

**Exh. DCP-1T
Dockets UE-240006/UG-240007
Witness: David C. Parcell**

**BEFORE THE WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

**AVISTA CORPORATION d/b/a
AVISTA UTILITIES,**

Respondent.

**DOCKETS UE-240006
and UG-240007 (*Consolidated*)**

TESTIMONY OF

DAVID C. PARCELL

**ON BEHALF OF THE STAFF OF
WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION**

Cost of Capital

July 3, 2024

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1 I. INTRODUCTION

2

3 **Q. Please state your name and address.**

4 A. My name is David C. Parcell. My address is 2218 Worchester Rd., Midlothian, VA
5 23113.

6

7 **Q. By whom are you employed and in what capacity?**

8 A. I am a Principal and Senior Economist of Technical Associates, Inc.

9

10 **Q. Please state your qualifications to provide testimony in this proceeding**

11 A. I hold B.A. (1969) and M.A. (1970) degrees in economics from Virginia Polytechnic
12 Institute and State University (Virginia Tech) and a M.B.A. (1985) from Virginia
13 Commonwealth University. I have been a consulting economist with Technical
14 Associates since 1970. I have provided cost of capital testimony in public utility
15 ratemaking proceedings dating back to 1972, and I have previously filed testimony and/or
16 testified in over 625 utility proceedings before more than 50 regulatory agencies in the
17 United States and Canada.

18

19 **Q. Have you testified previously before the Commission?**

20 A. Yes. I have previously filed testimony on behalf of the Staff of the Washington Utilities
21 and Transportation Commission (Commission) in several proceedings involving Cascade
22 Natural Gas, Puget Sound Energy and Pacific Power & Light Company, as well as Avista

1 Corporation d/b/a Avista Utilities (Avista). Exh. DCP-2 provides a more complete
2 description of my education and relevant work experience.

3
4 **Q. What is the purpose of your testimony in this proceeding?**

5 A. I have been retained by the Commission Staff to evaluate the cost of capital (COC)
6 aspects of the proposed electric and natural gas Multi-year Rate Plan (MYRP) of Avista.
7 I have performed independent studies and I am making recommendations of the current
8 and prospective COCs for Avista. The Company has proposed a two-year rate plan for
9 the years ended December 31, 2025 and December 31, 2026. Commission Staff is
10 proposing, for the purposes of this proceeding, that a single-year rate plan (December 31,
11 2025) be approved for Avista. As a result, my analyses address the COC for Avista to be
12 applied to the 2025 single-period rate plan. I have also performed COC analyses for the
13 two-year rate plan (2025 and 2026) proposed by Avista in order to provide a relevant set
14 of COCs in the event the Commission chooses to implement a MYRP in this proceeding.

15 In my testimony, I derive COCs for the following three time periods: December
16 31, 2024 (effective date of new rates), December 31, 2025 (Rate Year 1 of Avista MYRP
17 and rate period of Staff single period rate plan), and December 31, 2026 (Rate Year 2 of
18 Avista MYRP).

19
20 **Q. Have you prepared an exhibit in support of your testimony?**

21 A. Yes. In addition to Exh. DCP-2, identified above, I have prepared Exh. DCP-3 through
22 Exh. DCP-16. These exhibits were prepared by me. The information contained in these

1 exhibits is correct to the best of my knowledge and belief. In addition, Exh. DCP-17 and
2 DCP-18 are Avista responses to certain Staff Data Requests.

3
4 **II. RECOMMENDATIONS AND SUMMARY**

5
6 **Q. What are your COC recommendations in this proceeding?**

7 A. My overall COC recommendations for Avista are shown in Exh. DCP-3 and can be
8 summarized as follows:

9

<u>Item</u>	<u>Percent</u>	<u>Cost</u>	<u>Weighted Cost</u>
<u>December 31, 2024</u>			
Short-Term Debt	1.92%	6.588%	0.13%
Long-Term Debt	49.58%	4.93%	2.44%
Common Equity	48.50%	9.50%	4.61%
Total	100.0%		7.18%
<u>December 31, 2025</u>			
Short-Term Debt	1.88%	5.58%	0.10%
Long-Term Debt	49.62%	4.96%	2.46%
Common Equity	48.50%	9.50%	4.61%
Total	100.0%		7.17%
<u>December 31, 2026</u>			
Short-Term Debt	1.80%	5.343%	0.10%
Long-Term Debt	49.70%	4.99%	2.48%
Common Equity	48.50%	9.50%	4.61%
Total	100.0%		7.19%

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17 Avista's application requests a COC of 7.61 percent and a cost of equity (ROE) of
18 10.40 percent for the first year of its MYRP ending December 31, 2025,¹ which is also
19 applied to the second year of its MYRP (December 31, 2026). I note that I develop
20 individual COCs for each year of the MYRP whereas Avista is requesting a single COC,
21 as of December 31, 2025, for its proposed two-year MYRP.

22
¹ Christie, Exh. KJC-1T at 2:24-28 and 14:12-18 (Table No. 2).

1 **Q. Please summarize your analyses and conclusions.**

2 A. This proceeding is concerned with Avista's regulated electric utility and natural gas
3 operations in Washington. My analyses concern the Company's COCs. As noted in a
4 later section of my testimony, Avista performs its electric and natural gas operations in
5 Washington, and all other states except Alaska, through its Avista Utilities division.
6 Avista Utilities is not a distinct corporate entity and does not have its own financial
7 statements and capital structure. Avista has traditionally used its corporate structure,
8 exclusive of its Alaska operations, to establish rates in Washington. In addition, it has
9 not distinguished between its electric and natural gas operations from a COC perspective.
10 I have followed this tradition in my analyses and thus focus on Avista's capitalization and
11 a single annual COC and ROE for both its electric and natural gas operations.

12 The first step in performing my COC analyses is to develop the appropriate
13 capital structure. Avista proposes use of a capital structure comprised of 48.5 percent
14 common equity and 51.5 percent debt,² which is the same capital structure approved by
15 the Commission in recent rate proceedings. I also use the 48.5 percent common equity
16 ratio from these previously adopted capital structures,³ which remains the proper capital
17 structure for the Company. In contrast to Avista, I include short-term debt as a separate
18 component in the capital structure. As noted previously, I develop a capital structure and
19 COC for Avista for the periods December 31, 2024, December 31, 2025, and December
20 31, 2026.

² *Id.*

³ My COC analyses separate the short-term debt and long-term debt components. Avista includes the cost of short-term debt in its proposed cost of debt.

1 The second step in a COC calculation is to determine the embedded cost rates of
 2 debt. Avista proposes use of a 4.99 percent cost of debt (this includes both the costs of
 3 long-term debt and short-term debt), which is an estimated cost rate as of December 31,
 4 2025.⁴ In my analyses, I have utilized separate costs for long-term debt and short-term
 5 debt. In addition, I use separate costs of debt for each of the two years contained in the
 6 proposed MYRP. As shown on Exh. DCP-3, I have derived the cost of long-term debt
 7 from the responses to Staff DR-027 and the information contained in Exh. KJC-2, which
 8 is 4.93 percent for December 31, 2024, 4.96 percent for December 31, 2025, and 4.99
 9 percent for December 31, 2026. I have accepted the Company’s costs of short-term debt,
 10 as shown on the same above-cited sources, which is 6.588 percent for December 31,
 11 2024, 5.58 percent for December 31, 2025 and 5.343 percent for December 31, 2026.

12 The third step in the COC calculation is to estimate the ROE. I employ four
 13 recognized methodologies to estimate Avista’s ROE, each of which I apply to a proxy
 14 group of utilities. These four methodologies and my findings are:

Methodology	Range
Discounted Cash Flow (DCF)	9.0%-10.0% (9.5% mid-point)
Capital Asset Pricing Model (CAPM)	10.70% (10.70% mid-point)
Comparable Earnings (CE)	9.0%-9.5% (9.25% mid-point)
Risk Premium (RP)	9.8%-10.8% (10.3% mid-point)

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 16
 17
 18
 19 Based upon these findings, I conclude that Avista’s ROE is within a range of 9.5
 20 percent to 10.0 percent. This range is supported collectively by the results of all of the
 21 methodologies except for CAPM, which is currently an outlier due to Federal Reserve
 22 policy to contain the rate of inflation, which has raised the yields on US Treasury bonds

⁴ Christie, Exh. KJC-1T at 14:12-18 (Table No. 2).

1 (the risk-free rate component in the CAPM formula). I further conclude that a reasonable
2 ROE for Avista is 9.5 percent, the low end of my ROE range, in order to recognize the
3 risk-reducing attributes of the MYRP recognized in SB 5295, as well as the
4 Commission's long-standing principle of gradualism. As I note later, Staff's proposal in
5 this proceeding to adopt a single-period rate plan is not intended to impact the on-going
6 use of MYRPs but rather is a means to provide a more reasonable scheduling system
7 where Avista and Puget Sound Energy (PSE) file their respective MYRPs in alternate
8 years. As a result, the fact that Staff is proposing use of a single-year rate plan in this
9 proceeding and the Company will have the opportunity to propose a MYRP in the near
10 future (and thereby placing the respective filing periods of Avista and PSE in alternate
11 years), does not have the on-going effect of reducing the benefits of the MYRP concept.
12 I recommend the same 9.5 percent ROE for each year of the MYRP (if it is adopted by
13 the Commission in this proceeding), as well as for both Avista's electric utility and
14 natural gas operations.

16 III. ECONOMIC/LEGAL PRINCIPLES AND METHODOLOGIES

17
18 **Q. What are the primary economic and legal principles that establish the standards for**
19 **determining a fair rate of return for a regulated utility?**

20 A. Public utility rates are normally established in a manner designed to allow the recovery of
21 their costs, including capital costs. This is frequently referred to as "cost of service"
22 ratemaking. Rates for regulated public utilities traditionally have been primarily
23 established using the "rate base, rate of return" concept. Under this method, utilities are

1 allowed to recover a level of operating expenses, taxes, and depreciation deemed
2 reasonable for rate-setting purposes, and are granted an opportunity to earn a fair rate of
3 return on the assets utilized (i.e., rate base) in providing service to their customers.

4 The rate base is derived from the asset side of the utility's balance sheet as a
5 dollar amount and the rate of return is developed from the liabilities/owners' equity side
6 of the balance sheet as a percentage. Thus, the revenue impact of the COC is derived by
7 multiplying the rate base by the rate of return, including income taxes.

8 The rate of return is developed from the COC, which is estimated by weighting
9 the capital structure components (debt and common equity) by their percentages in the
10 capital structure and multiplying these values by their cost rates. This is also known as
11 the weighted cost of capital.

12 Technically, "fair rate of return" is a legal and accounting concept that refers to an
13 *ex post* (after the fact) earned return on an asset base, while the COC is an economic and
14 financial concept which refers to an *ex ante* (before the fact) expected, or required, return
15 on a capital base. In regulatory proceedings, however, the two terms are often used
16 interchangeably, and I have equated the two concepts in my testimony.

17 From an economic standpoint, a fair rate of return is normally interpreted to mean
18 that an efficient and economically managed utility will be able to maintain its financial
19 integrity, attract capital, and have an opportunity to earn comparable returns for similar
20 risk investments. These concepts are derived from economic and financial theory and are
21 generally implemented using financial models and economic concepts.

22 Although I am not a lawyer and I do not offer a legal opinion, my testimony is
23 based on my understanding that two United States Supreme Court decisions provide the

1 controlling standards for a fair rate of return. The first decision is *Bluefield Water Works*
2 *and Improvement Co. v. Public Serv. Comm'n of West Virginia*, 262 U.S. 679 (1923). In
3 this decision, the court stated:

4 The annual rate that will constitute just compensation depends upon many
5 circumstances and must be determined by the exercise of fair and
6 enlightened judgment, having regard to all relevant facts. A public utility
7 is entitled to such rates as will permit it to earn a return on the value of the
8 property which it employs for the convenience of the public equal to that
9 generally being made at the same time and in the same general part of the
10 country on investments in other business undertakings which are attended
11 by corresponding risks and uncertainties; but it has no constitutional right
12 to profits such as are realized or anticipated in highly profitable enterprises
13 or speculative ventures. The return should be reasonably sufficient to
14 assure confidence in the financial soundness of the utility, and should be
15 adequate, under efficient and economical management, to maintain and
16 support its credit and enable it to raise the money necessary for the proper
17 discharge of its public duties. A rate of return may be reasonable at one
18 time and become too high or too low by changes affecting opportunities
19 for investment, the money market, and business conditions generally.

20 It is generally understood that the *Bluefield* decision established the following
21 standards for a fair rate of return: comparable earnings, financial integrity, and capital
22 attraction. It also noted that required returns change over time, and there is an underlying
23 assumption that the utility be operated efficiently.

24 The second decision is *Federal Power Comm'n v. Hope Natural Gas Co.*, 320
25 U.S. 591 (1942). In that decision, the Court stated:

26 The rate-making process under the [Natural Gas] Act, i.e., the fixing of
27 'just and reasonable' rates, involves a balancing of the investor and
28 consumer interests . . . From the investor or company point of view it is
29 important that there be enough revenue not only for operating expenses
30 but also for the capital costs of the business. These include service on the
31 debt and dividends on the stock. By this standard the return to the equity
32 owner should be commensurate with returns on investments in other
33 enterprises having corresponding risks. That return, moreover, should be
34 sufficient to assure confidence in the financial integrity of the enterprise,
35 so as to maintain its credit and to attract capital.

1 The three economic and financial parameters in the *Bluefield* and *Hope* decisions
2 – comparable earnings, financial integrity, and capital attraction – reflect the economic
3 criteria encompassed in the “opportunity cost” principle of economics. The opportunity
4 cost principle provides that a utility and its investors should be afforded an opportunity
5 (not a guarantee) to earn a return commensurate with returns they could expect to achieve
6 on investments of similar risk. The opportunity cost principle is consistent with the
7 fundamental premise on which regulation rests, namely, that it is intended to act as a
8 surrogate for competition.

9
10 **Q. How can the *Bluefield* and *Hope* parameters be employed to estimate the COC for a
11 utility?**

12 A. Neither the courts nor economic/financial theory has developed exact and mechanical
13 procedures for precisely determining the COC. This is the case because the COC is an
14 opportunity cost and is prospective looking, which dictates that it must be estimated.
15 However, there are several useful models that can be employed to assist in estimating the
16 ROE, which is the capital structure item that is the most difficult to determine. These
17 include the DCF, CAPM, CE and RP methods. Each of these methodologies will be
18 described in more detail later in my testimony.

19
20 **IV. GENERAL ECONOMIC CONDITIONS**

21
22 **Q. Are economic and financial conditions important in determining the COC for a
23 public utility?**

1 A. Yes. The COCs for both fixed-cost (*e.g.*, debt) components and common equity are
2 determined in part by current and prospective economic and financial conditions. At any
3 given time, each of the following factors has an influence on the COC:

- 4 • The level of economic activity (i.e., growth rate of the economy);
- 5 • The stage of the business cycle (i.e., recession, expansion, or transition);
- 6 • The level and trend of inflation;
- 7 • The level and trend of interest rates; and,
- 8 • Current and expected economic conditions.

9
10 This position is consistent with the *Bluefield* decision, which noted “[a] rate of
11 return may be reasonable at one time and become too high or too low by changes
12 affecting opportunities for investment, the money market, and business conditions
13 generally.”⁵

14

15 **Q. What indicators of economic and financial activity did you evaluate in your**
16 **analyses?**

17 A. I examined several sets of economic and financial statistics from 1975 to the present. I
18 chose this time period because it permits the evaluation of economic conditions over five
19 full business cycles, allowing for an assessment of changes in long-term trends.
20 Consideration of economic/financial conditions over a relatively long period of time
21 permits an assessment of how such conditions have impacted the level and trends of the
22 COC. This period also approximates the beginning and continuation of active rate case
23 activities by public utilities that generally began in the mid-1970s.

24 A business cycle is commonly defined as a complete period of expansion
25 (recovery and growth) and contraction (recession). A full business cycle is a useful and

⁵ *Bluefield*, 262 U.S. at 693.

1 convenient period over which to measure levels and trends in long-term capital costs
2 because it incorporates the cyclical (stage of current business cycle), as well as cycle-to-
3 cycle characteristics and, thus, permits an evaluation of structural (or long-term) trends.
4

5 **Q. Please describe the time frames of the five prior business cycles and the beginning of**
6 **the current cycle.**

7 A. The five prior complete cycles and current cycle cover the following periods:

<u>Business Cycle</u>	<u>Expansion Period</u>	<u>Contraction Period</u>
1975-1982	Mar. 1975-July 1981	Aug. 1981-Oct. 1982
1982-1991	Nov. 1982-July 1990	Aug. 1990-Mar. 1991
1991-2001	Mar. 1991-Mar. 2001	Apr. 2001-Nov. 2001
2001-2009	Nov. 2001-Nov. 2007	Dec. 2007-June 2009
2009-2020	July 2009-Feb. 2020	Mar. 2020-Apr. 2020
Current	May 2020 -	

12 Source: The National Bureau of Economic Research, "U.S. Business Cycle Expansions and Contractions."⁶

13 **Q. Please describe how you have examined recent and current economic and financial**
14 **conditions and their impact on the COC.**

15 A. Exh. DCP-4 shows several sets of relevant economic and financial statistics for the cited
16 time periods. Page 1 contains general macroeconomic statistics, page 2 shows interest
17 rates, and page 3 contains equity market statistics.

18
19 **Q. Do you have any general observations concerning the recent trends in economic**
20 **conditions and their impact on capital costs over this broad period?**

⁶ "US Business Cycle Expansions and Contractions," NBER (March 14, 2023)
<http://www.nber.org/cycles/cyclesmain.html>.

1 A. Yes, I do. From the early 1980s until the end of 2007, the U.S. economy enjoyed general
 2 prosperity and stability. This period was characterized by longer economic expansions,
 3 relatively tame contractions, low and declining inflation, and declining interest rates and
 4 other capital costs.

5 The economic/financial data shown on Exh. DCP-4 indicates the following
 6 averages for the cited business cycles:

Cycle ⁷	No. of Months		Real GDP Growth	CPI ⁸	A-Rated Utilities Bond Yield
	Exp.	Rec.			
1975-1982	77	15	2.1%	8.3%	11.62%
1983-1991	93	8	3.2%	3.9%	11.04%
1992-2001	121	8	3.6%	2.5%	7.85%
2002-2009	73	19	1.7%	2.6%	6.31%
2010-2020	127	2	1.9%	1.7%	4.22%

11
 12 This indicates that the most recent business cycle, while having a longer-than-
 13 normal expansion period, experienced a lower average annual growth rate of Gross
 14 Domestic Product (GDP) in comparison to the prior cycles. This cycle also experienced
 15 the shortest recession period. In addition, both the rate of inflation and yields on utility
 16 bonds declined significantly over the most recent three business cycles. This is further
 17 indicative of a declining cost of equity capital, as is reflected in declining authorized
 18 ROEs for regulated electric and natural gas utilities:

19

⁷ Annual periods corresponding to the respective business cycle periods.
⁸ Consumer Price Index (CPI).

Authorized Returns on Equity ⁹					
		Electric		Natural Gas	
	Year	Average	Median	Average	Median
1	2007	10.32%	10.23%	10.22%	10.20%
2	2008	10.37%	10.30%	10.39%	10.45%
3	2009	10.52%	10.50%	10.22%	10.26%
4	2010	10.29%	10.26%	10.15%	10.10%
5	2011	10.19%	10.14%	9.91%	10.05%
6	2012	10.02%	10.00%	9.93%	10.00%
7	2013	9.82%	9.82%	9.68%	9.72%
8	2014	9.76%	9.75%	9.78%	9.78%
9	2015	9.60%	9.53%	9.60%	9.68%
10	2016	9.60%	9.60%	9.53%	9.50%
11	2017	9.68%	9.60%	9.73%	9.60%
12	2018	9.56%	9.58%	9.59%	9.60%
13	2019	9.65%	9.65%	9.73%	9.73%
14	2020	9.39%	9.48%	9.47%	9.44%
15	2021	9.39%	9.50%	9.56%	9.60%
16	2022	9.58%	9.53%	9.53%	9.60%
17	2023	9.66%	9.60%	9.60%	9.55%

12 **Q. Please describe the two most recent business cycles and their impact on the COC for**
13 **utilities and other enterprises.**

14 A. Since 2008, there have been three significant economic events which impacted capital
15 costs. First, in 2008 and 2009, the U.S. economy declined significantly, initially as a
16 result of the 2007 collapse of the “sub-prime” mortgage market and the related liquidity
17 crisis in the financial sector of the economy and followed by a significant decline in most
18 sectors of the U.S. and global economies. This decline has been described as the worst
19 financial crisis since the Great Depression of the 1930s and has been referred to as the
20 “Great Recession.” This was both a substantial (in terms of GDP decline) and longer-
21 lasting recession that resulted in unprecedented Federal Reserve System (Federal
22 Reserve) and other governmental actions to stimulate the economy. These actions

⁹ See S&P Global Market Intelligence: “Regulatory Focus.” Data for electric and natural gas general rate cases.

1 included the Federal Reserve’s maintenance of the “Fed Funds Rate” at a near-zero level
2 and the purchase of longer-term U.S. Treasury securities¹⁰ in an effort to stimulate the
3 economy through increasing the money supply and lowering interest rates on federal
4 debt.

5 Second, in the first quarter of 2020, the U.S. economy entered another recession.
6 This was largely driven by the Coronavirus Disease 2019 (COVID-19) pandemic and the
7 result that the economic and financial consequences of this serious health crisis created a
8 recession as nations, including the U.S., instituted significant travel, social, and
9 commercial restrictions designed to slow the spread of COVID-19. Beginning in March
10 and lasting into June of 2020, much of the world and U.S. were in “lock down” as a
11 significant portion of both businesses and governments operated under restrictive
12 conditions in some instances and remained closed in other instances. In addition, the
13 U.S. federal government instituted two multi-trillion-dollar stimulus programs (i.e., the
14 CARES Act in 2020 and the American Relief Act in 2021) to aid businesses, individuals,
15 and state/local governments during this crisis. Further, the Federal Reserve implemented
16 several financial and stimulus tools to help maintain the U.S. financial system, again
17 through the maintenance of a near-zero Fed Funds Rate and the purchase of U.S.
18 Treasury securities. As before, the purpose and effect of the Federal Reserve actions
19 were the maintenance of lower interest rates on federal debt to stimulate the economy.

¹⁰ A process known as Quantitative Easing (QE). The Federal Reserve implemented three QDE programs following the financial crisis of 2007-2008 (QE 1 through QE 3) and one additional time (QE 4) during the COVID-19 pandemic/recession. *See. e.g.*, <https://americandeposits.com>.

1 **Q. What have been the most significant economic factor subsequent to the COVID-19**
2 **pandemic and related economic and financial developments?**

3 A. It is evident that the “driving force” of economic and financial developments over the
4 past three years has been the rate of inflation. As noted previously, the rate of inflation
5 (e.g., Consumer Price Index (CPI)) had been relatively low by recent historic standards
6 since the Great Recession and COVID-19 pandemic occurred. Between early 2021 and
7 the middle of 2022, on the other hand, the inflation rate increased. Initially, it was
8 generally believed that the increase in the inflation rate was related to the impacts of
9 COVID-19 (e.g., “transition” and “supply chain” effects resulting from the economic
10 effects of the COVID-19 pandemic), and the ongoing impact of the Russia-Ukraine
11 conflict.¹¹ It appears that policymakers (Federal Reserve) initially believed the initial
12 increase in inflation in 2021 was “transitory” and chose not to react to inflation but
13 instead left existing monetary policy and fiscal stimulus in place to guard against the
14 economic recovery becoming derailed by the ongoing threat of the pandemic.¹² As
15 inflation became more widespread in 2021 and 2022, however, the Federal Reserve
16 reversed this position and turned its attention to containing the rate of inflation.
17 Beginning in 2022, the Federal Reserve increased the Fed Funds rate several times in an
18 apparently successful effort to combat the rate of inflation. This had a somewhat
19 significant impact on short-term interest rates and also impacted longer-term interest
20 rates, as is shown on page 2 of Exhibit DCP-4.

¹¹ See, e.g., “Inflation in the U.S. Economy: Causes and Policy Options”, Congressional Research Service, (October 6, 2022), <https://crsreports.congress.gov>.

¹² Id.

1 The rate of inflation peaked in mid-2022 (e.g., the “year to year” CPI reached 9.1
2 percent in June of 2022). Since that time, the CPI has declined to a level of about 3
3 percent.¹³ It is noteworthy that “consensus” forecasts of inflation as of mid-2022 were
4 about 2.6 percent, indicating an expectation at that time that the 9 percent inflation would
5 not prevail.¹⁴ I also note that the more recent “consensus” forecasts of inflation are about
6 2.2 percent.¹⁵

7
8 **Q. How have recent inflation trends impacted the level of interest rates?**

9 A. Interest rates have increased over the past two years, largely as a result of the Federal
10 Reserve’s previously mentioned efforts to reign in the increase in the inflation rate. Since
11 the beginning of 2022, the Federal Reserve increased the Fed Funds rate several times in
12 an aggressive effort to tame the rate of inflation. The result of this has been a somewhat
13 significant increase in short-term interest rates, as shown on page 2 of Exh. DCP-4.
14 Long-term interest rates have also increased, although not to the same extent as the
15 increase in short-term rates.

16 It is noteworthy, as also shown on Exh. DCP-4, that the recent and current
17 relationship between short-term and long-term interest rates (i.e., short-term rates are
18 higher) is contrary to the “normal” relationship (i.e., short-term rates are normally lower).
19 This is referred to as an “inverted yield curve” and reflects expectations by investors that
20 interest rates are expected to decline. In fact, rates peaked in October of 2023 and

¹³ See “Economic Indicators,” Council of Economic Advisors, U.S. Government Printing Office, June 2023 and June 2024.

¹⁴ See Blue Chip Financial Forecasts, June 1, 2022.

¹⁵ See Blue Chip Financial Forecasts, April 1, 2024.

1 declined in November and December of 2023, in line with an expectation that the Federal
2 Reserve's increases in the Fed Funds rate is over.¹⁶ The Federal Reserve has not
3 increased the Fed Funds rate since mid-2023.

4
5 **Q. Do current capital market conditions reflect the impact of recent increases in the**
6 **rate of inflation and certain interest rates?**

7 A. Yes, they do. Security markets (e.g., stock market prices) reflect the collective impact of
8 investors' perceptions of all relevant information.¹⁷ As a result, any perceived impacts of
9 inflation and interest rates are already incorporated in stock and other security prices and,
10 as a result, an analysis of the current COC (using market-based methodologies such as
11 DCF, RP, and my version of CE) incorporates these factors.

12
13 **V. AVISTA'S OPERATIONS AND RISKS**

14
15 **Q. Please summarize Avista and its operations.**

16 A. Avista, formerly known as Washington Water Power, is a public utility that generates and
17 delivers electricity and natural gas through its generation, transmission, and distribution
18 systems to customers in Washington, Oregon, Idaho, Alaska and a small portion of
19 Montana.

20 Avista, in its present form, is a public utility that operates two reportable business
21 segments:¹⁸

¹⁶ The Federal Reserve has indicated that its monetary policies will not result in any additional increases in interest rates and that some reductions may occur in 2024.

¹⁷ This is known as the Efficient Market Hypothesis (EMH).

¹⁸ Avista Corp., 2023 Form 10-K at 6 and 8.

- Avista Utilities – an operating division of Avista that delivers electricity (approximately 416,000 customers) and natural gas (approximately 381,000 customers) in Washington, Oregon, Idaho, and Montana; and,
- Alaska Electric Light & Power (AEL&P) – a subsidiary of Avista (acquired July 1, 2014), which is an electric utility located in Juneau, Alaska. AEL&P is a direct subsidiary of Alaska Energy and Resources Co. (AERC) which, in turn, is owned by Avista.

Avista’s other businesses include venture fund investments, real estate investments, as well as certain other investments of Avista Capital, which is a direct, wholly owned subsidiary of Avista. These activities do not represent a reportable business segment and are conducted by various direct and indirect subsidiaries of Avista Corp.¹⁹ The Avista Utilities segment accounts for the vast majority of Avista’s operations, as it accounted for about 98 percent of Avista’s 2023 net income.²⁰

Q. What are the current security ratings of Avista?

A. The present long-term debt ratings of Avista are shown on Exh. DCP-5 and are as follows:

	<u>Secured</u>	<u>Corp./Issuer</u>
Moody’s	A3	Baa2
Standard & Poor’s	A-	BBB

¹⁹ *Id.* at 6.

²⁰ *Id.* at 132.

1 **Q. What have been the trends in Avista’s bond ratings?**

2 A. This is also shown on Exh. DCP-5. As this indicates, Avista’s current ratings by
3 Standard & Poor’s (S&P) have remained the same throughout the period 2013 to the
4 present. The ratings by Moody’s are currently the same as they were in 2013. Moody’s
5 ratings were increased by a “notch” (from Baa2 to Baa1) in 2014, and were reduced by a
6 “notch” (from Baa1 to Baa2) in 2018.

7
8 **Q. How do the bond ratings of Avista compare to other electric and combination
9 gas/electric utilities?**

10 A. Avista’s ratings are generally similar to most electric utilities in the U.S. This is
11 evidenced by the relative Moody’s and Standard & Poor’s debt ratings, as shown on my
12 Exh. DCP-8, which indicates that Avista’s ratings are generally similar to those of the
13 group of proxy utilities used to develop the ROE recommendations in my testimony.
14 Avista’s ratings are also generally similar to the ratings of the electric group utilized by
15 Company witness McKenzie (also shown on Exh. DCP-8).

16
17 **Q. Please briefly describe the “recent legislation in Washington” and explain how this
18 impacts the risks and costs of capital for Avista and other utilities.**

19 A. In May of 2021, the Washington legislature passed SB 5295,²¹ which:
20

- Requires a gas or electric company (utilities) to pursue MYRPs that set rates and
21 align cost recovery for several years at a time;

²¹ The full title of SB 5295 is as follows: “An act relating to transforming the regulation of gas and electrical companies toward multiyear rate plans and performance-based rate making.”

- 1 • Allows the Commission to set performance measures to assess a utility under the
2 MYRP;
- 3 • Allows utilities to expand bill assistance programs and to invest in programs that
4 achieve energy conservation and improve the energy efficiency of single-family
5 and multifamily rental housing; and,
- 6 • Allows utilities to provide financial assistance to organizations who represent
7 highly impacted communities and vulnerable populations in regulatory
8 proceedings.

9 This legislation provides the impetus for the two-year Rate Plan that forms the
10 basis for Avista’s current applications. This is the second MYRP submitted by Avista;
11 the first MYRP was submitted and approved by the Commission in 2022 for the rate
12 years 2022 and 2023.²²

13 SB 5295 is largely beneficial to Washington utilities, including Avista, as it
14 provides a more stable regulatory and financial environment. In this regard, Moody’s
15 stated, after the passage of the legislation but before the implementation of any MYRPs:

16 On 3 May 2021, Washington State Governor Jay Inslee signed into law a
17 senate bill (SB 5295) aimed at reforming the regulatory framework for
18 utilities in the state by paving the way for multi-year rate plans (MYRP)
19 and performance based ratemaking (PBR). The bill could enhance the
20 consistency and predictability of utility regulation and provides credit
21 positive opportunities for Washington’s utilities, including Puget Energy
22 Inc’s (Puget, Baa3, stable) primary subsidiary Puget Sound Energy, Inc.
23 (PSE, Baa1, stable) and Avista Corp. (Avista, Baa2, stable), to reduce
24 regulatory lag and earn returns closer to their authorized returns on equity
25 (ROE). However, improved regulatory and financial outcomes for these
26 utilities remain subject to the bill’s implementation by the Washington
27 Utilities and Transportation Commission (WUTC), the state’s utility
28 regulator.
29

²² *Wash. Util. Transp. Comm’n v. Avista Corp. d/b/a Avista Utilities*, Dockets UE-220053 & UG-220054, Final Order 10/04 (Dec. 12, 2022).

1 The bill requires the WUTC to develop, in collaboration with utilities and
2 other interested stakeholders, a policy statement on alternatives to
3 traditional cost of service rate making, including performance measures,
4 incentives, and penalty mechanisms. The WUTC must provide an update
5 to the relevant legislative committees by 1 January 2022.
6

7 Importantly, beginning 1 January 2022, utilities are required to include a
8 proposal for a MTRP between two and four years in length in every
9 general rate case filing. The bill allows for property that is deemed used
10 and useful as of the rate effective date of the first year of a MYRP to be
11 included in rate base, with the remainder of the rate plan based on
12 forecasted information. This would be a material improvement over the
13 historical test year currently used by utilities in rate cases and help reduce
14 regulatory lag, a credit positive. The terms approved by the WUTC for
15 the first two years of a MYRP are binding, but utilities must update power
16 costs at the beginning of the third year and may file a new multi-year rate
17 plan for the third and fourth rate year, if applicable. In addition, if a utility
18 earns a rate of return 50 basis points higher than authorized, excess
19 revenues must be deferred for customer refund or other uses as determined
20 by the WUTC in a subsequent proceeding.
21

22
23 This new law follows Washington’s Clean Energy Transformation Act
24 (CETA), signed into law in May 2019, that requires utilities to eliminate
25 coal-fired electricity by 2025 and commits to a carbon free electricity
26 supply by 2045. While the CETA also clarified the WUTC’s authority to
27 consider and implement various constructive regulatory mechanisms
28 including MYRPs and PBR regulation, SB 5295 provides more
29 enforceable guidance. We view the PBR construct as credit positive
30 because MYRPs with performance targets and the potential to earn
31 performance incentives will not only work to reduce regulatory lag, but
32 also aid PSE’s and Avista’s renewable transition, improve operational
33 efficiency and enhance cash flow and profitability, all while considering
34 customer cost and service.²³
35

36 It is apparent from these statements that Moody’s considers the recent regulatory
37 mechanisms to be credit supportive, and therefore risk reducing for Washington electric
38 and natural gas utilities.
39

²³ Moody’s Investors Service, Issuer Comment (10 May 2021) (“Puget Sound Energy Inc. and Avista Corp. Legislation supporting multi-year rate plans has positive credit implications for Washington’s investor-owned utilities.”) (provided in Dockets UE-220053 & UG-220054, Staff-109).

1 **Q. Have Moody’s and S&P commented specifically on Avista’s expected impact from**
2 **SB 5295?**

3 A. Yes. Moody’s also stated the following in a report on Avista in 2021 (i.e., before the
4 implementation of its first MYRP):

5 The recently passed SB 5295 (enacted on 3 May 2021) followed the clean
6 energy bill and aims at reforming the regulatory framework for utilities in
7 the state by paving the way for multiyear rate plans (MYRP) and
8 performance based ratemaking (PBR). We view the bill as credit positive
9 as it could enhance the consistency and predictability of utility regulation.
10 Specifically, we view the PBR construct as a credit supportive rate making
11 mechanism because MYRPs with performance targets and the potential to
12 earn performance incentives will work to reduce regulatory lag. It could
13 also aid Avista’s renewable transition, improve operational efficiency and
14 enhance cash flow and profitability, all while considering customer cost
15 and service.²⁴

16
17 S&P issued similar analyses and statements in 2021:

18 Business Risk: Strong

19 Avista’s business risk profile reflects its low risk, regulated electric and
20 gas utility operations, which contribute more than 95% of the company’s
21 EBITA. Our assessment also reflects the company’s diverse geographic
22 footprint, with regulated operations across five different states, despite
23 Washington and Idaho accounting for over 90% of its rate base.

24
25 Due to legislation (SB 2595) passed in Washington in May 2021, Avista is
26 now required to file multi-year rate cases of two to four years, it’s
27 permitted to submit out-of-cycle rate cases if the utility underearns. In
28 addition, over 90% of Avista’s utility revenue is covered by regulatory
29 mechanisms. In Washington the company has access to an energy
30 recovery mechanism. This is a regulatory construct that allows Avista to
31 track certain differences in its net power supply costs compared to the
32 costs included in base retail rates and allows the utility to true up these
33 amounts periodically.... Furthermore, Avista benefits from decoupling
34 mechanisms in Washington, Idaho, and Oregon, which provide some
35 downside protection from reduced sales volumes.²⁵

24 *Avista Corp., Update to credit analysis*, Moody’s Investors Service, Credit Opinion, (Aug. 10, 2021) (provided in Docket No. UE-200053/UG-220054, Staff-DR-007 Attachment C).

25 *RatingsDirect, Avista Corp*, S&P Global Ratings (Aug. 5, 2021) (provided in Docket No. UE-200053/UG-220054 Staff-DR-007, Attachment F).

1 **Q. Have Moody's and S&P more recently commented on SB 5295 and its MYRP**
2 **provisions?**

3 A. Yes. Since the initial implementation of the provisions of SB 5295, including the
4 MYRPs, Moody's has commented further on the risk-reducing aspects of these and other
5 favorable regulatory mechanisms available to Avista. Moody's stated the following in a
6 recent report on Avista:

7 **Credit supportive regulatory jurisdictions with adequate track record**
8 **of cost recovery Washington**
9

10 We view Avista's regulatory jurisdictions to be generally credit
11 supportive. The Washington Utilities and Transportation Commission
12 (WUTC), which regulates roughly 60% of the company's rate base and
13 revenue, allows electric and gas decoupling mechanisms which provide
14 for timely recovery of fixed utility costs and stable gross margins in the
15 face of declining use. Even so, the use of historic test years has resulted in
16 some regulatory lag, which has impacted cash flow recovery over the
17 years and requires Avista to file frequent general rate cases.
18

19 Avista's last Washington electric and natural gas general rate case (filed
20 January 2022) resulted in a multiparty settlement that was approved by the
21 WUTC in December 2022. The two year rate plan included an electric
22 revenue increase of \$38 million (6.9%) effective December 2022 and a
23 \$12.5 million (2.1%) increase effective December 2023. For natural gas,
24 the settlement included a \$7.5 million (6.5%) increase in December 2022
25 and a \$1.5 million (1.2%) increase in December 2023. The parties agreed
26 to a 7.03% rate of return on rate base with all other aspects, such as the
27 ROE and capital structure, not made public. We view this outcome as
28 credit supportive and a driver of Avista's improved credit metrics in 2023.
29

30 Nevertheless, the lag in cash flow recovery and limited revenue increases
31 have pressured Avista's credit metrics particularly during a time when the
32 sector faced material headwinds from higher natural gas prices and other
33 cost pressures. However, Avista settling its last three general rate cases
34 including the 2022 general rate case discussed above, which as the first
35 multiyear rate plan approved following the passage of SB 5295. We view
36 this as evidence of an improved relationship with the WUTC and
37 demonstrates a trend of more consistent regulation in the State of
38 Washington.
39

1 We expect the company to continue to receive supportive regulatory
2 outcomes consistent with the state passage of SB 5116 and SB 5295 in
3 2019 and 2021, respectively. The bills aimed to reform the regulatory
4 framework and pave the way for multiyear rate plans and performance
5 based ratemaking. We discuss more details on SB 5116 in “Washington
6 approves clean energy bill, a credit positive for investor-owned utilities”
7 (16 May 2019) and on SB 5295 in “Legislation supporting multiyear rate
8 plans has credit positive implications for Washington’s investor owned
9 utilities” (10 May 2021).²⁶

10
11 In addition, S&P made the following comments in a recent report on Avista:

12 Over 90% of Avista’s utility revenue is covered by regulatory
13 mechanisms. In Washington, the company has access to an energy
14 recovery mechanism. This is a regulatory construct that allows Avista to
15 track certain differences in its net power supply costs compared to the
16 costs included in base retail rates and allows the utility to true-up these
17 amounts periodically. Similarly, the company has access to a power cost
18 adjustment mechanism in Idaho, which allows for the deferral of 90% of
19 its energy cost differences for future recovery. On the gas side, a
20 purchased gas adjustment mechanism is available in all its jurisdictions,
21 which allows the company to mitigate the risk of fluctuating gas prices.
22 Furthermore, Avista benefits from decoupling mechanisms in Washington,
23 Idaho, and Oregon, which provide some downside protection from
24 reduced sales volumes. Partially offsetting is the company’s exposure to
25 physical risk, and that the company potentially faces energy transition
26 risks that must be managed.²⁷

27
28 It is correspondingly clear that Moody’s and S&P continue to regard the recent
29 legislation, as well as other favorable regulatory mechanisms, as risk-reducing to Avista.

30
31 **Q. What impact does this legislation and other mechanisms have on Avista and its**
32 **ROE in this proceeding?**

²⁶ *Avista Corp., Update to Credit Analysis*, Moody’s Investors Service, Credit Opinion (Aug. 16 2023) (provided in Avista’s Response to Staff’s Data Request 10).

²⁷ *Ratings Direct, Avista Corp., Ratings Score Snapshot*, S&P Global Ratings (Dec. 8, 2023) (provided in Avista’s Response to Staff’s Data Request 10).

1 A. It is apparent that SB 5295, as well as several other favorable regulatory mechanisms (as
2 cited by Moody's and S&P) the Company continues to have access to, provides favorable
3 risk-reducing attributes. The impact of these mechanisms, on both an individual and
4 collective basis, is to transfer a significant portion of Avista's risks from its shareholders
5 to its ratepayers. This risk transfer is not voluntary from the ratepayer perspective. I
6 correspondingly believe that ratepayers should receive some benefit for their acceptance
7 of this risk transfer.

8

9 **Q. How do you propose that Avista's ratepayers be compensated for this risk transfer?**

10 A. I first note that the most relevant impact of the recent legislation is to reduce the overall
11 level of risks to Avista, compared to what the risks were prior to the implementation of
12 the legislation. In other words, Avista is less risky on a "post-legislation" basis than it
13 was on a "pre-legislation" basis.

14 I also note that the more recent descriptions of the MYRP, as noted above,
15 confirm Moody's and S&P's initial assessment of the risk-reducing aspects of the MYRP
16 as well as other favorable Washington regulatory mechanisms.

17 I recommend that the ROE established in this proceeding be set at a level that is
18 no higher than the bottom of the market-determined ROE range for the proxy group, as
19 established by the various cost of equity models employed in this proceeding, which is
20 9.5 percent.²⁸ The Commission recognizing the impact of SB 5295 would be consistent

²⁸ I note that in the initial MYRP proceeding of Puget Sound Energy (Dockets UE-220066, et. al.) I recommended that PSE's ROE for its proposed MYRP be set at a level no greater than the mid-point of a market-determined ROE for the proxy group. At that time the MYRP process had not been implemented in Washington. Now that the MYRP has been implemented and recognized as risk reducing, it is proper to recognize the concept of a lower portion of the ROE range.

1 with the reduced risk Avista is now exposed to in conjunction with the MYRP
2 legislation's reduction of regulatory lag, as well as the PBR ratemaking mechanisms.
3 This is also consistent with the Commission's preference for the concept of gradualism,
4 as cited in a later portion of my testimony.

5
6 **Q. What is Commission Staff's recommendation in this proceeding as it pertains to the**
7 **continued implementation of a MYRP for Avista?**

8 A. Staff is proposing, for this proceeding, that a single-year rate plan be utilized, rather than
9 the MYRP proposed by Avista. This proposal does not indicate that the Staff is opposed
10 to MYRPs for Avista. Rather, it reflects a Staff request, from a scheduling standpoint,
11 that Avista and Puget Sound Energy be on different rate proceeding schedules (i.e., rate
12 cases for Avista and PSE be in different years in order for Staff to properly perform their
13 analyses).²⁹

14
15 **Q. Does this Staff proposal negate the benefits of the use of MYRPs that you have**
16 **previously described?**

17 A. No, it does not. Avista has just completed its first MYRP. Under the Staff proposal, the
18 Company can file a MYRP next year. As a result, on both a historic and going-forward
19 basis, Avista continues to benefit from the MYRP concept.

20
21
22

²⁹ See BAE-1T, 3.

1 **VI. CAPITAL STRUCTURES AND COSTS OF DEBT**

2

3 **Q. What is the importance of determining a proper capital structure in a regulatory**
4 **framework?**

5 A. A utility’s capital structure is important because the concept of rate base, rate of return
6 regulation requires the capital structure to be utilized in estimating the total COC. Within
7 this framework, it is proper to ascertain whether the utility’s capital structure is
8 appropriate relative to its level of business risk and relative to other utilities.

9 As discussed in a prior section of my testimony, the purpose of determining the
10 proper capital structure for a utility is to ascertain its capital costs. The rate base, rate of
11 return concept recognizes the assets employed in providing utility services and provides
12 for a return on those assets by identifying the liabilities and common equity (and their
13 cost rates) used to finance the assets. In this process, the rate base is derived from the
14 asset side of the balance sheet and the COC is derived from the liabilities/owners’ equity
15 side of the balance sheet. The inherent assumption in this procedure is that the dollar
16 values of the capital structure and the rate base are approximately equal, and the former is
17 utilized to finance the latter.

18 The common equity ratio (i.e., the percentage of common equity in the capital
19 structure) is the capital structure item which normally receives the most attention. This is
20 the case because common equity: (1) usually commands the highest cost rate; (2)
21 generates associated income tax liabilities; and (3) causes the most controversy since its
22 cost cannot be precisely determined.

1 **Q. What are the historic capital structure ratios of Avista?**

2 A. I have examined the historic (2019-2023) capital structure ratios of Avista, which is
3 shown on Exh. DCP-6. The actual (as opposed to Commission-approved) common
4 equity ratios have been:

	<u>Avista Consolidated</u>		<u>Avista Utilities</u>		
	<u>Including</u>	<u>Excluding</u>	<u>Including</u>	<u>Excluding</u>	
	<u>S-T Debt</u>	<u>S-T Debt</u>	<u>S-T Debt</u>	<u>S-T Debt</u>	
5					
6					
7	2019	48.1%	49.9%	48.1%	50.0%
8	2020	47.2%	49.6%	47.2%	49.8%
9	2021	47.0%	49.5%	47.0%	49.6%
	2022	47.7%	49.8%	47.6%	49.8%
	2023	46.4%	49.0%	46.2%	48.9%

10 This indicates that Avista, on a consolidated basis, has had an equity ratio that has
11 declined slightly over the past five years. The Avista Utilities (Division) capital
12 structure³⁰ has also declined slightly, with equity ratios (including short-term debt) of
13 about 48 percent or less over the past five years. I further note that all of the above-cited
14 equity ratios are less than the 48.5 percent equity ratio (which includes short-term debt)
15 used by the Commission in determining Avista's COC over the past several rate
16 proceedings of the Company.

17
18 **Q. How do these capital structures compare to those of investor-owned electric**
19 **utilities?**

20 A. Exh. DCP-7 shows the common equity ratios (excluding short-term debt in capitalization)
21 for the group of proxy electric utilities used in developing my ROE models and related
22 conclusions. These are:

³⁰ Avista's Utilities (Division) capital structures exclude affiliate debt and equity.

	Period	Average	Median
1	2019-2023	52.0%	50.8%
2	2027-2029	51.5%	49.8%

3 The equity ratios for the proxy group are slightly higher than those of Avista Utilities
4 (excluding short-term debt).

6 **Q. What have been the average common equity ratios adopted by U.S. State
7 Regulatory Commissions in recent years?**

8 A. Over the past several years, the average common equity ratios cited in U.S. state
9 regulatory electric proceedings have been:³¹

	Electric
10	49.23%
11	48.91%
12	48.90%
13	49.02%
14	49.94%
15	49.67%
	50.06%
	50.36%
	51.15%

16 The utility ratios are slightly higher than those of Avista Utilities’ common equity ratios.
17 It is noteworthy, on the other hand, that these equity ratios reflect a combination of
18 approved capital structures, some of which include short-term debt and some of which
19 exclude short-term debt.

21 **Q. What capital structure has Avista requested in the proceedings?**

22 A. Avista proposes a capital structure comprised as follows:

³¹ S&P Global, Market Intelligence, “Major Energy Rate Case Decisions in US.”

1		<u>Percent</u>
2	Debt	51.5
3	Common Equity	48.5

4 This capital structure maintains the same 48.5 percent common equity ratio that
5 has been adopted for Avista in the last several rate proceedings.³²

6 **Q. What capital structure do you propose to use in these proceedings?**

7 A. I have also used three sets of capital structures, each with 48.5 percent common equity,
8 but with the inclusion of short-term debt for the purposes of these proceedings. My
9 proposed capital structures are derived in Exh. DCP-3 and are as follows:

10		<u>December 31</u>		
11		<u>2024</u>	<u>2025</u>	<u>2026</u>
12	Short-Term Debt	1.92%	1.88%	1.80%
13	Long-Term Debt	45.58%	49.62%	49.70%
14	Common Equity	48.50%	48.50%	48.50%

14 **Q. Why are you proposing capital structures for Avista containing 48.5 percent**
15 **common equity?**

16 A. I first note that Avista Utilities’ actual capital structure as of December 31, 2023,
17 contained 46.2 percent common equity, as shown on Exh. DCP-6 page 2. Thus, my
18 proposed capital structure contains slightly more equity than the recent actual capital
19 structure ratio of Avista Utilities.

³² See. e.g., *Wash. Util. Transp. Comm’n v. Avista Corp. d/b/a Avista Util.*, Dockets UE-170485 & UG-170486, at 39-40 ¶¶ 111-112 (April 26, 2018); *Wash. Util. Transp. Comm’n v. Avista Corp d/b/a Avista Util.*, Dockets UE-190334, UE-190335 & UG-190222, Final Order 09, 13 ¶ 34 (March 25, 2020); *Wash. Util. Transp. Comm’n v. Avista Corp. d/b/a Avista Util.*, Dockets UE-220053, UG-220054 & UE-210854, Final Order 10/04, at 56-57, ¶¶ 156-58 (Dec. 12, 2022).

1 Second, Exh. DCP-6 shows that the actual equity ratios of Avista Utilities have
2 not increased in recent years.

3 Third, the common equity ratio in this capital structure matches the capital
4 structure stipulated to by the parties and adopted by the Commission in Avista's prior rate
5 three proceedings,³³ as well as the last two litigated rate proceedings.³⁴

6 Fourth, the proposed capital structure is similar to that of other electric and
7 combination electric utilities, as shown on Exh. DCP-7.

8
9 **Q. What is the Commission's recent policy on the proper capital structure to use to**
10 **determine the COC?**

11 A. The Commission's policy on determining a capital structure balances safety (the
12 preservation of investment quality credit ratings and access to capital) against economy
13 (the lowest overall cost to attract and maintain capital). The Commission noted that the
14 appropriate capital structure can either be the Company's historical capital structure, the
15 projected capital structure, or a hypothetical capital structure.³⁵

16
17 **Q. Is your recommended capital structure consistent with this policy?**

18 A. Yes. The capital structure that I use is similar to recent actual ratios of Avista, as well as
19 its 2023 capital structure, and is consistent with the capital structure of other electric and

³³ *Avista Corp. d/b/a Avista Util.*, Dockets UE-170485 & UG-170486, at 39-40, ¶¶ 111-112; *Avista Corp.*, Dockets UE-220053, UG-220054 & UE-210854, Final Order 10/04, at 56-57, ¶¶ 156-58.

³⁴ *Avista Corp.*, Docket UE-190334, Final Order 09, at 13 ¶ 34.

³⁵ *Id.* at 39 ¶ 109, *see also, Wash. Util. & Transp. Comm'n v. Puget Sound Energy, Inc.*, Dockets UE-040640 & UG-040641, Order 06, 13 ¶ 27 (Feb. 18, 2005).

1 combination electric utilities. I also believe that the capital structure that I propose
2 provides a “balance of safety and economy” as cited above.

3
4 **Q. What are the cost rates of debt in Avista’s applications?**

5 A. Avista proposes the cost of debt as of December 31, 2025. Avista’s proposed cost of debt
6 is 4.99 percent,³⁶ which includes both long-term debt and short-term debt. Avista’s
7 applications also show a cost of short-term debt of 5.58 percent as of December 31,
8 2025³⁷ and 5.343 percent as of 2026.³⁸ The applications do not identify the costs of long-
9 term debt for Avista, but I have derived the respective cost rates (4.93 percent for 2024,
10 4.96 percent for 2025, and 4.99 percent for 2026), from the applications and discovery
11 responses,³⁹ as shown on Exh. DCP-3.

12
13 **Q. Can the ROE be determined with the same degree of precision as the costs of debt?**

14 A. No. The cost rates of debt are largely determined by interest payments, issue prices, and
15 related expenses. The ROE, on the other hand, cannot be precisely quantified, primarily
16 because this cost is an opportunity cost. As mentioned previously, there are several
17 models that can be employed to estimate the ROE. Four of the primary methods – DCF,
18 CAPM, CE, and RP – are developed in the following sections of my testimony.

19
20
21

³⁶ Christie, Exh. KJC-2 at 2.

³⁷ *Id.* at 3.

³⁸ *Id.* at 4.

³⁹ *See*, Response to Staff DR 27, Attachment A.

1 **VII. SELECTION OF PROXY GROUP**

2

3 **Q. How have you estimated the ROE for Avista?**

4 A. Avista is publicly traded. Consequently, it is possible to directly apply ROE models to
5 this entity. However, it is generally preferred to analyze groups of comparison or
6 “proxy” companies as a substitute for Avista to determine its ROE.

7 I have selected one such group for comparison to Avista. I selected a group of
8 electric and combination electric/natural gas utilities using the criteria listed on Exh.
9 DCP-8. These criteria are as follows:

- 10 1. Market “cap” of \$1 billion to \$10 billion;
11
12 2. Common equity ratio 40% or greater;
13
14 3. Value Line Safety of 1, 2 or 3;
15
16 4. Moody’s or S&P’s bond ratings of investment grade (triple B or higher); and
17
18 5. Currently pays dividends and has not reduced dividends in the past five
19 years.
20

21 I have not conducted studies of the ROE for all of the companies in the electric
22 group that was selected by Avista’s COC witness, Adrien M. McKenzie. Exh. DCP-8
23 indicates the respective reasons for not including certain of Company witness
24 McKenzie’s electric group in my proxy group.
25

1 **VIII. DCF ANALYSIS**

2

3 **Q. What is the theory and methodological basis of the DCF model?**

4 A. The DCF model is one of the oldest and most commonly used models for estimating the
5 ROE for public utilities.

6 The DCF model is based on the “dividend discount model” of financial theory,
7 which maintains that the value (price) of any security or commodity is the discounted
8 present value of all future cash flows.

9 The most common variant of the DCF model assumes that dividends are expected
10 to grow at a constant rate (the “constant growth” or “Gordon DCF model”). In this
11 framework, the ROE is derived from the following formula:

$$K = \frac{D}{P} + g$$

12 where: P = current price

13 D = current dividend rate

14 K = discount rate (cost of capital)

15 g = constant rate of expected growth

16 This formula essentially recognizes that the return expected or required by investors is
17 comprised of two factors: the dividend yield (current income) and expected growth in
18 dividends (future income).
19
20

1 **Q. Please explain how you employ the DCF model.**

2 A. I use the constant growth DCF model. In doing so, I combine the current dividend yield
3 for each of the proxy utility stocks described in the previous section with several
4 indicators of expected dividend growth.

5
6 **Q. How did you derive the dividend yield component of the DCF equation?**

7 A. Several methods can be used to calculate the dividend yield component. These methods
8 generally differ in the manner in which the dividend rate is employed (i.e., current versus
9 future dividends or annual versus quarterly compounding variant). I used a quarterly
10 version of the dividend yield, which is expressed as follows:

11
$$Yield = \frac{D_0(1 + 0.5g)}{P_0}$$

12 This dividend yield component recognizes the timing of dividend payments and dividend
13 increases.

14 The P_0 in my yield calculation is the average of the high and low stock price for
15 each proxy company for the most recent three-month period (March – May 2024). The
16 D_0 is the current annualized dividend rate for each proxy company.

17
18 **Q. How do you estimate the dividend growth component of the DCF equation?**

19 A. The DCF model's dividend growth rate component is usually the most crucial and
20 controversial element involved in using this methodology. The objective of estimating
21 the dividend growth component is to reflect the growth expected by investors that is
22 embodied in the price (and yield) of a company's stock. As such, it is important to
23 recognize that individual investors have different expectations and consider alternative

1 indicators in deriving their expectations. This is evidenced by the fact that every
2 investment decision resulting in the purchase of a particular stock at a specific price is
3 matched by another investment decision to sell that stock at the same price.

4 A wide array of indicators exists for estimating investors' growth expectations.
5 As a result, it is evident that investors do not always use one single indicator of growth.
6 It therefore is necessary to consider alternative dividend growth indicators in deriving the
7 growth component of the DCF model. I have considered five indicators of growth in my
8 DCF analyses. These are:

- 9 1. Years 2019-2023 (5-year average) earnings retention, or fundamental growth
10 (per Value Line);
- 11 2. Five-year average of historic growth in earnings per share (EPS), dividends
12 per share (DPS), and book value per share (BVPS) (per Value Line);
- 13 3. Years 2024, 2025 and 2027-2029 projections of earnings retention growth
14 (per Value Line);
- 15 4. Years 2021-2023 to 2027-2029 projections of EPS, DPS, and BVPS (per
16 Value Line); and
- 17 5. Five-year projections of EPS growth (per Value Line, First Call and Zacks, as
18 reported in Value Line and Yahoo! Finance and Zack's websites,
19 respectively).
- 20
- 21
- 22
- 23

24 This combination of growth indicators is a representative and appropriate set with which
25 to begin the process of estimating investor expectations of dividend growth for the group
26 of proxy companies. Additionally, these growth indicators reflect the types of
27 information that investors consider in making their investment decisions. As I indicated
28 previously, investors have an array of information available to them, all of which would
29 be expected to have some impact on their decision-making process.
30

31

1 **Q. Please describe your DCF calculations.**

2 A. Exh. DCP-9 presents my DCF analysis. Page 1 shows the calculation of the “raw” (i.e.,
3 prior to adjustment for growth) dividend yield for each proxy company. Pages 2, 3 and 4
4 show the various growth rates for the group of proxy companies. Page 5 shows the DCF
5 calculations, which are presented on several bases: mean, median, low, and high values.
6 These results can be summarized as follows:

Proxy Group	<u>Mean</u>	<u>Median</u>	<u>Mean Low⁴⁰</u>	<u>Mean High⁴¹</u>	<u>Median Low⁴²</u>	<u>Median High⁴³</u>
	8.6%	8.7%	7.9%	9.8%	7.9%	10.6%

7

8 I note that the individual DCF calculations shown on Exh. DCP-9 should not be
9 interpreted to reflect the expected ROE for individual companies in the proxy group;
10 rather, the individual values shown should be interpreted as alternative information
11 considered by investors.

12

13 **Q. What do you conclude from your DCF analyses?**

14 A. The DCF rates resulting from the analysis of the proxy group fall into a wide range
15 between 7.9 percent and 10.6 percent. The mean/median DCF rates are 8.6/8.7 percent
16 and several of the individual growth rate DCF results are within a range of 8.6 percent to
17 9.8 percent. The highest DCF rates, on both a mean and median basis, are 9.8 percent to
18 10.6 percent. I note that only one of the potential DCF ROE results are above 9.8
19 percent, leaving the 10.6 percent high median DCF ROE result as an outlier.

⁴⁰ Using only the lowest average growth rate.

⁴¹ Using only the highest average growth rate.

⁴² Using the lowest median growth rate.

⁴³ Using only the highest median growth rate.

1 A range of 8.6 percent to 10.6 percent (9.6 percent mid-point) broadly represents
2 the current DCF-derived ROE for the proxy group. This range includes most of the DCF
3 rates and exceeds the low and mean/median DCF rates, including the mean/medial
4 values. I note that the upper end of the DCF range reflects the EPS forecasts for the
5 proxy group and exceeds the average and medial results. Within this broad range, I
6 recommend a more narrow range of 9.0 percent to 10.0 percent (9.5 percent mid-point).⁴⁴
7 This range exceeds the mean/median DCF result, excludes the singular highest DCF
8 result, and includes many of the above-average DCF results.

9
10 **Q. Does Company witness McKenzie also perform DCF analyses?**

11 A. Yes. Company witness McKenzie cites DCF results within a broad range of 9.2 percent
12 to 10.7 percent.⁴⁵

13
14 **Q. Please summarize Company witness McKenzie's DCF methodology and results.**

15 A. Company witness McKenzie calculates DCF results for a group of 22 proxy electric
16 utilities by combining each proxy company's dividend yield (for the last 30 trading days
17 as on November 28, 2023) with four sets of growth rates, three of which are forecasts of
18 EPS.⁴⁶ These four sets of DCF calculations collectively produce DCF ROE results within
19 a range of 9.2 percent to 10.7 percent,⁴⁷ three of which are within my DCF results (9.2

⁴⁴ In my Prefiled Direct Testimony in the most recent Avista litigated case (Dockets UE-200900 & UG-200901), I noted that the DCF high end results range was 8.9 percent to 9.3 percent (page 31). I stated "My recommendation focuses on the highest of the DCF results to incorporate my recognition that these results are relatively lower than historic DCF results." At the current time, DCF results do not produce ROE results that are lower than has been the case in recent years. As a result, I am now giving weight to the midpoint of the DCF range, as well as the higher portion of the overall DCF results.

⁴⁵ McKenzie, Exh. AMM-4.

⁴⁶ *Id.*, Exh. AMM-7.

⁴⁷ *Id.*

1 percent, 9.7 percent and 9.9 percent). As a result, my DCF ROE results and Company
2 witness McKenzie's DCF ROE results are similar.

4 IX. CAPM ANALYSIS

6 **Q. Please describe the theory and methodological basis of the CAPM.**

7 A. CAPM was developed in the 1960s and 1970s as an extension of modern portfolio
8 theory, which studies the relationships among risk, diversification, and expected returns.
9 The CAPM describes and measures the relationship between a security's investment risk
10 and its market rate of return.

12 **Q. How is the CAPM derived?**

13 A. The general form of the CAPM is:

$$14 \quad K = R_f + \beta(R_m - R_f)$$

15 where: K = cost of equity

16 R_f = risk free rate

17 R_m = return on market

18 β = beta

19 R_m-R_f = market risk premium
20

21 The CAPM is a variant of the RP method. They differ in the sense that the CAPM
22 specifically recognizes the risk of a particular company or industry (i.e., beta), whereas the
23 simple RP method assumes the same ROE for all companies exhibiting similar bond ratings
24 or other characteristics.

1 **Q. What do you use for the risk-free rate?**

2 A. The first input of the CAPM is the risk-free rate (R_f). The risk-free rate reflects the level
3 of return that can be achieved without accepting any risk.

4 In CAPM applications, the risk-free rate is generally recognized by use of U.S.
5 Treasury securities. Two general types of U.S. Treasury securities are often utilized as
6 the R_f rate, short-term U.S. Treasury bills and long-term U.S. Treasury bonds.

7 I have performed CAPM calculations using the three-month average yield (March
8 – May 2024) for 20-year U.S. Treasury bonds. I use the yields on long-term Treasury
9 bonds since this matches the long-term perspective of ROE analyses. Over this three-
10 month period, these bonds had an average yield of 4.65 percent. As I stated in a previous
11 section of my testimony, recent Treasury bond yields have been significantly influenced,
12 in an upward manner, by the Federal Reserve’s inflation reduction policies. As such,
13 these do not reflect true “market-determined” rates but are rather administered rates by
14 the Federal Reserve.

15

16 **Q. What is beta and what betas do you employ in your CAPM?**

17 A. Beta is a measure of the relative volatility (and thus risk) of a particular stock in relation
18 to the overall market. Betas less than 1.0 are considered less risky than the market,
19 whereas betas greater than 1 are riskier. Utility stocks traditionally have had betas below
20 1. I utilize the most recent Value Line betas for each company in the proxy group.

21

1 **Q. How do you estimate the market risk premium component?**

2 A. The market risk premium component ($R_m - R_f$) represents the investor-expected premium
3 of common stocks over the risk-free rate, or long-term government bonds. For the
4 purpose of estimating the market risk premium, I considered alternative measures of
5 returns of the S&P 500 (a broad-based group of large U.S. companies) and 20-year U.S.
6 Treasury bonds (i.e., same timeframe of long-term government bonds as employed in
7 SBBI Yearbook⁴⁸ source used to develop risk premiums).

8 First, I compared the actual annual ROEs of the S&P 500 with the actual annual
9 income returns (i.e., interest rates) of 20-year U.S. Treasury bonds. Exh. DCP-10 shows
10 the ROEs for the S&P 500 for the period 1978-2023 (all available years reported by
11 S&P). This exhibit also indicates the annual yields on 20-year U.S. Treasury bonds and
12 the annual differentials (i.e., risk premiums) between the S&P 500 and U.S. Treasury 20-
13 year bonds. Based upon these returns, I conclude that the risk premium from this
14 analysis is 7.8 percent.

15 I next considered the total returns (i.e., dividends/interest plus capital
16 gains/losses) for the S&P 500 as well as for long-term government bonds, as tabulated by
17 SBBI, using both arithmetic and geometric means. I considered the total returns for the
18 entire 1926-2022 period reported by this source, which are as follows:

19

	<u>S&P 500</u>	<u>L-T Gov't Bonds</u>	<u>Risk Premium</u>
20 Arithmetic	12.0%	5.6%	6.4%
21 Geometric	10.1%	5.2%	4.9%

⁴⁸ *U.S. Capital Markets Performance by Asset Class, 1926-2022*, 2023 SBBI Yearbook, Stocks, Bonds, Bills and Inflation, Kroll (formerly Duff and Phelps, Morningstar, and Ibbotson Associates) (this Yearbook is no longer published).

1 I conclude from this analysis that the expected risk premium is about 6.4 percent
2 (i.e., average of all three risk premiums: 7.8 percent from Exh. DCP-10; 6.4 percent
3 arithmetic and 4.9 percent geometric from SBBI). A combination of arithmetic and
4 geometric means is appropriate since investors have access to both types of means⁴⁹ and
5 presumably, both types are reflected in investment decisions and thus, stock prices and
6 the ROE.

7
8 **Q. What are your CAPM results?**

9 A. Exh. DCP-11 shows my CAPM calculations. The results are:

	<u>Mean</u>	<u>Median</u>
Proxy Group	10.7%	10.7%

10
11
12
13 **Q. What is your conclusion concerning the CAPM ROE?**

14 A. The CAPM results collectively indicate a ROE of 10.7 percent for the group of proxy
15 utilities.

16
17 **Q. Are you proposing that these CAPM conclusions be given consideration in your
18 ROE recommendations in this proceeding?**

19 A. No, I am not. Over the past several years, I have not given the CAPM results weight in
20 my final ROE recommendations. As I have noted, pre-2022 U.S. Treasury bond yields
21 were heavily impacted, in a downward manner, by Federal Reserve's monetary policies
22 designed to stimulate the economy from the implications of the Great Recession and the

⁴⁹ For example, Value Line uses compound (i.e., geometric) growth rates in its projection. In addition, mutual funds report growth rates on a compound basis.

1 COVID-19 pandemic. As a result, in these times, the CAPM results were substantially
2 lower than the DCF and CE results and I correspondingly gave them no weight in my
3 ROE recommendations.⁵⁰

4 Over the past two years, the Federal Reserve has reversed this monetary policy
5 strategy, primarily in response to the increase in inflation rates,⁵¹ such that yields on U.S.
6 Treasury bonds now reflect the opposite effect of Federal Reserve monetary policy (i.e.,
7 recent and current rates are upwardly biased). As a result of this reversal of Federal
8 Reserve, interest rates are equally reflective of “non-market” factors.

9 I note, fourth, that the CAPM ROE results incorporate the “peak” of the interest
10 rates of the Federal Reserve’s monetary policy cited previously, as demonstrated by the
11 decline in rates since the October 2023 peak levels. Should rates continue to decline, as
12 expected by the markets⁵² and cited by the Federal Reserve, any later updates of the
13 CAPM model will produce lower ROE results.

14 I consequently believe that CAPM ROE results should receive no weight at this
15 time in the ROE determination for utilities, including Avista. I further note that this
16 position is consistent with the Commission’s decision to “give little weight to the
17 witnesses’ CAPM models for the same reasons explained by Dr. Woolridge and Staff
18 witness Parcell.”⁵³

⁵⁰ See *Wash. Util. Transp. Comm’n v. Avista Corp.*, Dockets UE-200900 & UG-200901, Exh. DCP-1T, at 56:18-20 (Apr. 25, 2022).

⁵¹ Due, in part, to “transition” impacts from COVID-19 shut-down, “supply-chain” effects, and the impact of the Russia-Ukraine conflict.

⁵² See, previous discussion of negative yield spread, where short-term Treasury bill yields are higher than long-term Treasury bond yields, which indicates the market’s expectations that interest rates will decline.

⁵³ *Avista*, Docket UE-200900, at 39 ¶ 100.

1 **Q. How do your CAPM results compare to the CAPM results of Company witness**
2 **McKenzie?**

3 A. Company witness McKenzie’s testimony reaches CAPM conclusions of 11.7 percent to
4 11.8.⁵⁴ These greatly exceed the CAPM results my testimony suggests. Therefore,
5 Company witness McKenzie’s CAPM results are outliers and warrant no current weight
6 in the ROE determination for Avista.

7
8 **Q. Do you have any comments concerning Company witness McKenzie’s CAPM**
9 **analyses?**

10 A. Yes, I do. I primarily disagree with Company witness McKenzie’s risk premium
11 estimates. I also disagree with the “size premium” he employs, as well as the use of the
12 “empirical” CAPM (ECAPM).

13
14 **Q. Please summarize Company witness McKenzie’s risk premium component.**

15 A. Company witness McKenzie calculates a risk premium as follows. The “market return”
16 (R_m) component of the risk premium is an 11.7 percent DCF cost of equity for the
17 dividend-paying companies of the S&P 500. The risk premium subtracts from this 11.7
18 percent R_m from the 4.4 percent average yield on 30-year U.S. Treasury bonds to derive
19 a 7.3 percent risk premium.⁵⁵

20
21 **Q. Do you have any criticisms of Company witness McKenzie’s CAPM Market Risk**
22 **Premium components?**

⁵⁴ McKenzie, Exh. AMM-1T at 47: 1-14; Exh. AMM-4.

⁵⁵ *Id.* (notes (a) and (c)); AMM-3 at 17:5-18.

1 A. Yes. Company witness McKenzie’s 7.3 percent risk premium greatly exceeds the
2 historic levels of risk premiums (4.9 percent to 6.4 percent) that I cite in my CAPM
3 analyses. No explanation is offered as to why investors would expect such a dramatic
4 increase in risk premiums.

5
6 **Q. What are your criticisms regarding the “size premium” adjustment to the CAPM**
7 **model proposed by Company witness McKenzie?**

8 A. Witness McKenzie adds a “size” premium to the CAPM results for each of the proxy
9 group companies. Company witness McKenzie maintains that there is justification for
10 making a small-firm risk adjustment that results in a higher COC for small firms. The
11 proposed size adjustment varies among the proxy companies with individual values up to
12 0.93 percent.⁵⁶ Such an adjustment is improper and results in an overstatement of the
13 ROE for the proxy electric utilities.

14 There are compelling reasons why a small size adjustment is not proper for
15 regulated utilities. Company witness McKenzie’s proposed size adjustment is based
16 upon a reference to the previously cited SBBI studies.⁵⁷ However, the small size
17 adjustment in the SBBI studies is based on the analysis of all stocks, the majority of
18 which are unregulated and include industries that are much riskier than utilities. While it
19 may or may not be true that on an overall market basis, smaller publicly traded firms
20 exhibit more risk than larger firms, these smaller companies’ stocks tend to be engaged in
21 riskier businesses as a whole than do larger businesses. Such is not the case for regulated
22 utilities.

⁵⁶ McKenzie, Exh. AMM-9 & Exh. AMM-10 (e.g., Avista, Row 4).

⁵⁷ *Id.*, at Exh. AMM-9 and AMM-10, Note (F).

1 Indeed, an academic study conducted by Professor Annie Wong found that:

2 [U]tility and industrial stocks do not share the same characteristics. First,
3 given firm size, utility stocks are consistently less risky than industrial
4 stocks. Second, industrial betas tend to decrease with firm size but utility
5 betas do not. These findings may be attributed to the fact that all public
6 utilities operate in an environment with regional monopolistic power and
7 regulated financial structure. As a result, the business and financial risks
8 are very similar among the utilities regardless of their sizes. Therefore,
9 utility betas would not necessarily be expected to be related to firm size.

10 . . .

11 This implies that although the price phenomenon has been strongly
12 documented for the industrials, the findings suggest that there is no need
13 to adjust for the firm size in utility rate regulation.⁵⁸

14
15
16 **Q. Can you provide any evidence that “size” or “business risk” adjustments are not**
17 **generally recognized as risk factors in regulatory proceedings such as this one?**

18 A. Yes, I can. Implicit in Company witness McKenzie’s proposal is an assumption that any
19 perceived small size risk adjustment for unregulated companies (i.e., source of
20 information cited in the SBBI source that Company witness McKenzie relies on for the
21 small size adjustment) applies to regulated public utilities. Exh. DCP-12 demonstrates
22 objectively that this is not the case. As this exhibit shows, there is no significant
23 difference and there is no discernible pattern of increase among the risk indicators of
24 publicly traded electric utilities of different sizes. The table below summarizes the
25 information contained in this schedule:

26

<u>Cap Size</u>	<u>Safety</u>	<u>Beta</u>	<u>Financial Strength</u>	<u>S&P Rating</u>	<u>Moody’s Rating</u>
Under \$10B	2.5	.92	B++	BBB+	Baa1
\$10-\$20B	2.6	1.00	B++	BBB+/A-	Baa2
\$20-\$30B	1.9	.91	B++/A	BBB+	Baa2
\$30B Plus	2.0	.92	A	B++/A-	Baa2 ₂₉

⁵⁸ See Wong, Annie, “Utility Stocks And The Size Effect: An Empirical Analysis”, Journal of the Midwest Finance Association, 95-101 (1993).

1 The safety rank, beta values, financial strength, and Moody's/S&P bond ratings are about
2 the same for all sizes of electric utilities. These risk indicators do not reflect any risk
3 differential as the size of the electric utilities decrease from large to small. To the
4 contrary, this data indicates that regulated monopoly utility providers have approximately
5 the same risk regardless of size. As a result, the logic Company Witness McKenzie uses
6 to justify the proposed small size adjustment is unsound.

7
8 **Q. Why do you disagree with Company witness McKenzie's use of the ECAPM?**

9 A. Company witness McKenzie also performs an "empirical" CAPM analysis, which
10 assigns 75 percent weight to actual betas for the proxy group of electric utilities and a 25
11 percent weigh to an assumed beta of 1.0.⁵⁹ I disagree with the ECAPM, since it
12 arbitrarily ignores the actual betas of the proxy utilities and, instead, assigns hypothetical
13 betas to them. It also assumes that investors, such as those who subscribe to and rely on
14 investment services such as Value Line, do not use the actual published Value Line betas
15 but rather "modify" the published betas in an arbitrary fashion.

16
17 **X. CE ANALYSIS**

18
19 **Q. Please describe the basis of the CE methodology.**

20 A. The CE method is derived from the "corresponding risk" concept discussed in the
21 *Bluefield* and *Hope* cases. This method is thus based upon the economic concept of

⁵⁹ McKenzie, Exh. AMM-3 at 21.

1 opportunity cost. As previously noted, the ROE is an opportunity cost: the prospective
2 return available to investors from alternative investments of similar risk.

3 The CE method is designed to measure the returns expected to be earned on the
4 original cost book value of similar risk enterprises. Thus, it provides a direct measure of
5 the fair return, since it translates into practice the competitive principle upon which
6 regulation rests.

7 The CE method normally examines the experienced and/or projected return on
8 book common equity. The logic for examining returns on book equity follows from the
9 use of original cost rate base regulation for public utilities, which uses a utility's book
10 common equity to determine the cost of capital. This cost of capital is, in turn, used as
11 the fair rate of return which is then applied (multiplied) to the book value of rate base to
12 establish the dollar level of capital costs to be recovered by the utility. This technique is
13 thus consistent with the rate base, rate of return methodology used to set utility rates.

14
15 **Q. How do you apply the CE methodology in your analysis of Avista's ROE?**

16 A. I apply the CE methodology by examining realized ROEs for the group of proxy utilities,
17 as well as unregulated companies, and evaluating investor acceptance of these returns by
18 reference to the resulting market-to-book ratios (M/Bs). In this manner it is possible to
19 assess the degree to which a given level of return equates to the COC. It is generally
20 recognized for utilities that an M/B of greater than one (i.e., 100 percent) reflects a
21 situation where a company is able to attract new equity capital without dilution (i.e.,
22 above book value). As a result, one objective of a fair ROE is the maintenance of stock

1 prices at or above book value. There is no regulatory obligation to set rates designed to
2 maintain an M/B significantly above one.

3 I further note that my CE analysis is based upon market data (through the use of
4 M/Bs) and is thus essentially a market test. As a result, my CE analysis is not subject to
5 the criticisms occasionally made by some who maintain that past earned returns do not
6 represent the cost of capital. In addition, my CE analysis also uses prospective returns
7 and thus is not backward looking.

8
9 **Q. What time periods do you examine in your CE analysis?**

10 A. My CE analysis considers the experienced ROEs of the proxy group of utilities for the
11 period 2002-2023 (i.e., the last 22 years), as well as projected ROEs. The CE analysis
12 requires that I examine a relatively long period of time in order to determine trends in
13 earnings over at least a full business cycle. Further, in estimating a fair level of return for
14 a future period, it is important to examine earnings over a diverse period of time in order
15 to avoid any undue influence from unusual or abnormal conditions that may occur in a
16 single year or shorter period. Therefore, in forming my judgment of the current cost of
17 equity, I focused on two historic periods: 2009-2020 (the most recent business cycle) and
18 2002-2008 (the prior business cycle). I have also considered ROEs for 2021, 2022, and
19 2023 and projected ROEs for 2024, 2025 and 2027-2029 (i.e., current business cycle).

1 indicates, over the two business cycle periods,⁶⁰ this group's average ROEs ranged from
2 12.4 percent to 14.5 percent, with average M/Bs ranging between 275 percent and 296
3 percent.

4
5 **Q. How can the above information be used to estimate Avista's ROE?**

6 A. The recent ROEs of the proxy utilities and S&P 500 group can be viewed as an indication
7 of the level of return realized and expected in the regulated and competitive sectors of the
8 economy. In order to apply these returns to the ROE for the proxy utilities, however, it is
9 necessary to compare the risk levels of the utilities and the competitive companies. I do
10 this in Exh. DCP-15, which compares several risk indicators for the S&P 500 and the
11 electric utility proxy group. The information in this exhibit indicates that the S&P 500 is
12 riskier than the utility proxy group, as evidenced by the fact that the utilities have similar
13 risk indicators while earning lower ROEs.

14
15 **Q. What ROE is indicated by your CE analysis?**

16 A. Based on recent ROEs and M/Bs, my CE analysis indicates that the ROE for the proxy
17 utilities is no more than 9.0 percent to 9.5 percent (9.25 percent mid-point). Recent
18 ROEs of 9.3 percent to 9.4 percent have resulted in M/Bs of 145 percent and over.
19 Current/prospective ROEs of 8.8 percent to 9.7 percent have been accompanied by M/Bs
20 over 140 percent. As a result, it is apparent that authorized returns below this level would
21 continue to result in M/Bs of well above 100 percent. As I indicated earlier, the fact that

⁶⁰ My analysis of the S&P 500 includes the years 2021, 2022 and 2023 in the recent business cycle, as there are no Value Line estimated ROEs for this group as a whole and therefore the 2021, 2022 and 2023 figures do not reflect a "current business cycle" projection.

1 M/Bs substantially exceed 100 percent indicates that historic and prospective ROEs of
2 9.0 percent to 9.5 percent reflect earning levels that are well above the actual cost of
3 equity for those regulated companies. I also note that a company whose stock sells above
4 book value can attract capital in a way that enhances the book value of existing
5 stockholders, thus creating a favorable environment for financial integrity. Finally, I note
6 that my 9.0 percent to 9.5 percent CE recommendation generally reflects the actual and
7 prospective ROEs for the proxy group. I have made no adjustments to these return levels
8 to reflect the high M/Bs.

9
10 **Q. Please now turn to Company witness McKenzie's Expected Earnings Approach.**
11 **Please summarize the use of this methodology and conclusions.**

12 A. Company witness McKenzie's Expected Earnings Approach is a form of the comparable
13 earnings methodology. Company witness McKenzie has tabulated Value Line's
14 "expected" return on equity for the proxy group of companies, which is adjusted for a
15 return on average equity (as opposed to Value Line's reporting on year-end equity).

16 Witness McKenzie's tabulation shows an "Adjusted Return on Common Equity"
17 average of 10.8 percent.⁶¹

18
19 **Q. Do you have any criticisms of Company witness McKenzie's Expected Earnings**
20 **Approach and related conclusions?**

21 A. Yes. It is inappropriate to focus only on expected ROE without any reference to how
22 such returns are accepted by investors. A more appropriate analysis of expected returns

⁶¹ McKenzie, Exh. AMM-1T at 48:18-19; Exh. AMM-12.

1 on equity is done in conjunction with M/Bs. I reviewed Company witness McKenzie's
2 Expected Earnings Approach by evaluating the investor acceptance of these cited ROEs
3 by reference to the corresponding M/Bs. In this manner, it is possible to assess the
4 degree to which a given level of ROE equates to the COC, as I described previously.
5 Book value is a relevant concept for regulated utilities due to the use of rate of return, rate
6 base regulation, which employs book value for both rate and capital structure. Investors
7 know that utility rates are established based, in part, on book values.

8 Exh. DCP-13 on page 3 shows the 2021-2023 actual ROE's and 2024, 2025, and
9 2027-29 projected ROEs of Company witness McKenzie's electric group, as well as the
10 2023 M/Bs of this group. It is noteworthy that the actual 2021, 2022 and 2023 median
11 ROEs are less than Company witness McKenzie's 10.8 percent CE recommendation. I
12 also note that the projected annual average and median ROEs are all less than his 10.8
13 percent recommendation. In fact, most of the projected ROEs are 10.0 percent or less.
14 Finally, the 2023 M/Bs are above 160 percent, which indicates that the ROEs are
15 expected to exceed the COC.

16 Lastly, it is evident that the recent and expected ROEs for the proxy companies,
17 which are mostly holding companies, are higher than the authorized ROEs for electric
18 utilities.

19 Company witness McKenzie's "Expected Earnings Approach" is thus shown to
20 also overstate the ROE for electric utilities. Company witness McKenzie's use of
21 expected ROEs for the proxy companies, without reference or corroboration with either
22 M/Bs or the levels of authorized ROEs, does not provide useful information concerning
23 the ROE for Avista.

1 favorable regulatory mechanisms that greatly enhance utilities' ability to recover costs,
2 which is risk-reducing and thus warrants low ROEs.⁶⁵

3
4 **Q. Have you performed an independent risk premium analysis that avoids the**
5 **deficiencies in Company witness McKenzie's risk premium analysis?**

6 A. Yes, I have. As I noted above, Company witness McKenzie's RP analyses consider the
7 authorized ROEs of electric utilities dating back to 1974, a relatively long period of time.
8 As I indicated earlier in my testimony (and as shown on Exh. DCP-4, page 2), this period
9 experienced significant declines in interest rates, which is another component of the RP
10 analysis. Company witness McKenzie attempts to "correct" for changes in interest rates
11 by performing a regression analysis that considers only the perceived relationship
12 between authorized ROEs, interest rates, and the resulting period RPs. Such an analysis
13 does not recognize any other changes in RPs, such as the electric utility industry's
14 movement into and out of diversification and deregulation in the 1990s, as well as
15 increased use of regulatory mechanisms (i.e., decoupling, cost recovery mechanisms,
16 etc.) over the past decade. As a result, this regression analysis does not properly capture
17 the current relationship between authorized ROEs and interest rates, as it assumes that
18 there are no factors other than interest rates that impact risk premiums over the study
19 period going back to 1974.

20 I have accordingly performed a risk premium analysis that focuses on the most
21 recent twelve-year period (i.e., post-Great Recession period) of authorized ROEs and
22 triple-B (i.e., Avista's rating category) utility bond yields. My analysis, by focusing on

⁶⁵ See, e.g., *US Utility Sector Upgrades Driven by Stable and Transparent Regulatory Frameworks*, Moody's Investors Service, Sector Comments (Feb. 3, 2014).

1 the more current time period, is not subject to the longer-term deficiencies in Company
2 witness McKenzie’s risk premium analyses (*e.g.*, changes in regulatory environment)
3 over the shorter time period.
4

5 **Q. Please describe your risk premium analysis.**

6 A. My RP analysis is shown on Exh. DCP-16. I have compared the authorized ROEs of
7 electric utilities that were decided in the period 2012 to 2023. I show two sets of sub-
8 periods: the period 2012 – 2019 (*i.e.*, the pre-COVID-19 period when average interest
9 rates were 4.45 percent to 5.17 percent), and 2012 – 2023 (which adds the most recent
10 years to the earlier period). I note that the inclusion of 2020 to 2023 risk premiums are
11 impacted by the COVID-19 pandemic, as well as the Federal Reserve’s anti-inflation
12 monetary policies and are not consistent with the 2012 – 2019 years. During this later
13 period triple-B utility interest rates varied from 3.28 percent to 5.54 percent (both of
14 which were in 2021 to 2023), a much wider range than during the 2012-2019 period.

15 Also shown on Exh. DCP-16 are the levels of triple-B utility bonds, with
16 corresponding “lags” (between the level of interest rates and the respective commission
17 decisions) of:

18 No months,
19 3 months,
20 6 months,
21 9 months, and
22 12 months.
23

24 The purpose of showing the lags is to recognize that authorized ROEs often reflect test
25 period and/or hearing period financial conditions that are not simultaneous with the date
26 of the respective commission’s final decision establishing the authorized ROEs.

1 The data in Exh. DCP-16 shows the annual average of authorized ROEs for
 2 electric utilities, along with several lagged interest rates, as well as the resulting risk
 3 premiums associated with the two sets of annual interest rates.

4
 5 **Q. What are the results of your calculations?**

6 A. As shown on Exh. DCP-16, the annual and multi-year risk premiums are as follows:

Year	A-Rated Bonds ⁶⁶	Avg ROE	Risk Premiums
2012	5.17%	10.02%	4.45-5.16%
2013	4.83%	9.82%	4.84-5.12%
2014	4.97%	9.76%	4.69-4.96%
2015	4.80%	9.60%	4.57-4.95%
2016	5.01%	9.60%	4.36-4.92%
2017	4.50%	9.68%	5.00-5.30%
2018	4.45%	9.56%	4.89-5.24%
2019	4.57%	9.65%	4.88-5.46%
2020	3.75%	9.39%	5.20-6.00%
2021	3.28%	9.39%	6.00-6.39%
2022	4.02%	9.58%	4.55-6.22%
2023	5.54%	9.66%	3.82-4.63%
2012-2023 12-Year Avg.	4.57%	9.64%	5.04-5.10%
2012-2019 8-Year Avg.	4.79%	9.71%	4.84-5.01%

14
 15
 16
 17
 18 In my RP analyses, I use both of the above-cited periods and resulting RP ranges:

19 2012-2019 4.84-5.01%

20 2012-2023 5.04-5.10%

21
 22

⁶⁶ Average annual yields of all “lag” time periods.

1 **Q. Are these ranges the appropriate risk premium range to use at the current time?**

2 A. No, it is not appropriate to use these risk premium ranges in connection with current
3 levels of interest rates for the purpose of estimating a RP ROE estimate. For example,
4 the 2012-2019 risk premium range of 4.84 percent to 5.01 percent was derived during a
5 period in which yields on Baa-rated utility bonds were 4.45 percent to 5.17 percent.
6 Current yields on Baa-rated utility bonds are about 6 percent, or 83 to 150 basis points
7 higher.

8 It is recognized that risk premiums are not constant over time but vary inversely
9 with levels of interest rates (i.e., as interest rates increase, risk premiums decline, and
10 vice versa). I note, in this regard that Company witness McKenzie cites this inverse
11 relationship.⁶⁷ Company witness McKenzie's testimony also concludes that the inverse
12 relationship between interest rates and risk premiums reflects approximately a 43 basis
13 point change in the risk premium associated with a 100 basis point change in interest
14 rates.⁶⁸ In my RP analyses, I accept Company witness McKenzie's assumption of this
15 relationship between risk premium of interest rate changes. In doing so, I am attempting
16 to minimize the relative differences between our respective RP approaches.⁶⁹

17 Page 1 of Exh. DCP-16 shows the steps in my RP analysis. This indicates a RP
18 conclusion of 9.83 percent to 10.86 percent, which incorporates the following inputs:

⁶⁷ McKenzie, Exh. AMM-1T at 47:18-21.

⁶⁸ Note that Company witness McKenzie's RP analyses conclude that the negative relationship between interest rates and risk premiums is about .427 percent (Exh. AMM-11 at 3).

⁶⁹ This assumes that this portion of the relationship (i.e., slope of regression line) is the same whether U.S. Treasury bonds or utility bonds is used for measurement.

1. 2012-2019 and 2012-2023 risk premium ranges;
2. Current level of triple-B utility bond yield;
3. Interest rate range of triple-B utility bonds for 2012-2019 and 2012-2023;
4. Relationship between interest rates and bond yields;
5. Required change in risk premium for differential in current and past interest rate; and
6. Risk premium.

Q. What is the appropriate RP return on equity at the present time?

A. Exh. DCP-16 shows RP results of 10.13 percent to 10.61 percent for the 2012-2019 period and 9.83 percent to 10.86 percent for the 2012-2023 period. Note that the latter period shows a wider spread of the RP results, although the mid-point is the same as the 2012-2019 period. Based on these results, I conclude that the RP result for Avista’s ROE range is a range of 9.8 percent to 10.8 percent (10.3 percent mid-point).

XII. RETURN ON EQUITY RECOMMENDATION

Q. Please summarize the results of your four ROE analyses.

A. My four ROE analyses produced the following results:

	Mid-Point	Range
DCF	9.5%	9.0-10.0%
CAPM ⁷⁰	10.70%	10.7%
CE	9.25%	9.0-9.5%
RP	10.3%	9.8-10.8%
Average	9.68%	9.68%
Median	9.5%	9.65%

⁷⁰ CAPM results not included in mean and median results.

1 These results indicate an overall broad range of 9.0 percent to 10.8 percent, which
2 focuses on the respective high and low individual model results. Using mid-point values,
3 the range is 9.25 percent to 10.3 percent. I note that the CAPM results are an “outlier” in
4 comparison to the other model results. I recommend a ROE range of 9.5 percent to 10.0
5 percent for Avista at this time, which gives consideration to the results of each of the
6 ROE methodologies excluding CAPM. Within this ROE range recommendation, I
7 recommend a 9.5 percent ROE for Avista, which is the bottom of my recommended
8 range. This is appropriate due to the risk-reducing attributes of the MYRP aspects of SB
9 5295, as well as the Commission’s practice of employing gradualism in changing ROEs
10 for utilities.

11
12 **Q. Are there any additional factors that should be considered in determining the**
13 **appropriate ROE for Avista in this proceeding?**

14 A. Yes, there are. First, as I noted previously, the positive impacts of SB 5295 are now
15 more clearly in focus and have the effect of reducing the risk of Avista.

16 In addition, this Commission has consistently applied a principle of gradualism in
17 setting the ROEs for the utilities in the State. The Commission has stated:⁷¹

18 “When considering changes to a regulated utility’s authorized ROE, we endeavor
19 to avoid material adjustments, upward or downward, in authorized levels to
20 provide stability and assurance to investors and others regarding the regulatory
21 environment supporting the financial integrity of the utility. Based on the
22 evidence produced by the various expert witnesses, we generally determine
23 whether modest increases, if any, to currently authorized levels are appropriate
24 given the evidence produced in the immediate proceeding.”⁷²

⁷¹ *Wash. Util. & Transp. Comm’n v. Puget Sound Energy Inc.*, Dockets UE-190529, et al., Final Order 08, 35 ¶ 105 (July 8, 2020).

⁷² *Wash. Util. & Trans. Comm’n v. Avista Corp.*, Dockets UE-170485, UG-170486, UE-171221 & UG-171222, Order 07/02/02, 28 ¶ 68 (Apr. 26, 2018).

1 I also note that gradualism was cited in the Commission’s Decision in the last
2 Avista litigated rate proceeding.⁷³

3 Based on these factors, my 9.5 percent ROE recommendation, which is 0.10
4 percent higher than Avista’s currently authorized 9.4 percent, is reasonable and
5 appropriate.

6
7 **Q. How does your 9.5 percent ROE recommendation compare to the authorized ROEs
8 that Avista currently has in its other jurisdictions?**

9 A. Avista currently has authorized ROEs of 9.5 percent or below in each of its other
10 jurisdictions (i.e., 9.4 percent in Idaho and 9.5 percent in Oregon).⁷⁴

11
12 **XIII. TOTAL COST OF CAPITAL**

13
14 **Q. What is the total COC for Avista?**

15 A. Exh. DCP-3 reflects the total COC for Avista using the Company’s 2025 and 2026
16 capital structures and embedded costs of debt, as well as 2024, along with my ROE
17 recommendations.

18
19 **XIV. COMMENTS ON COMPANY TESTIMONY**

20
21 **Q. What ROE is Avista requesting in this proceeding?**

⁷³ *Wash. Util. Transp. Comm’n v. Avista Corp. d/b/a Avista Util.*, Dockets UE-200900, UG-200901, & UE-200894, Final Order 08/05, at 38 ¶ 97 (Sept. 27, 2021).

⁷⁴ See Exh. DCP-17, Response to Data Request Staff -011.

1 A. Avista is requesting a 10.4 percent ROE for both its electric and natural gas operations.
2 This 10.4 percent ROE is sponsored by Company witness McKenzie.⁷⁵

3

4 **Q. What is the basis of Company witness McKenzie’s 10.4 percent ROE**
5 **recommendation?**

6 A. Company witness McKenzie’s ROE analyses are summarized on Exh. AMM-4. These
7 are shown as follows:

	<u>Result</u>
<u>DCF</u>	
Value Line	9.7%
IBES	10.7%
Zacks	9.9%
Internal br + sv	9.2%
<u>CAPM</u>	11.7%
<u>Empirical CAPM</u>	11.8%
<u>Utility Risk Premium</u>	10.8%
<u>Expected Earnings</u>	10.8%
<u>Cost of Equity Recommendation</u>	
Cost of Equity Range	10.3-11.3%
<u>Flotation Cost Adjustment</u>	
Flotation Cost Percentage Adjustment	0.08%
<u>ROE Recommended</u>	10.38-11.38%

18

19

20 **Q. Do you have any general comments on Company witness McKenzie’s methodologies**
21 **and conclusions?**

⁷⁵ McKenzie, Exh. AMM-1T at 5: 16-18.

1 A. Yes. Some of Company witness McKenzie's methodologies are biased in a way that
2 overstates the current and prospective ROE for the proxy group and for Avista. I have
3 previously addressed each of his methodologies and conclusions above.

4

5 **Q. What is your general assessment of Company's witness McKenzie's conclusion that**
6 **the required ROE for his proxy group is within a range of 10.38 percent to 11.38**
7 **percent?**

8 A. It is apparent that Company witness McKenzie's recommended ROE is excessive. In
9 addition, it is apparent that this recommendation is well outside the range of authorized
10 ROEs approved by state regulatory commissions for electric utilities in recent years, as I
11 cited earlier in my testimony. It is also significant that the currently average authorized
12 ROE for Company witness McKenzie's proxy group is 9.8 percent,⁷⁶ which is very
13 similar to the 9.75 percent midpoint of my recommended ROE range for my proxy group.

14

15 **Q. Do you agree with Company witness McKenzie's proposal to add a 0.08 percent**
16 **flotation cost adjustment to the ROE results?**

17 A. No, I do not. There has been no demonstration that Avista has or plans a public offering
18 of common stock with the intent of increasing the common equity ratio of Avista
19 Utilities. I note that the issuance of new shares through the dividend reinvestment plan
20 does not incur the same levels of flotation costs as do public offerings. In addition, even
21 if a public offering were to occur, it would be at a price that substantially exceeds the
22 book value of existing stock price, which results in a gain for existing shareholders.

⁷⁶ See, Exh. DCP-18, Response to Data Request Staff-019. Though not shown on Staff-019, the median authorized ROE for Company witness McKenzie's proxy group is 9.6%.

1 Flotation costs, to the extent that they occur, are known to investors and thus are reflected
2 in the stock prices of companies. As a result, any effect of flotation costs is incorporated
3 in DCF OE model results. As a result, there is no need to add flotation costs to the results
4 of ROE models, as Company witness McKenzie proposes.

5
6 **Q. Has the Commission rejected the inclusion of flotation costs for Avista?**

7 A. The Commission rejected Avista’s request to include flotation costs in the 2017 general
8 rate case, noting that while flotation costs “may be legitimate adjustments made during
9 the underwriting process” the company did not demonstrate it actually incurred such
10 costs during the test year.⁷⁷ In addition, the Commission again rejected Company witness
11 McKenzie’s proposed flotation cost adjustment in the 2020 general rate case.⁷⁸ Avista
12 has not demonstrated the existence of any such costs in the instant case either.

13
14 **Q. Do you have any additional comments on Company witness McKenzie’s testimony
15 and recommendations in this proceeding?**

16 A. Yes, I do. Company witness McKenzie makes the following claim as support for a
17 higher ROE for Avista:

18 “Yields on Baa-rated utility bonds have increased more than 300 basis points
19 since the Commission’s order in Dockets UE-200900 and UG-200901 and more
20 than 100 basis points since the Full Multiparty Settlement Stipulation
21 (“Stipulation”) in Dockets UE-220053 and UG-220054 (see Table 1). These
22 higher bond yields document a substantial increase in capital costs and support a
23 significant increase in the Company’s authorized ROE.⁷⁹
24

⁷⁷ 30 ¶ 76.

⁷⁸ *Wash. Util. Transp. Comm’n v. Avista Corp. d/b/a Avista Util.*, Dockets UE-200900, UG-200901 & UE-200894, Final Order 08/05, at 38 ¶ 99 (Sept. 27, 2021).

⁷⁹ McKenzie, Exh. AMM-1T at 9:13-18.

1 It is clear from this statement that Company witness McKenzie is maintaining that
2 recent increases in interest rates, in comparison to interest rates at the time of Avista's
3 two most recent rate proceedings, signifies a substantial increase in the required ROE for
4 the Company.

5
6 **Q. Is this conclusion consistent with Company witness McKenzie's position regarding**
7 **the impact of interest rates on required ROE in the two cited Avista proceedings?**

8 A. No it is not consistent. In fact, Company witness McKenzie's recommendations as to the
9 impact of interest rates on the required ROE are the opposite in the prior Avista
10 proceedings versus the current proceeding.

11 For example, in the Dockets UE-2009900/UG-200901, Company witness
12 McKenzie noted that "Treasury bond yields may be disproportionately impacted by
13 monetary policies, such as quantitative easing, designed with the express purpose of
14 artificially suppressing bond yields."⁸⁰

15 Company witness McKenzie also noted the following views on the relevance of
16 then-current interest rates on the ROE:

17 Q. Do trends in the yields on Treasury notes and bonds accurately reflect the
18 expectations and requirements of the Company's equity investors?

19 A. No. While Treasury bond yields provide one indicator of capital costs, they
20 do not serve as a direct guide to the magnitude – or even direction – for changes
21 in the cost of equity for utilities.⁸¹
22

23 Is thus clear that Company witness McKenzie is inconsistent between these
24 respective testimonies. What is being suggested is that the artificially depressed level of

⁸⁰ See, McKenzie, Exh. AMM-15T at 18: 8-10 in Dockets UE-200901 & UG-200901.

⁸¹ See, McKenzie, Exh. AMM-1T at 27: 3-13 in Dockets UE-200900 & UG-200901.

1 interest rates being used to measure changes between cases (i.e., interest rate yields in
2 2000 and 2022, when the Federal Reserve monetary policy was artificially pushing
3 interest rates to low levels) is now being used as the “base” for measuring the increase in
4 interest rates since that time. Company witness McKenzie cannot have it both ways. If
5 interest rates at the time of the last two Avista cases did not reflect a “market determined”
6 measure of the cost of debt, then changes since that time cannot reflect a measure of
7 changes in the cost of debt. I also note that the fact that the Federal Reserve is now
8 taking the opposite direction on monetary policy (i.e., artificially inflating interest rates to
9 control inflation) makes Company witness McKenzie’s claims even more inconsistent.⁸²

10

11 **Q. Does this conclude your testimony?**

12 **A. Yes.**

⁸² Note that McKenzie, Exh. AMM-1T, at 34, Table 1, shows similar both Treasury securities and utility bond yields have changes similarly over this period, such that there is no meaningful distinction between comments on the two types of debt securities.