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BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION) CASE NO. AVU-E-17-01
OF AVISTA CORPORATION FOR THE) CASE NO. AVU-G-17-01
AUTHORITY TO INCREASE ITS RATES)
AND CHARGES FOR ELECTRIC AND) DIRECT TESTIMONY
NATURAL GAS SERVICE TO ELECTRIC) OF
AND NATURAL GAS CUSTOMERS IN THE) ADRIEN M. MCKENZIE
STATE OF IDAHO)
_____)

FOR AVISTA CORPORATION

(ELECTRIC AND NATURAL GAS)

DIRECT TESTIMONY OF ADRIEN M. MCKENZIE

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1 **I. INTRODUCTION**

2 **Q. Please state your name and business address.**

3 A. Adrien M. McKenzie, 3907 Red River, Austin, Texas,
4 78751.

5 **Q. In what capacity are you employed?**

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

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

11 A. A description of my background and qualifications,
12 including a resume containing the details of my experience,
13 is attached as Exhibit No. 3, Schedule 1.

14 **A. Overview**

15 **Q. What is the purpose of your testimony in this case?**

16 A. The purpose of my testimony is to present to the
17 Idaho Public Utilities Commission (the "Commission" or
18 "IPUC") my independent evaluation of the fair rate of return
19 on equity ("ROE") for the jurisdictional electric and natural
20 gas utility operations of Avista Corp. ("Avista" or "the
21 Company"). In addition, I also examined the reasonableness

1 of Avista's capital structure, considering both the specific
2 risks faced by the Company and other industry guidelines.

3 **Q. Please summarize the information and materials you**
4 **relied on to support the opinions and conclusions contained**
5 **in your testimony.**

6 A. To prepare my testimony, I used information from a
7 variety of sources that would normally be relied upon by a
8 person in my capacity. I am familiar with the organization,
9 finances, and operations of Avista from my participation in
10 prior proceedings before the IPUC, the Washington Utilities
11 and Transportation Commission ("WUTC") and the Oregon Public
12 Utility Commission. In connection with the present filing, I
13 considered and relied upon corporate disclosures, publicly
14 available financial reports and filings, and other published
15 information relating to Avista. I have also visited the
16 Company's main offices and had discussions with management in
17 order to better familiarize myself with Avista's utility
18 operations. My evaluation also relied upon information
19 relating to current capital market conditions and
20 specifically to current investor perceptions, requirements,
21 and expectations for electric and natural gas utilities.
22 These sources, coupled with my experience in the fields of
23 finance and utility regulation, have given me a working
24 knowledge of the issues relevant to investors' required

1 return for Avista, and they form the basis of my analyses and
2 conclusions.

3 **Q. How is your testimony organized?**

4 A. After first summarizing my conclusions and
5 recommendations, my testimony reviews the operations and
6 finances of Avista and industry-specific risks and capital
7 market uncertainties perceived by investors. With this as a
8 background, I present the application of well-accepted
9 quantitative analyses to estimate the current cost of equity
10 for a reference group of comparable-risk utilities. These
11 included the discounted cash flow ("DCF") model, the Capital
12 Asset Pricing Model ("CAPM"), the empirical form of Capital
13 Asset Pricing Model ("ECAPM"), an equity risk premium
14 approach based on allowed ROEs for electric utilities, and
15 reference to expected rates of return for electric utilities,
16 which are all methods that are commonly relied on in
17 regulatory proceedings. Based on the cost of equity
18 estimates indicated by my analyses, the Company's ROE was
19 evaluated taking into account the specific risks and
20 potential challenges for Avista's electric and natural gas
21 utility operations in Idaho, as well as flotation costs,
22 which are properly considered in setting a fair ROE for the
23 Company.

1 In addition, I corroborated my utility quantitative
2 analyses by applying the DCF model to a group of low risk
3 non-utility firms. Finally, my testimony addresses the
4 impact of regulatory mechanisms on an evaluation of a fair
5 ROE for Avista.

6 **Q. What is the role of the ROE in setting a utility's**
7 **rates?**

8 A. The ROE is the cost of attracting and retaining
9 common equity investment in the utility's physical plant and
10 assets. This investment is necessary to finance the asset
11 base needed to provide utility service. Investors commit
12 capital only if they expect to earn a return on their
13 investment commensurate with returns available from
14 alternative investments with comparable risks. Moreover, a
15 fair and reasonable ROE is integral in meeting sound
16 regulatory economics and the standards set forth by the U.S.
17 Supreme Court in the *Bluefield*¹ and *Hope*² cases, which state
18 that a utility's allowed ROE should be sufficient to: 1)
19 fairly compensate the utility's investors, 2) enable the
20 utility to offer a return adequate to attract new capital on
21 reasonable terms, and 3) maintain the utility's financial

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

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

1 integrity. These standards should allow the utility to
2 fulfill its obligation to provide reliable service while
3 meeting the needs of customers through necessary system
4 replacement and expansion, but they can only be met if the
5 utility has a reasonable opportunity to actually earn its
6 allowed ROE.

7 **B. Summary of Conclusions**

8 **Q. Please summarize the results of your analyses.**

9 A. The results of my analyses are presented on page 1
10 of Exhibit No. 3, Schedule 3, and in Table 1, below:

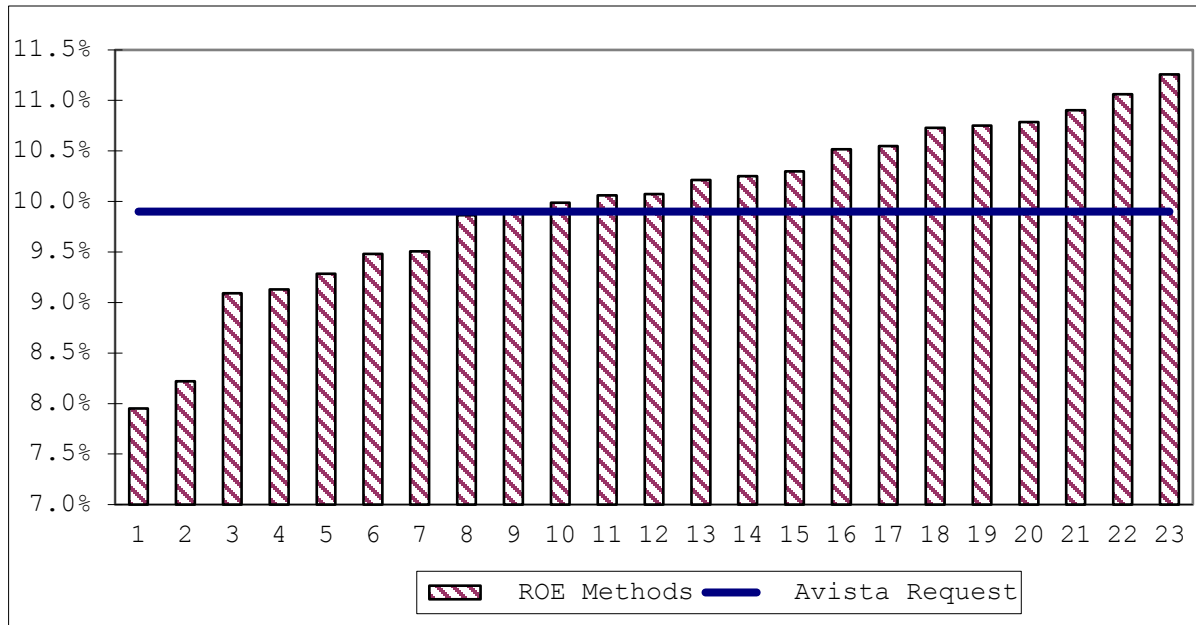
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TABLE 1
SUMMARY OF RESULTS

<u>DCF</u>	<u>Average</u>	<u>Midpoint</u>
Value Line	9.1% ⁵	9.3% ¹²
IBES	10.0% ⁶	11.3% ¹⁵
Zacks	9.5% ⁴	10.1% ⁸
S&P Capital/IQ	9.4% ³	9.4% ⁷
Internal br + sv	8.0% ¹	8.2% ²
<u>CAPM</u>		
Historical Bond Yield	9.9% ⁹	9.9% ¹⁰
Projected Bond Yields	10.2% ¹³	10.3% ¹⁴
<u>Empirical CAPM</u>		
Historical Bond Yield	10.5% ¹⁸	10.6% ¹⁷
Projected Bond Yields	10.7% ²⁰	10.8% ²¹
<u>Utility Risk Premium</u>		
Current Bond Yields	10.1% ¹¹	
Projected Bond Yields	10.9% ²²	
<u>Expected Earnings</u>		
Industry	10.7% ¹⁹	
Proxy Group	<u>10.3% ¹⁶</u>	<u>11.1% ²³</u>
<u>Cost of Equity Recommendation</u>		
Cost of Equity Range	9.5%	-- 10.7%
<u>Flotation Cost Adjustment</u>		
	<u>0.10%</u>	
<u>ROE Recommendation</u>		
	9.6%	-- 10.8%

1 Figure 1, below, presents the 23 cost of equity
2 estimates presented in Table 1 in rank order, and compares
3 them with Avista's 9.9 percent ROE request:

4 **FIGURE 1**
5 **RESULTS OF ANALYSES VS. AVISTA REQUEST**



6 **Q. What are your findings regarding the 9.9 percent**
7 **ROE requested by Avista?**

8 A. Based on the results of my analyses and the
9 economic requirements necessary to support continuous access
10 to capital under reasonable terms, I determined that 9.9
11 percent is a conservative estimate of investors' required ROE
12 for Avista. The bases for my conclusion are summarized
13 below:

- 14 • In order to reflect the risks and prospects associated
15 with Avista's jurisdictional utility operations, my

1 analyses focused on a proxy group of 18 other
2 utilities with comparable investment risks.

- 3 • Because investors' required return on equity is
4 unobservable and no single method should be viewed in
5 isolation, I applied the DCF, CAPM, ECAPM, and risk
6 premium methods to estimate a fair ROE for Avista; as
7 well as referencing the expected earnings approach.
- 8 • Based on the results of these analyses, and giving
9 less weight to extremes at the high and low ends of
10 the range, I concluded that the cost of equity for the
11 proxy group of utilities is in the **9.5 percent to 10.7**
12 **percent** range, or **9.6 percent to 10.8 percent** after
13 incorporating an adjustment to account for the impact
14 of common equity flotation costs.
- 15 • As reflected in the testimony of Mr. Thies, Avista is
16 requesting an ROE of **9.9 percent**, which falls below
17 the **10.2 percent** midpoint of my recommended range.
18 Considering capital market expectations, the exposures
19 faced by Avista, and the economic requirements
20 necessary to maintain financial integrity and support
21 additional capital investment even under adverse
22 circumstances, it is my opinion that 9.9 percent
23 represents a conservative ROE for Avista.

24 **Q. What other evidence did you consider in evaluating**
25 **your ROE recommendation in this case?**

26 A. My recommendation is reinforced by the following
27 findings:

- 28 • The reasonableness of a 9.9 percent ROE for Avista is
29 supported by the need to consider the challenges to
30 the Company's credit standing:
 - 31 o The pressure of funding significant capital
32 expenditures of approximately \$1.2 billion over
33 the next three years heighten the uncertainties
34 associated with Avista, especially given that the
35 Company's existing rate base is approximately \$2.9
36 billion.
 - 37 o Because of Avista's reliance on hydroelectric
38 generation and increasing dependence on natural
39 gas fueled capacity, the Company is exposed to
40 relatively greater risks of power cost volatility,

1 even with the Power Cost Adjustment Mechanism
2 ("PCA").

3 o Avista's opportunity to actually earn a fair ROE
4 and mitigate exposure to earnings attrition is an
5 important objective.

6 o Widespread expectations for higher interest rates
7 emphasize the implication of considering the
8 impact of projected bond yields in evaluating the
9 results of the CAPM, ECAPM and risk premium
10 methods, particularly in light of the Two-Year
11 Rate Plan proposed by Avista.

12 o My conclusion that a 9.9 percent ROE for Avista is
13 a conservative estimate of investors' required
14 return is also reinforced by the greater
15 uncertainties associated with Avista's relatively
16 small size.

17 • Sensitivity to financial market and regulatory
18 uncertainties has increased dramatically and investors
19 recognize that constructive regulation is a key
20 ingredient in supporting utility credit standing and
21 financial integrity.

22 • Providing Avista with the opportunity to earn a return
23 that reflects these realities is an essential
24 ingredient to support the Company's financial
25 position, which ultimately benefits customers by
26 ensuring reliable service at lower long-run costs.

27 • Continued support for Avista's financial integrity,
28 including a reasonable ROE, is imperative to ensure
29 that the Company has the capability to maintain and
30 build its credit standing while confronting potential
31 challenges associated with funding infrastructure
32 development necessary to meet the needs of its
33 customers.

34 • Regulatory mechanisms approved for Avista, are viewed
35 as supportive by investors, and the implications of
36 the Fixed Cost Adjustment Mechanism ("FCA") and other
37 mechanisms are fully reflected in Avista's credit
38 ratings, which are comparable to those of the proxy
39 group used to estimate the cost of equity. Because
40 the utilities in my proxy group operate under a wide
41 variety of regulatory mechanisms, including provisions
42 akin to the FCA, the effects of the Company's
43 regulatory mechanisms are already reflected in the
44 results of my analyses.

1 These findings indicate that the 9.9 percent ROE requested by
2 Avista is reasonable and should be approved.

3 **Q. What did the DCF results for your select group of**
4 **non-utility firms indicate with respect to your evaluation?**

5 A. Average DCF estimates for a low-risk group of firms
6 in the competitive sector of the economy ranged from 10.5
7 percent to 10.7 percent, and averaged 10.6 percent. These
8 results confirm that a 9.9 percent ROE falls in the lower end
9 of the reasonable range to maintain Avista's financial
10 integrity, provide a return commensurate with investments of
11 comparable risk, and support the Company's ability to attract
12 capital.

13 **Q. What other factors should be considered in**
14 **evaluating the ROE requested by Avista in this case?**

15 A. Apart from the results of the quantitative methods
16 summarized above, it is crucial to recognize the importance
17 of supporting the Company's financial position so that Avista
18 remains prepared to respond to unforeseen events that may
19 materialize in the future. Recent challenges in the economic
20 and financial market environment (such as interest rate
21 increases and capital market volatility) highlight the
22 imperative of continuing to build the Company's financial
23 strength in order to attract the capital needed to secure
24 reliable service at a reasonable cost for customers. The

1 reasonableness of the Company's requested ROE is reinforced
2 by the operating risks associated with Avista's reliance on
3 hydroelectric generation, the higher uncertainties associated
4 with Avista's relatively small size, and the fact that, due
5 to broad-based expectations for higher bond yields, current
6 cost of capital estimates are likely to understate investors'
7 requirements at the time the outcome of this proceeding
8 becomes effective and beyond.

9 **Q. Does an ROE of 9.9 percent represent a reasonable**
10 **cost for Avista's customers to pay?**

11 A. Yes. Investors have many options vying for their
12 money. They make investment capital available to Avista only
13 if the expected returns justify the risk. Customers will
14 enjoy reliable and efficient service so long as investors are
15 willing to make the capital investments necessary to maintain
16 and improve Avista's utility system. Providing an adequate
17 return to investors is a necessary cost to ensure that
18 capital is available to Avista on reasonable terms now and in
19 the future. If regulatory decisions increase risk or limit
20 returns to levels that are insufficient to justify the risk,
21 investors will look elsewhere to invest capital.

1 **Q. What is your conclusion as to the reasonableness of**
2 **the Company's capital structure?**

3 A. Based on my evaluation, I concluded that a common
4 equity ratio of 50.0 percent represents a reasonable basis
5 from which to calculate Avista's overall rate of return.
6 This conclusion was based on the following findings:

- 7 • Avista's requested capitalization is consistent with
8 the Company's need to maintain its credit standing and
9 financial flexibility as it seeks to raise additional
10 capital to fund significant system investments,
11 refinance maturing debt securities, and meet the
12 requirements of its service territory.
- 13 • Avista's proposed common equity ratio is consistent
14 with the range of capitalizations for the proxy
15 utilities, both for year-end 2016 and based on the
16 near-term expectations of the Value Line Investment
17 Survey ("Value Line").
- 18 • The requested capitalization reflects the importance
19 of an adequate equity layer to accommodate Avista's
20 operating risks and the pressures of funding
21 significant capital investments. This is reinforced
22 by the need to consider the impact of uncertain
23 capital market conditions, as well as off-balance
24 sheet commitments such as purchased power agreements,
25 which carry with them some level of imputed debt.

26 **II. RISKS OF AVISTA**

27 **Q. What is the purpose of this section?**

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

1 **A. Operating Risks**

2 **Q. How does Avista's generating resource mix affect**
3 **investors' risk perceptions?**

4 A. Because approximately 45 percent of Avista's total
5 energy requirements are provided by hydroelectric facilities,
6 the Company is exposed to a level of uncertainty not faced by
7 most utilities. While hydropower confers advantages in terms
8 of fuel cost savings and diversity, reduced hydroelectric
9 generation due to below-average water conditions forces
10 Avista to rely more heavily on wholesale power markets or
11 more costly thermal generating capacity to meet its resource
12 needs. As Standard & Poor's Corporation ("S&P") has
13 observed:

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

24 Investors recognize that volatile energy markets,
25 unpredictable stream flows, and Avista's reliance on
26 wholesale purchases to meet a significant portion of its

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

1 resource needs can expose the Company to the risk of reduced
2 cash flows and unrecovered power supply costs.

3 S&P has noted that Avista, along with Idaho Power
4 Company, "face the most substantial risks despite their PCAs
5 and cost-update mechanisms,"⁴ and concluded that Avista's
6 "Northwest hydropower has been subject to significant
7 volatility in recent years, so [Avista] is exposed to
8 purchased power costs."⁵ Similarly, Moody's Investors Service
9 ("Moody's") has recognized that, "Avista's high dependency on
10 hydro resources (approximately 50% of its production comes
11 from hydro fueled electric generation resources) is viewed as
12 a supply concentration risk which also lends to the potential
13 for metric volatility, especially since hydro levels, due to
14 weather, is a factor outside of management's control."⁶ More
15 recently, S&P affirmed the importance of constructive
16 regulation in light of the potential need to "maintain
17 operating cash flow after purchasing power for customers when
18 the hydroelectric generation is unavailable."⁷ Avista's
19 reliance on purchased power to meet shortfalls in

⁴ *Id.*

⁵ Standard & Poor's Corporation, "Industry Report Card," *RatingsDirect* (Apr. 19, 2013).

⁶ Moody's Investors Service, "Credit Opinion: Avista Corp.," *Global Credit Research* (Mar. 17, 2011).

⁷ Standard & Poor's Corporation, "Avista Corp.," *RatingsDirect* (May 26, 2016).

1 hydroelectric generation magnifies the importance of
2 strengthening financial flexibility, which is essential to
3 guarantee access to the cash resources and interim financing
4 required to cover inadequate operating cash flows.

5 **Q. Do financial pressures associated with Avista's**
6 **planned capital expenditures also impact investors' risk**
7 **assessment?**

8 A. Yes. Avista will require capital investment to
9 meet customer growth, provide for necessary maintenance, as
10 well as fund new investment in electric generation,
11 transmission and distribution facilities. Utility capital
12 additions are expected to total approximately \$405 million
13 for each of the years 2017 through 2021. This represents a
14 substantial investment given Avista's current rate base of
15 approximately \$2.9 billion. In addition, as discussed in the
16 testimony of Mr. Thies, beginning in 2018 through 2022 the
17 Company is obligated to repay maturing long-term debt
18 totaling \$654.5 million

19 Continued support for Avista's financial integrity and
20 flexibility will be instrumental in attracting the capital
21 necessary to fund these projects in an effective manner.
22 Investors are aware of the challenges posed by burdensome
23 capital expenditure requirements, especially in light of
24 ongoing capital market and economic uncertainties, and

1 Moody's has noted that increasing capital expenditures are a
2 primary credit concern for Avista.⁸

3 **Q. Would investors consider Avista's relative size in**
4 **their assessment of the Company's risks and prospects?**

5 A. Yes. A firm's relative size has important
6 implications for investors in their evaluation of alternative
7 investments, and it is well established that smaller firms
8 are more risky than larger firms. With a market
9 capitalization of approximately \$2.7 billion, Avista is one
10 of the smallest publicly traded electric utility holding
11 companies followed by Value Line, which have an average
12 capitalization of approximately \$17.0 billion.⁹

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

⁸ Moody's Investors Service, "Credit Opinion: Avista Corp.," *Global Credit Research* (Mar. 11, 2015).

⁹ www.valueline.com (retrieved May 24, 2017).

1 resiliency.¹⁰ These greater risks imply a higher required
2 rate of return, and there is ample empirical evidence that
3 investors in smaller firms realize higher rates of return
4 than in larger firms.¹¹ Accepted financial doctrine holds
5 that investors require higher returns from smaller companies,
6 and unless that compensation is provided in the rate of
7 return allowed for a utility, the legal tests embodied in the
8 *Hope* and *Bluefield* cases cannot be met.

9 **B. Other Factors**

10 **Q. Would investors consider the potential impact of**
11 **Avista's exposure to earnings attrition?**

12 A. Yes. Attrition is the deterioration of actual
13 return below the allowed return that occurs when the
14 relationships between revenues, costs, and rate base used to
15 establish rates (e.g., using a historical test year without
16 adequate adjustments) do not reflect the actual costs
17 incurred to serve customers during the period that rates are
18 in effect. Investors are concerned with what they can expect

¹⁰ 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).

¹¹ 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 in the future, not what they might expect in theory if a
2 historical test year were to repeat. To be fair to investors
3 and to benefit customers, a regulated utility must have a
4 reasonable opportunity to actually earn a return that will
5 maintain financial integrity, facilitate capital attraction,
6 and compensate for risk. In other words, it is the end
7 result in the future that determines whether or not the *Hope*
8 and *Bluefield* standards are met.

9 Ratemaking practices that allow the utility an
10 opportunity to actually earn its authorized ROE are
11 consistent with fundamental regulatory principles. The
12 Supreme Court has reaffirmed that the end result test must be
13 applied to the actual returns that investors expect if they
14 put their money at risk to finance utilities.¹² That end
15 result would maintain the utility's financial integrity,
16 ability to attract capital and offer investors fair
17 compensation for the risk they bear.

¹² *Verizon Communications, et al v. Federal Communications Commission, et al*, 535 U.S. 467 (2002). While I cannot comment on the legal significance of this case, I found the economic wisdom of looking to the reasonable expectations of actual investors compelling. Economic logic and common sense confirm that a utility cannot attract capital on reasonable terms if investors expect future returns to fall short of those offered by comparable investments.

1 **C. Outlook for Capital Costs**

2 **Q. Please summarize current capital market conditions.**

3 A. Current capital market conditions continue to be
4 affected by the Federal Reserve's unprecedented monetary
5 policy actions, which were designed to push interest rates to
6 historically and artificially low levels in an effort to
7 support economic growth and bolster employment. Since the
8 Great Recession, investors have also had to contend with a
9 heightened level of economic uncertainty. The ongoing
10 potential for renewed turmoil in the capital markets has been
11 seen repeatedly and investors have reacted to such periods of
12 "risk off" behavior by seeking a safe haven in U.S.
13 government bonds. As a result of this "flight to safety,"
14 Treasury bond yields have been pushed significantly lower in
15 the face of political, economic, and capital market risks.
16 While serving as President of the Federal Reserve Bank of
17 Philadelphia, Charles Plosser observed that U.S. interest
18 rates were unprecedentedly low, and "outside historical
19 norms."¹³

¹³ Barnato, Katy, "Fed's Plosser: Low rates 'should make us nervous'," CNBC (Nov. 11, 2014). The average yield on 10-year Treasury bonds for the six-months ended April 2017 was 2.38 percent, which is nearly the same as the 2.3 percent yields prevailing at the time of Mr. Plosser's observations.

1 **Q. Have there been any fundamental shifts in Federal**
2 **Reserve monetary policies?**

3 A. No. The Federal Reserve continues to exert
4 considerable influence over capital market conditions through
5 its massive holdings of Treasuries and mortgage-backed
6 securities. Prior to the initiation of the stimulus program
7 in 2009, the Federal Reserve's holdings of U.S. Treasury
8 bonds and notes amounted to approximately \$400-\$500 billion.
9 With the implementation of its asset purchase program,
10 balances of Treasury securities and mortgage backed
11 instruments climbed steadily, and their effect on capital
12 market conditions became more pronounced. Table 2 below
13 charts the course of the Federal Reserve's asset purchase
14 program:

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TABLE 2
FEDERAL RESERVE BALANCES OF
TREASURY BONDS AND MORTGAGE-BACKED SECURITIES
(BILLION \$)

2008	\$ 458
2009	\$1,668
2010	\$1,993
2011	\$2,501
2012	\$2,598
2013	\$3,702
2014	\$4,211
2015	\$4,215
2016	\$4,217

5
6

Source: Factors Affecting Reserve Balances, H.4.1
<http://www.federalreserve.gov/releases/h41/>

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Far from representing a return to normal, the Federal Reserve's holdings of Treasury bonds and mortgage-backed securities continue to exceed \$4.2 trillion. The Federal Reserve has announced its intention to maintain these balances by reinvesting principal payments from these securities "until normalization of the level of the federal funds rate is well under way."¹⁴

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Of course, the corollary to these observations is that changes to this policy of reinvestment would further reduce stimulus measures and could place significant upward pressure on bond yields, especially considering the unprecedented magnitude of the Federal Reserve's holdings of Treasury bonds

¹⁴ Press Release, Federal Reserve, Federal Open Market Committee (May 3, 2017), www.federalreserve.gov/monetarypolicy/files/monetary20170503al.pdf.

1 and mortgage-backed securities. As a *Financial Analysts*
2 *Journal* article noted:

3 Because no precedent exists for the massive
4 monetary easing that has been practiced over the
5 past five years in the United States and Europe,
6 the uncertainty surrounding the outcome of central
7 bank policy is so vast. . . . Total assets on the
8 balance sheets of most developed nations' central
9 banks have grown massively since 2008, and the
10 timing of when the banks will unwind those
11 positions is uncertain.¹⁵

12 Similarly, a report from the global investment
13 management firm BlackRock cited the potential for yield
14 spikes and the exposure of the utilities sector to rising
15 yields, concluding that, "We are in uncharted territory,"
16 when it comes to the implications of unwinding the Federal
17 Reserve's balance sheet holdings.¹⁶ The Wall Street Journal
18 echoed these concerns:

19 A great deal is at stake with the bond decision.
20 Shrinking the portfolio could jolt financial
21 markets, pushing up interest costs on government
22 debt and mortgage bonds and reverberating through
23 the broader economy.

24 Officials don't know how markets will react when
25 they shrink the holdings because they have never
26 done it before. But they know plenty about the
27 skittishness of investors. When they signaled they
28 would end bond purchases in 2013, they sparked a

¹⁵ Poole, William, "Prospects for and Ramifications of the Great Central Banking Unwind," *Financial Analysts Journal* (November/December 2013).

¹⁶ BlackRock, "When the Fed Yields," *BlackRock Investment Institute* (May 2015).

1 market "taper tantrum" that sent interest rates
2 higher and hurt emerging markets.¹⁷

3 More recently, the Wall Street Journal observed the potential
4 for "considerable upward pressure on long-term interest
5 rates" if the need to finance higher deficits associated with
6 stimulative fiscal policies coincides with a higher supply of
7 Treasury securities as the Federal Reserve unwinds its
8 balance sheet holdings.¹⁸

9 **Q. Does the Federal Reserve's three quarter-point**
10 **moves in the target range for the federal funds rate mark a**
11 **return to "normal" in the capital markets?**

12 A. No. The Federal Reserve's long-anticipated moves
13 to increase the federal funds rate represent a modest step
14 towards implementing the process of monetary policy
15 normalization outlined in its September 17, 2014 press
16 release.¹⁹ While the Federal Reserve's action marks a
17 continuation of the normalization process that began with its
18 initial 25 basis point rate rise in the federal funds rate in
19 December 2015, these gradual moves do not result in a

¹⁷ Michael S. Derby, "Fed Grapples With Massive Portfolio," *The Outlook*, The Wall Street Journal, <http://www.wsj.com/articles/fed-grapples-with-massive-portfolio-1485717712> (last visited Jan. 30, 2017).

¹⁸ Josh Zumbrun, "Trump's Fiscal Plans, Fed's Asset Unwinding Could Fuel Rate Rise," *The Outlook*, The Wall Street Journal (May 8, 2017).

¹⁹ Press Release, Fed. Reserve, Policy Normalization Principles and Plans (Sept. 17, 2014), <http://www.federalreserve.gov/newsevents/press/monetary/20140917c.htm>.

1 fundamental alteration of its highly accommodative monetary
2 policy. Nor have they removed uncertainty over the
3 trajectory of further interest rate increases or the
4 overhanging implications of the Federal Reserve's enormous
5 holdings of long-term securities. Uncertainties over just
6 how the process of normalizing the Federal Reserve's
7 unprecedented monetary policies will affect capital markets
8 further support the consideration of alternative DCF analyses
9 and ROE benchmarks when evaluating a just and reasonable ROE
10 for the Company.

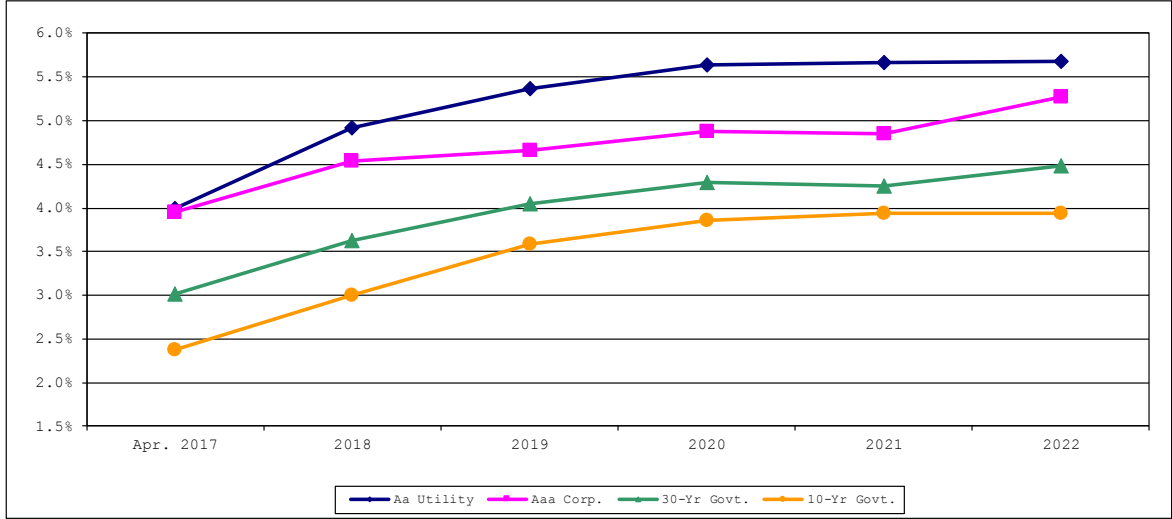
11 **Q. Is there evidence that investors anticipate**
12 **significantly higher interest rates in the foreseeable**
13 **future?**

14 A. Yes. Investors continue to anticipate that
15 interest rates will increase significantly from present
16 levels. With apprehension surrounding future Federal Reserve
17 actions, uncertainties regarding future fiscal policies,
18 world-wide geopolitical exposures, and the overhanging risk
19 of a global economic slowdown, the potential for significant
20 volatility and higher capital costs is clearly evident to
21 investors.

22 For example, the December 1, 2016 long-term consensus
23 forecast of economists published in the Blue Chip Financial
24 Forecast ("Blue Chip") anticipates that corporate bond yields

1 will increase approximately 150 basis points between 2016 and
 2 2022.²⁰ Figure 2 below compares six-month average interest
 3 rates on 10-year and 30-year Treasury bonds, triple-A rated
 4 corporate bonds, and double-A rated utility bonds as of April
 5 2017 with the respective near-term projections from Value
 6 Line, IHS Global Insight, Blue Chip, and the Energy
 7 Information Administration ("EIA"), which are sources that
 8 are highly regarded and widely referenced:

9 **FIGURE 2**
 10 **INTEREST RATE TRENDS**



Source:
 Value Line Investment Survey, Forecast for the U.S. Economy (Mar. 3, 2017)
 IHS Global Insight (Feb. 2017)
 Energy Information Administration, Annual Energy Outlook 2017 (Jan. 5, 2017)
 Wolters Kluwer, Blue Chip Financial Forecasts, Vol. 35, No. 12 (Dec. 1, 2016)

11 As evidenced above, projections by investment advisors,
 12 forecasting services, and government agencies support the

²⁰ Wolters Kluwer, *Blue Chip Financial Forecast*, Vol. 35, No. 12 (Dec. 1, 2016).

1 general consensus in the investment community that the
2 present artificial low level of long-term interest rates will
3 not be sustained.

4 **Q. What do these events imply with respect to the ROE**
5 **for Avista more generally?**

6 A. Current capital market conditions continue to
7 reflect the impact of unprecedented policy measures taken in
8 response to recent dislocations in the economy and financial
9 markets. As a result, current capital costs are not
10 representative of what is likely to prevail over the near-
11 term future. As the Federal Energy Regulatory Commission
12 ("FERC") recently concluded:

13 [W]e also understand that any DCF analysis may be
14 affected by potentially unrepresentative financial
15 inputs to the DCF formula, including those produced
16 by historically anomalous capital market
17 conditions. Therefore, while the DCF model remains
18 the Commission's preferred approach to determining
19 allowed rate of return, the Commission may consider
20 the extent to which economic anomalies may have
21 affected the reliability of DCF analyses.²¹

22 This conclusion is supported by comparisons of current
23 conditions to the historical record and independent
24 forecasts. As demonstrated above, recognized economic
25 forecasting services project that long-term capital costs
26 will increase from present levels.

²¹ Opinion No. 531, 147 FERC ¶ 61,234 at P 41 (2014).

1 Thus, while the DCF model is a recognized approach to
2 estimating the ROE, it is not without shortcomings and does
3 not otherwise eliminate the need to ensure that the "end
4 result" is fair. The Indiana Utility Regulatory Commission
5 has also recognized this principle:

6 There are three principal reasons for our
7 unwillingness to place a great deal of weight on
8 the results of any DCF analysis. One is . . . the
9 failure of the DCF model to conform to reality.
10 The second is the undeniable fact that rarely if
11 ever do two expert witnesses agree on the terms of
12 a DCF equation for the same utility - for example,
13 as we shall see in more detail below, projections
14 of future dividend cash flow and anticipated price
15 appreciation of the stock can vary widely. And,
16 the third reason is that the unadjusted DCF result
17 is almost always well below what any informed
18 financial analysis would regard as defensible, and
19 therefore require an upward adjustment based
20 largely on the expert witness's judgment. In these
21 circumstances, we find it difficult to regard the
22 results of a DCF computation as any more than
23 suggestive.²²

24 Given investors' expectations for rising interest rates and
25 capital costs, the Commission should consider near-term
26 forecasts for higher public utility bond yields in assessing
27 the reasonableness of individual cost of equity estimates and
28 in evaluating the ROE for Avista. As discussed in Exhibit
29 No. 3, Schedule 2, this result is supported by economic

²² *Ind. Michigan Power Co.*, Cause No. 38728, 116 PUR4th, 1, 17-18 (IURC 8/24/1990).

1 studies that show that equity risk premiums are higher when
2 interest rates are at very low levels.

3 **Q Do ongoing economic and capital market**
4 **uncertainties also influence the appropriate capital**
5 **structure for Avista?**

6 A Yes. Financial flexibility plays a crucial role in
7 ensuring the wherewithal to meet funding needs, and utilities
8 with higher financial leverage may be foreclosed from
9 additional borrowing, especially during times of stress. As
10 a result, the Company's capital structure must maintain
11 adequate equity to preserve the flexibility necessary to
12 maintain continuous access to capital even during times of
13 unfavorable market conditions.

14 **D. Support for Avista's Credit Standing**

15 **Q. What credit ratings have been assigned to Avista?**

16 A. S&P has assigned Avista a corporate credit rating
17 of "BBB", while Moody's has set Avista's Issuer Rating at
18 "Baa1".

19 **Q. What considerations impact investors' assessment of**
20 **the firms in the utility industry?**

21 A. Numerous factors have the potential to impact
22 investors' perceptions of the relative risks inherent in the
23 utility industry and have implications for the financial

1 standing of the utilities themselves. These include the
2 possibility of volatile fuel or purchased power costs,
3 uncertain environmental mandates and associated costs, the
4 implications of declining demand associated with economic
5 weakness or structural changes in usage patterns, and
6 increased reliance on distributed generation or other
7 alternatives to the incumbent utility. Apart from these
8 considerations, utilities may face increasing costs of
9 operating their systems, as well as the financial pressures
10 associated with large capital expenditure programs, which are
11 magnified during periods of turmoil in capital markets.

12 **Q. What are the implications for Avista, given the**
13 **potential for further dislocations in the capital markets?**

14 A. The pressures of significant capital expenditure
15 requirements, along with the need to refinance maturing debt,
16 reinforce the importance of supporting continued improvement
17 in Avista's credit standing. Investors understand from past
18 experience in the utility industry that large capital needs
19 can lead to significant deterioration in financial integrity
20 that can constrain access to capital, especially during times
21 of unfavorable capital market conditions. Considering the
22 uncertain state of financial markets, competition with other
23 investment alternatives, and investors' sensitivity to the
24 potential for market volatility, greater credit strength is a

1 key ingredient in maintaining access to capital at reasonable
2 cost. As Mr. Thies confirms in his testimony, ongoing
3 regulatory support will be a key driver in continuing to
4 build Avista's financial health.

5 **Q. What role does regulation play in ensuring that**
6 **Avista has access to capital under reasonable terms and on a**
7 **sustainable basis?**

8 A. Investors recognize that constructive regulation is
9 a key ingredient in supporting utility credit ratings and
10 financial integrity, particularly during times of adverse
11 conditions. As Moody's noted, "the regulatory environment is
12 the most important driver of our outlook because it sets the
13 pace for cost recovery."²³ With respect to Avista
14 specifically, the major bond rating agencies have explicitly
15 cited the potential that adverse regulatory rulings could
16 compromise the Company's credit standing. S&P observed that
17 the stable outlook on Avista Corp. is due in part to their
18 expectation that the company "will continue to effectively
19 manage regulatory risks," and concluded that "greater
20 borrowing or increased rate lag, a large deferral, or adverse

²³ Moody's Investors Service, "Regulation Will Keep Cash Flow Stable As Major Tax Break Ends," *Industry Outlook* (Feb. 19, 2014).

1 regulatory decisions" could lead to a downgrade.²⁴ Similarly,
2 Moody's concluded that "Avista's ratings could be considered
3 for downgrade with less supportive regulatory relationships
4 over a sustained period of time..."²⁵ Further strengthening
5 Avista's financial integrity is imperative to ensure that the
6 Company has the capability to maintain an investment grade
7 rating while confronting large capital expenditures and other
8 potential challenges.²⁶

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

11 A. Yes. Providing an ROE that is sufficient to
12 maintain Avista's ability to attract capital under reasonable
13 terms, even in times of financial and market stress, is not
14 only consistent with the economic requirements embodied in
15 the U.S. Supreme Court's *Hope* and *Bluefield* decisions, it is
16 also in customers' best interests. Customers enjoy the
17 benefits that come from ensuring that the utility has the
18 financial wherewithal to take whatever actions are required
19 to ensure safe and reliable service.

²⁴ Standard & Poor's Corporation, "Avista Corp.," *RatingsDirect* (May 26, 2016).

²⁵ Moody's Investors Service, "Credit Opinion: Avista Corp.," *Global Opinion* (Mar. 22, 2017).

²⁶ As noted in the testimony of Mr. Thies, continued regulatory support will be instrumental in achieving Avista's objective of a BBB+ rating, which is consistent with the average credit standing in the electric utility industry.

1 **E. Capital Structure**

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

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

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

18 A. Avista's capital structure is presented in the
19 testimony of Mr. Thies. As summarized in his testimony, the
20 proposed capital structure used to compute Avista's overall
21 rate of return consists of 50.0 percent equity / 50 percent
22 long-term debt in this filing.

1 **Q. What was the average capitalization maintained by**
2 **the Utility Group?**

3 A. As shown on page 1 of Exhibit No. 3, Schedule 4,
4 for the 18 firms in the Utility Group, common equity ratios
5 at December 31, 2016 ranged between 31.1 percent and 75.7
6 percent and averaged 47.3 percent.

7 **Q. What capitalization is representative for the proxy**
8 **group of utilities going forward?**

9 A. As shown on page 1 of Exhibit No. 3, Schedule 4,
10 Value Line expects an average common equity ratio for the
11 proxy group of utilities of 48.8 percent for its three-to-
12 five year forecast horizon, with the individual common equity
13 ratios ranging from 29.5 percent to 76.0 percent. After
14 eliminating a single low-end outlier (Dominion Energy at 29.5
15 percent), the average equity ratio corresponding to Value
16 Line's three-to-five year forecast horizon is 49.9 percent.

17 **Q. How does Avista's proposed equity ratio compare**
18 **with those of the operating companies held by the proxy group**
19 **parent companies?**

20 A. The individual operating company capital
21 structures are presented on page 2 of Exhibit No. 3, Schedule
22 4. As shown there, the operating company equity ratios
23 ranged from 41.5 percent to 61.0 percent. The simple average

1 of these results points to an equity ratio of 51.7 percent;
2 the average weighted by total capitalization for each
3 operating entity was 51.4 percent.

4 **Q. In summary, how does Avista's common equity ratio**
5 **compare with those maintained by the reference group of**
6 **utilities?**

7 A. The 50.0 percent common equity ratio requested by
8 Avista is entirely consistent with the range of equity ratios
9 maintained by the parent firms in the Utility Group and their
10 operating subsidiaries, and is in-line with the average
11 equity ratios based on Value Line's near-term expectations.

12 **Q. What implication do the uncertainties inherent in**
13 **the utility industry have for the capital structures**
14 **maintained by utilities?**

15 A. As discussed earlier, utilities are facing rising
16 cost structures, the need to finance significant capital
17 investment plans, uncertainties over accommodating economic
18 and financial market uncertainties, and ongoing regulatory
19 risks. Coupled with the potential for turmoil in capital
20 markets, these considerations warrant a stronger balance
21 sheet to deal with an increasingly uncertain environment. A
22 more conservative financial profile, in the form of a higher
23 common equity ratio, is consistent with increasing
24 uncertainties and the need to maintain the continuous access

1 to capital under reasonable terms that is required to fund
2 operations and necessary system investment, including times
3 of adverse capital market conditions.

4 Moody's has repeatedly warned investors of the risks
5 associated with debt leverage and fixed obligations and
6 advised utilities not to squander the opportunity to
7 strengthen the balance sheet as a buffer against future
8 uncertainties.²⁷ Similarly, S&P noted that, "we generally
9 consider a debt to capital level of 50% or greater to be
10 aggressive or highly leveraged for utilities."²⁸

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

13 A. Depending on their specific attributes, contractual
14 agreements or other obligations that require the utility to
15 make specified payments may be treated as debt in evaluating
16 Avista's financial risk. Power purchase agreements ("PPAs"),
17 leases, and pension obligations typically require the utility
18 to make specified minimum contractual payments akin to those

²⁷ Moody's Investors Service, "Storm Clouds Gathering on the Horizon for the North American Electric Utility Sector," *Special Comment* (Aug. 2007); "U.S. Electric Utility Sector," *Industry Outlook* (Jan. 2008); "U.S. Electric Utilities Face Challenges Beyond Near-Term," *Industry Outlook* (Jan. 2010); Moody's Investors Service, "U.S. Electric Utilities: Uncertain Times Ahead; Strengthening Balance Sheets Now Would Protect Credit," *Special Comment* (Oct. 28, 2010).

²⁸ Standard & Poor's Corporation, "Ratings Roundup: U.S. Electric Utility Sector Maintained Strong Credit Quality In A Gloomy 2009," *RatingsDirect* (Jan. 26, 2010).

1 associated with traditional debt financing and investors
2 consider a portion of these commitments as debt in evaluating
3 total financial risks. Because investors consider the debt
4 impact of such fixed obligations in assessing a utility's
5 financial position, they imply greater risk and reduced
6 financial flexibility. In order to offset the debt
7 equivalent associated with off-balance sheet obligations, the
8 utility must rebalance its capital structure by increasing
9 its common equity in order to restore its effective
10 capitalization ratios to previous levels.

11 These commitments have been repeatedly cited by major
12 bond rating agencies in connection with assessments of
13 utility financial risks.²⁹ The capital structure ratios
14 presented earlier do not include imputed debt associated with
15 power purchase agreements or the impact of other off-balance
16 sheet obligations.

17 **Q. What does this evidence indicate with respect to**
18 **the Company's capital structure?**

19 A. Based on my evaluation, I concluded that Avista's
20 requested capital structure represents a reasonable mix of
21 capital sources from which to calculate the Company's overall

²⁹ Standard & Poor's Corporation, "Utilities: Key Credit Factors For The Regulated Utilities Industry," *RatingsDirect* (Nov. 19, 2013).

1 rate of return. While industry averages provide one
2 benchmark for comparison, each firm must select its
3 capitalization based on the risks and prospects it faces, as
4 well its specific needs to access the capital markets. A
5 public utility with an obligation to serve must maintain
6 ready access to capital under reasonable terms so that it can
7 meet the service requirements of its customers. Financial
8 flexibility plays a crucial role in ensuring the wherewithal
9 to meet the needs of customers, and utilities with higher
10 leverage may be foreclosed from additional borrowing under
11 reasonable terms, especially during times of stress.

12 Avista's capital structure is consistent with industry
13 benchmarks and reflects the challenges posed by its resource
14 mix, the burden of significant capital spending requirements,
15 and the Company's ongoing efforts to strengthen its credit
16 standing and support access to capital on reasonable terms.
17 The reasonableness of a 50 percent common equity / 50 percent
18 long-term debt capital structure for Avista is reinforced by
19 the importance of supporting continued investment in system
20 improvements and the Company's debt repayment obligations,
21 even during times of adverse capital market conditions.

1 **III. CAPITAL MARKET ESTIMATES**

2 **Q. What is the purpose of this section?**

3 A. This section presents capital market estimates of
4 the cost of equity. The details of my quantitative analyses
5 are contained in Exhibit No. 3, Schedule 2, with the results
6 being summarized below.

7 **A. Quantitative Analyses**

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

10 A. No. In my opinion, no single method or model
11 should be relied upon to determine a utility's cost of equity
12 because no single approach can be regarded as wholly
13 reliable. Therefore, I used the DCF, CAPM, ECAPM, and risk
14 premium methods to estimate the cost of common equity. In
15 addition, I also evaluated a fair ROE using an earnings
16 approach based on investors' current expectations in the
17 capital markets. In my opinion, comparing estimates produced
18 by one method with those produced by other approaches ensures
19 that the estimates of the cost of equity pass fundamental
20 tests of reasonableness and economic logic.

1 **Q. Are you aware that the IPUC has traditionally**
2 **relied primarily on the DCF and comparable earnings methods?**

3 A. Yes, although the Commission has also evidenced a
4 willingness to weigh alternatives in evaluating an allowed
5 ROE. For example, while noting that it had not focused on
6 the CAPM for determining the cost of equity, the IPUC
7 recognized in Case No. IPC-E-03-13, Order No. 29505 that
8 "methods to evaluate a common equity rate of return are
9 imperfect predictors" and emphasized "that by evaluating all
10 the methods presented in this case and using each as a check
11 on the other," the Commission had avoided the pitfalls
12 associated with reliance on a single method.³⁰

13 **Q. What specific proxy group of utilities did you rely**
14 **on for your analysis?**

15 A. In estimating the cost of equity, the DCF model is
16 typically applied to publicly traded firms engaged in similar
17 business activities or with comparable investment risks. As
18 described in detail in Exhibit No. 3, Schedule 2, I applied
19 the DCF model to a utility proxy group composed of those
20 dividend-paying companies included by Value Line in its
21 Electric Utilities Industry groups with:

- 22 1. S&P corporate credit ratings of BBB-, BBB, or BBB+.

³⁰ Case No. IPC-E-03-13, Order No. 29505 at 38 (2004) (emphasis added).

- 1 2. Moody's issuer ratings of Baa2, Baa1, or A3.
- 2 3. Value Line Safety Rank of 2 or 3.
- 3 4. No involvement in a major merger or acquisition.
- 4 5. Currently paying common dividends with no recent
- 5 dividend cuts.

6 I refer to the group of 18 comparable-risk firms meeting
7 these criteria as the "Utility Group."

8 **Q. How do the overall risks of your proxy group**
9 **compare with Avista?**

10 A. Table 3 compares the Utility Group with Avista
11 across four key indicators of investment risk:

12 **TABLE 3**
13 **COMPARISON OF RISK INDICATORS**

	<u>Credit Rating</u>		<u>Value Line</u>		
	<u>S&P</u>	<u>Moody's</u>	<u>Safety</u>	<u>Financial</u>	
			<u>Rank</u>	<u>Strength</u>	<u>Beta</u>
Utility Group	BBB	Baa1	2	B++	0.71
Avista	BBB	Baa1	2	A	0.70

14 **Q. Do these comparisons indicate that investors would**
15 **view the firms in your proxy groups as risk-comparable to the**
16 **Company?**

17 A. Yes. Considered together, a comparison of these
18 objective measures, which consider a broad spectrum of risks,
19 including financial and business position, and exposure to
20 firm-specific factors, indicates that investors would likely
21 conclude that the overall investment risks for Avista are

1 generally comparable to those of the firms in the Utility
2 Group.

3 **Q. What cost of equity is implied by your DCF results**
4 **for the Utility Group?**

5 A. My application of the DCF model, which is discussed
6 in greater detail in Exhibit No. 3, Schedule 2, considered
7 four alternative measures of expected earnings growth, as
8 well as the sustainable growth rate based on the relationship
9 between expected retained earnings and earned rates of return
10 ("br+sv"). As shown on page 3 of Exhibit No. 3, Schedule 5
11 and summarized below in Table 4, after eliminating illogical
12 values,³¹ application of the constant growth DCF model
13 resulted in the following cost of equity estimates:

14 **TABLE 4**
15 **DCF RESULTS - UTILITY GROUP**

<u>Growth Rate</u>	<u>Cost of Equity</u>	
	<u>Average</u>	<u>Midpoint</u>
Value Line	9.1%	9.3%
IBES	10.0%	11.3%
Zacks	9.5%	10.1%
S&P Capital/IQ	9.4%	9.4%
br + sv	8.0%	8.2%

³¹ I provide a detailed explanation of my DCF analysis, including the evaluation of individual estimates, in Exhibit No. 3, Schedule 2.

1 **Q. How did you apply the CAPM to estimate the cost of**
2 **equity?**

3 A. Like the DCF model, the CAPM is an *ex-ante*, or
4 forward-looking model based on expectations of the future.
5 As a result, in order to produce a meaningful estimate of
6 investors' required rate of return, the CAPM is best applied
7 using estimates that reflect the expectations of actual
8 investors in the market, not with backward-looking,
9 historical data. Accordingly, I applied the CAPM to the
10 Utility Group based on a forward-looking estimate for
11 investors' required rate of return from common stocks.
12 Because this forward-looking application of the CAPM looks
13 directly at investors' expectations in the capital markets,
14 it provides a more meaningful guide to the expected rate of
15 return required to implement the CAPM.

16 **Q. What cost of equity was indicated by the CAPM**
17 **approach?**

18 A. As shown on page 1 of Exhibit No. 3, Schedule 7, my
19 forward-looking application of the CAPM model indicated an
20 ROE of 9.9 percent for the Utility Group after adjusting for
21 the impact of firm size.

1 **Q. Did you also apply the CAPM using forecasted bond**
2 **yields?**

3 A. Yes. As discussed earlier, there is widespread
4 consensus that interest rates will increase materially as the
5 economy continues to strengthen. Accordingly, in addition to
6 the use of current bond yields, I also applied the CAPM based
7 on the forecasted long-term Treasury bond yields developed
8 based on projections published by Value Line, IHS Global
9 Insight and Blue Chip. As shown on page 2 of Exhibit No. 3,
10 Schedule 7, incorporating a forecasted Treasury bond yield
11 for 2018-2022 implied an average cost of equity of 10.2
12 percent after adjusting for the impact of relative size.

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

15 A. Empirical tests of the CAPM have shown that low-
16 beta securities earn returns somewhat higher than the CAPM
17 would predict, and high-beta securities earn less than
18 predicted. The ECAPM incorporates a refinement to address
19 this observed relationship documented in the financial
20 research. My applications of the ECAPM were based on the
21 same forward-looking market rate of return, risk-free rates,
22 and beta values discussed above in connection with the CAPM.
23 As shown on page 1 of Exhibit No. 3, Schedule 8, applying the
24 forward-looking ECAPM approach to the firms in the Utility

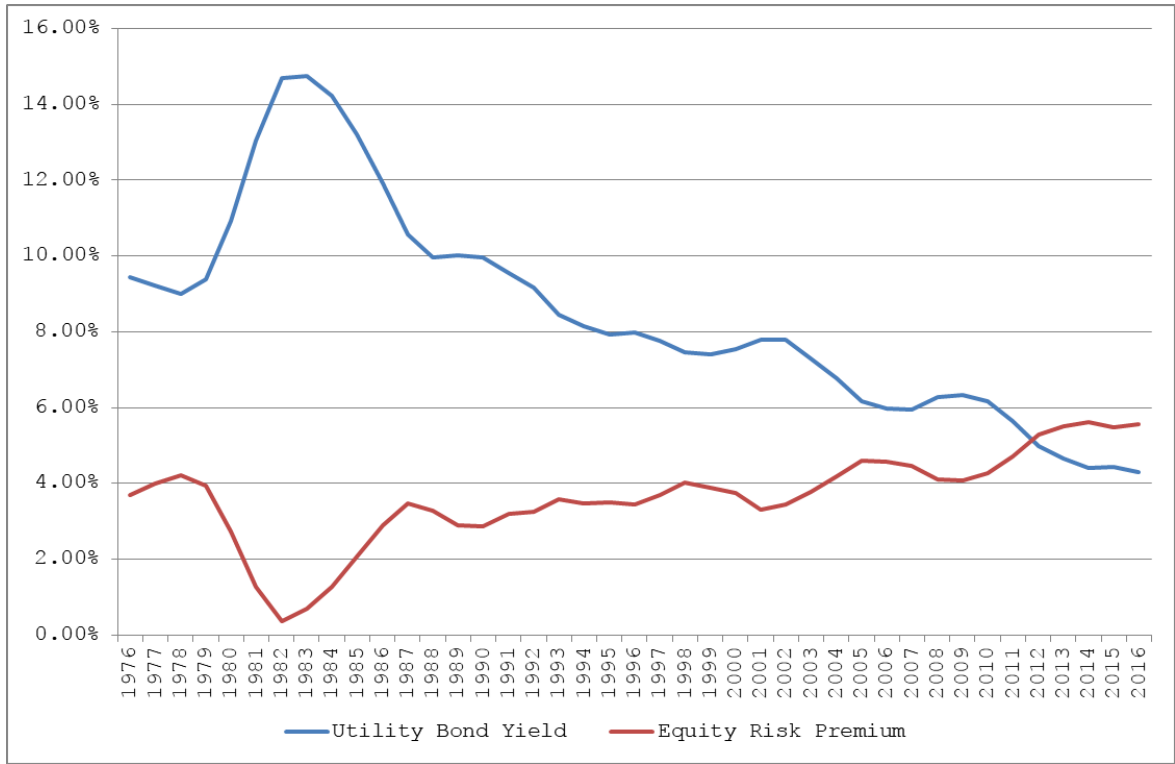
1 Group results in an average cost of equity estimate of 10.5
2 percent after incorporating the size adjustment corresponding
3 to the market capitalization of the individual utilities. As
4 shown on page 2 of Exhibit No. 3, Schedule 8, incorporating a
5 forecasted Treasury bond yield for 2018-2022 implied an
6 average cost of equity of 10.7 percent after adjusting for
7 the impact of relative size.

8 **Q. How did you implement the risk premium method?**

9 A. I based my estimates of equity risk premiums for
10 electric utilities on surveys of previously authorized rates
11 of return on common equity, which are frequently referenced
12 as the basis for estimating equity risk premiums. My
13 application of the risk premium method also considered the
14 inverse relationship between equity risk premiums and
15 interest rates, which suggests that when interest rate levels
16 are relatively high, equity risk premiums narrow, and when
17 interest rates are relatively low, equity risk premiums
18 widen. This relationship is illustrated in the figure below,
19 which is based on three-year rolling averages for the utility
20 bond yields and risk premiums shown on page 3 of Exhibit No.
21 3, Schedule 9.

1
2

**FIGURE 3
INVERSE RELATIONSHIP**



3

Q. What cost of equity was indicated by the risk

4

premium approach?

5

A. As shown on page 1 of Exhibit No. 3, Schedule 9,

6

adding an adjusted risk premium of 5.44 percent to the

7

average yield on triple-B utility bonds for April 2017 of

8

4.63 percent resulted in an implied cost of equity of

9

approximately 10.1 percent.³² As shown on page 2 of Exhibit

10

No. 3, Schedule 9, incorporating a forecasted yield for 2018-

11

2022 and adjusting for changes in interest rates over the

³² Moody's yield averages are based on seasoned bonds with a remaining maturity of at least 20 years.

1 1974-2016 study period implied a cost of equity of 10.9
2 percent.

3 **Q. Please summarize the results of the expected**
4 **earnings approach.**

5 A. Reference to rates of return available from
6 alternative investments of comparable risk provide an
7 important benchmark in assessing the return necessary to
8 assure confidence in the financial integrity of a firm and
9 its ability to attract capital. The simple, but powerful
10 concept underlying the expected earnings approach is that
11 investors compare each investment alternative with the next
12 best opportunity. If the utility is unable to offer a return
13 similar to that available from other opportunities of
14 comparable risk, investors will become unwilling to supply
15 the capital on reasonable terms. For existing investors,
16 denying the utility an opportunity to earn what is available
17 from other similar risk alternatives prevents them from
18 earning their opportunity cost of capital. This expected
19 earnings approach is consistent with the economic
20 underpinnings for a fair rate of return established by the
21 U.S. Supreme Court. Moreover, it avoids the complexities and
22 limitations of capital market methods and instead focuses on
23 the returns earned on book equity, which are readily
24 available to investors.

1 Value Line's projections imply an average rate of return
2 on common equity for the electric and gas utility industries
3 of 10.7 percent and 10.6 percent, respectively, over its
4 three- to five-year forecast horizon.³³ As shown on Exhibit
5 No. 3, Schedule 10, Value Line's projections for the Utility
6 Group suggest an average ROE of approximately 10.3 percent,
7 with a midpoint value of 11.1 percent.

8 **B. Flotation Costs**

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

11 A. The common equity used to finance the investment in
12 utility assets is provided from either the sale of stock in
13 the capital markets or from retained earnings not paid out as
14 dividends. When equity is raised through the sale of common
15 stock, there are costs associated with "floating" the new
16 equity securities. These flotation costs include services
17 such as legal, accounting, and printing, as well as the fees
18 and discounts paid to compensate brokers for selling the
19 stock to the public.

³³ The Value Line Investment Survey (Mar. 3, Mar. 17, Apr. 28, & May 19, 2017). Value Line reports return on year-end equity so the equivalent return on average equity would be higher.

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

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

1 **Q. Is there a sound basis to include a flotation cost**
2 **adjustment in this case?**

3 A. Yes, the financial literature and evidence in this
4 case supports an adjustment to include consideration of
5 flotation costs. An adjustment for flotation costs
6 associated with past equity issues is appropriate, even when
7 the utility is not contemplating any new sales of common
8 stock. The need for a flotation cost adjustment to
9 compensate for past equity issues has been recognized in the
10 financial literature. In a *Public Utilities Fortnightly*
11 article, for example, Brigham, Aberwald, and Gapenski
12 demonstrated that even if no further stock issues are
13 contemplated, a flotation cost adjustment in all future years
14 is required to keep shareholders whole, and that the
15 flotation cost adjustment must consider total equity,
16 including retained earnings.³⁴ Similarly, *New Regulatory*
17 *Finance* contains the following discussion:

18 Another controversy is whether the flotation cost
19 allowance should still be applied when the utility
20 is not contemplating an imminent common stock
21 issue. Some argue that flotation costs are real
22 and should be recognized in calculating the fair
23 rate of return on equity, but only at the time when
24 the expenses are incurred. In other words, the
25 flotation cost allowance should not continue

³⁴ Brigham, E.F., Aberwald, D.A., and Gapenski, L.C., "Common Equity Flotation Costs and Rate Making," *Public Utilities Fortnightly*, May, 2, 1985.

1 indefinitely, but should be made in the year in
2 which the sale of securities occurs, with no need
3 for continuing compensation in future years. This
4 argument implies that the company has already been
5 compensated for these costs and/or the initial
6 contributed capital was obtained freely, devoid of
7 any flotation costs, which is an unlikely
8 assumption, and certainly not applicable to most
9 utilities. . . . The flotation cost adjustment
10 cannot be strictly forward-looking unless all past
11 flotation costs associated with past issues have
12 been recovered.³⁵

13 **Q. Can you illustrate why investors will not have the**
14 **opportunity to earn their required ROE unless a flotation**
15 **cost adjustment is included?**

16 A. Yes. Assume a utility sells \$10 worth of common
17 stock at the beginning of year 1. If the utility incurs
18 flotation costs of \$0.48 (5 percent of the net proceeds),
19 then only \$9.52 is available to invest in rate base. Assume
20 that common shareholders' required rate of return is 11.5
21 percent, the expected dividend in year 1 is \$0.50 (i.e., a
22 dividend yield of 5 percent), and that growth is expected to
23 be 6.5 percent annually. As developed in Table 5 below, if
24 the allowed rate of return on common equity is only equal to
25 the utility's 11.5 percent "bare bones" cost of equity,
26 common stockholders will not earn their required rate of

³⁵ Morin, Roger A., "New Regulatory Finance," *Public Utilities Reports, Inc.* (2006) at 335.

1 return on their \$10 investment, since growth will really only
 2 be 6.25 percent, instead of 6.5 percent:

3 **TABLE 5**
 4 **NO FLOTATION COST ADJUSTMENT**

	Common	Retained	Total	Market	M/B	Allowed	Earnings	Dividends	Payout
Year	Stock	Earnings	Equity	Price	Ratio	ROE	Per Share	Per Share	Ratio
1	\$ 9.52	\$ -	\$ 9.52	\$ 10.00	1.050	11.50%	\$ 1.09	\$ 0.50	45.7%
2	\$ 9.52	\$ 0.59	\$ 10.11	\$ 10.62	1.050	11.50%	\$ 1.16	\$ 0.53	45.7%
3	\$ 9.52	\$ 0.63	<u>\$ 10.75</u>	<u>\$ 11.29</u>	1.050	11.50%	<u>\$ 1.24</u>	<u>\$ 0.56</u>	45.7%
Growth			6.25%	6.25%			6.25%	6.25%	

5 The reason that investors never really earn 11.5 percent
 6 on their investment in the above example is that the \$0.48 in
 7 flotation costs initially incurred to raise the common stock
 8 is not treated like debt issuance costs (*i.e.*, amortized into
 9 interest expense and therefore increasing the embedded cost
 10 of debt), nor is it included as an asset in rate base.

11 Including a flotation cost adjustment allows investors
 12 to be fully compensated for the impact of these costs. One
 13 commonly referenced method for calculating the flotation cost
 14 adjustment is to multiply the dividend yield by a flotation
 15 cost percentage. Thus, with a 5 percent dividend yield and a
 16 5 percent flotation cost percentage, the flotation cost
 17 adjustment in the above example would be approximately 25
 18 basis points. As shown in Table 6 below, by allowing a rate
 19 of return on common equity of 11.75 percent (an 11.5 percent
 20 cost of equity plus a 25 basis point flotation cost

1 adjustment), investors earn their 11.5 percent required rate
2 of return, since actual growth is now equal to 6.5 percent:

3 **TABLE 6**
4 **INCLUDING FLOTATION COST ADJUSTMENT**

Year	Common Stock	Retained Earnings	Total Equity	Market Price	M/B Ratio	Allowed ROE	Earnings Per Share	Dividends Per Share	Payout Ratio
1	\$ 9.52	\$ -	\$ 9.52	\$ 10.00	1.050	11.75%	\$ 1.12	\$ 0.50	44.7%
2	\$ 9.52	\$ 0.62	\$ 10.14	\$ 10.65	1.050	11.75%	\$ 1.19	\$ 0.53	44.7%
3	\$ 9.52	\$ 0.66	<u>\$ 10.80</u>	<u>\$ 11.34</u>	1.050	11.75%	<u>\$ 1.27</u>	<u>\$ 0.57</u>	44.7%
Growth			6.50%	6.50%			6.50%	6.50%	

5 The only way for investors to be fully compensated for
6 issuance costs is to include an ongoing adjustment to account
7 for past flotation costs when setting the return on common
8 equity. This is the case regardless of whether or not the
9 utility is expected to issue additional shares of common
10 stock in the future.

11 **Q. What is the magnitude of the adjustment to the**
12 **"bare bones" cost of equity to account for issuance costs?**

13 A. The most common method used to account for
14 flotation costs in regulatory proceedings is to apply an
15 average flotation-cost percentage to a utility's dividend
16 yield. Based on a review of the finance literature, *New*
17 *Regulatory Finance* concluded:

18 The flotation cost allowance requires an estimated
19 adjustment to the return on equity of approximately

1 5% to 10%, depending on the size and risk of the
2 issue.³⁶

3 Alternatively, a study of data from Morgan Stanley regarding
4 issuance costs associated with utility common stock issuances
5 suggests an average flotation cost percentage of 3.6
6 percent.³⁷ Applying a 3.6 percent expense percentage to the
7 proxy group dividend yield of 3.3 percent implies a flotation
8 cost adjustment on the order of 10 basis points. I thus
9 recommend the Commission increase the cost of equity by 10
10 basis points in arriving at a fair ROE for Avista.

11 **Q. Has the IPUC Staff previously considered flotation**
12 **costs in estimating a fair ROE?**

13 A. Yes. For example, in Case No. IPC-E-08-10, IPUC
14 Staff witness Terri Carlock noted that she had adjusted her
15 DCF analysis to incorporate an allowance for flotation
16 costs.³⁸ More recently, in Case No. INT-G-16-02 the IPUC
17 Staff supported the use of the same flotation cost
18 methodology that I recommend above, concluding:

³⁶ Roger A. Morin, "New Regulatory Finance," *Public Utilities Reports, Inc.*
at 323 (2006).

³⁷ *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.

³⁸ Case No. IPC-E-08-10, *Direct Testimony of Terri Carlock* at 12-13 (Oct.
24, 2008).

1 [I]s the standard equation for flotation cost
2 adjustments and is referred to as the
3 "conventional" approach. Its use in regulatory
4 proceedings is widespread, and the formula is
5 outlined in several corporate finance textbooks.³⁹

6 **Q. Have other regulators previously recognized that**
7 **flotation costs are properly considered in setting the**
8 **allowed ROE?**

9 A. Yes. For example, in Docket No. UE-991606 the WUTC
10 concluded that a flotation cost adjustment of 25 basis points
11 should be included in the allowed return on equity:

12 The Commission also agrees with both Dr. Avera and
13 Dr. Lurito that a 25 basis point markup for
14 flotation costs should be made. This amount
15 compensates the Company for costs incurred from
16 past issues of common stock. Flotation costs
17 incurred in connection with a sale of common stock
18 are not included in a utility's rate base because
19 the portion of gross proceeds that is used to pay
20 these costs is not available to invest in plant and
21 equipment.⁴⁰

22 The South Dakota Public Utilities Commission has
23 recognized the impact of issuance costs, concluding that,
24 "recovery of reasonable flotation costs is appropriate."⁴¹
25 Another example of a regulator that approves common stock
26 issuance costs is the Mississippi Public Service Commission,

³⁹ Case No. INT-G-16-02, *Direct Testimony of Mark Rogers* at 18 (Dec. 16, 2016).

⁴⁰ *Third Supplemental Order*, WUTC Docket No. UE-991606, et al., p. 95 (September 2000).

⁴¹ *Northern States Power Co*, EL11-019, Final Decision and Order at P 22 (2012).

1 which routinely includes a flotation cost adjustment in its
2 Rate Stabilization Adjustment Rider formula.⁴² The Public
3 Utilities Regulatory Authority of Connecticut⁴³ and the
4 Minnesota Public Utilities Commission⁴⁴ have also recognized
5 that flotation costs are a legitimate expense worthy of
6 consideration in setting a fair ROE.

7 **C. Non-Utility DCF Model**

8 **Q. What other proxy group did you consider in**
9 **evaluating a fair ROE for Avista?**

10 A. As indicated earlier, I also present a DCF analysis
11 for a low risk group of non-utility firms, with which Avista
12 must compete for investors' money. Under the regulatory
13 standards established by *Hope* and *Bluefield*, the salient
14 criterion in establishing a meaningful benchmark to evaluate
15 a fair ROE is relative risk, not the particular business
16 activity or degree of regulation. With regulation taking the
17 place of competitive market forces, required returns for
18 utilities should be in line with those of non-utility firms
19 of comparable risk operating under the constraints of free

⁴² See, e.g., Entergy Mississippi, Inc., Formula Rate Plan Rider (Apr. 15, 2015), http://www.entergy-mississippi.com/content/price/tariffs/emi_frp.pdf (last visited Mar. 16, 2017).

⁴³ See, e.g., Docket No. 14-05-06, Decision (Dec. 17, 2014) at 133-134.

⁴⁴ See, e.g., Docket No. E001/GR-10-276, Findings of Fact, Conclusions, and Order at 9.

1 competition. Consistent with this accepted regulatory
2 standard, I also applied the DCF model to a reference group
3 of low-risk companies in the non-utility sectors of the
4 economy. I refer to this group as the "Non-Utility Group".

5 **Q. Do utilities compete with non-regulated firms for**
6 **capital?**

7 A. Yes. The cost of capital is an opportunity cost
8 based on the returns that investors could realize by putting
9 their money in other alternatives. Clearly, the total
10 capital invested in utility stocks is only the tip of the
11 iceberg of total common stock investment, and there are a
12 plethora of other enterprises available to investors beyond
13 those in the utility industry. Utilities must compete for
14 capital, not just against firms in their own industry, but
15 with other investment opportunities of comparable risk.

16 **Q. Is it consistent with the *Bluefield* and *Hope* cases**
17 **to consider required returns for non-utility companies?**

18 A. Yes. Returns in the competitive sector of the
19 economy form the very underpinning for utility ROEs because
20 regulation purports to serve as a substitute for the actions
21 of competitive markets. The Supreme Court has recognized
22 that it is the degree of risk, not the nature of the
23 business, which is relevant in evaluating an allowed ROE for

1 a utility. The *Bluefield* case refers to "business
2 undertakings attended with comparable risks and
3 uncertainties."⁴⁵ It does not restrict consideration to other
4 utilities. Similarly, the *Hope* case states:

5 By that standard the return to the equity owner
6 should be commensurate with returns on investments
7 in other enterprises having corresponding risks.⁴⁶

8 As in the *Bluefield* decision, there is nothing to
9 restrict "other enterprises" solely to the utility industry.

10 **Q. Does consideration of the results for the Non-**
11 **Utility Group make the estimation of the cost of equity using**
12 **the DCF model more reliable?**

13 A. Yes. The estimates of growth from the DCF model
14 depend on analysts' forecasts. It is possible for utility
15 growth rates to be distorted by short-term trends in the
16 industry or the industry falling into favor or disfavor by
17 analysts. The result of such distortions would be to bias
18 the DCF estimates for utilities. Because the Non-Utility
19 Group includes low risk companies from many industries, it
20 diversifies away any distortion that may be caused by the ebb
21 and flow of enthusiasm for a particular sector.

⁴⁵ *Bluefield Water Works & Improvement Co. v. Pub. Serv. Comm'n*, 262 U.S. 679 (1923).
⁴⁶ *Federal Power Comm'n v. Hope Natural Gas Co.* (320 U.S. 391, 1944).

1 Table 8, after eliminating illogical values, application of
2 the constant growth DCF model resulted in the following cost
3 of equity estimates:

4 **TABLE 8**
5 **DCF RESULTS - NON-UTILITY GROUP**

<u>Growth Rate</u>	<u>Cost of Equity</u>	
	<u>Average</u>	<u>Midpoint</u>
Value Line	10.7%	11.3%
IBES	10.5%	11.0%
Zacks	10.6%	11.4%

6 **Q. How can you reconcile these DCF results for the**
7 **Non-Utility Group against the lower estimates produced for**
8 **your comparable-risk group of utilities?**

9 A. First, it is important to be clear that the higher
10 DCF results for the Non-Utility Group cannot be attributed to
11 risk differences. As documented in Table 7 above, the risks
12 that investors associate with the group of non-utility firms
13 - as measured by credit ratings and Value Line's Safety Rank
14 and Financial Strength - are lower than the risks investors
15 associate with the Utility Group and Avista. The objective
16 evidence provided by these observable risk measures rules out
17 a conclusion that the higher non-utility DCF estimates are
18 associated with higher investment risk.

19 Rather, the divergence between the DCF results for these
20 two groups of utility and non-utility firms can be attributed
21 to the fact that DCF estimates invariably depart from the

1 returns that investors actually require because their
2 expectations may not be captured by the inputs to the model,
3 particularly the assumed growth rate. Because the actual
4 cost of equity is unobservable, and DCF results inherently
5 incorporate a degree of error, the cost of equity estimates
6 for the Non-Utility Group provide an important benchmark in
7 evaluating a fair ROE for Avista. There is no basis to
8 conclude that DCF results for a group of utilities would be
9 inherently more reliable than those for firms in the
10 competitive sector, and the divergence between the DCF
11 estimates for the Utility and Non-Utility Groups suggests
12 that both should be considered to ensure a balanced end-
13 result.

14 **IV. IMPACT OF REGULATORY MECHANISMS**

15 **Q. Does the fact that, starting in January 2016,**
16 **Avista's electric and gas rates in Idaho include an FCA**
17 **warrant any adjustment in your evaluation of a fair ROE?**

18 A. No. Investors recognize that the ability to adjust
19 rates to recover certain costs incurred to provide utility
20 service is universally prevalent in the industry. Such
21 adjustment mechanisms act to level the playing field, placing
22 the Company on equal footing with its peers in the industry.

1 As a result, no adjustment to the ROE is justified or
2 warranted.

3 The Commission's approval of an FCA is supportive of
4 Avista's financial integrity, but there is no evidence to
5 suggest that implementation of these mechanisms has altered
6 the relative risk of Avista enough to warrant any adjustment
7 to its ROE. As noted earlier, the investment community and
8 the major credit rating agencies in particular, pay close
9 attention to the regulatory framework, including various
10 adjustment mechanisms.

11 Based largely on the expanded use of ratemaking
12 mechanisms such as revenue decoupling and cost-recovery
13 riders, Moody's upgraded most regulated utilities in January
14 2014.⁴⁷ Recognizing this industry trend, Moody's premised its
15 assessment of Avista's risks on the expectation that "similar
16 treatment will be afforded to Avista and that the company
17 will have improved cost recovery mechanisms (e.g.,
18 decoupling)."⁴⁸ In other words, the implications of revenue
19 decoupling and other regulatory mechanisms are already fully
20 reflected in Avista's credit ratings, which are comparable to
21 those of the proxy group used to estimate the cost of equity.

⁴⁷ Moody's Investors Service, "US utility sector upgrades driven by stable and transparent regulatory frameworks," *Sector Comment* (Feb. 3, 2014).

⁴⁸ Moody's Investors Service, "Avista Corp.," *Global Credit Research* (Mar. 28, 2014).

1 Thus, while investors would consider the FCA to be supportive
2 of the Company's financial integrity and credit ratings,
3 regulatory mechanisms do not provide a basis to distinguish
4 the risks of Avista from the utilities in my Utility Group.

5 Moreover approval of the FCA does not remove overhanging
6 regulatory risks. Avista remains exposed to future
7 determinations as to the prudence of its expenditures and
8 investments, and investors continue to evaluate expectations
9 for balance in the regulatory framework and in establishing
10 allowed ROEs.

11 **Q. Do the regulatory mechanisms approved for Avista**
12 **set the Company apart from other firms operating in the**
13 **utility industry?**

14 A. No. Adjustment mechanisms and cost trackers have
15 been increasingly prevalent in the utility industry in recent
16 years. In response to the increasing risk sensitivity of
17 investors to uncertainty over fluctuations in costs and the
18 importance of advancing other public interest goals such as
19 reliability, energy conservation, and safety, utilities and
20 their regulators have sought to mitigate some of the cost
21 recovery uncertainty and align the interest of utilities and
22 their customers through a variety of adjustment mechanisms.

23 Reflective of this trend, the companies in the electric
24 and gas utility industries operate under a wide variety of

1 cost adjustment mechanisms, which range from riders to
2 recover bad debt expense and post-retirement employee benefit
3 costs to revenue decoupling and adjustment clauses designed
4 to address rising capital investment outside of a traditional
5 rate case and increasing costs of environmental compliance
6 measures. As Regulatory Research Associates concluded in its
7 most recent review of adjustment clauses, "some form of
8 decoupling is in place in the vast majority of
9 jurisdictions."⁴⁹ Similarly, the majority of gas utilities
10 benefit from revenue decoupling, along with a variety of
11 other provisions that enhance their ability to recover
12 operating and capital costs on a timely basis.⁵⁰ The firms in
13 the Non-Utility Group also have the ability to alter prices
14 in response to rising production costs, with the added
15 flexibility to withdraw from the market altogether. As a
16 result, the mitigation in risks associated with utilities'
17 ability to adjust revenues and attenuate the risk of cost
18 recovery is already reflected in the cost of equity range
19 determined earlier, and no separate adjustment to Avista's
20 ROE is necessary or warranted.

⁴⁹ Regulatory Research Associates, "Adjustment Clauses, A State-by-State Overview," *Regulatory Focus* (Aug. 22, 2016).

⁵⁰ See, e.g., American Gas Association, *Innovative Rates, Non-Volumetric Rates, and Tracking Mechanisms: Current List* (Aug. 2016).

1 **Q. Have you summarized the various tracking mechanisms**
2 **available to the other firms in the Utility Group?**

3 A. Yes. As summarized on Exhibit No. 3, Schedule 12,
4 reflective of industry trends, the companies in the Utility
5 Group operate under a variety of regulatory adjustment
6 mechanisms.⁵¹ For example, fourteen of the firms benefit from
7 some form of revenue decoupling or operate in jurisdictions
8 that allow the use of future test years. Many of these
9 utilities operate under mechanisms that allow for cost
10 recovery of infrastructure investment outside a formal rate
11 proceeding, as well as the ability to implement periodic rate
12 adjustments to reflect changes in a diverse range of
13 operating and capital costs, including expenditures related
14 to environmental mandates, conservation programs,
15 transmission costs, and storm recovery efforts.

16 **Q. Have other regulators recognized that approval of**
17 **adjustment mechanisms do not warrant an adjustment to the**
18 **ROE?**

19 A. Yes. For example, the Staff of the Kansas State
20 Corporation Commission concluded that no ROE adjustment was
21 justified in the case of certain tariff riders because the

⁵¹ Because this information is widely referenced by the investment community, it is also directly relevant to an evaluation of the risks and prospects that determine the cost of equity.

1 impact of similar mechanisms is already accounted for through
2 the use of a proxy group:

3 Those mechanisms differ from company to company and
4 jurisdiction to jurisdiction. Regardless of their
5 nuances, the intent is the same; reduce cash-flow
6 volatility year to year and place recent capital
7 expenditures in rates as quickly as possible.
8 Investors are aware of these mechanisms and their
9 benefits are a factor when investors value those
10 stocks. Thus, any risk reduction associated with
11 these mechanisms is captured in the market data
12 (stock prices) used in Staff's analysis.⁵²

13 Similarly, the mitigation in risks associated with Avista's
14 ability to recover its costs in a more timely manner through
15 various adjustment mechanisms is already reflected in the
16 results of the quantitative methods presented in my
17 testimony.

18 **Q. What does this imply with respect to the evaluation**
19 **of a fair ROE for Avista?**

20 A. While investors would consider Avista's regulatory
21 mechanisms to be supportive of the Company's financial
22 integrity and credit ratings, there is certainly no evidence
23 to suggest that these mechanisms alone have altered Avista's
24 relative risk enough to warrant an ROE adjustment. The
25 purpose of regulatory mechanisms is to better match revenues

⁵² *Direct Testimony Prepared by Adam H. Gatewood, State Corporation Commission of the State of Kansas, Docket No. 12-ATMG-564-RTS, pp. 8-9 (June 8, 2012). This proceeding was ultimately resolved through a stipulated settlement.*

1 to the underlying costs of providing service. This levels
2 the playing field and improves Avista's ability to attract
3 capital and actually earn its authorized ROE, but it does not
4 result in a "windfall" or otherwise penalize customers.
5 Utilities across the U.S. that Avista competes with for new
6 capital are increasingly availing themselves of similar
7 adjustments. As a result, the impact of utilities' ability
8 to mitigate the risk of cost recovery is already reflected in
9 the cost of equity estimates determined in this case, and no
10 separate adjustment to Avista's ROE is necessary or
11 warranted.

12 **Q. Does this conclude your pre-filed direct testimony?**

13 A. Yes.