stock j.

 $R_{i} = R_{f} + \bullet_{i} (R_{m} - R_{f})$

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

20 Q. How did you apply the CAPM to estimate the cost 21 of equity?

A. Application of the CAPM to the utility proxy group based on a forward-looking estimate for investors' required rate of return from common stocks is presented on Schedule WEA-8. In order to capture the expectations of today's investors in current capital markets, the expected

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 21 of 27

market rate of return was estimated by conducting a DCF
 analysis on the dividend paying firms in the S&P 500.

The dividend yield for each firm was obtained from 3 Value Line, with the growth rate being equal to the average 4 of the earnings growth projections for each firm compiled 5 by IBES and Value Line, with each firm's dividend yield and 6 growth rate being weighted by its proportionate share of 7 total market value. Based on the weighted average of the 8 projections for the 354 individual firms, current estimates 9 imply an average growth rate over the next five years of 10 11.0 percent. Combining this average growth rate with a 11 dividend yield of 2.2 percent results in a current cost of 12 equity estimate for the market as a whole of approximately 13 13.2 percent. Subtracting a 4.4 percent risk-free rate 14 based on the average yield on 20-year Treasury bonds for 15 January 2008 produced a market equity risk premium of 8.8 16 Multiplying this risk premium by the average 17 percent. Value Line beta of 0.89 for the utility proxy group, and 18 then adding the resulting 7.8 percent risk premium to the 19 average long-term Treasury bond yield, indicated an ROE of 20 21 approximately 12.2 percent.

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 22 of 27

Q. What cost of equity was indicated for the non utility proxy group based on this forward-looking
 application of the CAPM?

A. As shown on Schedule WEA-9, applying the forwardlooking CAPM approach to the firms in the non-utility proxy group implied a cost of equity of 11.4 percent.

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

7

8

I also applied the CAPM using risk premiums based 9 Α. This approach to on historical realized rates of return. 10 estimating investors' equity risk premiums is premised on 11 the notion that past experience heavily conditions future 12 expectations. The essential assumption of the historical 13 risk premium when used in the CAPM approach is that, while 14 historical returns do not predict the future, investors 15 form expectations of future stock returns based on 16 observable debt yields and the historical experience of 17 returns from common stock investments relative to debt 18 19 investments.

While reference to historical data represents one way 20 to apply the CAPM, these realized rates of return reflect, 21 at best, an indirect estimate of investors' current 22 requirements. The cost of capital is a forward-looking, or 23 expectational concept that is focused on the perceptions of 24 today's capital market investors. Past investment returns 25 are frequently referenced and may provide a useful 26 benchmark, but the only factors that actually determine the 27

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 23 of 27

current required rate of return are investors' expectations
 for the future. As a result, forward-looking applications
 of the CAPM that look directly at investors' expectations
 in the capital markets are apt to provide a more meaningful
 guide to investors' required rate of return.

6 Q. What CAPM cost of equity is produced based on 7 historical realized rates of return for stocks and long-8 term government bonds?

I applied the CAPM using data published by 9 Α. Ibbotson Associates, which is perhaps the most exhaustive 10 and widely referenced annual study of realized rates of 11 return. Application of the CAPM based on historical 12 realized rates of return is presented in Schedule WEA-10. 13 In their 2007 Yearbook, Valuation Edition, Ibbotson 14 Associates reported that, over the period from 1926 through 15 2006, the arithmetic mean realized rate of return on the 16 S&P 500 exceeded that on long-term government bonds by 7.1 17 percent.¹⁶ Multiplying this historical market risk 18 premium by the average Value Line beta of 0.89 19 produced an equity risk premium of 6.3 percent for the 20 utility proxy group. As shown on Schedule WEA-10, 21 adding this equity risk premium to the January 2008 22 average yield on 20-year Treasury bonds of 4.4 percent 23 resulted in an implied cost of equity of 10.7 percent. 24

¹⁶ Ibbotson Associates computes the equity risk premium by subtracting the income return (not the total return) on long-term Treasury bonds from the return on common stocks. Q. What cost of equity was indicated for the non utility proxy group based on the historical CAPM approach?
 A. As shown on Schedule WEA-11, applying the
 historical CAPM approach to the firms in the non-utility
 proxy group implied a cost of equity of 10.0 percent.

C. Expected Earnings Method

6 7

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

As I noted earlier, I also evaluated the ROE 8 Α. using the expected earnings method. Reference to rates of 9 return available from alternative investments of comparable 10 risk can provide an important benchmark in assessing the 11 return necessary to assure confidence in the financial 12 integrity of a firm and its ability to attract capital. 13 This expected earnings approach is consistent with the 14 economic underpinnings for a fair rate of return 15 established by the Supreme Court in Hope and Bluefield. 16 Moreover, it avoids the complexities and limitations of 17 capital market methods and instead focuses on expected 18 earned returns on book equity, which are more readily 19 available to investors. 20

21 22

Q. What rates of return are indicated for utilities based on this approach?

23 A. With respect to expectations for electric 24 utilities generally, the February 8, 2008 edition of Value 25 Line reports that its analysts anticipate an average rate 26 of return on common equity for the electric utility

> Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 25 of 27

industry of 11.5 percent in 2008 and over its three-to-five year forecast horizon.¹⁷ Meanwhile, Value Line expects that natural gas utilities will earn an average rate of return on common equity of 11.5 percent in 2008 and 12.0 percent over the years 2010 through 2012.¹⁸

For the firms in the utility proxy group specifically, 6 the returns on common equity projected by Value Line over 7 its three-to-five year forecast horizon are shown on 8 Schedule WEA-12. Consistent with the rationale underlying 9 the development of the br+sv growth rates, these year-end 10 values were converted to average returns using the same 11 adjustment factor discussed earlier. As shown on Schedule 12 WEA-12, after eliminating potential outliers, Value Line's 13 projections suggested an average ROE of 10.5 percent for 14 15 the utility proxy group.

16 Q. What return on equity is indicated by the results 17 of the expected earnings approach?

18 A. Based on the results discussed above, I concluded 19 that the comparable earnings approach implies a fair rate 20 of return on equity of 11.0 percent.

D. Summary of Quantitative Results

21 Q. Please summarize the results of your quantitative 22 analyses.

23 A. The cost of equity estimates implied by my

24 quantitative analyses are summarized in Table 3 below:

¹⁷ The Value Line Investment Survey, at 1776 (Feb. 8, 2008).
 ¹⁸ The Value Line Investment Survey, at 445 (Dec. 14, 2007).

Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 26 of 27 TABLE 3 SUMMARY OF QUANTITATIVE RESULTS

	<u>Cost of Equi</u>	<u>ty Estimates</u>
Method	Utility Proxy Group	Non-Utility Proxy Group
DCF	10.7%	12.6%
CAPM		
Forward-looking	12.2%	11.4%
Historical	10.7%	10.0%
Expected Earnings	11.0%	

Exhibit No. 3 Case Nos AVU-E-08-01 & AVU-G-08-01 W. Avera, Avista Schedule WEA-2, p. 27 of 27

CAPITAL STRUCTURE

Schedule WEA-3 Page 1 of 1

UTILITY PROXY GROUP

		At De	cember 31, 20	07 (a)	Value	Line Projec	ted (b)	
		Long-term		Common	Long-term		Common	
	Company	Debt	Preferred	Equity	Debt	Other	Equity	
1	American Elec Pwr	59.7%	0.2%	40.1%	56.5%	0.5%	43.0%	
ы	Avista Corp.	48.0%	5.7%	46.2%	50.5%	0.0%	49.5%	
ю	Black Hills Corp.	42.1%	0.0%	57.9%	39.5%	0.0%	60.5%	
4	Cleco Corp.	46.2%	0.1%	53.7%	50.0%	0.0%	50.0%	
ഗ	DTE Energy Co.	53.5%	2.2%	44 .3%	56.5%	0.0%	43.5%	
9	Edison International	48.3%	4.9%	46.8%	47.0%	4.0%	49.0%	
~	Hawaiian Elec.	48.7%	1.3%	50.0%	51.5%	1.5%	47.0%	
8	IDACORP, Inc.	49.2%	0.0%	50.8%	50.0%	0.0%	50.0%	
6	NiSource Inc.	52.6%	0.0%	47.4%	51.0%	0.0%	49.0%	
10) Northeast Utilities	54.6%	1.7%	43.7%	56.5%	1.0%	42.5%	
11	PG&E Corp.	48.1%	1.5%	50.4%	45.5%	1.5%	53.0%	
12	PNM Resources	49.7%	0.3%	50.0%	48.5%	0.5%	51.0%	
13) Portland General Elec.	49.9%	0.0%	50.1%	51.5%	0.0%	48.5%	
14	i PPL Corp.	56.3%	2.2%	41.5%	48.5%	2.0%	49.5%	
15	Frogress Energy	52.8%	0.5%	46.7%	49.5%	0.5%	50.0%	
16	F S Enterprise Group	52.8%	0.5%	46.7%	46.0%	0.5%	53.5%	
17	7 Westar Energy	50.6%	0.6%	48.9%	50.0%	0.5%	49.5%	
18	3 Wisconsin Energy	53.0%	0.5%	46.6%	52.0%	0.5%	47.5%	
19) Xcel Energy, Inc.	52.1%	0.8%	47.1%	54.5%	0.5%	45.0%	_
	Average	51.0%	1.2%	47.8%	50.3%	0.7%	49.0%	L
						:		Ωġ

(a) Company Form 10-K and Annual Reports.
(b) <u>The Value Line Investment Survey</u> (Nov. 30 & Dec. 28, 2007, Feb. 8, 2008).

Case Nos AVU-E-08-01 AVU-G-08-01 W. Avera, Avista Schedule WEA-3, p. 1of 1

CONSTANT GROWTH DCF MODEL

UTILITY PROXY GROUP

	(a)	(a)		(q)	(c)	(q)	(e)	(f)	(g)	(g)	(g)	(g)	(g)
	•	Dividend Yiel	þ		9	rowth Rate	s			Cost of	Equity Es	timates	
Company	Pric	e Dividends	<u>Yield</u>	IBES	<u>V Line</u>	Reuters	<u>Zacks</u>	<u>br+sv</u>	IBES	<u>V Line</u>	<u>Reuters</u>	<u>Zacks</u>	<u>br+sv</u>
1 American Elec Pwr	\$ 42	.65 \$ 1.67	3.9%	6.0%	6.5%	5.4%	5.0%	6.3%	6.6%	10.4%	9.3%	8.9%	10.2%
2 Avista Corp.	\$ 19	.64 \$ 0.63	3.2%	4.5%	9.0%	4.5%	5.0%	3.4%	7.7%	12.2%	7.7%	8.2%	6.6%
3 Black Hills Corp.	\$ 38	.95 \$ 1.40	3.6%	6.5%	5.5%	6.0%	6.5%	4.7%	10.1%	9.1%	9.6%	10.1%	8.3%
4 Cleco Corp.	\$ 25	.17 \$ 0.90	3.6%	14.0%	6.5%	15.5%	9.5%	4.6%	17.6%	10.1%	19.1%	13.1%	8.1%
5 DTE Energy Co.	\$ 41	.58 \$ 2.18	5.2%	5.8%	4.0%	6.4%	6.0%	2.2%	11.0%	9.2%	11.6%	11.2%	7.4%
6 Edison International	\$ 49	.70 \$ 1.24	2.5%	8.8%	6.5%	8.0%	10.3%	6.6%	11.3%	9.0%	10.5%	12.8%	9.1%
7 Hawaiian Elec.	\$ 21	.85 \$ 1.24	5.7%	8.5%	1.5%	3.1%	4.5%	2.6%	14.2%	7.2%	8.8%	10.2%	8.3%
8 IDACORP, Inc.	\$ 32	20 \$ 1.20	3.7%	6.0%	2.0%	6.0%	5.0%	3.5%	9.7%	5.7%	9.7%	8.7%	7.3%
9 NiSource Inc.	\$ 17	.51 \$ 0.92	5.3%	2.8%	2.5%	2.7%	2.8%	2.5%	8.1%	7.8%	8.0%	8.1%	7.8%
10 Northeast Utilities	\$ 28	.26 \$ 0.82	2.9%	10.4%	17.0%	10.0%	12.7%	7.6%	13.3%	19.9%	12.9%	15.6%	10.5%
11 PG&E Corp.	\$ 41	.39 \$ 1.53	3.7%	9.5%	4.5%	8.5%	8.5%	5.0%	13.2%	8.2%	12.2%	12.2%	8.7%
12 PNM Resources	\$ 18	.90 \$ 0.94	5.0%	9.0%	2.5%	10.3%	6.3%	3.4%	14.0%	7.5%	15.3%	11.3%	8.4%
13 Portland General Elec.	\$ 24	.26 \$ 0.97	4.0%	7.9%	14.5%	7.9%	7.0%	4.1%	11.9%	18.5%	11.9%	11.0%	8.1%
14 PPL Corp.	\$ 47	.68 \$ 1.31	2.7%	13.7%	14.0%	15.2%	10.3%	9.4%	16.4%	16.7%	17.9%	13.0%	12.1%
15 Progress Energy	\$ 44	1.42 \$ 2.46	5.5%	4.6%	3.5%	4.5%	5.2%	2.9%	10.1%	9.0%	10.0%	10.7%	8.4%
16 P S Enterprise Group	\$ 91	20 \$ 2.58	2.8%	19.7%	11.5%	14.3%	18.5%	9.2%	22.5%	14.3%	17.1%	21.3%	12.1%
17 Westar Energy	\$ 23	3.03 \$ 1.14	5.0%	5.6%	4.5%	4.6%	4.5%	4.0%	10.6%	9.5%	9.5%	9.5%	9.0%
18 Wisconsin Energy	\$ 45	5.21 \$ 1.08	2.4%	8.1%	8.0%	9.3%	9.4%	6.8%	10.5%	10.4%	11.7%	11.8%	9.1%
19 Xcel Energy, Inc.	\$ 20	.71 \$ 0.94	4.5%	6.0%	5.5%	6.1%	5.2%	4.2%	10.5%	10.0%	10.7%	9.7%	8.7%
Average (h)									11.3%	10.4%	10.6%	10.9%	9.2%

(a) Recent price and estimated dividend for next 12 mos. fror The Value Line Investment Survey, Summary and Index (Feb. 1, 2008).

(b) Thompson Financial Company in Context Report (Feb. 1, 2008).
(c) The Value Line Investment Survey (Nov. 30 & Dec. 28, 2007, Feb. 8, 2008).
(d) http://stocks.us.reuters.com (retrieved Feb. 4, 2008)
(e) http://www.zacks.com/research (retrieved Feb. 4, 2008)
(f) See Schedule WEA-5.
(g) Sum of dividend yield and respective growth rate
(h) Excludes highlighted figures

Exhibit No. 3 Case Nos AVU-E-08-01 AVU-G-08-01 W. Avera, Avista Schedule WEA-4, p. 1of 1

Schedule WEA-4 Page 1 of 1

Schedule WEA-5 Page 1 of 1

SUSTAINABLE GROWTH RATE

UTILITY PROXY GROUP

Institution <th rowspac<="" th=""><th></th><th></th><th>(a)</th><th>(a)</th><th>(a)</th><th>(a)</th><th>(q)</th><th>(c)</th><th>(p)</th><th>(e)</th><th>(ł)</th><th>(g)</th><th>(µ)</th></th>	<th></th> <th></th> <th>(a)</th> <th>(a)</th> <th>(a)</th> <th>(a)</th> <th>(q)</th> <th>(c)</th> <th>(p)</th> <th>(e)</th> <th>(ł)</th> <th>(g)</th> <th>(µ)</th>			(a)	(a)	(a)	(a)	(q)	(c)	(p)	(e)	(ł)	(g)	(µ)
ofNet BookAnnualAdjustment $Adjusted$ bx """w"SustainableeValueChangeFactor"b"<" "r"	Projections	Projections	rojections	Sul		Historical		Mid-Year						
v AlueChangeFactor"b""r"growthFactorGrowth 0 $$23.73$ 6.2% 1.0299 45.0% 12.9% 5.8% 0.52% 6.3% 5 $$217.46$ 3.5% 1.0173 37.1% 8.6% 3.2% 0.19% 6.3% 5 $$513.68$ 5.4% 1.00248 37.1% 8.6% 3.2% 0.19% 6.3% 0 $$515.22$ 5.1% 1.00248 37.1% 8.6% 3.2% 0.67% 4.7% 0 $$515.22$ 5.1% 1.0248 35.0% 10.5% 2.9% 0.67% 4.6% 0 $$513.44$ 0.5% 1.0023 11.2% 9.3% 0.01% 6.6% 5 $$513.44$ 0.5% 1.0023 11.73% 10.9% 1.9% 0.75% 2.2% 5 $$$13.44$ 0.5% 1.0010 33.3% 7.5% 2.9% 0.01% 5.6% 5 $$$13.44$ 0.5% 1.0023 11.02% 7.5% 2.5% 0.01% 2.5% 5 $$$13.44$ 0.5% 1.0023 33.3% 7.5% 2.5% 0.01% 2.5% 5 $$$213.7$ 1.0100 33.3% 7.5% 2.5% 0.01% 2.5% 5 $$$213.2$ 1.0100 33.3% 7.5% 2.5% 0.01% 2.5% 5 $$$213.7$ 1.0202 57.4% 10.6% 4.1% 2.5% 2.5% 5 $$$213.2$ 1.023	Net	Net	Net	Net	Book	Net Book	Annual	Adjustment	7	Adjusted	"b x r"	"sv"	Sustainable	
	Company EPS DPS Val	EPS DPS Va	DPS Va	Va	lue	Value	Change	Factor	q.	"T"	growth	Factor	Growth	
5\$17.46 3.5% 1.0173 37.1% 8.6% 3.2% 0.19% 3.4% 6\$23.68 5.4% 1.0261 44.4% 9.2% 4.1% 0.67% 4.7% 0\$15.22 5.1% 1.0248 35.0% 10.5% 3.7% 0.88% 4.6% 6\$533.02 2.8% 1.0140 31.4% 9.2% 4.1% 0.67% 4.7% 6\$533.02 2.8% 1.0140 31.4% 9.3% 2.9% 0.75% 2.2% 5\$13.44 0.5% 1.0023 17.3% 10.9% 1.9% 0.75% 2.2% 5\$13.44 0.5% 1.0100 31.4% 7.4% 3.5% 0.01% 6.6% 5\$13.44 0.5% 1.0100 33.3% 7.5% 2.9% 0.01% 6.6% 6\$18.14 4.1% 1.0023 1.0100 33.3% 7.5% 2.5% 0.01% 5.6% 5\$18.32 2.0% 1.0100 33.3% 7.5% 2.5% 0.01% 5.6% 5\$13.30 8.1% 1.0202 57.4% 10.6% 6.1% 1.5% 5.6% 5\$52.05 6.3% 1.0100 33.3% 7.5% 2.5% 0.01% 5.6% 5\$52.33 1.0234 45.1% 7.5% 2.5% 0.01% 5.6% 5\$519.58 8.2% 1.0080 $2.3.7\%$ 12.1% 2.7% 2.7% 5\$513.30 1.2% </td <td>American Elec Pwr \$4.00 \$2.20 \$32.</td> <td>\$4.00 \$2.20 \$32.</td> <td>\$2.20 \$32.</td> <td>\$32.</td> <td>8</td> <td>\$23.73</td> <td>6.2%</td> <td>1.0299</td> <td>45.0%</td> <td>12.9%</td> <td>5.8%</td> <td>0.52%</td> <td>6.3%</td>	American Elec Pwr \$4.00 \$2.20 \$32.	\$4.00 \$2.20 \$32.	\$2.20 \$32.	\$32.	8	\$23.73	6.2%	1.0299	45.0%	12.9%	5.8%	0.52%	6.3%	
5\$23.68 5.4% 1.0261 44.4% 9.2% 4.1% 0.67% 4.7% 0\$15.22 5.1% 1.0248 35.0% 10.5% 3.7% 0.88% 4.6% 0\$533.02 2.8% 1.0140 31.4% 9.3% 2.9% 0.75% 4.6% 5\$13.44 0.5% 1.0140 31.4% 9.3% 2.9% 0.01% 5.6% 5\$13.44 0.5% 1.0023 17.3% 10.9% 6.6% 0.01% 6.6% 5\$13.44 0.5% 1.0103 17.3% 10.9% 6.6% 0.01% 6.6% 5\$13.44 0.5% 1.0103 17.3% 10.9% 0.75% 2.2% 5\$13.14 0.5% 1.0100 33.3% 7.5% 2.5% 0.09% 5.6% 5\$13.44 0.5% 1.0100 33.3% 7.5% 2.5% 0.09% 5.6% 5\$13.14 4.1% 1.0202 57.4% 10.6% 6.1% 1.5% 7.6% 5\$19.58 4.8% 1.0176 4.5% 7.5% 2.5% 0.09% 2.5% 5\$19.58 1.01202 57.4% 10.6% 6.1% 0.75% 2.1% 5\$19.58 1.0306 2.3% 9.5% 0.16% 2.7% 5\$513.30 1.0256 2.1% 0.16% 2.1% 5\$513.30 1.0256 2.1% 0.16% 2.1% 5\$517.62 $2.$	Avista Corp. \$1.75 \$1.10 \$20.	\$1.75 \$1.10 \$20.	\$1.10 \$20.	\$20.	75	\$17.46	3.5%	1.0173	37.1%	8.6%	3.2%	0.19%	3.4%	
0\$15.22 5.1% 1.0248 35.0% 105% 3.7% 0.88% 4.6% 0\$33.02 2.8% 1.0140 31.4% 9.3% 2.9% 0.75% 2.2% 5\$13.44 0.5% 1.0371 60.6% 10.9% 6.6% 0.01% 6.6% 5\$13.44 0.5% 1.0023 17.3% 10.9% 6.6% 0.01% 6.6% 5\$13.44 0.5% 1.0023 17.3% 10.9% 6.6% 0.01% 6.6% 5\$18.32 2.0% 1.0100 33.3% 7.5% 2.5% 0.09% 3.5% 5\$18.32 2.0% 1.0100 33.3% 7.5% 2.5% 0.09% 3.5% 5\$518.14 4.1% 1.0202 57.4% 10.6% 6.1% 1.56% 7.6% 5\$52.09 3.6% 1.0202 38.1% 11.2% 7.5% 2.5% 7.6% 5\$52.09 3.6% 1.0020 38.1% 11.2% 7.5% 2.5% 5\$519.58 4.8% 1.00202 38.1% 11.2% 7.5% 2.5% 5\$513.30 8.2% 1.00305 23.3% 7.5% 2.5% 0.04% 4.1% 5\$513.30 8.2% 1.0176 45.1% 7.5% 2.5% 0.04% 2.9% 5\$513.30 8.2% 1.00305 23.3% 9.5% 2.2% 0.04% 2.9% 5\$513.30 1.2% 2.3	Black Hills Corp. \$2.75 \$1.53 \$30.	\$2.75 \$1.53 \$30.	\$1.53 \$30.	\$30.	75	\$23.68	5.4%	1.0261	44.4%	9.2%	4.1%	0.67%	4.7%	
0 $$33.02$ 2.8% 1.0140 31.4% 9.3% 2.9% 0.75% 2.2% 5 $$12.3.46$ 7.7% 1.0371 60.6% 10.9% 6.6% 0.01% 6.6% 5 $$513.44$ 0.5% 1.0371 60.6% 10.9% 6.6% 0.01% 6.6% 5 $$$13.44$ 0.5% 1.0184 4.67% 7.4% 3.5% 0.09% 3.5% 5 $$$18.32$ 2.0% 1.0100 33.3% 7.5% 2.5% 0.01% 2.5% 6 $$$18.14$ 4.1% 1.0202 57.4% 10.6% 6.1% 1.56% 7.6% 5 $$$25.095$ 6.3% 1.0306 38.1% 11.2% 4.3% 0.72% 5.0% 5 $$$22.09$ 3.6% 1.0176 45.1% 7.5% 3.4% 7.6% 5 $$$22.09$ 3.6% 1.0176 45.1% 7.5% 3.4% 7.6% 5 $$$22.09$ 3.6% 1.0076 45.1% 7.5% 3.4% 7.6% 5 $$$$22.30$ 1.0176 45.1% 7.5% 3.4% 7.6% 5 $$$$$22.31$ 1.0080 23.3% 9.3% 2.7% 0.16% 4.1% 5 $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$	Cleco Corp. \$2.00 \$1.30 \$19.	\$2.00 \$1.30 \$19.5	\$1.30 \$19.5	\$19.5	00	\$15.22	5.1%	1.0248	35.0%	10.5%	3.7%	0.88%	4.6%	
0 $$23.66$ 7.7% 1.0371 60.6% 10.9% 6.6% 0.01% 6.6% 5 $$13.44$ 0.5% 1.0023 17.3% 10.9% 1.9% 0.75% 2.6% 5 $$$25.76$ 3.7% 1.0184 46.7% 7.4% 3.5% 0.09% 3.5% 6 $$$18.14$ 4.1% 1.0100 33.3% 7.5% 2.5% 0.01% 2.5% 5 $$$18.32$ 2.0% 1.0100 33.3% 7.5% 2.5% 0.01% 2.5% 5 $$$18.14$ 4.1% 1.0202 57.4% 10.6% 6.1% 1.56% 7.6% 5 $$$22.09$ 3.6% 1.0100 33.3% 7.5% 2.5% 0.01% 2.5% 5 $$$22.09$ 3.6% 1.0100 38.1% 11.2% 4.3% 0.72% 5.0% 5 $$$22.09$ 3.6% 1.00305 51.1% 7.5% 3.4% 0.16% 4.1% 5 $$$19.58$ 4.8% 1.00305 51.1% $2.3.7\%$ 0.2% 2.7% 9.4% 5 $$$17.62$ 4.9% 1.00305 57.4% 15.1% 2.7% 0.16% 4.1% 5 $$$25.33$ 11.2% 1.0282 57.4% 15.1% 2.7% 0.16% 4.1% 5 $$$25.33$ 11.2% 2.5% 0.16% 0.16% 4.1% 5 $$$214.70$ 5.8% 1.0282 57.4% 15.1% 0.75% 9.2% 5 $$$17.62$ <	DTE Energy Co. \$3.50 \$2.40 \$38.0	\$3.50 \$2.40 \$38.0	\$2.40 \$38.0	\$38.0	0	\$33.02	2.8%	1.0140	31.4%	9.3%	2.9%	-0.75%	2.2%	
5\$13.44 0.5% 1.0023 17.3% 10.9% 1.9% 0.75% 2.6% 5\$25.76 3.7% 1.0184 46.7% 7.4% 3.5% 0.09% 3.5% 6\$18.32 2.0% 1.0100 33.3% 7.5% 2.5% 0.09% 3.5% 6\$18.14 4.1% 1.0202 57.4% 10.6% 6.1% 1.56% 7.5% 5\$20.95 6.3% 1.0202 57.4% 10.6% 6.1% 1.56% 7.6% 5\$520.95 6.3% 1.0202 57.4% 10.6% 6.1% 1.56% 7.6% 5\$520.95 6.3% 1.0306 38.1% 11.2% 4.3% 0.04% 2.5% 5\$513.30 8.2% 1.0176 $451.\%$ 7.5% 3.4% 3.4% 5\$513.30 8.2% 1.0234 4.22% 9.3% 0.16% 4.1% 5\$513.30 8.2% 1.0280 23.3% 9.5% 2.2% 0.04% 2.9% 5\$513.30 11.2% 1.0280 23.3% 9.5% 0.74% 0.16% 2.9% 5\$513.30 11.2% 1.0282 57.4% 15.1% 2.7% 0.74% 0.74% 5\$514.26 1.02% 3.3% 0.74% 0.74% 0.9% 5\$514.28 3.9% 1.0189 37.1% 10.3% 0.36% 0.0% 6\$5.8\% 1.0189 37.1% 10.3% 0.36% <td>Edison International \$3.60 \$1.42 \$34.3</td> <td>\$3.60 \$1.42 \$34.3</td> <td>\$1.42 \$34.3</td> <td>\$34.3</td> <td>0</td> <td>\$23.66</td> <td>7.7%</td> <td>1.0371</td> <td>60.6%</td> <td>10.9%</td> <td>6.6%</td> <td>0.01%</td> <td>6.6%</td>	Edison International \$3.60 \$1.42 \$34.3	\$3.60 \$1.42 \$34.3	\$1.42 \$34.3	\$34.3	0	\$23.66	7.7%	1.0371	60.6%	10.9%	6.6%	0.01%	6.6%	
5\$25.76 3.7% 1.0184 46.7% 7.4% 3.5% 0.09% 3.5% 6\$18.32 2.0% 1.0100 33.3% 7.5% 2.5% 0.01% 2.5% 5\$18.14 4.1% 1.0202 57.4% 10.6% 6.1% 1.56% 7.6% 5\$20.95 6.3% 1.0202 57.4% 10.6% 6.1% 1.56% 7.6% \$22.09 3.6% 1.0176 45.1% 7.5% 3.4% 0.04% 3.4% \$23.30 $8.2.\%$ 1.0176 45.1% 7.5% 3.4% 0.04% 3.4% \$513.30 8.2% 1.00305 51.1% 23.7% 12.1% 0.04% 4.1% \$532.37 1.6% 1.00305 51.1% 23.7% 12.1% -2.72% 9.4% \$532.33 11.2% 1.0030 23.3% 9.5% 2.2% 0.06% 2.9% \$525.33 11.2% 1.0030 23.3% 9.5% 3.7% 0.16% 4.0% \$525.33 11.2% 1.0030 23.3% 9.5% 0.74% 9.6% \$517.62 4.9% 1.0232 57.4% 15.1% 0.74% 0.04% \$532.37 11.2% 1.0232 57.3% 11.8% 0.74% 0.74% \$532.38 10.8% 1.0189 3.71% 0.74% 0.00% 0.6% \$544.70 5.8% 1.0189 37.1% 10.3% 0.74% 0.00% \$573\% 10.3% 0.3% </td <td>Hawaiian Elec. \$1.50 \$1.24 \$13.75</td> <td>\$1.50 \$1.24 \$13.75</td> <td>\$1.24 \$13.75</td> <td>\$13.75</td> <td></td> <td>\$13.44</td> <td>0.5%</td> <td>1.0023</td> <td>17.3%</td> <td>10.9%</td> <td>1.9%</td> <td>0.75%</td> <td>2.6%</td>	Hawaiian Elec. \$1.50 \$1.24 \$13.75	\$1.50 \$1.24 \$13.75	\$1.24 \$13.75	\$13.75		\$13.44	0.5%	1.0023	17.3%	10.9%	1.9%	0.75%	2.6%	
5\$18.32 2.0% 1.0100 33.3% 7.5% 2.5% 0.01% 2.5% 6\$18.14 4.1% 1.0202 57.4% 10.6% 6.1% 1.56% 7.6% 5\$\$20.95 6.3% 1.0306 38.1% 11.2% 4.3% 0.72% 5.0% 5\$\$22.09 3.6% 1.0176 45.1% 7.5% 3.4% 0.72% 5.0% 5\$\$19.58 4.8% 1.0176 45.1% 7.5% 3.4% 0.16% 4.1% 5\$\$19.58 4.8% 1.0234 42.2% 9.3% 3.9% 0.16% 4.1% 5\$\$13.30 8.2% 1.0395 51.1% 23.7% 12.1% -2.72% 9.4% 5\$\$13.30 8.2% 1.0395 51.1% 23.7% 12.1% -2.72% 9.4% 5\$\$13.30 8.2% 1.0395 51.1% 23.7% 12.1% -2.72% 9.4% 5\$\$23.37 11.2% 1.0380 23.3% 9.5% 2.2% 9.4% 5\$\$17.62 4.9% 1.0280 23.3% 9.5% 0.74% 9.2% 5\$\$14.28 3.9% 1.0282 57.3% 11.8% 0.74% 9.2% 5\$\$14.28 3.9% 1.0189 37.1% 10.3% 0.36% 4.0%	IDACORP, Inc. \$2.25 \$1.20 \$30.9	\$2.25 \$1.20 \$30.9	\$1.20 \$30.9	\$30.9	10	\$25.76	3.7%	1.0184	46.7%	7.4%	3.5%	%60.0	3.5%	
\$18.14 $4.1%$ 1.0202 $57.4%$ $10.6%$ $6.1%$ $1.56%$ $7.6%$ $$$50.95$ $6.3%$ 1.0306 $38.1%$ $11.2%$ $4.3%$ $0.72%$ $5.0%$ $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$	NiSource Inc. \$1.50 \$1.00 \$20.25	\$1.50 \$1.00 \$20.25	\$1.00 \$20.25	\$20.25		\$18.32	2.0%	1.0100	33.3%	7.5%	2.5%	0.01%	2.5%	
50.95 6.3% 1.0306 38.1% 11.2% 4.3% 0.72% 50% 510.5 522.09 3.6% 1.0176 45.1% 7.5% 3.4% 0.04% 3.4% 510.5 519.58 4.8% 1.0234 42.2% 9.3% 3.9% 0.16% 411% 511.30 8.2% 1.0395 51.1% 23.7% 12.1% 2.72% 9.4% 5 513.30 8.2% 1.0395 51.1% 23.7% 12.1% 2.72% 9.4% 5 532.37 1.0395 51.1% 23.7% 12.1% 2.72% 9.4% 5 532.33 11.2% 1.0080 23.3% 9.5% 2.2% 9.4% 5 517.62 4.9% 1.0232 57.4% 15.1% 8.7% 0.55% 9.2% 5 514.70 5.8% 1.0232 57.4% 15.1% 8.7% 0.55% 9.2% 5 514.20 9.2% 3.3% 0.74% 4.0% 5 514.28 3.9% 1.0189 37.1% 10.3% 3.8% 0.36%	Northeast Utilities \$2.30 \$0.98 \$22.20	\$2.30 \$0.98 \$22.20	\$0.98 \$22.20	\$22.20	~	\$18.14	4.1%	1.0202	57.4%	10.6%	6.1%	1.56%	7.6%	
\$22.09 $3.6%$ 1.0176 $45.1%$ $7.5%$ $3.4%$ $0.04%$ $3.4%$ $$19.58$ $4.8%$ 1.0234 $42.2%$ $9.3%$ $3.9%$ $0.16%$ $4.1%$ $$13.30$ $8.2%$ 1.0234 $42.2%$ $9.3%$ $3.9%$ $0.16%$ $4.1%$ $$13.30$ $8.2%$ 1.0234 $42.2%$ $23.7%$ $12.1%$ $2.72%$ $9.4%$ $$32.37$ $1.6%$ 1.0080 $23.3%$ $9.5%$ $2.2%$ $0.68%$ $2.9%$ $$25.33$ $11.2%$ 1.0080 $23.3%$ $9.5%$ $2.2%$ $0.68%$ $2.9%$ $$25.33$ $11.2%$ 1.0080 $23.3%$ $9.5%$ $2.7%$ $0.68%$ $2.9%$ $$25.33$ $11.2%$ 1.0232 $57.4%$ $15.1%$ $8.7%$ $0.55%$ $9.2%$ $$17.62$ $4.9%$ 1.0238 $36.0%$ $9.2%$ $3.3%$ $0.74%$ $4.0%$ $$14.28$ $3.9%$ 1.0189 $37.1%$ $10.3%$ $3.8%$ $0.36%$ $4.2%$	PG&E Corp. \$3.10 \$1.92 \$28.45	\$3.10 \$1.92 \$28.45	\$1.92 \$28.45	\$28.45		\$20.95	6.3%	1.0306	38.1%	11.2%	4.3%	0.72%	5.0%	
5 $\$19.58$ 4.8% 1.0234 42.2% 9.3% 3.9% 0.16% 4.1% 5 $\$13.30$ 8.2% 1.0395 51.1% 23.7% 12.1% 2.72% 9.4% 5 $\$32.37$ 1.6% 1.0395 51.1% 23.7% 12.1% 2.72% 9.4% 5 $\$32.33$ 11.2% 1.0080 23.3% 9.5% 2.2% 0.68% 2.9% 5 $\$25.33$ 11.2% 1.0080 23.3% 9.5% 0.55% 2.9% 6 $\$17.62$ 4.9% 1.0232 57.4% 15.1% 8.7% 0.55% 9.2% $\$17.62$ 4.9% 1.0233 36.0% 9.2% 3.3% 0.74% 4.0% $\$24.70$ 5.8% 1.0189 37.1% 10.3% 3.8% 0.36% 4.2% $\$14.28$ 3.9% 1.0189 37.1% 10.3% 4.2%	: PNM Resources \$1.95 \$1.07 \$26.35	\$1.95 \$1.07 \$26.35	\$1.07 \$26.35	\$26.35		\$22.09	3.6%	1.0176	45.1%	7.5%	3.4%	0.04%	3.4%	
5 \$13.30 8.2% 1.0395 51.1% 23.7% 12.1% -2.72% 9.4% 5 \$32.37 1.6% 1.0080 23.3% 9.5% 2.2% 0.68% 2.9% 5 \$25.33 11.2% 1.0532 57.4% 15.1% 8.7% 0.55% 9.2% 5 \$17.62 4.9% 1.0238 36.0% 9.2% 3.3% 0.74% 4.0% 5 \$24.70 5.8% 1.0282 57.3% 11.8% 6.8% 0.00% 6.8% 6 \$14.28 3.9% 1.0189 37.1% 10.3% 3.8% 0.36% 4.2%	Fortland General Elec. \$2.25 \$1.30 \$24.75	\$2.25 \$1.30 \$24.7	\$1.30 \$24.7	\$24.75	10	\$19.58	4.8%	1.0234	42.2%	9.3%	3.9%	0.16%	4.1%	
5 \$32.37 1.6% 1.0080 23.3% 9.5% 2.2% 0.68% 2.9% 5 \$25.33 11.2% 1.0532 57.4% 15.1% 8.7% 0.55% 9.2% 5 \$17.62 4.9% 1.0238 36.0% 9.2% 3.3% 0.74% 4.0% 5 \$24.70 5.8% 1.0282 57.3% 11.8% 6.8% 0.00% 6.8% 5 \$14.28 3.9% 1.0189 37.1% 10.3% 3.8% 0.36% 4.2%	PPL Corp. \$4.50 \$2.20 \$19.7	\$4.50 \$2.20 \$19.7	\$2.20 \$19.7	\$19.7	ស	\$13.30	8.2%	1.0395	51.1%	23.7%	12.1%	-2.72%	9.4%	
5 \$25.33 11.2% 1.0532 57.4% 15.1% 8.7% 0.55% 9.2% 5 \$17.62 4.9% 1.0238 36.0% 9.2% 3.3% 0.74% 4.0% 5 \$24.70 5.8% 1.0282 57.3% 11.8% 6.8% 0.00% 6.8% 5 \$14.28 3.9% 1.0189 37.1% 10.3% 3.8% 0.36% 4.2%	i Progress Energy \$3.30 \$2.53 \$35.0	\$3.30 \$2.53 \$35.0	\$2.53 \$35.0	\$35.0	ß	\$32.37	1.6%	1.0080	23.3%	9.5%	2.2%	0.68%	2.9%	
5 \$17.62 4.9% 1.0238 36.0% 9.2% 3.3% 0.74% 4.0% 5 \$24.70 5.8% 1.0282 57.3% 11.8% 6.8% 6.8% 5 \$14.28 3.9% 1.0189 37.1% 10.3% 3.8% 0.36% 4.2%	5 P S Enterprise Group \$6.20 \$2.64 \$43.1	\$6.20 \$2.64 \$43.1	\$2.64 \$43.1	\$43.1	ъ	\$25.33	11.2%	1,0532	57.4%	15.1%	8.7%	0.55%	9.2%	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7 Westar Energy \$2.00 \$1.28 \$22.3	\$2.00 \$1.28 \$22.3	\$1.28 \$22.3	\$22.3	ß	\$17.62	4.9%	1:0238	36.0%	9.2%	3.3%	0.74%	4.0%	
5 \$14.28 3.9% 1.0189 37.1% 10.3% 3.8% 0.36% 4.2%	3 Wisconsin Energy \$3.75 \$1.60 \$32.7	\$3.75 \$1.60 \$32.7	\$1.60 \$32.3	\$32.7	35	\$24.70	5.8%	1.0282	57.3%	11.8%	6.8%	%00.0	6.8%	
	Xcel Energy, Inc. \$1.75 \$1.10 \$17.2	\$1.75 \$1.10 \$17.2	\$1.10 \$17.2	\$17.2	ß	\$14.28	3.9%	1.0189	37.1%	10.3%	3.8%	0.36%	4.2%	

(a) The Value Line Investment Survey (Nov. 30 & Dec. 28, 2007, Feb. 8, 2008).
(b) Annual growth in book value per share from historical to projected period.
(c) Equal to 2(1+b)/(2+b), where b = annual change in net book value.
(d) (EPS-DPS)/EPS.
(e) (Projected EPS/Projected Net Book Value) x Mid-Year Adjustment Factor.

(f) (d) x (e).
(g) "s" equals projected market-to-book ratio x growth in common shares. "v" equals (1- 1/projected market-to-book ratio)
(h) (f) + (g).

Exhibit No. 3 Case Nos AVU-E-08-01 AVU-G-08-01 W. Avera, Avista Schedule WEA-5, p. 1of 1

CONSTANT GROWTH DCF MODEL

NON-UTILITY PROXY GROUP

Schedule WEA-6 Page 1 of 3

		(a)	(q)	(a)	(c)	(q)	(e)	(I)	(t)	(f)	(ł)	(f)
					Growth Rate	50			Cost of	Equity Esti	mates	
		Dividend		٨٢					٨L			
~ •	Company	<u>Yield</u>	IBES	EPS	<u>Reuters</u>	<u>Zacks</u>	<u>br+sv</u>	IBES	EPS	<u>Reuters</u>	<u>Zacks</u>	<u>br+sv</u>
-	3M Company	2.41%	11.3%	5.0%	11.1%	10.7%	12.7%	13.7%	7.4%	13.5%	13.1%	15.1%
2	Abbott Labs.	2.31%	11.9%	10.0%	10.4%	9.7%	14.4%	14.2%	12.3%	12.7%	12.0%	16.7%
ŝ	Aflac Inc.	1.57%	14.6%	14.0%	13.8%	14.0%	13.1%	16.2%	15.6%	15.4%	15.6%	14.6%
4	Anheuser-Busch	2.84%	8.2%	7.5%	8.5%	8.7%	25.3%	11.0%	10.3%	11.3%	11.5%	28.2%
ы. Г	Automatic Data Proc.	2.88%	14.2%	10.5%	13.3%	13.0%	12.8%	17.1%	13.4%	16.2%	15.9%	15.7%
9	Bank of America	5.80%	9.3%	7.0%	7.6%	8.4%	7.8%	15.1%	12.8%	13.4%	14.2%	13.6%
~	Bard (C.R.)	0.62%	14.3%	14.0%	14.5%	14.1%	11.6%	14.9%	14.6%	15.1%	14.7%	12.3%
80	Becton, Dickinson	1.32%	13.2%	12.0%	12.8%	13.1%	13.4%	14.5%	13.3%	14.1%	14.4%	14.7%
6	Chevron Corp.	2.79%	8.7%	5.0%	6.5%	3.5%	6.9%	11.5%	7.8%	9.3%	6.3%	9.7%
10	Coca-Cola	2.31%	10.1%	%0.6	10.1%	%0.6	11.9%	12.4%	11.3%	12.4%	11.3%	14.2%
11	Colgate-Palmolive	1.88%	10.9%	12.0%	10.9%	10.9%	21.0%	12.8%	13.9%	12.8%	12.8%	22.9%
12	Commerce Bancshs.	2.25%	6.3%	4.5%	6.3%	6.5%	8.2%	8.6%	6.8%	8.5%	8.8%	10.5%
13	ConocoPhillips	2.05%	10.9%	2.5%	6.2%	5.8%	8.9%	13.0%	4.6%	8.3%	7.9%	11.0%
14	Ecolab Inc.	1.08%	14.0%	13.0%	14.3%	14.3%	17.0%	15.1%	14.1%	15.4%	15.4%	18.1%
15	Exxon Mobil Corp.	1.62%	8.3%	7.0%	6.7%	5.0%	12.3%	9.6%	8.6%	8.3%	6.6%	13.9%
16	Fortune Brands	2.40%	9.4%	6.0%	9.0%	10.2%	10.5%	11.8%	8.4%	11.4%	12.6%	12.9%
17	Gannett Co.	4.33%	2.5%	4.0%	3.3%	3.6%	7.8%	6.8%	8.3%	7.7%	7.9%	12.1%
18	Gen'l Mills	2.86%	8.6%	8.5%	8.7%	8.6%	7.1%	11.5%	11.4%	11.5%	11.5%	6.6%
18	Genuine Parts	3.32%	8.9%	%0 .6	8.9%	8.6%	9.3%	12.2%	12.3%	12.3%	11.9%	12.7%
18	Heinz (H.J.)	3.57%	7.9%	8.0%	7.9%	8.2%	11.7%	11.5%	11.6%	11.5%	11.8%	15.3%
18	Hormel Foods	1.91%	8.9%	11.5%	%0 .6	8.7%	11.2%	10.8%	13.4%	10.9%	10.6%	13.1%
18	Johnson & Johnson	2.63%	7.6%	8.0%	9.4%	9.8%	10.3%	10.2%	10.6%	12.1%	12.4%	12.9%
18	Kimberly-Clark	3.23%	7.4%	6.5%	7.5%	8.0%	7.5%	10.6%	9.7%	10.7%	11.2%	10.8%
18	Kraft Foods	3.69%	7.1%	5.5%	7.3%	6.9%	3.8%	10.8%	9.2%	11.0%	10.6%	7.4%
18	Lilly (Eli)	3.66%	8.0%	7.0%	%9 .6	8.8%	10.8%	11.7%	10.7%	13.3%	12.5%	14.5%
18	Medtronic, Inc.	1.08%	13.5%	12.0%	14.2%	13.8%	12.2%	14.6%	13.1%	15.3%	14.9%	13.3%
18	Meredith Corp.	1.58%	11.8%	11.5%	12.3%	12.7%	9.7%	13.4%	13.1%	13.9%	14.3%	11.3%
											Ú	khibit No. 3
			,			•			Cas	e Nos AVU-	-E-08-01 AV	U-G-08-01
										Sct	W. Av nedule WEA	era, Avista -6. p. 1of 3

Schedule WEA-6 Page 2 of 3

CONSTANT GROWTH DCF MODEL

NON-UTILITY PROXY GROUP	

	(a)	(q)	(a)	(c)	(p)	(e)	(ŧ)	(ŧ)	(ł)	(ł)	(I)
			Ŭ	Growth Rate	S			Cost of	Equity Esti	mates	
	Dividend		٨ſ					٨ſ			
Company	<u>Yield</u>	IBES	EPS	<u>Reuters</u>	<u>Zacks</u>	br+sv	IBES	EPS	<u>Reuters</u>	<u>Zacks</u>	<u>br+sv</u>
21 NIKE, Inc. 'B'	1.50%	13.4%	13.0%	10.2%	13.9%	8.5%	14.9%	14.5%	11.7%	15.4%	10.0%
22 Northrop Grumman	1.87%	14.0%	13.0%	10.2%	9.6%	7.5%	15.9%	14.9%	12.1%	11.5%	9.3%
23 PepsiCo, Inc.	2.20%	10.9%	10.5%	10.8%	11.0%	9.4%	13.1%	12.7%	13.0%	13.2%	11.6%
24 Pfizer, Inc.	5.48%	5.1%	2.0%	7.8%	5.8%	0.9%	10.6%	7.5%	13.3%	11.3%	6.4%
25 Procter & Gamble	2.14%	13.3%	11.5%	12.8%	11.6%	6.0%	15.4%	13.6%	15.0%	13.7%	8.1%

Exhibit No. 3 Case Nos AVU-E-08-01 AVU-G-08-01 W. Avera, Avista Schedule WEA-6, p. 2of 3

Page 3 of 3 Schedule WEA-6

CONSTANT GROWTH DCF MODEL

Ы
ā
\simeq
U
5
3
\mathbf{z}
\geq
H
5
Z
O
H.
4

		(a)	(q)	(a)	(c)	(q)	(e)	(f)	(J)	(f)	(f)	Ð
				Ŭ	Growth Rate	ъ			Cost o	f Equity Esti	mates	
		Dividend		٨٢					٨L			
	Company	Yield	IBES	EPS	Reuters	<u>Zacks</u>	br+sv	IBES	EPS	<u>Reuters</u>	<u>Zacks</u>	<u>br+sv</u>
26	Regions Financial	6.04%	6.8%	6.5%	6.7%	6.7%	4.9%	12.8%	12.5%	12.7%	12.7%	11.0%
77	Reinsurance Group	0.62%	10.3%	11.5%	10.0%	11.5%	11.3%	10.9%	12.1%	10.6%	12.1%	11.9%
i č	Sioma-Aldrich	0.93%	9.8%	11.5%	10.3%	10.5%	18.5%	10.7%	12.4%	11.2%	11.4%	19.4%
s s	Svenn Corn	3.03%	13.1%	13.0%	13.1%	12.6%	10.1%	16.1%	16.0%	16.1%	15.6%	13.2%
) e	United Parcel Serv.	2.30%	13.1%	8.0%	12.8%	12.7%	12.9%	15.4%	10.3%	15.1%	15.0%	15.2%
3 5	Wal-Mart Stores	1.73%	12.0%	10.0%	12.3%	11.8%	8.8%	13.7%	11.7%	14.0%	13.5%	10.5%
3 6	Waloreen Co.	1.08%	13.4%	13.0%	13.4%	13.7%	13.1%	14.5%	14.1%	14.5%	14.8%	14.2%
5 8	Washington Federal	3.44%	7.7%	9.5%	7.3%	6.5%	9.0%	11.1%	12.9%	10.7%	6.6%	12.5%
8 %	Wells Fargo	3.64%	10.6%	9.5%	10.1%	10.9%	10.7%	14.2%	13.1%	13.8%	14.5%	14.3%
35	Wrigley (Wm.) Jr.	2.02%	10.7%	9.5%	10.4%	10.1%	10.9%	12.7%	11.5%	12.4%	<u>12.1%</u>	<u>12.9%</u>
	Average (g)							12.9%	12.2%	12.5%	12.7%	13.0%

(a) www.valueline.com (retrieved Feb. 6, 2008).
(b) <u>Thompson Financial</u>. *Company in Context* (Feb. 5, 2008).
(c) http://stocks.us.reuters.com (retrieved Feb. 5, 2008).
(d) http://www.zacks.com/research (retrieved Feb. 4, 2008).
(e) See Schedule WEA-7.
(f) Sum of dividend yield and respective growth rate.
(g) Excludes highlighted figures.

Exhibit No. 3 Case Nos AVU-E-08-01 AVU-G-08-01 W. Avera, Avista Schedule WEA-6, p. 3of 3

SUSTAINABLE GROWTH RATE

NON-UTILITY PROXY GROUP

Schedule WEA-7 Page 1 of 2

		(a)	(a)	(a)	(a)	(q)	(c)	(q)	(e)	(ł)	(g)	(ł)
			Projectio	SU	Historical		Mid-Year					
				Net Book	Net Book	Annual	Adjustment	7	Adjusted	"b x r"	"sv"	Sustainable
	Company	EPS	DPS	Value	Value	Change	Factor	"q"	"T"	growth	Factor .	Growth
,1	3M Company	\$5.80	\$2.28	\$22.65	\$13.56	10.8%	1.0513	60.7%	26.9%	16.3%	-3.68%	12.7%
2	Abbott Labs.	\$4.35	\$1.60	\$18.05	\$9.14	14.6%	1.0679	63.2%	25.7%	16.3%	-1.88%	14.4%
ю	Aflac Inc.	\$5.60	\$1.52	\$26.90	\$16.93	9.7%	1.0463	72.9%	21.8%	15.9%	-2.79%	13.1%
4	Anheuser-Busch	\$3.95	\$1.46	\$6.90	\$5.11	6.2%	1.0300	63.0%	59.0%	37.2%	-11.84%	25.3%
ъ	Automatic Data Proc.	\$3.00	\$1.25	\$17.20	\$9.61	15.7%	1.0726	58.3%	18.7%	10.9%	1.92%	12.8%
9	Bank of America	\$6.10	\$3.00	\$40.80	\$29.70	6.6%	1.0317	50.8%	15.4%	7.8%	-0.03%	7.8%
5	Bard (C.R.)	\$6.35	\$0.86	\$32.85	\$16.46	14.8%	1.0690	86.5%	20.7%	17.9%	-6.22%	11.6%
8	Becton, Dickinson	\$5.75	\$1.60	\$30.15	\$15.63	14.0%	1.0656	72.2%	20.3%	14.7%	-1.27%	13.4%
6	Chevron Corp.	\$9.15	\$2.50	\$47.55	\$28.22	11.0%	1.0521	72.7%	20.2%	14.7%	-7.78%	6.9%
10	Coca-Cola	\$3.65	\$1.84	\$15.00	\$7.30	15.5%	1.0719	49.6%	26.1%	12.9%	-1.01%	11.9%
11	Colgate-Palmolive	\$5.25	\$2.16	\$10.40	\$2.32	35.0%	1.1489	58.9%	58.0%	34.1%	-13.15%	21.0%
12	Commerce Bancshs.	\$3.70	\$1.15	\$30.00	\$19.61	8.9%	1.0425	68.9%	12.9%	8.9%	-0.66%	8.2%
13	ConocoPhillips	\$9.60	\$1.75	\$94.65	\$50.21	13.5%	1.0633	81.8%	10.8%	8.8%	0.11%	8.9%
14	Ecolab Inc.	\$2.65	\$0.65	\$11.00	\$6.69	10.5%	1.0497	75.5%	25.3%	19.1%	-2.04%	17.0%
15	Exxon Mobil Corp.	\$8.00	\$1.75	\$35.50	\$19.87	12.3%	1.0580	78.1%	23.8%	18.6%	-6.32%	12.3%
16	Fortune Brands	\$7.15	\$1.76	\$54.05	\$31.08	11.7%	1.0553	75.4%	14.0%	10.5%	0.01%	10.5%
17	Gannett Co.	\$6.15	\$1.96	\$53.80	\$35.71	8.5%	1.0410	68.1%	.11.9%	8.1%	-0.35%	7.8%
18	Gen'l Mills	\$4.40	\$2.00	\$18.95	\$15.64	4.9%	1.0240	54.5%	23.8%	13.0%	-5.90%	7.1%
18	Genuine Parts	\$4.25	\$1.90	\$23.55	\$14.95	9.5%	1.0454	55.3%	18.9%	10.4%	-1.09%	9.3%
18	Heinz (H.J.)	\$3.70	\$1.90	\$10.30	\$5.72	12.5%	1.0587	48.6%	38.0%	18.5%	-6.79%	11.7%
18	Hormel Foods	\$3.50	\$1.00	\$21.80	\$13.89	11.9%	1.0563	71.4%	17.0%	12.1%	-0.93%	11.2%
18	Johnson & Johnson	\$5.50	\$2.04	\$25.95	\$13.59	13.8%	1.0646	62.9%	22.6%	14.2%	-3.92%	10.3%
18	Kimberly-Clark	\$5.50	\$2.76	\$19.00	\$13.38	7.3%	1.0351	49.8%	30.0%	14.9%	-7.40%	7.5%
18	Kraft Foods	\$2.60	\$1.20	\$24.65	\$17.45	7.2%	1.0345	53.8%	10.9%	5.9%	-2.12%	3.8%
18	Lilly (Eli)	\$4.40	\$2.12	\$18.35	\$9.70	13.6%	1.0637	51.8%	25.5%	13.2%	-2.41%	10.8%
18	Medtronic, Inc.	\$4.30	\$0.83	\$18.45	\$9.60	14.0%	1.0652	80.7%	24.8%	20.0%	-7.79%	12.2%
18	Meredith Corp.	\$4.80	\$0.90	\$29.45	\$17.28	14.3%	1.0665	81.3%	17.4%	14.1%	-4.41%	9.7%
21	NIKE, Inc. 'B'	\$4.70	\$1.50	\$23.30	\$13.94	13.7%	1.0641	68.1%	21.5%	14.6%	-6.10%	8.5%
										:		Exhibit No. 3
										Case No:	s AVU-E-08-	-01 AVU-G-08-01
												W. Avera, Avista
											Schedule	e WEA-7, p. 1of 2

Page 2 of 2 Schedule WEA-7

SUSTAINABLE GROWTH RATE

NON-UTILITY PROXY GROUP

		(a)	(a)	(a)	(a)	(q)	(c)	(q)	(e)	(I)	(g)	(µ)
			Projectio	SU	Historical		Mid-Year					
				Net Book	Net Book	Annual	Adjustment		Adjusted	"b x r"	"sv"	Sustainable
	Company	EPS	DPS	Value	Value	Change	Factor	"q"	"T"	growth	Factor	Growth
22	Northrop Grumman	\$7.65	\$2.00	\$68.75	\$48.03	7.4%	1.0358	73.9%	11.5%	8.5%	-1.04%	7.5%
23	PepsiCo, Inc.	\$4.85	\$1.96	\$13.15	\$9.36	7.0%	1.0340	59.6%	38.1%	22.7%	-13.33%	9.4%
24	Pfizer, Inc.	\$2.30	\$1.36	\$12.25	\$9.98	4.2%	1.0205	40.9%	19.2%	7.8%	-6.96%	0.9%
25	Procter & Gamble	\$4.75	\$1.90	\$32.30	\$20.87	11.5%	1.0545	60.0%	15.5%	9.3%	-3.34%	6.0%
26	Regions Financial	\$3.50	\$1.60	\$34.45	\$28.36	4.0%	1.0195	54.3%	10.4%	5.6%	-0.70%	4.9%
27	Reinsurance Group	\$7.60	\$0.50	\$65.65	\$45.85	7.4%	1.0359	93.4%	12.0%	11.2%	0.05%	11.3%
28	Sigma-Aldrich	\$3.60	\$0.62	\$16.15	\$10.56	8.9%	1.0425	82.8%	23.2%	19.2%	-0.76%	18.5%
29	Svsco Corp.	\$2.70	\$1.25	\$7.80	\$5.36	9.8%	1.0469	53.7%	36.2%	19.5%	-9.32%	10.1%
30	United Parcel Serv.	\$5.40	\$2.10	\$22.45	\$14.47	9.2%	1.0439	61.1%	25.1%	15.3%	-2.40%	12.9%
31	Wal-Mart Stores	\$4.65	\$1.20	\$22.30	\$14.91	8.4%	1.0402	74.2%	21.7%	16.1%	-7.34%	8.8%
32	Walereen Co.	\$3.15	\$0.56	\$19.50	\$11.20	14.9%	1.0692	82.2%	17.3%	14.2%	-1.11%	13.1%
33	Washington Federal	\$2.75	\$1.00	\$19.40	\$15.07	6.5%	1.0316	63.6%	14.6%	9.3%	-0.29%	%0 .6
34	Wells Fargo	\$3.90	\$1.44	\$22.90	\$13.58	11.0%	1.0522	63.1%	17.9%	11.3%	-0.65%	10.7%
35	Wrigley (Wm.) Jr.	\$3.25	\$1.38	\$15.05	\$8.65	11.7%	1.0553	57.5%	22.8%	13.1%	-2.23%	10.9%

(a) www.valueline.com (retrieved Feb. 6, 2008).
(b) Annual growth in book value per share from historical to projected period.
(c) Equal to 2(1+b)/(2+b), where b = annual change in net book value.
(d) (EPS-DPS)/EPS.
(e) (Projected EPS/Projected Net Book Value) x Mid-Year Adjustment Factor.
(f) (d) x (e).
(g) "s" equals projected market-to-book ratio x growth in common shares. "v" equals (1- 1/projected market-to-book ratio).

Exhibit No. 3 W. Avera, Avista Schedule WEA-7, p. 2of 2 Case Nos AVU-E-08-01 AVU-G-08-01

FORWARD-LOOKING CAPM

UTILITY PROXY GROUP

Long-term Treasury Bond Yield		4.4%
Proxy Group Risk Premium (g)		7.8%
Proxy Group Beta (f)		0.89
<u>Market Risk Premium (e)</u>		8.8%
Long-term Treasury Bond Yield		4.4%
Less: Risk-Free Rate (d)		
Market Return (c)		13.2%
Growth Rate (b)	11.0%	
Dividend Yield (a)	2.2%	
<u>Market Rate of Return</u>		

(a) Weighted average dividend yield for the dividend paying firms in the S&P 500 from www.valueline.com (Retreived Dec. 11, 2007).

(b) Weighted average of IBES and Value Line growth rates for the dividend paying firms in the S&P 500 based on data from Standard & Poor's <u>Earnings Guide</u> (Nov. 2007) and www.valueline.com (Retreived Dec. 11, 2007).

(c) (a) + (b)

(d)

Average yield on 20-year Treasury bonds for January 2008 from the Federal Reserve Board at http://www.federalreserve.gov/releases/h15/data/Monthly/H15_TCMNOM_Y20.txt.

- (e) (c) (d).
- (f) The Value Line Investment Survey (Nov. 30 & Dec. 28, 2007, Feb. 8, 2008).

(g) (e)
$$x$$
 (f).

(h) (d) + (g).

Exhibit No. 3 Case Nos AVU-E-08-01 AVU-G-08-01 W. Avera, Avista Schedule WEA-8, p. 1 of 1

FORWARD-LOOKING CAPM

NON-UTILITY PROXY GROUP

Market Rate of Return		
Dividend Yield (a)	2.2%	
Growth Rate (b)	11.0%	
Market Return (c)		13.2%
Less: Risk-Free Rate (d)		
Long-term Treasury Bond Yield		4.4%
Market Risk Premium (e)		8.8%
Proxy Group Beta (f)		0.80
Proxy Group Risk Premium (g)		7.0%
<u>Plus: Risk-free Rate (d)</u>		
Long-term Treasury Bond Yield		4.4%

Implied Cost of Equity (h)

- (a) Weighted average dividend yield for the dividend paying firms in the S&P 500 from www.valueline.com (Retreived Dec. 11, 2007).
- (b) Weighted average of IBES and Value Line growth rates for the dividend paying firms in the S&P 500 based on data from Standard & Poor's <u>Earnings Guide</u> (Nov. 2007) and www.valueline.com (Retreived Dec. 11, 2007).
- (c) (a) + (b)
- (d)

Average yield on 20-year Treasury bonds for January 2008 from the Federal Reserve Board at http://www.federalreserve.gov/releases/h15/data/Monthly/H15_TCMNOM_Y20.txt.

- (e) (c) (d).
- (f) www.valueline.com (retrieved Feb. 6, 2008).
- (g) (e) x (f).

(h) (d) + (g).

Exhibit No. 3 Case Nos AVU-E-08-01 AVU-G-08-01 W. Avera, Avista Schedule WEA-9, p. 1 of 1

11.4%

HISTORICAL CAPM

UTILITY PROXY GROUP

<u>Market Risk Premium</u>	
Long-Horizon Equity Risk Premium (a)	7.1%
Proxy Group Beta (b)	0.89
Proxy Group Risk Premium (c)	6.3%
<u>Plus: Risk-free Rate (d)</u> Long-term Treasury Bond Yield	4.4%
Implied Cost of Equity (e)	10.7%

- (a) Arithmetic mean risk premium on Large Company Stocks from 1926-2006 reported by Ibbotson Associates, *Stocks, Bonds, Bills, and Inflation, Valuation Edition, 2007 Yearbook*, at Appendix C, Table C-1, p. 262.
- (b) The Value Line Investment Survey (Nov. 30 & Dec. 28, 2007, Feb. 8, 2008).
- (c) (a) x (b).
- (d)

Average yield on 20-year Treasury bonds for January 2008 from the Federal Reserve Board at http://www.federalreserve.gov/releases/h15/data/Monthly/H15_TCMNOM_Y20.txt.

(e) (c) + (d).

Exhibit No. 3 Case Nos AVU-E-08-01 AVU-G-08-01 W. Avera, Avista Schedule WEA-10, p. 1of 1

HISTORICAL CAPM

NON-UTILITY PROXY GROUP

Market Risk Premium	
Long-Horizon Equity Risk Premium (a)	7.1%
Proxy Group Beta (b)	0.80
Proxy Group Risk Premium (c)	5.6%
<u>Plus: Risk-free Rate (d)</u> Long-term Treasury Bond Yield	4.4%
Implied Cost of Equity (e)	10.0%

- (a) Arithmetic mean risk premium on Large Company Stocks from 1926-2006 reported by Ibbotson Associates, Stocks, Bonds, Bills, and Inflation, Valuation Edition, 2007 Yearbook, at Appendix C, Table C-1, p. 262.
- (b) www.valueline.com (retrieved Feb. 6, 2008).
- (c) (a) x (b).
- (d)

Average yield on 20-year Treasury bonds for January 2008 from the Federal Reserve Board at http://www.federalreserve.gov/releases/h15/data/Monthly/H15_TCMNOM_Y20.txt.

(e) (c) + (d).

Exhibit No. 3 Case Nos AVU-E-08-01 AVU-G-08-01 W. Avera, Avista Schedule WEA-11, p. 1of 1

Exhibit No. 3 Case Nos AVU-E-08-01 AVU-G-08-01 W. Avera, Avista Schedule WEA-12, p. 1of 1

(a) 3-5 year projections from The Value Line Investment Survey (Nov. 30 & Dec. 28, 2007, Feb. 8, 2008). (b) Adjustment to convert year-end "r" to an average rate of return from Schedule WEA-5.

		(a)	(q)	(c)
		Expected Return	Adjustment	Adjusted Return
	Company	<u>on Common Equity</u>	Factor	<u>on Common Equity</u>
1	American Elec Pwr	12.5%	1.0299	12.9%
7	Avista Corp.	8.5%	1.0173	8.6%
С	Black Hills Corp.	9.5%	1.0261	9.7%
4	Cleco Corp.	10.5%	1.0248	10.8%
S	DTE Energy Co.	9.0%	1.0140	9.1%
9	Edison International	10.5%	1.0371	10.9%
7	Hawaiian Elec.	11.0%	1.0023	11.0%
8	IDACORP, Inc.	7.0%	1.0184	7.1%
6	NiSource Inc.	7.5%	1.0100	7.6%
10	Northeast Utilities	10.5%	1.0202	10.7%
11	PG&E Corp.	11.0%	1.0306	11.3%
12	PNM Resources	7.0%	1.0176	7.1%
13	Portland General Elec.	8.5%	1.0234	8.7%
14	PPL Corp.	23.5%	1.0395	24.4%
15	Progress Energy	9.5%	1.0080	9.6%
16	P S Enterprise Group	14.5%	1.0532	15.3%
17	Westar Energy	9.0%	1.0238	9.2%
18	Wisconsin Energy	11.5%	1.0282	11.8%
19	Xcel Energy, Inc.	10.0%	1.0189	10.2%
	Average (d)			10.5%

Schedule WEA-12 Page 1 of 1

UTILITY PROXY GROUP

EXPECTED EARNINGS APPROACH

(c) (a) x (b).(d) Excludes highlighted figures.