

Dylan W. D'Ascendis

Direct Testimony and Exhibit

BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION

**IN THE MATTER OF THE APPLICATION)
OF NEW MEXICO GAS COMPANY, INC.)
FOR APPROVAL OF REVISIONS TO ITS)
RATES, RULES, AND CHARGES PURSUANT)
TO ADVICE NOTICE NO. 96) Case No. 23- 00255UT
NEW MEXICO GAS COMPANY, INC.)
Applicant.)**

**DIRECT TESTIMONY AND EXHIBIT
OF
DYLAN W. D'ASCENDIS**

September 14, 2023

**DIRECT TESTIMONY OF
DYLAN W. D’ASCENDIS
NMPRC CASE NO. 23-00255-UT
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1 **I. INTRODUCTION**

2 **A. Witness Identification**

3 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

4 A. My name is Dylan W. D’Ascendis. My business address is 3000 Atrium Way, Suite
5 200, Mount Laurel, NJ 08054.

6

7 **Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

8 A. I am a Partner at ScottMadden, Inc.

9

10 **B. Background and Qualifications**

11 **Q. PLEASE SUMMARIZE YOUR PROFESSIONAL EXPERIENCE AND**
12 **EDUCATIONAL BACKGROUND.**

13 A. I have offered expert testimony on behalf of investor-owned utilities in over 35 state
14 regulatory commissions in the United States, the Federal Energy Regulatory
15 Commission, the Alberta Utility Commission, one American Arbitration
16 Association panel, and the Superior Court of Rhode Island on issues including, but
17 not limited to, common equity cost rate, rate of return, valuation, capital structure,
18 class cost of service, and rate design.

19

20 On behalf of the American Gas Association (“AGA”), I calculate the AGA Gas
21 Index, which serves as the benchmark against which the performance of the
22 American Gas Index Fund (“AGIF”) is measured on a monthly basis. The AGA
23 Gas Index and AGIF are a market capitalization weighted index and mutual fund,

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1 respectively, comprised of the common stocks of the publicly traded corporate
2 members of the AGA.

3
4 I am a member of the Society of Utility and Regulatory Financial Analysts
5 (“SURFA”). In 2011, I was awarded the professional designation "Certified Rate
6 of Return Analyst" by SURFA, which is based on education, experience, and the
7 successful completion of a comprehensive written examination.

8
9 I am also a member of the National Association of Certified Valuation Analysts
10 (“NACVA”) and was awarded the professional designation “Certified Valuation
11 Analyst” by the NACVA in 2015.

12
13 I am a graduate of the University of Pennsylvania, where I received a Bachelor of
14 Arts degree in Economic History. I have also received a Master of Business
15 Administration with high honors and concentrations in Finance and International
16 Business from Rutgers University.

17
18 The details of my educational background and expert witness appearances are
19 included in Appendix A.

20

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1 **II. PURPOSE OF TESTIMONY**

2 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS**
3 **PROCEEDING?**

4 **A.** The purpose of my testimony is to present evidence on behalf of New Mexico Gas
5 Company, Inc. (“NMGC” or the “Company”) regarding the appropriate rate of
6 return on common equity (“ROE”) for the Company’s jurisdictional rate base. I also
7 evaluate the reasonableness of the Company’s requested capital structure.

8

9 **Q. HAVE YOU PREPARED AN EXHIBIT IN SUPPORT OF YOUR**
10 **RECOMMENDATION?**

11 **A.** Yes. I have prepared NMGC Exhibit DWD-1, which consists of Schedules DWD-
12 1 through DWD-9.

13

14 **Q. ARE YOU SPONSORING ANY OF THE INFORMATION REQUIRED**
15 **UNDER 17.10.630 NMAC?**

16 **A.** Yes, I am sponsoring the information contained in Schedule G-10 – Summary of
17 Requested Rate of Return.

18

19 **III. SUMMARY**

20 **Q. WHAT ARE YOUR RECOMMENDATIONS?**

21 **A.** I recommend that the New Mexico Public Regulation Commission (“NMPRC” or
22 the “Commission”) authorize NMGC the opportunity to earn a weighted average
23 cost of capital (“WACC”) of 7.38% on its jurisdictional rate base. I recommend

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1 that the Commission approve the Company's requested capital structure which
2 consists of 47.00% long-term debt and 53.00% common equity, as it is consistent
3 with current and expected capital structures maintained by the Proxy Group of
4 Natural Gas Utility companies comparable in risk to NMGC ("Utility Proxy
5 Group") and their operating subsidiaries. The 3.86% cost of long-term debt for the
6 Company is their 13-month average cost of debt at the end of the future test year in
7 accordance with Commission rules. My recommended ROE for the Company is
8 10.50%, as will be discussed in detail below. The summary of the Company's
9 requested WACC are shown on page 1 of Schedule DWD-1, and on Table 1, below.

10 **Table 1: Summary of Recommended Weighted Average Cost of Capital**
11 **for NMGC**

<u>Type of Capital</u>	<u>Ratios</u>	<u>Cost Rate</u>	<u>Weighted Cost Rate</u>
Long-Term Debt	47.00%	3.86%	1.81%
Common Equity	<u>53.00%</u>	10.50%	<u>5.57%</u>
Total	<u>100.00%</u>		<u>7.38%</u>

12
13 **Q. PLEASE SUMMARIZE YOUR RECOMMENDED COMMON EQUITY**
14 **COST RATE.**

15 A. My recommended ROE of 10.50% applicable to NMGC is summarized on page 2
16 of Schedule DWD-1. I have assessed the market-based common equity cost rates
17 of companies of relatively similar, but not necessarily identical, risk to the
18 Company. Using companies of relatively comparable risk as proxies is consistent

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1 with the principles of fair rate of return established in the *Hope*¹ and *Bluefield*²
2 decisions. No proxy group can be identical in risk to any single company.
3 Consequently, there must be an evaluation of relative risk between the Company
4 and a proxy group to determine if it is appropriate to adjust the proxy group's
5 indicated rate of return.

6
7 My recommendation results from applying several cost of common equity models,
8 specifically the Discounted Cash Flow ("DCF") model, the Risk Premium Model
9 ("RPM"), and the Capital Asset Pricing Model ("CAPM"), to the market data of
10 the Utility Proxy Group whose selection criteria will be discussed below. In
11 addition, I applied the DCF model, RPM, and CAPM to a proxy group of domestic,
12 non-price regulated companies comparable in total risk to the Utility Proxy Group
13 ("Non-Price Regulated Proxy Group"). The results derived from each are as
14 follows:

15

¹ *Federal Power Comm'n v. Hope Natural Gas Co.*, 320 U.S. 591 (1944) ("Hope").

² *Bluefield Water Works Improvement Co. v. Public Serv. Comm'n*, 262 U.S. 679 (1922).

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1

Table 2: Summary of Common Equity Cost Rates

Discounted Cash Flow Model (DCF)	9.65%
Risk Premium Model (RPM)	10.85%
Capital Asset Pricing Model (CAPM)	11.69%
Cost of Equity Models Applied to Comparable Risk, Non-Price Regulated Companies	<u>12.15%</u>
Indicated Range of Common Equity Cost Rates Before Adjustments	9.65% - 12.15%
Business Risk Adjustment	0.20%
Credit Risk Adjustment	0.23%
Flotation Cost Adjustment	0.09%
Recommended Range	<u>10.17% - 12.67%</u>
Recommended Cost of Equity Cost Rate	<u>10.50%</u>

2

3

The indicated ranges of common equity cost rates applicable to the Utility Proxy Group was between 9.65% and 12.15% before any Company-specific adjustments.

4

5

The indicated range of ROEs applicable to the Utility Proxy Group was then adjusted upward by 0.20%, 0.23%, and 0.09% to reflect the Company's smaller relative size, greater relative credit risk, and flotation costs, respectively. These

6

7

adjustments resulted in a Company-specific range of ROEs from 10.17% to

8

9

12.67%. Given the indicated range of common equity cost rates for the Company,

10

I recommend the Commission to approve a common equity cost rate of 10.50% for

11

NMGC in this proceeding, which is both reasonable and conservative.

12

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1 **Q. HOW IS THE REMAINDER OF YOUR DIRECT TESTIMONY**
2 **ORGANIZED?**

3 A. The remainder of my Direct Testimony is organized as follows:

- 4 • Section IV – Provides a summary of financial theory and regulatory
5 principles pertinent to the development of the cost of common equity;
- 6 • Section V – Explains my selection of the Utility Proxy Group used to
7 develop my cost of common equity analytical results;
- 8 • Section VI – Explains the reasonableness of the proposed capital structure;
- 9 • Section VII – Describes the analyses on which my cost of common equity
10 recommendation is based;
- 11 • Section VIII – Summarizes my common equity cost rate before adjustments
12 to reflect Company-specific factors;
- 13 • Section IX – Explains my adjustments to my common equity cost rate to
14 reflect Company-specific factors; and
- 15 • Section X – Presents my conclusions.

16
17 **IV. GENERAL PRINCIPLES**

18 **Q. WHAT GENERAL PRINCIPLES HAVE YOU CONSIDERED IN**
19 **ARRIVING AT YOUR RECOMMENDED COMMON EQUITY COST**
20 **RATE?**

21 **A.** In unregulated industries, marketplace competition is the principal determinant of
22 the price of products or services. For regulated public utilities, regulation must act

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1 as a substitute for marketplace competition. Assuring that the utility can fulfill its
2 obligations to the public, while providing safe and reliable service at all times,
3 requires a level of earnings sufficient to maintain the integrity of presently invested
4 capital. Sufficient earnings also permit the attraction of needed new capital at a
5 reasonable cost, for which the utility must compete with other firms of comparable
6 risk, consistent with the fair rate of return standards established by the U.S.
7 Supreme Court in the previously cited *Hope* and *Bluefield* cases. The U.S. Supreme
8 Court affirmed the fair rate of return standards in *Hope*, when it stated:

9 The rate-making process under the Act, *i.e.*, the fixing of 'just and
10 reasonable' rates, involves a balancing of the investor and the consumer
11 interests. Thus we stated in the *Natural Gas Pipeline Co.* case that
12 'regulation does not insure that the business shall produce net revenues.'
13 315 U.S. at page 590, 62 S.Ct. at page 745. But such considerations
14 aside, the investor interest has a legitimate concern with the financial
15 integrity of the company whose rates are being regulated. From the
16 investor or company point of view it is important that there be enough
17 revenue not only for operating expenses but also for the capital costs of
18 the business. These include service on the debt and dividends on the
19 stock. Cf. *Chicago & Grand Trunk R. Co. v. Wellman*, 143 U.S. 339,
20 345, 346 12 S.Ct. 400,402. By that standard the return to the equity
21 owner should be commensurate with returns on investments in other
22 enterprises having corresponding risks. That return, moreover, should
23 be sufficient to assure confidence in the financial integrity of the
24 enterprise, so as to maintain its credit and to attract capital.³

25
26 In summary, the U.S. Supreme Court has found a return that is adequate to attract
27 capital at reasonable terms enables the utility to provide service while maintaining
28 its financial integrity. As discussed above, and in keeping with established
29 regulatory standards, that return should be commensurate with the returns expected

³ *Hope*, 320 U.S. 591 (1944), at 603.

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1 elsewhere for investments of equivalent risk. Therefore, the Commission's
2 decision in this proceeding should provide the Company with the opportunity to
3 earn a return that is: (1) adequate to attract capital at a reasonable cost and terms;
4 (2) sufficient to ensure their financial integrity; and (3) commensurate with returns
5 on investments in enterprises having corresponding risks.

6
7 Lastly, the required return for a regulated public utility is established on a stand-
8 alone basis, i.e., for the utility operating company at issue in a rate case. Parent
9 entities, like other investors, have capital constraints and must look at the
10 attractiveness of the expected risk-adjusted return of each investment alternative in
11 their capital budgeting process. That is, utility holding companies that own many
12 utility operating companies have choices as to where they will invest their capital
13 within the holding company family. Therefore, the opportunity cost concept applies
14 regardless of the source of the funding, whether it be public funding or corporate
15 funding.

16
17 When funding is provided by a parent entity, the return still must be sufficient to
18 provide an incentive to allocate equity capital to the subsidiary or business unit
19 rather than other internal or external investment opportunities. That is, the
20 regulated subsidiary must compete for capital with all the parent company's
21 affiliates, and with other, similarly situated companies. In that regard, investors
22 value corporate entities on a sum-of-the-parts basis and expect each division within
23 the parent company to provide an appropriate risk-adjusted return.

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1 It therefore is important that the authorized ROE reflects the risks and prospects of
2 the utility's operations and supports the utility's financial integrity from a stand-
3 alone perspective, as measured by its combined business and financial risks.
4 Consequently, the ROE authorized in this proceeding should be sufficient to
5 support the operational (i.e., business risk) and financing (i.e., financial risk) of the
6 Company on a stand-alone basis.

7
8 **Q. WITHIN THAT BROAD FRAMEWORK, HOW IS THE COST OF**
9 **CAPITAL ESTIMATED IN REGULATORY PROCEEDINGS?**

10 **A.** Regulated utilities primarily use common stock and long-term debt to finance their
11 permanent property, plant, and equipment (i.e., rate base). The fair rate of return
12 for a regulated utility is based on its weighted average cost of capital, in which, as
13 noted earlier, the costs of the individual sources of capital are weighted by their
14 respective book values with appropriate adjustments.

15
16 The cost of capital is the return investors require to make an investment in a firm.
17 Investors will provide funds to a firm only if the return that they *expect* is equal to,
18 or greater than, the return that they *require* to accept the risk of providing funds to
19 the firm.

20
21 The cost of capital (that is, the combination of the costs of debt and equity) is based
22 on the economic principle of "opportunity costs." Investing in any asset (whether
23 debt or equity securities) represents a forgone opportunity to invest in alternative

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1 assets. For any investment to be sensible, its expected return must be at least equal
2 to the return expected on alternative, comparable risk investment opportunities.
3 Because investments with like risks should offer similar returns, the opportunity
4 cost of an investment should equal the return available on an investment of
5 comparable risk.

6
7 Whereas the cost of debt is contractually defined and can be directly observed as
8 the interest rate or yield on debt securities, the cost of common equity must be
9 estimated based on market data and various financial models. Because the cost of
10 common equity is premised on opportunity costs, the models used to determine it
11 are typically applied to a group of “comparable” or “proxy” companies.

12
13 In the end, the estimated cost of capital should reflect the return that investors
14 require in light of the subject company’s business and financial risks, and the
15 returns available on comparable investments.

16

17 **Q. IS THE AUTHORIZED RETURN SET IN REGULATORY PROCEEDINGS**
18 **GUARANTEED?**

19 A. No, it is not. Consistent with the *Hope* and *Bluefield* standards, the ratemaking
20 process should provide the utility a reasonable opportunity to recover its return of,
21 and return on, its reasonably incurred investments, but it does not guarantee that
22 return. While a utility may have control over some factors that affect the ability to
23 earn its authorized return (e.g., management performance, operating and

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1 maintenance expenses, etc.), there are several factors beyond a utility's control that
2 affect its ability to earn its authorized return. Those may include factors such as
3 weather, the economy, and the prevalence and magnitude of regulatory lag.

4
5 **A. Business Risk**

6 **Q. PLEASE DEFINE BUSINESS RISK AND EXPLAIN WHY IT IS**
7 **IMPORTANT FOR DETERMINING A FAIR RATE OF RETURN.**

8 A. The investor-required return on common equity reflects investors' assessment of
9 the total investment risk of the subject firm. Total investment risk is often discussed
10 in the context of business and financial risk.

11
12 Business risk reflects the uncertainty associated with owning a company's common
13 stock without the company's use of debt and/or preferred stock financing. One way
14 of considering the distinction between business and financial risk is to view the
15 former as the uncertainty of the expected earned return on common equity,
16 assuming the firm is financed with no debt.

17
18 Examples of business risks generally faced by utilities include, but are not limited
19 to, the regulatory environment, mandatory environmental compliance
20 requirements, customer mix and concentration of customers, service territory
21 economic conditions, market demand, risks and uncertainties of supply, operations,
22 capital intensity, size, the degree of operating leverage, emerging technologies
23 including distributed energy resources, and the vagaries of weather.

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1 Although analysts, including rating agencies, may categorize business risks
2 individually, as a practical matter, such risks are interrelated and not wholly distinct
3 from one another. When determining an appropriate return on common equity, the
4 relevant issue is where investors see the subject company in relation to other
5 similarly situated utility companies (i.e., the Utility Proxy Group). To the extent
6 investors view a company as being exposed to higher risk, the required return will
7 increase, and vice versa.

8
9 For regulated utilities, business risks are both long-term and near-term in nature.
10 Whereas near-term business risks are reflected in year-to-year variability in
11 earnings and cash flow brought about by economic or regulatory factors, long-term
12 business risks reflect the prospect of an impaired ability of investors to obtain both
13 a fair rate of return on, and return of, their capital. Moreover, because utilities
14 accept the obligation to provide safe, adequate, and reliable service at all times (in
15 exchange for the opportunity to earn a fair return on their investment), they
16 generally do not have the option to delay, defer, or reject capital investments.
17 Because those investments are capital-intensive, utilities generally do not have the
18 option to avoid raising external funds during periods of capital market distress, if
19 necessary.

20
21 Because utilities invest in long-lived assets, long-term business risks are of
22 paramount concern to equity investors. That is, the risk of not recovering the return
23 on their investment extends far into the future. The timing and nature of events that

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1 may lead to losses, however, also are uncertain and, consequently, those risks and
2 their implications for the required return on equity tend to be difficult to quantify.
3 Regulatory commissions (like investors who commit their capital) must review a
4 variety of quantitative and qualitative data and apply their reasoned judgment to
5 determine how long-term risks weigh in their assessment of the market-required
6 return on common equity.

7
8 **B. Financial Risk**

9 **Q. PLEASE DEFINE FINANCIAL RISK AND EXPLAIN WHY IT IS**
10 **IMPORTANT IN DETERMINING A FAIR RATE OF RETURN.**

11 A. Financial risk is the additional risk created by the introduction of debt and preferred
12 stock into the capital structure. The higher the proportion of debt and preferred
13 stock in the capital structure, the higher the financial risk to common equity owners
14 (i.e., failure to receive dividends due to default or other covenants). Therefore,
15 consistent with the basic financial principle of risk and return, common equity
16 investors demand higher returns as compensation for bearing higher financial risk.

17
18 **Q. CAN BOND AND CREDIT RATINGS BE A PROXY FOR A FIRM'S**
19 **COMBINED BUSINESS AND FINANCIAL RISKS TO EQUITY OWNERS**
20 **(I.E., INVESTMENT RISK)?**

21 A. Yes, similar bond ratings/issuer credit ratings reflect, and are representative of,
22 similar combined business and financial risks (i.e., total risk) faced by bond
23 investors. Although specific business or financial risks may differ between

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1 companies, the same bond/credit rating indicates that the combined risks are
2 roughly similar from a debtholder perspective. The caveat is that these debtholder
3 risk measures do not translate directly to risks for common equity.

4
5 **V. NEW MEXICO GAS COMPANY AND THE UTILITY PROXY GROUP**

6 **Q. PLEASE SUMMARIZE YOUR KNOWLEDGE OF NMGC.**

7 **A.** Based in Albuquerque, NMGC functions as a natural gas distribution utility and as
8 a natural gas transmission utility. NMGC maintains 12,000 miles of natural gas
9 pipeline to provide service to more than 545,000 residential, commercial and
10 transportation customers. Strategically situated between two large natural gas
11 production basins, the Company's service area encompasses 60% of the population
12 of New Mexico. The Company has a BBB+ long-term issuer rating from Fitch
13 Ratings and is not rated by Moody's Investor Services ("Moody's") or Standard &
14 Poor's ("S&P"). The Company is not publicly traded as it is an operating subsidiary
15 of Emera, Inc. Emera, Inc. is publicly traded under ticker symbol "EMA.TO".

16
17 **Q. WHY IS IT NECESSARY TO DEVELOP A PROXY GROUP WHEN
18 ESTIMATING THE ROE FOR THE COMPANY?**

19 **A.** Because the Company is not publicly traded and does not have publicly traded
20 equity securities, it is necessary to develop groups of publicly traded, comparable
21 companies to serve as "proxies" for the Company. In addition to the analytical
22 necessity of doing so, the use of proxy companies is consistent with the *Hope* and
23 *Bluefield* comparable risk standards, as discussed above. I have selected two proxy

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1 groups that, in my view, are fundamentally risk-comparable to the Company: a
2 Utility Proxy Group, and a Non-Price Regulated Proxy Group, that is comparable
3 in total risk to the Utility Proxy Group.⁴

4
5 Even when proxy groups are carefully selected, it is common for analytical results
6 to vary from company to company. Despite the care taken to ensure comparability,
7 because no two companies are identical, market expectations regarding future risks
8 and prospects will vary within the proxy group. It therefore is common for
9 analytical results to reflect a seemingly wide range, even for a group of similarly
10 situated companies. At issue is how to estimate the ROE from within that range.
11 That determination will be best informed by employing a variety of sound analyses
12 that necessarily must consider the sort of quantitative and qualitative information
13 discussed throughout my Direct Testimony. Additionally, a relative risk analysis
14 between the Company and the Utility Proxy Group must be made to determine
15 whether or not explicit Company-specific adjustments need to be made to the
16 Utility Proxy Group's indicated results.

17
18 My analyses are based on the Utility Proxy Group, which is comprised of North
19 American gas distribution utilities. As discussed earlier, utilities must compete for
20 capital with other companies with commensurate risk (including non-utilities) and,
21 to do so, must be provided the opportunity to earn a fair and reasonable return.

⁴ The development of the Non-Price Regulated Proxy Group is explained in more detail in Section VII.

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1 Consequently, it is appropriate to consider the Utility Proxy Group's market data
2 in determining the Company's ROE.

3 .

4 **Q. PLEASE EXPLAIN HOW YOU CHOSE THE COMPANIES IN THE**
5 **UTILITY PROXY GROUP.**

6 **A.** The companies selected for the Utility Proxy Group met the following criteria:

7 (i) They were included in the Natural Gas Utility Group of *Value Line's*
8 *Standard Edition* ("Value Line") (May 26, 2023);

9 (ii) They have 60% or greater of fiscal year 2022 total operating income derived
10 from, or 60% or greater of fiscal year 2022 total assets attributable to,
11 regulated gas distribution operations;

12 (iii) At the time of preparation of this testimony, they had not publicly
13 announced that they were involved in any major merger or acquisition
14 activity (i.e., one publicly-traded utility merging with or acquiring another)
15 or any other major development;

16 (iv) They have not cut or omitted their common dividends during the five years
17 ended 2022 or through the time of preparation of this testimony;

18 (v) They have *Value Line* and Bloomberg Professional Services ("Bloomberg")
19 adjusted Beta coefficients ("beta");

20 (vi) They have positive *Value Line* five-year dividends per share ("DPS")
21 growth rate projections; and

22 (vii) They have *Value Line*, Zacks, or Yahoo! Finance consensus five-year
23 earnings per share ("EPS") growth rate projections.

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1 The following six companies met these criteria:

2 **Table 3: Utility Proxy Group Companies**

Company Name	Ticker Symbol
Atmos Energy Corporation	ATO
New Jersey Resources Corporation	NJR
NiSource, Inc.	NI
Northwest Natural Holding Company	NWN
ONE Gas, Inc.	OGS
Spire, Inc.	SR

3

4

5 **Q. PLEASE DESCRIBE PAGE 1 OF SCHEDULE DWD-2.**

6 A. Page 1 of Schedule DWD-2 contains comparative capitalization and financial
7 statistics for the Utility Proxy Group identified above for the years 2018 to 2022.

8

9 **VI. CAPITAL STRUCTURE AND LONG-TERM DEBT COST RATE**

10 **Q. WHAT IS THE COMPANY'S REQUESTED RATEMAKING CAPITAL
11 STRUCTURE?**

12 A. As discussed in NMGC Witness Erik C. Buchanan's Testimony, the Company
13 requests the use of an imputed capital structure which consists of 47.00% long-term
14 debt and 53.00% common equity.

15

16 **Q. DOES NMGC HAVE A SEPARATE CAPITAL STRUCTURE THAT IS
17 RECOGNIZED BY INVESTORS?**

18 A. Yes. NMGC is a separate corporate entity that has its own capital structure and
19 issues its own debt.

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1 **Q. WHAT ARE THE TYPICAL SOURCES OF CAPITAL COMMONLY**
2 **CONSIDERED IN ESTABLISHING A UTILITY'S CAPITAL**
3 **STRUCTURE?**

4 **A.** Common equity and long-term debt are commonly considered in establishing a
5 utility's capital structure because they are the typical sources of capital financing a
6 utility's rate base.

7
8 **Q. PLEASE EXPLAIN.**

9 **A.** Long-lived assets are typically financed with long-lived securities, so that the
10 overall term structure of the utility's long-term liabilities (both debt and equity)
11 closely match the life of the assets being financed. As stated by Brigham and
12 Houston:

13 In practice, firms don't finance each specific asset with a type of
14 capital that has a maturity equal to the asset's life. However,
15 academic studies do show that most firms tend to finance short-
16 term assets from short-term sources and long-term assets from
17 long-term sources.⁵

18

19 Whereas short-term debt generally has a maturity of one year or less, long-term
20 debt may have maturities of 30 years or longer. Although there are practical
21 financing constraints, such as the need to "stagger" long-term debt maturities, the
22 general objective is to extend the average life of long-term debt. Still, long-term
23 debt has a finite life, which is likely to be less than the life of the assets included in

⁵ Eugene F. Brigham and Joel F. Houston, Fundamentals of Financial Management, Concise 4th Ed., Thomson South-Western, 2004, at 574.

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1 rate base. Common equity, on the other hand, is outstanding into perpetuity. Thus,
2 common equity more accurately matches the life of the going concern of the utility,
3 which is also assumed to operate in perpetuity. Consequently, it is both typical and
4 important for utilities to have significant proportions of common equity in their
5 capital structures.

6
7 **Q. WHY IS IT IMPORTANT THAT THE COMPANY'S RECOMMENDED**
8 **CAPITAL STRUCTURE, CONSISTING OF 47.00% LONG-TERM DEBT**
9 **AND 53.00% COMMON EQUITY, BE AUTHORIZED IN THIS**
10 **PROCEEDING?**

11 **A.** As a preliminary matter, the Company's recommended capital structure is
12 comparable to the capital structures maintained by the Utility Proxy Group
13 companies and their operating subsidiaries.⁶ The use of an operating subsidiary's
14 capital structure is consistent with the Federal Energy Regulatory Commission
15 ("FERC") precedent, under which they use the applicant's capital structure, where
16 possible.⁷ In particular, the FERC will use the utility operating company's capital
17 structure if it meets three criteria: (1) it issues its own debt without guarantees; (2)
18 it has its own bond rating; and (3) it has a capital structure within the range of
19 capital structures approved by the commission.⁸ The Company's requested capital
20 structure meets all of these criteria.

⁶ See, Schedule DWD-2.

⁷ See, *Transcontinental Gas Pipe Line Corp*, 80 FERC ¶ 61,157, 61,657 (1997) ("Opinion No. 414").

⁸ 148 FERC ¶ 61,049 Docket No. EL14-12-000, at 190.

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1 In order to provide safe, reliable, and affordable service to its customers, NMGC
2 must meet the needs and serve the interests of its various stakeholders, including
3 customers, shareholders, and bondholders. The interests of these stakeholder
4 groups are aligned with maintaining a healthy balance sheet, strong credit ratings,
5 and a supportive regulatory environment, so that the Company has access to capital
6 on reasonable terms in order to make necessary investments.

7
8 Safe and reliable service cannot be maintained at a reasonable cost if utilities do
9 not have the financial flexibility and strength to access competitive financing
10 markets on reasonable terms. As NMGC Witness Erik C. Buchanan explains, an
11 appropriate capital structure is important not only to ensure long-term financial
12 integrity, it also is critical to enabling access to capital during constrained markets,
13 or when near-term liquidity is needed to fund extraordinary requirements. In that
14 important respect, the capital structure, and the financial strength it engenders, must
15 support both normal circumstances and periods of market uncertainty. Safe and
16 reliable service for customers cannot be sustained over the long term if the interests
17 of shareholders and bondholders are minimized such that the public interest is not
18 optimized. Consequently, NMGC's requested capital structure should be used to
19 set rates in this proceeding.

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1 **Q. HOW DOES NMGC’S REQUESTED COMMON EQUITY RATIO OF**
2 **53.00% COMPARE WITH THE COMMON EQUITY RATIOS**
3 **MAINTAINED BY THE UTILITY PROXY GROUP?**

4 **A.** The Company’s requested ratemaking common equity ratio of 53.00% is
5 reasonable and consistent with the range of common equity ratios maintained by
6 the Utility Proxy Group. As shown on page 2 of Schedule DWD-2, common equity
7 ratios of the Utility Proxy Group companies range from 34.43% to 62.21% for fiscal
8 year 2022.

9
10 I also considered *Value Line* projected capital structures for the utilities for 2026-
11 2028. That analysis shows a range of projected common equity ratios between
12 40.00% and 60.00%.⁹

13
14 In addition to comparing the Company’s requested common equity ratio with
15 common equity ratios currently and expected to be maintained by the Utility Proxy
16 Group, I also compared the Company’s requested common equity ratio with the
17 equity ratios maintained by the operating subsidiaries of the Utility Proxy Group
18 companies. As shown on page 3 of Schedule DWD-2, common equity ratios of the
19 operating utility subsidiaries of the Utility Proxy Group range from 33.79% to
20 59.89% for fiscal year end 2022.

⁹ See, pages 3 through 8 of Schedule DWD-3.

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1 **Q. IN VIEW OF THE ABOVE, IS NMGC'S RECOMMENDED EQUITY**
2 **RATIO OF 53.00% APPROPRIATE FOR RATEMAKING PURPOSES?**

3 **A.** Yes, it is. The Company's recommended equity ratio of 53.00% is appropriate for
4 ratemaking purposes in the current proceeding because it issues its own debt
5 without guarantees, it has its own credit rating, and its capital structure is within the
6 range of the common equity ratios currently maintained and expected to be
7 maintained, by the Utility Proxy Group and their operating subsidiaries.

8

9 **Q. WHAT IS YOUR RECOMMENDED EMBEDDED LONG-TERM DEBT**
10 **COST RATE FOR THE COMPANY?**

11 **A.** I recommend the 13-month average embedded long-term debt cost rate of the
12 Company at the end of the future test year, which is 3.86%.

13

14 **VII. COMMON EQUITY COST RATE MODELS**

15 **Q. IS IT IMPORTANT THAT COST OF COMMON EQUITY MODELS BE**
16 **MARKET-BASED?**

17 **A.** Yes. As discussed previously, regulated public utilities like NMGC must compete
18 for equity in capital markets along with all other companies with commensurate
19 risk, including non-utilities. The cost of common equity is thus determined based
20 on equity market expectations for the returns of those companies. If an individual
21 investor is choosing to invest their capital among companies with comparable risk,

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1 they will choose the company providing a higher return over a company providing
2 a lower return.

3

4 **Q. ARE YOUR COST OF COMMON EQUITY MODELS MARKET-BASED?**

5 **A.** Yes. The DCF model is market-based in that market prices are used in developing
6 the dividend yield component of the model. The RPM and CAPM are also market-
7 based in that the bond/issuer ratings and expected bond yields/risk-free rate used in
8 the application of the RPM and CAPM reflect the market's assessment of
9 bond/credit risk. In addition, the use of beta to determine the equity risk premium
10 also reflects the market's assessment of market/systematic risk, as betas are derived
11 from regression analyses of market prices. Moreover, market prices are used in the
12 development of the monthly returns and equity risk premiums used in the Predictive
13 Risk Premium Model ("PRPM"), one of the specific methods used in the RPM
14 analysis. Selection criteria for the Non-Price Regulated Proxy Group are based on
15 regression analyses of market prices and reflect the market's assessment of total
16 risk.

17

18 **Q. WHAT ANALYTICAL APPROACHES DID YOU USE TO DETERMINE**
19 **THE COMPANY'S ROE?**

20 **A.** As discussed earlier, I have relied on the DCF model, the RPM, and the CAPM,
21 which I applied to the Utility Proxy Group described above. I also applied these
22 same models to a Non-Price Regulated Proxy Group described later in this section.

23

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1 I rely on these models because reasonable investors use a variety of tools and do
2 not rely exclusively on a single source of information or single model. Moreover,
3 the models on which I rely focus on different aspects of return requirements and
4 provide different insights to investors' views of risk and return. The DCF model,
5 for example, estimates the investor-required return assuming a constant expected
6 dividend yield and growth rate in perpetuity, while risk premium-based methods
7 (i.e., the RPM and CAPM approaches) provide the ability to reflect investors' views
8 of risk, future market returns, and the relationship between interest rates and the
9 cost of common equity. Just as the use of market data for the Utility Proxy Group
10 adds the reliability necessary to inform expert judgment in arriving at a
11 recommended common equity cost rate, the use of multiple generally accepted
12 common equity cost rate models also adds reliability and accuracy when arriving
13 at a recommended common equity cost rate.

14

15 The use of multiple models also makes intuitive sense when we consider that
16 market prices are set by the buying and selling behavior of multiple investors,
17 whose circumstances, objectives, and constraints vary over time and across market
18 conditions. We cannot assume a single method is the best measure of the factors
19 motivating those decisions for all investors at all times. Giving undue weight to a
20 single method runs the very real risk of ignoring important information provided
21 by other methods.

22

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1 In other words, no single model is more reliable than all others under all market
2 conditions. Intuition suggests it is more appropriate to use as many methods as we
3 reasonably can and to reflect the many factors motivating investment decisions as
4 best we can. In this instance, intuition, financial theory,¹⁰ and financial practice
5 reach a common conclusion: we should apply and reasonably consider multiple
6 methods when estimating the ROE.

7
8 **Q. HAS NEW MEXICO NOTED THE IMPORTANCE OF REVIEWING**
9 **MULTIPLE METHODS IN PRIOR UTILITY PROCEEDINGS?**

10 **A.** Yes. Although I am not an attorney, I understand that in prior cases, the Supreme
11 Court of New Mexico (the “Court”) found that the Commission is not bound to a
12 single method. As the Court noted in *Hobbs Gas*:¹¹

13 Neither New Mexico case law nor the Public Utility Act imposes
14 any one particular method of valuation upon the Commission in
15 ascertaining the rate base of a utility. *Mountain States Tel. v.*
16 *New Mexico State Corp.*, 90 N.M. 325, 563 P.2d 588 (1977). Nor
17 does the spirit of the statute tie the Commission down to the
18 consideration of a single factor in establishing rates.¹²

19
20 Citing to its decision in *Mountain States Telephone*, the Court further noted that:

¹⁰ As Brigham explains: “Whereas debt and preferred stocks are contractual obligations which have easily determined costs, it is not at all easy to estimate [the ROE]. However, three methods can be used: (1) the Capital Asset Pricing Model (CAPM), (2) the discounted cash flow (DCF) model, and (3) the bond-yield-plus-risk-premium approach. These methods should not be regarded as mutually exclusive – no one dominates the others, and all are subject to error when used in practice. Therefore, when faced with the task of estimating a company’s cost of equity, we generally use all three methods and then choose among them on the basis of our confidence in the data used for each in the specific case at hand.” Eugene F. Brigham, Louis C. Gapenski, *Financial Management, Theory and Practice*, 7th ed., The Dryden Press, 1994, at 341.

¹¹ *Hobbs Gas Co. v. New Mexico Public Service Commission*, 94 N.M. 731 (1980).

¹² *Hobbs Gas Co. v. New Mexico Public Service Commission*, 94 N.M. 731 (1980), at 4.

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1 The Commission was not bound to the use of any single formula
2 or combination of formulae in determining rates. The rate-making
3 function involves the making of pragmatic adjustments. It is the
4 result reached, not the method employed, which is controlling.
5 (Citations omitted.)¹³

6

7 In *PNM Gas Services*, the Court likewise found that because of the complexity and
8 number of variables at issue in rate proceedings, the Commission is not bound to a
9 single formula. Again, the Court found that "...the rate-making function...involves
10 the making of pragmatic adjustments" and that in the end, "[i]t is the result reached,
11 not the method employed, which is controlling."¹⁴

12

13 Lastly, I understand that in *Zia Natural Gas*, the Court again cited back to *Mountain*
14 *States Telephone*, noting the importance of the "immediate economic situation":

15 [t]his Court can see no reason why it should adopt as the law of
16 this state any single formula which has been evolved out of this
17 history of litigation.... [T]he regulatory authorities seek a formula
18 which will adjust rates to the *immediate economic situation*
19 (emphasis added).¹⁵

20

21 My plain reading of those decisions suggests that although the Commission
22 historically has put emphasis on the constant growth DCF approach, it is not bound
23 to do so. Equally important, the Court found that the immediate economic situation
24 may call for "pragmatic adjustments" to the method used to establish the ROE, and

¹³ *Hobbs Gas Co. v. New Mexico Public Service Commission*, 94 N.M. 731 (1980), at 4.

¹⁴ *In re Petition of PNM Gas Services*, 129 N.M. 1 (2000), at 10.

¹⁵ *In re Zia Natural Gas Co.*, 128 N.M. 728 (2000), at 8.

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1 that it is the reasonableness of the ROE itself, rather than the methodology used in
2 its determination, that controls.

3

4 **A. Discounted Cash Flow Model**

5 **Q. WHAT IS THE THEORETICAL BASIS OF THE DCF MODEL?**

6 **A.** The theory underlying the DCF model is that the present value of an expected future
7 stream of net cash flows during the investment holding period can be determined
8 by discounting those cash flows at the cost of capital, or the investors' capitalization
9 rate. DCF theory indicates that an investor buys a stock for an expected total return
10 rate, which is derived from the cash flows received from dividends and market price
11 appreciation. Mathematically, the dividend yield on market price plus a growth rate
12 equals the capitalization rate; i.e., the total common equity return rate expected by
13 investors.

14

15 **Q. WHICH VERSION OF THE DCF MODEL DID YOU USE?**

16 **A.** I used the single-stage constant growth DCF model in my analyses.

17

18 **Q. PLEASE DESCRIBE THE DIVIDEND YIELD YOU USED IN APPLYING
19 THE CONSTANT GROWTH DCF MODEL.**

20 **A.** The unadjusted dividend yields are based on the proxy companies' dividends as of
21 July 14, 2023, divided by the average closing market price for the 60 trading days
22 ended July 14, 2023.¹⁶

¹⁶ See, Column 1, page 1 of Schedule DWD-3.

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1 **Q. PLEASE EXPLAIN YOUR ADJUSTMENT TO THE DIVIDEND YIELD.**

2 **A.** Because dividends are paid periodically (e.g. quarterly), as opposed to continuously
3 (daily), an adjustment must be made to the dividend yield. This is often referred to
4 as the discrete, or the “Gordon Periodic,” version of the DCF model.

5

6 DCF theory calls for using the full growth rate, or D_1 , in calculating the model’s
7 dividend yield component. Because the companies in the Utility Proxy Group
8 increase their quarterly dividends at various times during the year, a reasonable
9 assumption is to reflect one-half the annual dividend growth rate in the dividend
10 yield component, or $D_{1/2}$. Because the dividend should be representative of the next
11 12-month period, this adjustment is a conservative approach that does not overstate
12 the dividend yield. Therefore, the actual average dividend yields in Column 1, page
13 1 of Schedule DWD-3 have been adjusted upward to reflect one-half the average
14 projected growth rate shown in Column 5.

15

16 **Q. PLEASE EXPLAIN THE BASIS FOR THE GROWTH RATES YOU
17 APPLIED TO THE UTILITY PROXY GROUP IN YOUR CONSTANT
18 GROWTH DCF MODEL.**

19 **A.** Investors with more limited resources than institutional investors are likely to rely
20 on widely available financial information services, such as *Value Line*, Zacks, and
21 Yahoo! Finance. Investors realize that analysts have significant insight into the
22 dynamics of the industries and individual companies they analyze, as well as
23 companies’ abilities to effectively manage the effects of changing laws and

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1 regulations, and ever-changing economic and market conditions. For these reasons,
2 I used analysts' five-year forecasts of EPS growth in my DCF analysis.

3
4 Over the long run, there can be no growth in DPS without growth in EPS. Security
5 analysts' earnings expectations have a more significant influence on market prices
6 than dividend expectations. Thus, using earnings growth rates in a DCF analysis
7 provides a better match between investors' market price appreciation expectations
8 and the growth rate component of the DCF.

9
10 **Q. PLEASE SUMMARIZE THE CONSTANT GROWTH DCF MODEL**
11 **RESULTS.**

12 **A.** As shown on page 1 of Schedule DWD-3, for the Utility Proxy Group, the mean
13 result of applying the single-stage DCF model is 9.79%, the median result is 9.50%,
14 and the average of the two is 9.65%. In arriving at a conclusion for the constant
15 growth DCF-indicated common equity cost rate for the Utility Proxy Group, I relied
16 on an average of the mean and the median results of the DCF, or 9.65%. This
17 approach considers all the proxy utilities' results, while mitigating the high and low
18 outliers of those individual results.

19
20 **Q. DID YOU CONSIDER ANY OTHER CONSTANT GROWTH DCF MODEL**
21 **RESULTS?**

22 **A.** Yes, I did. I recognize that in prior orders, the Commission has relied exclusively
23 on a specific form of the constant growth DCF approach ("NM DCF").

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1 Specifically, that form has recently included a 30-day stock price averaging period,
2 a full dividend yield growth rate adjustment, and determined the ROE at the
3 midpoint of the proxy group mean and mean high DCF results. Consistent with the
4 Commission's prior precedent, I have included a NM DCF analysis incorporating
5 the Commission's preferred inputs, as shown on page 2 of Schedule DWD-3.

6

7 **Q. PLEASE EXPLAIN HOW YOU DETERMINED THE MEAN HIGH DCF**
8 **RESULTS FOR THE UTILITY PROXY GROUP.**

9 **A.** For each proxy company, I calculated the high DCF result by applying the highest
10 of the three growth rates to the expected dividend yield. The mean high DCF result
11 for the Utility Proxy Group is the average of the individual company indicated DCF
12 result.

13

14 **Q. PLEASE SUMMARIZE THE RESULTS OF THE NM DCF.**

15 **A.** As shown on page 2 of Schedule DWD-3, the NM DCF as applied to the Utility
16 Proxy Group indicated an ROE of 10.33%. While the model is presented in
17 Schedule DWD-3, I do not directly consider the NM DCF results in the calculation
18 of my recommended range of ROEs in this proceeding.

19

20 **B. The Risk Premium Model**

21 **Q. PLEASE DESCRIBE THE THEORETICAL BASIS OF THE RPM.**

22 **A.** The RPM is based on the fundamental financial principle of risk and return; namely,
23 that investors require greater returns for bearing greater risk. The RPM recognizes

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1 that common equity capital has greater investment risk than debt capital, as
2 common equity shareholders are behind debt holders in any claim on a company's
3 assets and earnings. As a result, investors require higher returns from common
4 stocks than from bonds to compensate them for bearing the additional risk.

5
6 While it is possible to directly observe bond returns and yields, investors' required
7 common equity returns cannot be directly determined or observed. According to
8 RPM theory, one can estimate a common equity risk premium over bonds (either
9 historically or prospectively) and use that premium to derive a cost rate of common
10 equity. The cost of common equity equals the expected cost rate for long-term debt
11 capital, plus a risk premium over that cost rate, to compensate common
12 shareholders for the added risk of being unsecured and last-in-line for any claim on
13 the corporation's assets and earnings upon liquidation.

14

15 **Q. PLEASE EXPLAIN HOW YOU DERIVED YOUR INDICATED COST OF**
16 **COMMON EQUITY BASED ON THE RPM.**

17 **A.** To derive my indicated cost of common equity under the RPM, I used two risk
18 premium methods. The first method was the PRPM and the second method was a
19 RPM using a total market approach. The PRPM estimates the risk-return
20 relationship directly, while the total market approach indirectly derives a risk
21 premium by using known metrics as a proxy for risk.

22

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1 **Q. PLEASE EXPLAIN THE PRPM.**

2 **A.** The PRPM, published in the *Journal of Regulatory Economics*,¹⁷ was developed
3 from the work of Robert F. Engle, who shared the Nobel Prize in Economics in
4 2003 “for methods of analyzing economic time series with time-varying volatility
5 (“ARCH”).¹⁸ Engle found that volatility changes over time and is related from
6 one period to the next, especially in financial markets. Engle discovered that
7 volatility of prices and returns clusters over time and is therefore highly predictable
8 and can be used to predict future levels of risk and risk premiums.

9
10 The PRPM estimates the risk-return relationship directly, as the predicted equity
11 risk premium is generated by predicting volatility or risk. The PRPM is not based
12 on an estimate of investor behavior, but rather on an evaluation of the results of that
13 behavior (i.e., the variance of historical equity risk premiums).

14
15 The inputs to the model are the historical returns on the common shares of each
16 Utility Proxy Group company minus the historical monthly yield on long-term U.S.
17 Treasury securities through June 2023. Using a generalized form of ARCH, known
18 as GARCH, I calculated each Utility Proxy Group company’s projected equity risk
19 premium using Eviews[®] statistical software. When the GARCH model is applied
20 to the historical return data, it produces a predicted GARCH variance series¹⁹ and a

¹⁷ Autoregressive conditional heteroscedasticity. See “A New Approach for Estimating the Equity Risk Premium for Public Utilities”, Pauline M. Ahern, Frank J. Hanley and Richard A. Michelfelder, Ph.D. *The Journal of Regulatory Economics* (December 2011), 40:261-278.

¹⁸ www.nobelprize.org.

¹⁹ Illustrated on Columns 1 and 2, page 2 of Schedule DWD-4.

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1 GARCH coefficient²⁰. Multiplying the predicted monthly variance by the GARCH
2 coefficient and then annualizing it²¹ produces the predicted annual equity risk
3 premium. I then added the forecasted 30-year U.S. Treasury bond yield of 3.85%²²
4 to each company's PRPM-derived equity risk premium to arrive at an indicated
5 cost of common equity. The 30-year U.S. Treasury bond yield is a consensus
6 forecast derived from *Blue Chip Financial Forecasts* ("Blue Chip")²³.

7
8 **Q. WHAT ARE THE INDICATED RESULTS OF THE PRPM AS APPLIED**
9 **TO YOUR UTILITY PROXY GROUP?**

10 **A.** The mean PRPM indicated common equity cost rate for the Utility Proxy Group is
11 11.20%, the median is 10.28%, and the average of the two is 10.74%. Consistent
12 with my reliance on the average of the median and mean results of the DCF models,
13 I relied on the average of the mean and median results of the Utility Proxy Group
14 PRPM to calculate a cost of common equity rate of 10.74%.

15
16 **Q. PLEASE EXPLAIN THE TOTAL MARKET APPROACH RPM.**

17 **A.** The total market approach RPM adds a prospective public utility bond yield to an
18 average of: (1) an equity risk premium that is derived from a beta-adjusted total
19 market equity risk premium, (2) an equity risk premium based on the S&P Utilities

²⁰ Illustrated on Column 4, page 2 of Schedule DWD-4.

²¹ Annualized Return = $(1 + \text{Monthly Return})^{12} - 1$.

²² See, Column 6, page 2 of Schedule DWD-4.

²³ *Blue Chip Financial Forecasts*, June 1, 2023 at page 14 and June 30, 2023 at page 2.

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1 Index, and (3) an equity risk premium based on authorized ROEs for natural gas
2 distribution utilities.

3

4 **Q. PLEASE EXPLAIN THE BASIS OF THE EXPECTED BOND YIELD OF**
5 **5.44% APPLICABLE TO THE UTILITY PROXY GROUP.**

6 **A.** The first step in the total market approach RPM analysis is to determine the
7 expected bond yield. Because both ratemaking and the cost of capital, including
8 common equity cost rate, are prospective in nature, a prospective yield on similarly-
9 rated long-term debt is essential. I relied on a consensus forecast of about 50
10 economists of the expected yield on Aaa rated corporate bonds for the six calendar
11 quarters ending with the fourth calendar quarter of 2024, and *Blue Chip's* long-term
12 projections for 2025 to 2029 and 2030 to 2034. As shown on line 1, page 3 of
13 Schedule DWD-4, the average expected yield on Moody's Aaa rated corporate
14 bonds is 4.75%. To derive an expected yield on Moody's A2 rated public utility
15 bonds, I made an upward adjustment of 0.69%, which represents a recent spread
16 between Aaa rated corporate bonds and A2 rated public utility bonds, in order to
17 adjust the expected Aaa rated corporate bond yield to an equivalent A2 rated public
18 utility bond yield.²⁴ Adding that recent 0.69% spread to the expected Aaa rated
19 corporate bond yield of 4.75% results in an expected A2 rated public utility bond
20 yield of 5.44%.

21

²⁴ As shown on line 2 and explained in note 2, page 3 of Schedule DWD-4.

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1 I then reviewed the average credit rating for the Utility Proxy Group from Moody's
2 to determine if an adjustment to the estimated A2 rated public utility bond was
3 necessary. Since the Utility Proxy Group's average Moody's long-term issuer
4 rating is A2, no other adjustment is needed to make the A2 prospective bond yield
5 applicable to the A2 rated public utility bond. The results are a 5.44% expected
6 bond yield applicable to the Utility Proxy Group.

7 **Table 4: Summary of the Calculation of the Utility Proxy Group**
8 **Projected Bond Yield²⁵**

Prospective Yield on Moody's Aaa Rated Corporate Bonds (<i>Blue Chip</i>)	4.75%
Adjustment to Reflect Yield Spread Between Moody's Aaa Rated Corporate Bonds and Moody's A2 Rated Utility Bonds	<u>0.69%</u>
Prospective Bond Yield Applicable to the Utility Proxy Group	<u>5.44%</u>

9
10
11 **Q. PLEASE EXPLAIN HOW THE BETA-DERIVED EQUITY RISK**
12 **PREMIUM IS DETERMINED.**

13 **A.** The components of the beta-derived risk premium model are: (1) an expected
14 market equity risk premium over corporate bonds, and (2) the beta. The derivation
15 of the beta-derived equity risk premium that I applied to the Utility Proxy Group is
16 shown on lines 1 through 9, page 8 of Schedule DWD-4. The total beta-derived
17 equity risk premium I applied is based on an average of three historical market data-

²⁵ As shown on page 3 of Schedule DWD-4.

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1 based equity risk premiums, two *Value Line*-based equity risk premiums, and one
2 Bloomberg-based equity risk premium. Each of these is described below.

3
4 **Q. HOW DID YOU DERIVE A MARKET EQUITY RISK PREMIUM BASED**
5 **ON LONG-TERM HISTORICAL DATA?**

6 **A.** To derive a historical market equity risk premium, I used the most recent holding
7 period returns for the large company common stocks from the Stocks, Bonds, Bills,
8 and Inflation (“SBBI”) Yearbook 2023 (“SBBI - 2023”)²⁶ less the average historical
9 yield on Moody’s Aaa/Aa rated corporate bonds for the period 1928 to 2022. Using
10 holding period returns over a very long time is appropriate because it is consistent
11 with the long-term investment horizon presumed by investing in a going concern,
12 i.e., a company expected to operate in perpetuity.

13
14 SBBI’s long-term arithmetic mean monthly total return rate on large company
15 common stocks was 11.78% and the long-term arithmetic mean monthly yield on
16 Moody’s Aaa/Aa rated corporate bonds was 5.96%.²⁷ As shown on line 1, page 8
17 of Schedule DWD-4, subtracting the mean monthly bond yield from the total return
18 on large company stocks results in a long-term historical equity risk premium of
19 5.82%.

20

²⁶ SBBI Appendix A Tables: Morningstar Stocks, Bonds, Bills, & Inflation 1926-2022.
²⁷ As explained in note 1, page 9 of Schedule DWD-4.

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1 I used the arithmetic mean monthly total return rates for the large company stocks
2 and yields (income returns) for the Moody's Aaa/Aa rated corporate bonds, because
3 they are appropriate for the purpose of estimating the cost of capital as noted in
4 SBBI - 2023.²⁸ Using the arithmetic mean return rates and yields is appropriate
5 because historical total returns and equity risk premiums provide insight into the
6 variance and standard deviation of returns needed by investors in estimating future
7 risk when making a current investment. If investors relied on the geometric mean
8 of historical equity risk premiums, they would have no insight into the potential
9 variance of future returns, because the geometric mean relates the change over
10 many periods to a constant rate of change, thereby obviating the year-to-year
11 fluctuations, or variance, which is critical to risk analysis.

12
13 **Q. PLEASE EXPLAIN THE DERIVATION OF THE REGRESSION-BASED**
14 **MARKET EQUITY RISK PREMIUM.**

15 **A.** To derive the regression-based market equity risk premium of 7.46% shown on line
16 2, page 8 of Schedule DWD-4, I used the same monthly annualized total returns on
17 large company common stocks relative to the monthly annualized yields on
18 Moody's Aaa/Aa rated corporate bonds as mentioned above. I modeled the
19 relationship between interest rates and the market equity risk premium using the
20 observed monthly market equity risk premium as the dependent variable, and the
21 monthly yield on Moody's Aaa/Aa rated corporate bonds as the independent
22 variable. I then used a linear Ordinary Least Squares ("OLS") regression, in which

²⁸ SBBI - 2023, at page 194.

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1 the market equity risk premium is expressed as a function of the Moody's Aaa/Aa
2 rated corporate bonds yield:

3
$$RP = \alpha + \beta (R_{Aaa/Aa})$$

4

5 **Q. PLEASE EXPLAIN THE DERIVATION OF THE PRPM EQUITY RISK**
6 **PREMIUM.**

7 **A.** I used the same PRPM approach described above to the PRPM equity risk premium.
8 The inputs to the model are the historical monthly returns on large company
9 common stocks minus the monthly yields on Moody's Aaa/Aa rated corporate
10 bonds during the period from January 1928 through June 2023.²⁹ Using the
11 previously discussed generalized form of ARCH, known as GARCH, the projected
12 equity risk premium is determined using Eviews[®] statistical software. The resulting
13 PRPM predicted a market equity risk premium of 8.70%.³⁰

14

15 **Q. PLEASE EXPLAIN THE DERIVATION OF A PROJECTED EQUITY RISK**
16 **PREMIUM BASED ON VALUE LINE DATA FOR YOUR RPM ANALYSIS.**

17 **A.** As noted above, because both ratemaking and the cost of capital are prospective, a
18 prospective market equity risk premium is needed. The derivation of the forecasted
19 or prospective market equity risk premium can be found in note 4, page 8 of
20 Schedule DWD-4. Consistent with my calculation of the dividend yield component

²⁹ Data from January 1926 to December 2022 is from SBBI - 2023. Data from January 2023 to June 2023 is from Bloomberg.

³⁰ Shown on line 3, page 8 of Schedule DWD-4.

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1 in my DCF analysis, this prospective market equity risk premium is derived from
2 an average of the three- to five-year median market price appreciation potential by
3 *Value Line* for the 13 weeks ended July 14, 2023, plus an average of the median
4 estimated dividend yield for the common stocks of the 1,700 firms covered in *Value*
5 *Line's* Standard Edition.³¹

6
7 The average median expected price appreciation is 63%, which translates to a
8 12.99% annual appreciation, and when added to the average of *Value Line's* median
9 expected dividend yields of 2.32%, equates to a forecasted annual total return rate
10 on the market of 15.31%. The forecasted Moody's Aaa rated corporate bond yield
11 of 4.75% is deducted from the total market return of 15.31%, resulting in an equity
12 risk premium of 10.56%, as shown on line 4, page 8 of Schedule DWD-4.

13
14 **Q. PLEASE EXPLAIN THE DERIVATION OF AN EQUITY RISK PREMIUM**
15 **BASED ON THE S&P 500 COMPANIES.**

16 **A.** Using data from *Value Line*, I calculated an expected total return on the S&P 500
17 companies using expected dividend yields and long-term growth estimates as a
18 proxy for capital appreciation. The expected total return for the S&P 500 is 14.14%.
19 Subtracting the prospective yield on Moody's Aaa rated corporate bonds of 4.75%
20 results in a 9.39% projected equity risk premium.

21

³¹ As explained in detail in note 1, page 2 of Schedule DWD-5.

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1 **Q. PLEASE EXPLAIN THE DERIVATION OF AN EQUITY RISK PREMIUM**
2 **BASED ON BLOOMBERG DATA.**

3 **A.** Using data from Bloomberg, I calculated an expected total return on the S&P 500
4 using expected dividend yields and long-term growth estimates as a proxy for
5 capital appreciation, identical to the method described above. The expected total
6 return for the S&P 500 is 16.04%. Subtracting the prospective yield on Moody's
7 Aaa rated corporate bonds of 4.75% results in an 11.29% projected equity risk
8 premium.

9

10 **Q. WHAT WAS YOUR CONCLUSION OF A BETA-DERIVED EQUITY RISK**
11 **PREMIUM FOR USE IN YOUR RPM ANALYSIS?**

12 **A.** I gave equal weight to all six equity risk premiums based on each source - historical,
13 *Value Line*, and Bloomberg - in arriving at an 8.87% equity risk premium.

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**Table 5: Summary of the Calculation of the Equity Risk Premium Using
Total Market Returns³²**

Historical Spread Between Total Returns of Large Stocks and Aaa and Aa2 Rated Corporate Bond Yields (1928 – 2022)	5.82%
Regression Analysis on Historical Data	7.46%
PRPM Analysis on Historical Data	8.70%
Prospective Equity Risk Premium using Total Market Returns from <i>Value Line</i> Summary & Index less Projected Aaa Corporate Bond Yields	10.56%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns from <i>Value Line</i> for the S&P 500 less Projected Aaa Corporate Bond Yields	9.39%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns from Bloomberg Professional Services for the S&P 500 less Projected Aaa Corporate Bond Yields	<u>11.29%</u>
Average	<u>8.87%</u>

After calculating the average market equity risk premium of 8.87%, I adjusted it by the beta to account for the risk of the Utility Proxy Group. As discussed below, the beta is a meaningful measure of prospective relative risk to the market as a whole, and is a logical way to allocate a company's, or proxy group's, share of the market's total equity risk premium relative to corporate bond yields. As shown on page 1 of Schedule DWD-5, the average of the mean and median beta for the Utility Proxy Group is 0.77. Multiplying the 0.77 average beta by the market equity risk premium of 8.87% results in a beta-adjusted equity risk premium for the Utility Proxy Group of 6.83%.

³² As shown on page 8 of Schedule DWD-4.

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1 **Q. HOW DID YOU DERIVE THE EQUITY RISK PREMIUM BASED ON THE**
2 **S&P UTILITY INDEX AND MOODY'S A2 RATED PUBLIC UTILITY**
3 **BONDS?**

4 **A.** I estimated three equity risk premiums based on S&P Utility Index holding returns,
5 and two equity risk premiums based on the expected returns of the S&P Utilities
6 Index, using *Value Line* and Bloomberg data, respectively. Turning first to the S&P
7 Utility Index holding period returns, I derived a long-term monthly arithmetic mean
8 equity risk premium between the S&P Utility Index total returns of 10.63% and
9 monthly Moody's A2 rated public utility bond yields of 6.44% from 1928 to 2022,
10 to arrive at an equity risk premium of 4.20%.³³ I then used the same historical data
11 to derive an equity risk premium of 5.16% based on a regression of the monthly
12 equity risk premiums. The final S&P Utility Index holding period equity risk
13 premium involved applying the PRPM using the historical monthly equity risk
14 premiums from January 1928 to June 2023 to arrive at a PRPM-derived equity risk
15 premium of 5.24% for the S&P Utility Index.

16
17 I then derived expected total return on the S&P Utilities Index of 10.00% using data
18 from *Value Line* and Bloomberg, respectively, and subtracted the prospective
19 Moody's A2 rated public utility bond yield of 5.44%³⁴, which resulted in an equity
20 risk premium of 4.56%. As with the market equity risk premiums, I averaged each

³³ As shown on line 1, page 12 of Schedule DWD-4.

³⁴ Derived on line 3, page 3 of Schedule DWD-4.

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1 risk premium based on each source (i.e., historical and *Value Line*) to arrive at my
2 utility-specific equity risk premium of 4.79%.

**Table 6: Summary of the Calculation of the Equity Risk Premium
Using S&P Utility Index Holding Returns³⁵**

Historical Spread Between Total Returns of the S&P Utilities Index and A2 Rated Utility Bond Yields (1928 – 2022)	4.20%
Regression Analysis on Historical Data	5.16%
PRPM Analysis on Historical Data	5.24%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns from <i>Value Line</i> for the S&P Utilities Index less Projected A2 Utility Bond Yields	4.56%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns from Bloomberg Professional Services for the S&P Utilities Index less Projected A2 Utility Bond Yields	<u>NMF³⁶</u>
Average	<u>4.79%</u>

5

6 **Q. HOW DID YOU DERIVE AN EQUITY RISK PREMIUM OF 4.92% BASED**
7 **ON AUTHORIZED ROES FOR GAS DISTRIBUTION UTILITIES?**

8 **A.** The equity risk premium of 4.92% shown on line 3, page 7 of Schedule DWD-4 is
9 the result of a regression analysis based on regulatory awarded gas distribution
10 ROEs related to the yields on Moody’s A rated public utility bonds. That analysis
11 is shown on page 13 of Schedule DWD-4. Page 13 of Schedule DWD-4 contains

³⁵ As shown on page 12 of Schedule DWD-4.

³⁶ “NMF” = Not Meaningful Figure. Using data from Bloomberg Professional Services for the S&P Utilities Index, an expected return of 4.25% was derived based on expected dividend yields as a proxy for income returns and long-term growth estimates as a proxy for market appreciation. Subtracting the expected A2 rated public utility bond yield of 5.44%, calculated on line 3 of page 3 of this Schedule results in an equity risk premium of -1.19%. (4.25% - 5.44% = -1.19%). Because a negative risk premium is inconsistent with financial theory, it is not included in the final average.

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1 the graphical results of a regression analysis of 821 rate cases for gas distribution
2 utilities which were fully litigated during the period from January 1, 1980 through
3 July 14, 2023. It shows the implicit equity risk premium relative to the yields on
4 A2 rated public utility bonds immediately prior to the issuance of each regulatory
5 decision. It is readily discernible that there is an inverse relationship between the
6 yield on A2 rated public utility bonds and equity risk premiums. In other words, as
7 interest rates decline, the equity risk premium rises and vice versa, a result
8 consistent with financial literature on the subject.³⁷ I used the regression results to
9 estimate the equity risk premium applicable to the projected yield on Moody's A2
10 rated public utility bonds. Given the expected A2 rated utility bond yield of 5.44%,
11 it can be calculated that the indicated equity risk premium applicable to that bond
12 yield is 4.92%, which is shown on line 3, page 7 of Schedule DWD-4.

13
14 **Q. WHAT IS YOUR CONCLUSION OF AN EQUITY RISK PREMIUM FOR**
15 **USE IN YOUR TOTAL MARKET APPROACH RPM ANALYSIS?**

16 **A.** The equity risk premiums I applied to the Utility Proxy Group is 5.51%, which is
17 the average of the beta-adjusted equity risk premium for the Utility Proxy Group,
18 the S&P Utilities Index, and the authorized return utility equity risk premiums of
19 6.83%, 4.79%, and 4.92%, respectively.³⁸

20

³⁷ See, e.g., Robert S. Harris and Felicia C. Marston, *The Market Risk Premium: Expectational Estimates Using Analysts' Forecasts*, Journal of Applied Finance, Vol. 11, No. 1, 2001, at 11-12; Eugene F. Brigham, Dilip K. Shome, and Steve R. Vinson, *The Risk Premium Approach to Measuring a Utility's Cost of Equity*, Financial Management, Spring 1985, at pp. 33-45.

³⁸ As shown on page 7 of Schedule DWD-4.

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1 **Q. WHAT IS THE INDICATED RPM COMMON EQUITY COST RATE**
2 **BASED ON THE TOTAL MARKET APPROACH?**

3 **A.** As shown on line 5, page 3 of Schedule DWD-4, and shown on Table 7, below, I
4 calculated a common equity cost rate of 10.95% for the Utility Proxy Group based
5 on the total market approach RPM.

6 **Table 7: Summary of the Total Market Return Risk Premium Model³⁹**

Prospective Moody's A2 Rated Utility Bond Applicable to the Utility Proxy Group	5.44%
Prospective Equity Risk Premium	<u>5.51%</u>
Indicated Cost of Common Equity	<u>10.95%</u>

7
8

9 **Q. WHAT ARE THE RESULTS OF YOUR APPLICATION OF THE PRPM**
10 **AND THE TOTAL MARKET APPROACH RPM?**

11 **A.** As shown on page 1 of Schedule DWD-4, the indicated RPM-derived common
12 equity cost rate is 10.85%, which gives equal weight to the PRPM (10.74%) and
13 the adjusted-market approach results (10.95%).

14
15

C. The Capital Asset Pricing Model

16 **Q. PLEASE EXPLAIN THE THEORETICAL BASIS OF THE CAPM.**

17 **A.** CAPM theory defines risk as the co-variability of a security's returns with the
18 market's returns as measured by the beta (β). A beta less than 1.0 indicates lower

³⁹ As shown on page 3 of Schedule DWD-4.

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1 variability than the market as a whole, while a beta greater than 1.0 indicates greater
2 variability than the market.

3
4 The CAPM assumes that all non-market or unsystematic risk can be eliminated
5 through diversification. The risk that cannot be eliminated through diversification
6 is called market, or systematic, risk. In addition, the CAPM presumes that investors
7 only require compensation for systematic risk, which is the result of
8 macroeconomic and other events that affect the returns on all assets. The model is
9 applied by adding a risk-free rate of return to a market risk premium, which is
10 adjusted proportionately to reflect the systematic risk of the individual security
11 relative to the total market as measured by beta. The traditional CAPM model is
12 expressed as:

13 $R_s \quad = \quad R_f + \beta (R_m - R_f)$

14 Where: R_s = Return rate on the common stock

15 R_f = Risk-free rate of return

16 R_m = Return rate on the market as a whole

17 β = Adjusted beta (volatility of the
18 security relative to the market as a whole)

19
20 Numerous tests of the CAPM have measured the extent to which security returns
21 and beta are related as predicted by the CAPM, confirming its validity. The
22 empirical CAPM ("ECAPM") reflects the reality that while the results of these tests
23 support the notion that the beta is related to security returns, the empirical Security

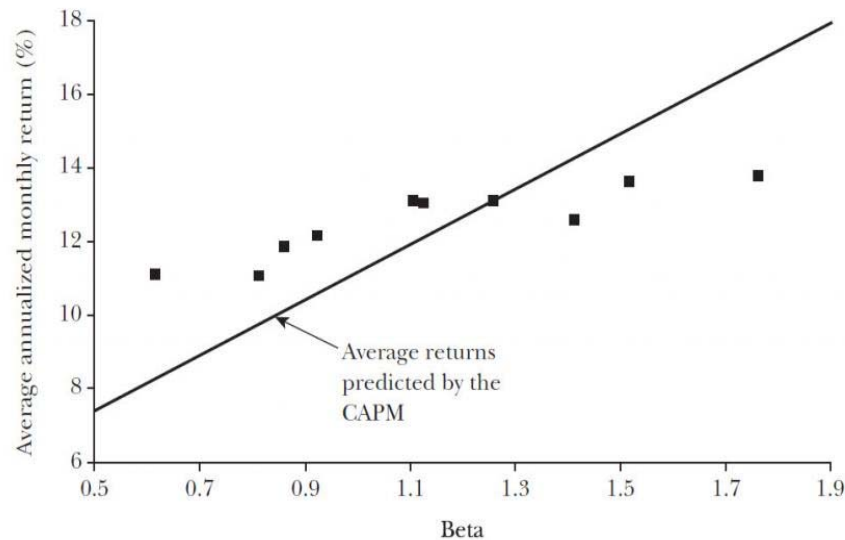
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1 Market Line (“SML”) described by the CAPM formula is not as steeply sloped as
2 the predicted SML.⁴⁰

3

4 The ECAPM reflects this empirical reality. Fama and French clearly state regarding
5 their Figure 2, below, that “[t]he returns on the low beta portfolios are too high, and
6 the returns on the high beta portfolios are too low.”⁴¹

Figure 2 <http://pubs.aeaweb.org/doi/pdfplus/10.1257/0895330042162430>
**Average Annualized Monthly Return versus Beta for Value Weight Portfolios
Formed on Prior Beta, 1928–2003**



7

8 Morin also states that:

9 With few exceptions, the empirical studies agree that ... low-beta
10 securities earn returns somewhat higher than the CAPM would predict,
11 and high-beta securities earn less than predicted.⁴²

12

* * *

⁴⁰ Roger A. Morin, *Modern Regulatory Finance*, at page 223 (“Morin”).

⁴¹ Eugene F. Fama and Kenneth R. French, *The Capital Asset Pricing Model: Theory and Evidence*, *Journal of Economic Perspectives*, Vol. 18, No. 3, Summer 2004 at p. 33 (“Fama & French”).

⁴² Morin, at p. 207.

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1 In view of theory and practical research, I have applied both the traditional CAPM
2 and the ECAPM to the companies in the Utility Proxy Group and averaged the
3 results.

4
5 **Q. WHAT BETA DID YOU USE IN YOUR CAPM ANALYSIS?**

6 **A.** For the beta in my CAPM analysis, I considered two sources: *Value Line* and
7 Bloomberg. While both of those services adjust their calculated (or “raw”) betas to
8 reflect the tendency of beta to regress to the market mean of 1.00, *Value Line*
9 calculates beta over a five-year period, while Bloomberg calculates it over a two-
10 year period.

11
12 **Q. PLEASE DESCRIBE YOUR SELECTION OF A RISK-FREE RATE OF**
13 **RETURN.**

14 **A.** As shown in Column 5, page 1 of Schedule DWD-5, the risk-free rate adopted for
15 both applications of the CAPM is 3.85%. This risk-free rate is based on the average
16 of the *Blue Chip* consensus forecast of the expected yields on 30-year U.S. Treasury
17 bonds for the six quarters ending with the fourth calendar quarter of 2024, and long-
18 term projections for the years 2025 to 2029 and 2030 to 2034.

19
20 **Q. WHY IS THE YIELD ON LONG-TERM U.S. TREASURY BONDS**
21 **APPROPRIATE FOR USE AS THE RISK-FREE RATE?**

22 **A.** The yield on long-term U.S. Treasury bonds is almost risk-free and its term is
23 consistent with the long-term cost of capital to public utilities measured by the

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1 yields on Moody's A rated public utility bonds; the long-term investment horizon
2 inherent in utilities' common stocks; and the long-term life of the jurisdictional rate
3 base to which the allowed fair rate of return (i.e., cost of capital) will be applied.
4 In contrast, short-term U.S. Treasury yields are more volatile and largely a function
5 of Federal Reserve monetary policy.

6
7 **Q. PLEASE EXPLAIN THE ESTIMATION OF THE EXPECTED RISK**
8 **PREMIUM FOR THE MARKET USED IN YOUR CAPM ANALYSES.**

9 **A.** The basis of the market risk premium is explained in detail in note 1 on Schedule
10 DWD-5. As discussed above, the market risk premium is derived from an average
11 of three historical data-based market risk premiums, two *Value Line* data-based
12 market risk premiums, and one Bloomberg data-based market risk premium.

13
14 The long-term income return on U.S. Government securities of 5.00% was
15 deducted from the SBBI - 2023 monthly historical total market return of 12.03%,
16 which results in an historical market equity risk premium of 7.03%.⁴⁶ I applied a
17 linear OLS regression to the monthly annualized historical returns on the S&P 500
18 relative to historical yields on long-term U.S. Government securities from SBBI -
19 2023. That regression analysis yielded a market equity risk premium of 8.59%.
20 The PRPM market equity risk premium is 9.69% and is derived using the PRPM
21 relative to the yields on long-term U.S. Treasury securities from January 1926
22 through June 2023.

⁴⁶ SBBI - 2023, at Appendix A-1 (1) through A-1 (3) and Appendix A-7 (19) through A-7 (21).

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1 The *Value Line*-derived forecasted total market equity risk premium is derived by
2 deducting the forecasted risk-free rate of 3.85%, discussed above, from the *Value*
3 *Line* projected total annual market return of 15.31%, resulting in a forecasted total
4 market equity risk premium of 11.46%. The S&P 500 projected market equity risk
5 premium using *Value Line* data is derived by subtracting the projected risk-free rate
6 of 3.85% from the projected total return of the S&P 500 of 14.14%. The resulting
7 market equity risk premium is 10.29%.

8
9 The S&P 500 projected market equity risk premium using Bloomberg data is
10 derived by subtracting the projected risk-free rate of 3.85% from the projected total
11 return of the S&P 500 of 16.04%. The resulting market equity risk premium is
12 12.19%.

13
14 These six measures, when averaged, result in an average total market equity risk
15 premium of 9.87%.

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**Table 8: Summary of the Calculation of the Market Risk Premium
for Use in the CAPM⁴⁷**

Historical Spread Between Total Returns of Large Stocks and Long-Term Government Bond Yields (1926 – 2022)	7.03%
Regression Analysis on Historical Data	8.59%
PRPM Analysis on Historical Data	9.69%
Prospective Equity Risk Premium using Total Market Returns from <i>Value Line</i> Summary & Index less Projected 30-Year Treasury Bond Yields	11.46%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns from <i>Value Line</i> for the S&P 500 less Projected 30-Year Treasury Bond Yields	10.29%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns from Bloomberg Professional Services for the S&P 500 less Projected 30-Year Treasury Bond Yields	<u>12.19%</u>
Average	<u>9.87%</u>

Q. WHAT ARE THE RESULTS OF YOUR APPLICATION OF THE TRADITIONAL AND EMPIRICAL CAPM TO THE UTILITY PROXY GROUP?

A. As shown on page 1 of Schedule DWD-5, the mean result of my CAPM/ECAPM analyses for the Utility Proxy Group is 11.68%, the median is 11.70%, and the average of the two is 11.69%. Consistent with my reliance on the average of mean and median DCF results discussed above, the indicated common equity cost rate using the CAPM/ECAPM is 11.69%.

⁴⁷ As shown on page 2 of Schedule DWD-5.

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1 **D. Common Equity Cost Rates for a Proxy Group of Domestic, Non-**
2 **Price Regulated Companies Based on the DCF, RPM, and CAPM**

3 **Q. WHY DID YOU ALSO CONSIDER A PROXY GROUP OF DOMESTIC,**
4 **NON-PRICE REGULATED COMPANIES?**

5 **A.** In the *Hope* and *Bluefield* cases, the U.S. Supreme Court did not specify that
6 comparable risk companies had to be utilities. Because the purpose of rate
7 regulation is to be a substitute for marketplace competition, non-price regulated
8 firms operating in the competitive marketplace make an excellent proxy if they are
9 comparable in total risk to the Utility Proxy Group being used to estimate the cost
10 of common equity. The selection of such domestic, non-price regulated competitive
11 firms theoretically and empirically results in a proxy group that is comparable in
12 total risk to the Utility Proxy Group, because all of these companies compete for
13 capital in the exact same markets.

14

15 **Q. HOW DID YOU SELECT NON-PRICE REGULATED COMPANIES THAT**
16 **ARE COMPARABLE IN TOTAL RISK TO THE UTILITY PROXY**
17 **GROUP?**

18 **A.** In order to select a proxy group of domestic, non-price regulated companies similar
19 in total risk to the Utility Proxy Group, I relied on beta and related statistics derived
20 from *Value Line* regression analyses of weekly market prices over the most recent
21 260 weeks (i.e., five years). These selection criteria resulted in a proxy group of
22 46 domestic, non-price regulated firms comparable in total risk to the Utility Proxy
23 Group. Total risk is the sum of non-diversifiable market risk and diversifiable

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1 company-specific risks. The criteria used in selecting the domestic, non-price
2 regulated firms was:

- 3 (i) They must be covered by *Value Line Investment Survey* (Standard
4 Edition);
- 5 (ii) They must be domestic, non-price regulated companies, i.e., not utilities;
- 6 (iii) Their unadjusted betas must lie within plus or minus two standard
7 deviations of the average unadjusted beta of the Utility Proxy Group; and
- 8 (iv) The residual standard errors of the *Value Line* regressions which gave rise
9 to the unadjusted betas must lie within plus or minus two standard
10 deviations of the average residual standard error of the Utility Proxy Group.

11

12 Betas measure market, or systematic, risk, which is not diversifiable. The residual
13 standard errors of the regressions measure each firm's company-specific,
14 diversifiable risk. Companies that have similar betas and similar residual standard
15 errors resulting from the same regression analyses have similar total investment
16 risk.

17

18 **Q. HAVE YOU PREPARED A SCHEDULE WHICH SHOWS THE DATA**
19 **FROM WHICH YOU SELECTED THE 46 DOMESTIC, NON-PRICE**
20 **REGULATED COMPANIES THAT ARE COMPARABLE IN TOTAL RISK**
21 **TO THE UTILITY PROXY GROUP?**

22 **A.** Yes, the basis of my selection and both proxy groups' regression statistics are shown
23 in Schedule DWD-6.

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1 **Q. DID YOU CALCULATE COMMON EQUITY COST RATES USING THE**
2 **DCF MODEL, RPM, AND CAPM FOR THE NON-PRICE REGULATED**
3 **PROXY GROUP?**

4 **A.** Yes. Because the DCF model, RPM, and CAPM have been applied in an identical
5 manner as described above, I will not repeat the details of the rationale and
6 application of each model. One exception is in the application of the RPM, where
7 I did not use public utility-specific equity risk premiums, nor did I apply the PRPM
8 to the individual non-price regulated companies.

9
10 Page 2 of Schedule DWD-7 derives the constant growth DCF model common
11 equity cost rate. As shown, the indicated common equity cost rate using the
12 constant growth DCF for the Non-Price Regulated Proxy Group comparable in total
13 risk to the Utility Proxy Group is 10.60%.

14
15 Pages 3 through 5 of Schedule DWD-7 contain the data and calculations that
16 support the 13.10% RPM common equity cost rate. As shown on line 1, page 4 of
17 Schedule DWD-7, the consensus prospective yield on Moody's Baa2 rated
18 corporate bonds for the six quarters ending in the fourth quarter of 2024, and for
19 the years 2025 to 2029 and 2030 to 2034, is 5.73%.⁴⁸ Since the Non-Price
20 Regulated Proxy Group has an average Moody's long-term issuer rating of Baa1, a
21 downward adjustment of 0.17% to the projected Baa2 corporate bond yield is

⁴⁸ *Blue Chip Financial Forecasts*, June 1, 2023, at page 14 and June 30, 2023, at page 2.

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1 necessary to reflect the difference in ratings,⁴⁹ which results in a projected Baa1
2 corporate bond yield of 5.56%.

3
4 When the beta-adjusted risk premium of 7.54%⁵⁰ relative to the Non-Price
5 Regulated Proxy Group is added to the prospective Baa1 rated corporate bond yield
6 of 5.56%, the indicated RPM common equity cost rate is 13.10%. Page 7 of
7 Schedule DWD-7 contains the inputs and calculations that support my indicated
8 CAPM/ECAPM common equity cost rate of 12.30%.

9
10 **Q. WHAT IS THE COST RATE OF COMMON EQUITY BASED ON THE**
11 **NON-PRICE REGULATED PROXY GROUP COMPARABLE IN TOTAL**
12 **RISK TO THE UTILITY PROXY GROUP?**

13 **A.** As shown on page 1 of Schedule DWD-7, the results of the common equity models
14 applied to the Non-Price Regulated Proxy Group that are comparable in total risk
15 to the Utility Proxy Group are as follows:

16

⁴⁹ As demonstrated in line 2 and described in note 2, page 3 of Schedule DWD-7.
⁵⁰ Derived on page 5 of Schedule DWD-7.

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**Table 9: Summary of Common Equity Cost Rates for the Non-Price
Regulated Proxy Group⁵¹**

Discounted Cash Flow Model	10.60%
Risk Premium Model	13.10%
Capital Asset Pricing Model	12.30%
Mean	12.00%
Median	<u>12.30%</u>
Average of Mean and Median	<u>12.15%</u>

The average of the mean and median of these models is 12.15%, which I used as the indicated common equity cost rates for the Non-Price Regulated Proxy Group.

**VIII. CONCLUSION OF COMMON EQUITY COST RATES BEFORE
ADJUSTMENTS**

**Q. WHAT ARE THE INDICATED COMMON EQUITY COST RATES FOR
THE UTILITY PROXY GROUP BEFORE ADJUSTMENTS?**

A. By applying multiple cost of common equity models to the Utility Proxy Group and the Non-Price Regulated Proxy Group, the range of indicated cost of common equity before any relative risk adjustments is from 9.65% to 12.15%.

I used multiple cost of common equity models as primary tools in arriving at my recommended range of common equity cost rates, because no single model is so inherently precise that it can be relied on to the exclusion of other theoretically sound models. Using multiple models adds reliability to the estimated common

⁵¹ As shown on page 1 of Schedule DWD-7.

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1 equity cost rate, with the prudence of using multiple cost of common equity models
2 supported in both the financial literature and regulatory precedent.

3

4 As will be discussed below, the Company has greater risk than the Utility Proxy
5 Group. Because of this, the indicated range of model results based on the Utility
6 Proxy Group must be adjusted to reflect the Company's greater relative risk.

7

8 **IX. ADJUSTMENTS TO THE COMMON EQUITY COST RATES**

9 **A. Size Adjustment**

10 **Q. DOES THE COMPANY'S SMALLER SIZE RELATIVE TO THE UTILITY**
11 **PROXY GROUP INCREASE ITS BUSINESS RISK?**

12 **A.** Yes. The Company's smaller size relative to the Utility Proxy Group indicates
13 greater relative business risk for the Company because, all else being equal, size
14 has a material bearing on risk.

15

16 Size affects business risk because smaller companies generally are less able to cope
17 with significant events that affect sales, revenues, and earnings. For example,
18 smaller companies face more risk exposure to business cycles and economic
19 conditions, both nationally and locally. Additionally, the loss of revenues from a
20 few larger customers would have a greater effect on a smaller company than on a
21 bigger company with a larger, more diverse, customer base.

22

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1 As further evidence that smaller firms are riskier, investors generally demand
2 greater returns from smaller firms to compensate for less marketability and liquidity
3 of their securities. Kroll's Cost of Capital Navigator: U.S. Cost of Capital Module
4 ("Kroll") discusses the nature of the small-size phenomenon, providing an
5 indication of the magnitude of the size premium based on several measures of size.

6 In discussing "Size as a Predictor of Equity Premiums," Kroll states:

7 The size effect is based on the empirical observation that companies
8 of smaller size are associated with greater risk and, therefore, have
9 greater cost of capital [sic]. The "size" of a company is one of the
10 most important risk elements to consider when developing cost of
11 equity capital estimates for use in valuing a business simply because
12 size has been shown to be a *predictor* of equity returns. In other
13 words, there is a significant (negative) relationship between size and
14 historical equity returns - as size *decreases*, returns tend to *increase*,
15 and vice versa. (footnote omitted) (emphasis in original)⁵²

16

17 Furthermore, in "The Capital Asset Pricing Model: Theory and Evidence," Fama
18 and French note size is indeed a risk factor which must be reflected when estimating
19 the cost of common equity. On page 14, they note:

20 . . . the higher average returns on small stocks and high book-to-
21 market stocks reflect unidentified state variables that produce
22 undiversifiable risks (covariances) in returns that are not captured
23 by the market return and are priced separately from market betas.⁵³
24

25

⁵² Kroll, Cost of Capital Navigator: U.S. Cost of Capital Module, Size as a Predictor of Equity Returns, at 1.

⁵³ Eugene F. Fama and Kenneth R. French, "The Capital Asset Pricing Model: Theory and Evidence," *Journal of Economic Perspectives*, Volume 18, Number 3, Summer 2004, at 25-43.

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1 Based on this evidence, Fama and French proposed their three-factor model which
2 includes a size variable in recognition of the effect size has on the cost of common
3 equity.

4
5 Also, it is a basic financial principle that the use of funds invested, and not the
6 source of funds, is what gives rise to the risk of any investment.⁵⁴ Eugene Brigham,
7 a well-known authority, states:

8 A number of researchers have observed that portfolios of small-firm
9 stocks have earned consistently higher average returns than those of
10 large-firm stocks; this is called the “small-firm effect.” On the
11 surface, it would seem to be advantageous to the small firm to
12 provide average returns in the stock market that are higher than those
13 of large firms. In reality, it is bad news for the small firm; **what the
14 small-firm effect means is that the capital market demands
15 higher returns on stocks of small firms than on otherwise similar
16 stocks of large firms.** (emphasis added)⁵⁵

17
18 Consistent with the financial principle of risk and return discussed above, increased
19 relative risk due to small size must be considered in the allowed rate of return on
20 common equity. Therefore, the Commission’s authorization of a cost rate of
21 common equity in this proceeding must appropriately reflect the Company’s unique
22 risks, including their small size, which is justified and supported above by evidence
23 in the financial literature.

24

⁵⁴ Richard A. Brealey and Stewart C. Myers, Principles of Corporate Finance (McGraw-Hill Book Company, 1996), at 204-205, 229.

⁵⁵ Eugene F. Brigham, Fundamentals of Financial Management, Fifth Edition (The Dryden Press, 1989), at 623.

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1 **Q. IS THERE A WAY TO QUANTIFY A RELATIVE RISK ADJUSTMENT DUE**
2 **TO THE COMPANY'S SMALL SIZE RELATIVE TO THE UTILITY**
3 **PROXY GROUP?**

4 **A.** Yes. The Company has greater relative risk than the average utility in the Utility
5 Proxy Group because of its smaller size compared with the utilities in the proxy
6 group, as measured by an estimated market capitalization of common equity for the
7 jurisdictional operations of each company.

8 **Table 10: Size as Measured by Market Capitalization for NMGC and the**
9 **Utility Proxy Group⁵⁶**

	<u>Market Capitalization*</u> (\$ Millions)	<u>Times Greater than The Company</u>
NMGC	\$881.450	
Utility Proxy Group	\$4,331.038	4.9x

10

11

12 NMGC's estimated market capitalization was \$881.450 million as of July 14, 2023,
13 compared with the median market capitalization of the Utility Proxy Group of
14 \$4.331 billion as of July 14, 2023. The Utility Proxy Group's market capitalization
15 is 4.9 times the size of NMGC's estimated market capitalization.

16

⁵⁶ From page 1 of Schedule DWD-8.

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1 As a result, it is necessary to upwardly adjust the indicated common equity cost rate
2 attributable to the Utility Proxy Group to reflect the Company's greater risk due to
3 its smaller relative size. The determination is based on the size premiums for
4 portfolios of New York Stock Exchange, American Stock Exchange, and NASDAQ
5 listed companies ranked by deciles for the 1926 to 2022 period. The average size
6 premium for the Utility Proxy Group with market capitalizations of \$4.331 billion
7 falls in the 4th decile, while NMGC's estimated market capitalization of \$881.450
8 million places it in the 7th decile. The size premium spread between the 4th decile
9 and the 7th decile is 0.79%. Even though a size premium of 0.79% is indicated, I
10 only applied a premium of 0.20% in order to be conservative.

11

12 **Q. SINCE THE COMPANY IS PART OF A LARGER COMPANY, WHY IS**
13 **THE SIZE OF EMERA, INC. NOT MORE APPROPRIATE TO USE WHEN**
14 **DETERMINING THE SIZE ADJUSTMENT?**

15 **A.** The return derived in this proceeding will not apply to Emera, Inc.'s operations as
16 a whole, but only to NMGC. Emera, Inc. is the sum of its constituent parts,
17 including those constituent parts' ROEs. Potential investors in Emera, Inc. are
18 aware that it is a combination of operations in each state, and that each state's
19 operations experience the operating risks specific to their jurisdiction. The market's
20 expectation of Emera, Inc.'s return is commensurate with the realities of the
21 company's composite operations in each of the states in which it operates.

22

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1 **Q. DOES THE FACT THAT THE COMPANY HAS SIGNIFICANT GAS**
2 **TRANSMISSION OPERATIONS AFFECT ITS RISK RELATIVE TO THE**
3 **UTILITY PROXY GROUP?**

4 **A.** Yes, it does. As mentioned above, the Company has significant gas transmission
5 operations and more transmission operations than the average of my Utility Proxy
6 Group.⁵⁷ Therefore, NMGC would be considered riskier than the Utility Proxy
7 Group as gas transmission operations are inherently riskier than gas distribution
8 operations.

9
10 **B. Credit Risk Adjustment**

11 **Q. PLEASE DISCUSS YOUR PROPOSED CREDIT RISK ADJUSTMENT.**

12 **A.** As discussed above, NMGC's long-term issuer rating is BBB+ as rated by Fitch
13 Ratings, which is riskier than the A2 average long-term issuer ratings for the Utility
14 Proxy Group.⁵⁸ Hence, an upward credit risk adjustment is necessary to reflect the
15 lower credit rating, i.e., BBB+ (equivalent Moody's rating of Baa1), of NMGC
16 relative to the A2 average Moody's bond rating of the Utility Proxy Group.⁵⁹

17
18 An indication of the magnitude of the necessary upward adjustment to reflect the
19 greater credit risk inherent in a Baa1 bond rating is two-thirds of a recent three-

⁵⁷ Based on the Proxy Group Companies' 2022 Forms 10-K, only 2 companies had transmission assets in 2022: Atmos Energy Corporation (less than 18.29% of total assets) and Spire Inc. (less than 25.01% of total assets). Whereas NMGC's transmission assets account for 35.17% of the Company's total assets.

⁵⁸ Source of Information: S&P Global Market Intelligence.

⁵⁹ As shown on page 5 of Schedule DWD-4.

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1 month average spread between Moody's A2 and Baa2 rated public utility bond
2 yields of 0.35%, shown on page 4 of Schedule DWD-4, or 0.23%.⁶⁰

3
4 **C. Flotation Costs**

5 **Q. WHAT ARE FLOTATION COSTS?**

6 **A.** Flotation costs are those costs associated with the sale of new issuances of common
7 stock. They include market pressure and the mandatory unavoidable costs of
8 issuance (e.g., underwriting fees and out-of-pocket costs for printing, legal,
9 registration, etc.). For every dollar raised through debt or equity offerings, the
10 Company receives less than one full dollar in financing.

11
12 **Q. WHY IS IT IMPORTANT TO RECOGNIZE FLOTATION COSTS IN THE
13 ALLOWED COMMON EQUITY COST RATE?**

14 **A.** It is important because there is no other mechanism in the ratemaking paradigm
15 through which such costs can be recognized and recovered. Because these costs
16 are real, necessary, and legitimate, recovery of these costs should be permitted. As
17 noted by Morin:

18 The costs of issuing these securities are just as real as operating and
19 maintenance expenses or costs incurred to build utility plants, and
20 fair regulatory treatment must permit the recovery of these costs...

21 The simple fact of the matter is that common equity capital is not
22 free...[Flotation costs] must be recovered through a rate of return
23 adjustment.⁶¹

24

⁶⁰ 0.23% = 0.35% * (2/3).

⁶¹ Morin, at 329.

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1 **Q. DO THE COMMON EQUITY COST RATE MODELS YOU HAVE USED**
2 **ALREADY REFLECT INVESTORS' ANTICIPATION OF FLOTATION**
3 **COSTS?**

4 **A.** No. All of these models assume no transaction costs. The literature is quite clear
5 that these costs are not reflected in the market prices paid for common stocks. For
6 example, Brigham and Daves confirm this and provide the methodology utilized to
7 calculate the flotation adjustment.⁶² In addition, Morin confirms the need for such
8 an adjustment even when no new equity issuance is imminent.⁶³ Consequently, it
9 is proper to include a flotation cost adjustment when using cost of common equity
10 models to estimate the common equity cost rate.

11

12 **Q. HOW DID YOU CALCULATE THE FLOTATION COST ALLOWANCE?**

13 **A.** I modified the DCF calculation to provide a dividend yield that would reimburse
14 investors for issuance costs in accordance with the method cited in literature by
15 Brigham and Daves, as well as by Morin. The flotation cost adjustment recognizes
16 the actual costs of issuing equity that were incurred by Emera, Inc. since its
17 acquisition of NMGC in 2016. Based on the issuance costs shown on page 1 of
18 Schedule DWD-9, an adjustment of 0.09% is required to reflect the flotation costs
19 applicable to the Utility Proxy Group.

20

⁶² Eugene F. Brigham and Phillip R. Daves, Intermediate Financial Management, 9th Edition, Thomson/Southwestern, at 342.

⁶³ Morin, at 337-339.

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1 **Q. WHAT IS THE INDICATED COST OF COMMON EQUITY AFTER YOUR**
2 **COMPANY-SPECIFIC ADJUSTMENTS?**

3 **A.** Applying a 0.20% size adjustment, a 0.23% credit risk adjustment, and a 0.09%
4 flotation cost adjustment to the indicated range of ROEs between 9.65% and
5 12.15% results in a Company-specific range of common equity rates between
6 10.17% and 12.67%.

7

8 **X. CONCLUSION**

9 **Q. WHAT IS YOUR RECOMMENDED ROE FOR THE COMPANY?**

10 **A.** Given the discussion above and the results from the analyses, I recommend that an
11 ROE of 10.50% is appropriate for the Company at this time.

12

13 **Q. IN YOUR OPINION, IS YOUR PROPOSED ROE OF 10.50% FAIR AND**
14 **REASONABLE TO NMGC AND ITS CUSTOMERS?**

15 **A.** Yes, it is.

16

17 **Q. IN YOUR OPINION, IS NMGC'S PROPOSED CAPITAL STRUCTURE**
18 **FAIR AND REASONABLE?**

19 **A.** Yes, it is.

20

21 **Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

22 **A.** Yes, it does.

NMGC Exhibit DWD-1

Supporting Exhibits Accompanying the Direct Testimony of
Dylan W. D'Ascendis, CRRA, CVA
Schedule Nos. DWD-1 through DWD-9

New Mexico Gas Company
Table of Contents
Supporting Exhibits Accompanying the Direct Testimony
of Dylan W. D'Ascendis, CRRA, CVA

	<u>Schedule No.</u>
Summary of Overall Cost of Capital and Return on Common Equity	DWD-1
Range of Capital Structures for the Utility Proxy Group and Proxy Group Operating Companies	DWD-2
Indicated Common Equity Cost Rate Using the Discounted Cash Flow Model	DWD-3
Indicated Common Equity Cost Rate Using the Risk Premium Model	DWD-4
Indicated Common Equity Cost Rate Using the Capital Asset Pricing Model	DWD-5
Basis of Selection for the Non-Price Regulated Companies Comparable in Total Risk to the Utility Proxy Group	DWD-6
Cost of Common Equity Models Applied to the Non-Price Regulated Proxy Group	DWD-7
Estimated Risk Adjustment and Market Capitalization for New Mexico Gas Company and the Utility Proxy Group	DWD-8
Calculation of Flotation Costs	DWD-9

New Mexico Gas Company
Recommended Capital Structure and Cost Rates
for Ratemaking Purposes

<u>Type Of Capital</u>	<u>Ratios (1)</u>	<u>Cost Rate</u>		<u>Weighted Cost Rate</u>
Long-Term Debt	47.00%	3.857%	(1)	1.813%
Common Equity	<u>53.00%</u>	10.500%	(2)	<u>5.565%</u>
Total	<u>100.00%</u>			<u>7.378%</u>

Notes:

- (1) Company-provided.
- (2) From page 2 of this Schedule.

New Mexico Gas Company
Brief Summary of Common Equity Cost Rate

<u>Line No.</u>	<u>Principal Methods</u>	<u>Proxy Group of Six Natural Gas Distribution Companies</u>
1.	Discounted Cash Flow Model (DCF) (1)	9.65%
2.	Risk Premium Model (RPM) (2)	10.85%
3.	Capital Asset Pricing Model (CAPM) (3)	11.69%
4.	Market Models Applied to Comparable Risk, Non-Price Regulated Companies (4)	<u>12.15%</u>
5.	Indicated Range of Common Equity Cost Rates before Adjustment for Company-Specific Risk	9.65% - 12.15%
6.	Business Risk Adjustment (5)	0.20%
7.	Credit Risk Adjustment (6)	0.23%
8.	Flotation Cost Adjustment (7)	<u>0.09%</u>
9.	Recommended Range of Common Equity Cost Rates after Adjustment for Company-Specific Risk	<u>10.17% - 12.67%</u>
10.	Recommended Cost of Common Equity Cost Rate	<u>10.50%</u>

- Notes:
- (1) From page 1 of Schedule DWD-3.
 - (2) From page 1 of Schedule DWD-4.
 - (3) From page 1 of Schedule DWD-5.
 - (4) From page 1 of Schedule DWD-7.
 - (5) Adjustment to reflect the Company's greater business risk relative to the Utility Proxy Group as detailed in Mr. D'Ascendis' Direct Testimony.
 - (6) Company-specific risk adjustment to reflect New Mexico Gas Company's greater risk due to a lower long-term issuer rating relative to the proxy group as detailed in Mr. D'Ascendis' direct testimony.
 - (7) From page 1 of Schedule DWD-9.

Proxy Group of Six Natural Gas Distribution Companies
CAPITALIZATION AND FINANCIAL STATISTICS (1)
2018 - 2022, Inclusive

	2022	2021	2020	2019	2018	
	(MILLIONS OF DOLLARS)					
<u>Capitalization Statistics</u>						
<u>Amount of Capital Employed</u>						
Total Permanent Capital	\$8,225.462	\$7,455.217	\$6,855.835	\$6,012.401	\$5,411.345	
Short-Term Debt	\$703.086	\$415.467	\$333.183	\$612.061	\$629.275	
Total Capital Employed	<u>\$8,928.548</u>	<u>\$7,870.684</u>	<u>\$7,189.018</u>	<u>\$6,624.462</u>	<u>\$6,040.620</u>	
<u>Indicated Average Capital Cost Rates (2)</u>						
Total Debt	3.10 %	2.95 %	3.29 %	3.63 %	3.57 %	
Preferred Stock	4.84 %	5.33 %	6.19 %	4.60 %	2.64 %	
<u>Capital Structure Ratios</u>						
<u>5 YEAR AVERAGE</u>						
<u>Based on Total Permanent Capital:</u>						
Long-Term Debt	49.01 %	50.18 %	50.04 %	46.42 %	46.02 %	48.33 %
Preferred Stock	2.16	2.31	1.78	1.92	1.14	1.86
Common Equity	48.83	47.51	48.18	51.66	52.84	49.81
Total	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>Based on Total Capital:</u>						
Total Debt, Including Short-Term Debt	53.55 %	54.26 %	53.51 %	51.06 %	51.14 %	52.70 %
Preferred Stock	1.93	2.18	1.66	1.68	0.99	1.69
Common Equity	44.52	43.56	44.83	47.26	47.87	45.61
Total	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>Financial Statistics</u>						
<u>Financial Ratios - Market Based</u>						
Earnings / Price Ratio	5.55 %	5.25 %	3.45 %	3.84 %	4.32 %	4.48 %
Market / Average Book Ratio	184.08	176.32	191.60	224.79	213.85	198.13
Dividend Yield	3.31	3.42	3.09	2.60	2.77	3.04
Dividend Payout Ratio	58.56	60.27	83.22	69.25	54.00	65.06
<u>Rate of Return on Average Book Common Equity</u>	10.54 %	9.85 %	6.75 %	8.68 %	9.55 %	9.08 %
<u>Total Debt / EBITDA (3)</u>	5.05 x	5.10 x	6.03 x	4.96 x	5.01 x	5.23 x
<u>Funds from Operations / Total Debt (4)</u>	14.42 %	11.70 %	12.46 %	14.99 %	24.21 %	15.55 %
<u>Total Debt / Total Capital</u>	53.56 %	54.26 %	53.51 %	51.06 %	51.14 %	52.71 %

Notes:

- (1) All capitalization and financial statistics for the group are the arithmetic average of the achieved results for each individual company in the group, and are based upon financial statements as originally reported in each year.
- (2) Computed by relating actual total debt interest or preferred stock dividends booked to average of beginning and ending total debt or preferred stock reported to be outstanding.
- (3) Total debt relative to EBITDA (Earnings before Interest, Income Taxes, Depreciation and Amortization).
- (4) Funds from operations (sum of net income, depreciation, amortization, net deferred income tax and investment tax credits, less total AFUDC) plus interest charges as a percentage of total debt.

Source of Information: Company Annual Forms 10-K

Capital Structure Based upon Total Permanent Capital for the
Proxy Group of Six Natural Gas Distribution Companies
2018 - 2022, Inclusive

	<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>5 YEAR AVERAGE</u>
<u>Atmos Energy Corporation</u>						
Long-Term Debt	37.96 %	39.35 %	40.02 %	38.03 %	39.15 %	38.90 %
Preferred Stock	-	-	-	-	-	-
Common Equity	62.04	60.65	59.98	61.97	60.85	61.10
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>New Jersey Resources Corporation</u>						
Long-Term Debt	57.77 %	57.81 %	55.35 %	50.11 %	47.89 %	53.79 %
Preferred Stock	-	-	-	-	-	-
Common Equity	42.23	42.19	44.65	49.89	52.11	46.21
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>NiSource Inc.</u>						
Long-Term Debt	56.43 %	57.09 %	61.64 %	56.79 %	55.44 %	57.48 %
Preferred Stock	9.14	9.55	5.87	6.35	6.82	7.54
Common Equity	34.43	33.36	32.49	36.86	37.74	34.98
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>Northwest Natural Holding</u>						
Long-Term Debt	52.70 %	52.12 %	51.81 %	50.43 %	49.12 %	51.24 %
Preferred Stock	-	-	-	-	-	-
Common Equity	47.30	47.88	48.19	49.57	50.88	48.76
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>ONE Gas, Inc.</u>						
Long-Term Debt	37.79 %	41.74 %	41.76 %	37.65 %	38.62 %	39.51 %
Preferred Stock	-	-	-	-	-	-
Common Equity	62.21	58.26	58.24	62.35	61.38	60.49
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>Spire Inc.</u>						
Long-Term Debt	51.42 %	52.98 %	49.62 %	45.49 %	45.95 %	49.09 %
Preferred Stock	3.84	4.28	4.83	5.19	-	3.63
Common Equity	44.74	42.74	45.55	49.32	54.05	47.28
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>
<u>Proxy Group of Six Natural Gas Distribution Companies</u>						
Long-Term Debt	49.01 %	50.18 %	50.04 %	46.42 %	46.02 %	48.33 %
Preferred Stock	2.16	2.31	1.78	1.92	1.14	1.86
Common Equity	48.83	47.51	48.18	51.66	52.84	49.81
Total Capital	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>	<u>100.00 %</u>

Source of Information
Annual Forms 10-K

New Mexico Gas Company
Operating Subsidiary Capital Structures of the
Proxy Group of Six Natural Gas Distribution Companies

Fiscal Year 2022

<u>Company Name</u>	<u>Parent Company Ticker</u>	<u>Long-Term Debt</u>	<u>Preferred Equity</u>	<u>Common Equity</u>	<u>Total Permanent Capital</u>
Atmos Energy Corporation	ATO	40.11%	0.00%	59.89%	20.05%
New Jersey Natural Gas Company	NJR	44.96%	0.00%	55.04%	22.48%
NiSource Inc.	NI	55.96%	10.25%	33.79%	33.11%
Northwest Natural Gas Company	NWN	51.70%	0.00%	48.30%	25.85%
ONE Gas, Inc.	OGS	41.79%	0.00%	58.21%	20.90%
Spire Alabama Inc.	SR	45.29%	0.00%	54.71%	22.64%
Spire Missouri Inc.	SR	48.47%	0.00%	51.53%	24.23%

Source: S&P Global Market Intelligence; S&P Capital IQ; Company Filings

New Mexico Gas Company
Indicated Common Equity Cost Rate Using the Discounted Cash Flow Model for the
Proxy Group of Six Natural Gas Distribution Companies

	[1]	[2]	[3]	[4]	[5]	[6]	[7]
Proxy Group of Six Natural Gas Distribution Companies	Average Dividend Yield (1)	Value Line Projected Five Year Growth in EPS (2)	Zack's Five Year Projected Growth Rate in EPS	Yahoo! Finance Projected Five Year Growth in EPS	Average Projected Five Year Growth in EPS (3)	Adjusted Dividend Yield (4)	Indicated Common Equity Cost Rate (5)
Atmos Energy Corporation	2.54 %	7.00 %	7.50 %	7.80 %	7.43 %	2.63 %	10.06 %
New Jersey Resources Corporation	3.18	5.00	6.00	6.00	5.67	3.27	8.94
NiSource Inc.	3.62	9.50	7.00	6.70	7.73	3.76	11.49
Northwest Natural Holding Company	4.38	6.50	3.70	2.80	4.33	4.47	8.80
ONE Gas, Inc.	3.28	6.50	5.00	5.00	5.50	3.37	8.87
Spire Inc.	4.36	8.00	4.20	NA	6.10	4.49	10.59
						Average	9.79 %
						Median	9.50 %
						Average of Mean and Median	9.65 %

NA = Not Available

Notes:

- (1) Indicated dividend at 07/14/2023 divided by the average closing price of the last 60 trading days ending 07/14/2023 for each company.
- (2) From pages 3 through 8 of this Schedule.
- (3) Average of columns 2 through 4.
- (4) This reflects a growth rate component equal to one-half the conclusion of growth rate (from column 5) x column 1 to reflect the periodic payment of dividends (Gordon Model) as opposed to the continuous payment. Thus, for Atmos Energy Corporation, $2.54\% \times (1 + (1/2 \times 7.43\%)) = 2.63\%$.
- (5) Column 5 + column 6.

Source of Information:

Value Line Investment Survey
www.zacks.com Downloaded on 07/14/2023
www.yahoo.com Downloaded on 07/14/2023

New Mexico Gas Company
Indicated Common Equity Cost Rate Using the NMPRC's Discounted Cash Flow Model for the
Proxy Group of Six Natural Gas Distribution Companies

[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	
Proxy Group of Six Natural Gas Distribution Companies	Average Dividend Yield (1)	Value Line Projected Five Year Growth in EPS (2)	Zack's Five Year Projected Growth Rate in EPS	Yahoo! Finance Projected Five Year Growth in EPS	Average Projected Five Year Growth in EPS (3)	Adjusted Dividend Yield (4)	Mean Common Equity Cost Rate (5)	High Common Equity Cost Rate (6)
Atmos Energy Corporation	2.55 %	7.00 %	7.50 %	7.80 %	7.43 %	2.74 %	10.17 %	10.55 %
New Jersey Resources Corporation	3.08	5.00	6.00	6.00	5.67	3.25	8.92	9.26
NiSource Inc.	3.57	9.50	7.00	6.70	7.73	3.85	11.58	13.41
Northwest Natural Holding Company	4.23	6.50	3.70	2.80	4.33	4.41	8.74	11.00
ONE Gas, Inc.	3.25	6.50	5.00	5.00	5.50	3.43	8.93	9.96
Spire Inc.	4.24	8.00	4.20	NA	6.10	4.50	10.60	12.58
						Average	9.82 %	11.13 %
						Median	9.55 %	10.78 %
						Average of Mean and Median	9.69 %	10.96 %
						Indicated DCF Result		10.33%

NA = Not Available

Notes:

- (1) Indicated dividend at 7/14/2023 divided by the average closing price of the last 30 trading days ending 7/14/2023 for each company.
- (2) From pages 3 through 8 of this Schedule.
- (3) Average of columns 2 through 4.
- (4) $[1] * (1+[5])$
- (5) Column 5 + column 6.
- (6) $[1] * (1+(MAX([2],[3],[4])/100)+(MAX([2],[3],[4])))$

Source of Information:

Value Line Investment Survey
www.zacks.com Downloaded on 07/14/2023
www.yahoo.com Downloaded on 07/14/2023

ATMOS ENERGY CORP. NYSE-ATO										RECENT PRICE	P/E RATIO		RELATIVE P/E RATIO		DIV'D YLD		VALUE LINE			
										117.59	18.9 (Trailing: 20.2; Median: 20.0)		1.15		2.7%					
TIMELINESS 3 Lowered 2/10/23	High: 37.3	47.4	58.2	64.8	82.0	93.6	100.8	115.2	121.1	105.3	123.0	121.4								
SAFETY 1 Raised 6/6/14	Low: 30.4	34.9	44.2	50.8	60.0	72.5	76.5	89.2	77.9	84.6	97.7	105.8								
TECHNICAL 2 Raised 5/26/23	LEGENDS — 36.50 x Dividends p sh ····· Relative Price Strength Options: Yes Shaded area indicates recession																			
BETA .85 (1.00 = Market)	18-Month Target Price Range Low-High Midpoint (% to Mid) \$96-\$159 \$128 (10%)																			
2026-28 PROJECTIONS High Price Gain Ann'l Total Return Low 160 (+35%) 10% 130 (+10%) 5%																				
Institutional Decisions 202022 302022 4Q2022 to Buy 333 331 345 to Sell 231 251 266 Hld's(000) 126964 128317 132007																				
Percent shares traded 24 16 8																				
© VALUE LINE PUB. LLC 26-28 % TOT. RETURN 4/23 THIS STOCK VL ARITH. INDEX 1 yr. 9.1 0.5 3 yr. 20.7 65.7 5 yr. 46.9 47.7																				
2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024			
66.03	79.52	53.69	53.12	48.15	38.10	42.88	49.22	40.82	32.23	26.01	28.00	24.32	22.41	25.73	29.82	32.65	36.85	Revenues per sh ^A	50.00	
4.14	4.19	4.29	4.64	4.72	4.76	5.14	5.42	5.81	6.19	6.62	7.24	7.57	8.03	8.64	9.30	10.00	10.60	"Cash Flow" per sh	12.60	
1.94	2.00	1.97	2.16	2.26	2.10	2.50	2.96	3.09	3.38	3.60	4.00	4.35	4.72	5.12	5.60	6.00	6.40	Earnings per sh ^{AB}	7.85	
1.28	1.30	1.32	1.34	1.36	1.38	1.40	1.48	1.56	1.68	1.80	1.94	2.10	2.30	2.50	2.72	2.96	3.20	Div'ds Decl'd per sh ^C	3.90	
4.39	5.20	5.51	6.02	6.90	8.12	9.32	8.32	9.61	10.46	10.72	13.19	14.19	15.38	14.87	17.35	18.35	18.55	Cap'l Spending per sh	18.30	
22.01	22.60	23.52	24.16	24.98	26.14	28.47	30.74	31.48	33.32	36.74	42.87	48.18	53.95	59.71	66.85	70.20	73.05	Book Value per sh	79.40	
89.33	90.81	92.55	90.16	90.30	90.24	90.64	100.39	101.48	103.93	106.10	111.27	119.34	125.88	132.42	140.90	147.00	152.00	Common Shs Outst'g ^D	170.00	
15.9	13.6	12.5	13.2	14.4	15.9	15.9	16.1	17.5	20.8	22.0	21.7	23.2	22.3	18.8	19.3	Bold figures are Value Line estimates		Avg Ann'l P/E Ratio	18.5	
.84	.82	.83	.84	.90	1.01	.89	.85	.88	1.09	1.11	1.17	1.24	1.15	1.02	1.12			Relative P/E Ratio	1.05	
4.2%	4.8%	5.3%	4.7%	4.2%	4.1%	3.5%	3.1%	2.9%	2.4%	2.3%	2.2%	2.1%	2.2%	2.6%	2.5%			Avg Ann'l Div'd Yield	2.7%	
CAPITAL STRUCTURE as of 3/31/23						3886.3	4940.9	4142.1	3349.9	2759.7	3115.5	2901.8	2821.1	3407.5	4201.7	4800	5600	Revenues (\$mill) ^A	8500	
Total Debt \$6554.6 mill. Due in 5 Yrs \$2900.0 mill.						230.7	289.8	315.1	350.1	382.7	444.3	511.4	580.5	665.6	774.4	875	965	Net Profit (\$mill)	1325	
LT Debt \$6553.1 mill. LT Interest \$105.0 mill.						38.2%	39.2%	38.3%	36.4%	36.6%	27.0%	21.4%	19.5%	18.8%	9.1%	11.5%	13.0%	Income Tax Rate	25.0%	
(LT interest earned: 9.3x; total interest coverage: 9.3x)						5.9%	5.9%	7.6%	10.5%	13.9%	14.3%	17.6%	20.6%	19.5%	18.4%	18.2%	17.2%	Net Profit Margin	15.6%	
Leases, Uncapitalized Annual rentals \$43.1 mill.						48.8%	44.3%	43.5%	38.7%	44.0%	34.3%	38.0%	40.0%	38.4%	37.9%	40.0%	40.0%	Long-Term Debt Ratio	40.0%	
Pfd Stock None						51.2%	55.7%	56.5%	61.3%	56.0%	65.7%	62.0%	60.0%	61.6%	62.1%	60.0%	60.0%	Common Equity Ratio	60.0%	
Pension Assets-9/22 \$479.0 mill.						5036.1	5542.2	5650.2	5651.8	6965.7	7263.6	9279.7	11323	12837	15180	17200	18500	Total Capital (\$mill)	22500	
Common Stock 144,487,306 shs. as of 4/28/23						6030.7	6725.9	7430.6	8280.5	9259.2	10371	11788	13355	15064	17240	19300	20400	20400	Net Plant (\$mill)	25000
Oblig. \$449.5 mill.						5.9%	6.4%	6.6%	7.2%	6.4%	6.9%	6.1%	5.5%	5.5%	5.4%	6.5%	6.5%	Return on Total Cap'l	7.0%	
MARKET CAP: \$17.0 billion (Large Cap)						8.9%	9.4%	9.9%	10.1%	9.8%	9.3%	8.9%	8.5%	8.4%	8.2%	8.5%	8.5%	Return on Shr. Equity	10.0%	
CURRENT POSITION (2021, 2022, 3/31/23)						8.9%	9.4%	9.9%	10.1%	9.8%	9.3%	8.9%	8.5%	8.4%	8.2%	8.5%	8.5%	Return on Com Equity	10.0%	
Cash Assets 116.7						4.0%	4.7%	4.9%	5.1%	4.9%	4.8%	4.6%	4.4%	4.3%	4.2%	4.5%	4.5%	Retained to Com Eq	5.0%	
Other 2722.0						56%	50%	51%	50%	50%	48%	48%	49%	49%	49%	50%	50%	All Div'ds to Net Prof	50%	
Current Assets 2838.7						BUSINESS: Atmos Energy Corporation is engaged primarily in the distribution and sale of natural gas to over three million customers through six regulated natural gas utility operations: Louisiana Division, West Texas Division, Mid-Tex Division, Mississippi Division, Colorado-Kansas Division, and Kentucky/Mid-States Division. Gas sales breakdown for fiscal 2022: 63.7%, residential; 28.8%, commercial; 5.8%, industrial; and 1.7% other. The company sold Atmos Energy Marketing, 1/17. Officers and directors own approximately .5% of common stock (12/22 Proxy). President and Chief Executive Officer: Kevin Akers. Incorporated: Texas. Address: Three Lincoln Centre, Suite 1800, 5430 LBJ Freeway, Dallas, Texas 75240. Telephone: 972-934-9227. Internet: www.atmosenergy.com.														
Accts Payable 423.2						Earnings for Atmos Energy showed some improvement through the first half of fiscal 2023 (ended March 31st). Share net of \$4.39 was nearly 4% higher than last year's \$4.23 tally. This was brought about partly by the distribution unit, helped largely by higher rates, especially in the Mid-Tex division. Furthermore, the performance of the pipeline and storage business benefited nicely from a rise in revenue from a Gas Reliability Infrastructure Program filing approved in fiscal 2022. Operating expenses did increase significantly during the period, but that's to be expected as the company expands. So, it seems that full-year profits will advance around 7%, to \$6.00 a share, versus fiscal 2022's \$5.60 total. Concerning next year, share net may grow at a similar percentage rate, to \$6.40, assuming that operating margins widen further. Corporate finances are in strong condition. When the second quarter concluded, cash and equivalents resided at \$95.2 million. Moreover, long-term debt was quite manageable (almost 40% of total capital) and short-term borrowings were just \$1.5 million. Too, \$4 billion in com-														
Debt Due 2400.5						mon stock and/or debt securities remained available for issuance (out of \$5 billion) under a shelf registration statement expiring in March, 2026. Lastly, Atmos can access four revolving credit facilities aggregating \$2.5 billion plus a \$1.5 billion commercial paper program. All told, there's sufficient liquidity to satisfy various obligations for quite a while. We believe good things are in store for the company over the 2026-2028 span. It ranks as one of the nation's biggest natural gas-only distributors, with more than three million customers across several states, including Texas, Louisiana, and Mississippi. Also, the pipeline and storage segment appears to have promising overall expansion opportunities, given that it operates in one of the most-active drilling regions in the world. The sound balance sheet is another plus. The high-quality stock holds un-spectacular long-term total return potential. Capital gains possibilities are unenticing. Also, the dividend yield is below the average of Value Line's Natural Gas Utility Industry group. <i>Frederick L. Harris, III May 26, 2023</i>														
Other 686.7																				
Current Liab. 3510.4																				
Fix. Chg. Cov. 1457.9																				
ANNUAL RATES																				
of change (per sh)																				
Revenues -5.5%																				
"Cash Flow" 6.5%																				
Earnings 9.0%																				
Dividends 6.5%																				
Book Value 9.0%																				
Fiscal Year Ends																				
QUARTERLY REVENUES (\$ mill.) ^A																				
Dec.31 Mar.31 Jun.30 Sep.30																				
2020	875.6	977.6	493.0	474.9	2821.1															
2021	914.5	1319.1	605.6	568.3	3407.5															
2022	1012.8	1649.8	816.4	722.7	4201.7															
2023	1484.0	1541.0	930	845	4800															
2024	1675	1860	1065	1000	5600															
Fiscal Year Ends																				
EARNINGS PER SHARE ^{A B E}																				
Dec.31 Mar.31 Jun.30 Sep.30																				
2020	1.47	1.95	.79	.53	4.72															
2021	1.71	2.30	.78	.37	5.12															
2022	1.86	2.37	.92	.51	5.60															
2023	1.91	2.48	1.03	.58	6.00															
2024	2.12	2.53	1.11	.64	6.40															
Cal-endar																				
QUARTERLY DIVIDENDS PAID ^C																				
Mar.31 Jun.30 Sep.30 Dec.31																				
2019	.525	.525	.525	.575	2.15															
2020	.575	.575	.575	.625	2.35															
2021	.625	.625	.625	.68	2.56															
2022	.68	.68	.68	.74	2.78															
2023	.74	.74	.74	.74																

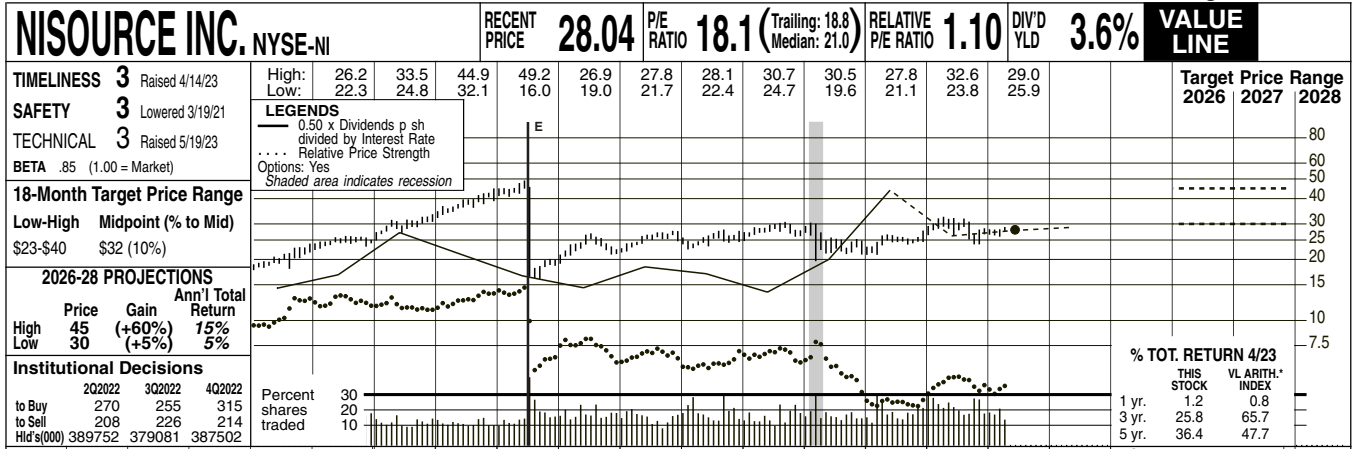
(A) Fiscal year ends Sept. 30th. (B) Diluted shrs. Excl. nonrec. gains (loss): '10, 5c; '11, (1c); '18, \$1.43; '20, 17c. Excludes discontinued operations: '11, 10c; '12, 27c; '13, 14c; '17, 13c. Next earnings report due early Aug. (D) In millions. (E) Qtrs may not add due to change in shrs outstanding. (C) Dividends historically paid in early March, June, Sept., and Dec. = Div. reinvestment plan. Direct stock purchase plan avail.

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Company's Financial Strength	A+
Stock's Price Stability	95
Price Growth Persistence	65
Earnings Predictability	100

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NEW JERSEY RES. NYSE-NJR				RECENT PRICE	P/E RATIO	RELATIVE P/E RATIO	DIV'D YLD	VALUE LINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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TIMELINESS	2	Raised 5/12/23	High: 25.1	32.1	34.1	38.9	45.4	51.8	51.2	44.7	44.4	51.4	55.8	Target Price	Range																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
SAFETY	2	Lowered 4/17/20	Low: 19.3	21.9	26.8	30.5	33.7	35.6	40.3	21.1	33.3	37.8	48.3	2026	2027	2028																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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2026-28 PROJECTIONS				<table border="1"> <thead> <tr> <th>High</th> <th>Price</th> <th>Gain</th> <th>Ann'l Total</th> </tr> <tr> <th>Low</th> <th></th> <th>(-10%)</th> <th>Return</th> </tr> </thead> <tbody> <tr> <td>65</td> <td>65</td> <td>+30%</td> <td>10%</td> </tr> <tr> <td>45</td> <td>45</td> <td>-10%</td> <td>1%</td> </tr> </tbody> </table>												High	Price	Gain	Ann'l Total	Low		(-10%)	Return	65	65	+30%	10%	45	45	-10%	1%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Chg. Cov.</td> <td colspan="12"></td> </tr> <tr> <td colspan="4">ANNUAL RATES</td> <td colspan="12"> <table border="1"> <thead> <tr> <th>Past 10 Yrs.</th> <th>Past 5 Yrs.</th> <th>Est'd '20-'22</th> </tr> </thead> <tbody> <tr> <td>-3.0%</td> <td>-6.0%</td> <td>2.5%</td> </tr> <tr> <td>7.0%</td> <td>4.5%</td> <td>5.0%</td> </tr> <tr> <td>5.0%</td> <td>2.5%</td> <td>5.0%</td> </tr> <tr> <td>6.5%</td> <td>6.5%</td> <td>5.0%</td> </tr> <tr> <td>7.5%</td> <td>7.0%</td> <td>4.5%</td> </tr> </tbody> </table> </td> </tr> <tr> <td colspan="4">Fiscal Year Ends</td> <td colspan="12"> <table border="1"> <thead> <tr> <th>Dec.31</th> <th>Mar.31</th> <th>Jun.30</th> <th>Sep.30</th> <th>Full Fiscal Year</th> </tr> </thead> <tbody> <tr> <td>615.0</td> <td>639.6</td> <td>299.0</td> <td>400.1</td> <td>1953.7</td> </tr> <tr> <td>454.3</td> <td>802.2</td> <td>367.6</td> <td>532.5</td> <td>2156.6</td> </tr> <tr> <td>675.8</td> <td>912.3</td> <td>552.3</td> <td>765.5</td> <td>2906.0</td> </tr> <tr> <td>723.6</td> <td>644.0</td> <td>550</td> <td>682.4</td> <td>2600</td> </tr> <tr> <td>725</td> <td>875</td> <td>550</td> <td>700</td> <td>2850</td> </tr> </tbody> </table> </td> </tr> <tr> <td colspan="4">Fiscal Year Ends</td> <td colspan="12"> <table border="1"> <thead> <tr> <th>Dec.31</th> <th>Mar.31</th> <th>Jun.30</th> <th>Sep.30</th> <th>Full Fiscal Year</th> </tr> </thead> <tbody> <tr> <td>.44</td> <td>1.12</td> <td>d.06</td> <td>.57</td> <td>2.07</td> </tr> <tr> <td>.46</td> <td>1.77</td> <td>d.15</td> <td>.07</td> <td>2.16</td> </tr> <tr> <td>.69</td> <td>1.36</td> <td>d.04</td> <td>.50</td> <td>2.50</td> </tr> <tr> <td>1.14</td> <td>1.16</td> <td>d.05</td> <td>.45</td> <td>2.70</td> </tr> <tr> <td>1.00</td> <td>1.25</td> <td>.05</td> <td>.50</td> <td>2.80</td> </tr> </tbody> </table> </td> </tr> <tr> <td colspan="4">Fiscal Year Ends</td> <td colspan="12"> <table border="1"> <thead> <tr> <th>Mar.31</th> <th>Jun.30</th> <th>Sep.30</th> <th>Dec.31</th> <th>Full Year</th> </tr> </thead> <tbody> <tr> <td>.2925</td> <td>.2925</td> <td>.2925</td> <td>.3125</td> <td>1.19</td> </tr> <tr> <td>.3125</td> <td>.3125</td> <td>.3125</td> <td>.3325</td> <td>1.27</td> </tr> <tr> <td>.3325</td> <td>.3325</td> <td>.3325</td> <td>.3625</td> <td>1.36</td> </tr> <tr> <td>.3625</td> <td>.3625</td> <td>.3625</td> <td>.3625</td> <td>1.45</td> </tr> <tr> <td>.39</td> <td>.39</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </td> </tr> <tr> <td colspan="4">QUARTERLY DIVIDENDS PAID</td> <td colspan="12"></td> </tr> <tr> <td colspan="4">Cal-endar</td> <td colspan="12"></td> </tr> <tr> <td colspan="4">2019</td> <td colspan="12"></td> </tr> <tr> <td colspan="4">2020</td> <td colspan="12"></td> </tr> <tr> <td colspan="4">2021</td> <td colspan="12"></td> </tr> <tr> <td colspan="4">2022</td> <td colspan="12"></td> </tr> <tr> <td colspan="4">2023</td> <td colspan="12"></td> </tr> <tr> <td colspan="4">2024</td> <td colspan="12"></td> </tr> <tr> <td colspan="4">BUSINESS: New Jersey Resources Corp. is a holding company providing retail/wholesale energy svcs. to customers in NJ, and in states from the Gulf Coast to New England, and Canada. New Jersey Natural Gas had 569,300 cust. at 9/30/22. Fiscal 2022 volume: 144 bill. cu. ft. (23% interruptible, 47% residential, commercial & firm transportation, 30% other). N.J. Natural Energy subsidiary provides unregulated retail/wholesale natural gas and related energy svcs. 2021 dep. rate: 2.7%. Has 1,288 empl. Off./dir. own less than 1% of common; BlackRock, 14.0%; Vanguard, 11.0% (12/22 Proxy). CEO, President & Director: Steven D. Westhoven. Incorporated: New Jersey. Address: 1415 Wyckoff Road, Wall, NJ 07719. Telephone: 732-938-1480. Web: www.njresources.com.</td> <td colspan="12"> <p>New Jersey Resources reported slight weakness in its fiscal second quarter. Historically warm weather conditions in the company's operating region during the March period, along with a significant reduction in the price of natural gas, resulted in a sharp decline in revenues. Despite the top line falling 40% below our estimate for the quarter, the company's net financial earnings per share (NFEPS) held its ground reasonably well. The quarter's profits per share of \$1.16 ended just four cents lower than our estimate, signaling a strong showing in terms of margin resiliency, thanks in large part to the cost pass-through mechanism of the regulated utilities business. However, March-period earnings have declined for the second consecutive year running. In the quarter, each operating segment declined from the year-ago period, but on a fiscal year-to-date basis, the comparable profit figure is much more positive, showing double-digit growth, owing to a strong December period result.</p> <p>We look for the company's earnings growth to slow in the years ahead. After a very strong first quarter, the rest of fiscal 2023 should be in for challenging comparisons. We expect NFEPS to fall below the prior-year levels in each of the remaining two quarters. Still, full-year earnings should manage to eke out an improvement of about 8% to reach \$2.70, driven by strong customer growth trends and a diversified operating segmentation strategy that differentiates NJR from other highly-regulated pure-play utilities. In turn, we have left our fiscal 2024 earnings call unchanged at \$2.80.</p> <p>Long-term earnings growth potential is a bit uncertain at this juncture. We expect the growth of the Clean Energy Ventures (CEV) segment to be a harbinger of the company's future earnings potential. New Jersey Resources has the opportunity through exclusive rights agreements to triple its clean energy portfolio. However, this notion is being challenged in Washington where debt-limit negotiations put at risk the clean energy incentives introduced in the Inflation Reduction Act.</p> <p>To wit, long-term total capital appreciation potential appears limited, regardless of CEV's political risk.</p> <p>Earl B. Humes May 26, 2023</p> </td> </tr> <tr> <td colspan="4">(A) Fiscal year ends Sept. 30th.</td> <td colspan="12">(B) Diluted earnings. Qly. revenues and egs. may not sum to total due to rounding and change in shares outstanding. Next earnings report due early August.</td> </tr> <tr> <td colspan="4">(C) Dividends historically paid in early Jan., April, July, and October. ■ Dividend reinvestment plan available.</td> <td colspan="12">(D) Includes regulatory assets in 2022: \$500 million, \$.52/share.</td> </tr> <tr> <td colspan="4">(E) In millions, adjusted for splits.</td> <td colspan="12">Company's Financial Strength A+</td> </tr> <tr> <td colspan="4"></td> <td colspan="12">Stock's Price Stability 85</td> </tr> <tr> <td colspan="4"></td> <td colspan="12">Price Growth Persistence 55</td> </tr> <tr> <td colspan="4"></td> <td colspan="12">Earnings Predictability 60</td> </tr> <tr> <td colspan="4">© 2023 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.</td> <td colspan="12">To subscribe call 1-800-VALUELINE</td> </tr> </tbody> </table>												2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	% TOT. RETURN 4/23	36.31	45.37	31.17	32.05	36.30	27.08	38.38	44.40	32.09	21.90	26.28	33.24	29.01	20.39	22.71	30.38	26.80	29.10	THIS STOCK 23.6	1.22	1.81	1.58	1.63	1.70	1.86	1.93	2.73	2.52	2.46	2.68	3.72	2.99	3.30	3.36	3.86	4.20	4.35	VL ARITH. INDEX 0.5	.78	1.35	1.20	1.23	1.29	1.36	1.37	2.08	1.78	1.61	1.73	2.72	1.96	2.07	2.16	2.50	2.70	2.80	1 yr. 70.2	.51	.56	.62	.68	.72	.77	.81	.86	.93	.98	1.04	1.11	1.19	1.27	1.36	1.45	1.56	1.68	3 yr. 65.7	.73	.86	.90	1.05	1.13	1.26	1.33	1.52	3.76	4.15	3.80	4.39	5.83	4.65	5.42	6.50	6.20	6.65	5 yr. 47.1	7.75	8.64	8.29	8.81	9.36	9.80	10.65	11.48	12.99	13.58	14.33	16.18	17.37	19.26	17.18	19.00	22.15	24.70		83.22	84.12	83.17	82.35	82.89	83.05	83.32	84.20	85.19	85.88	86.32	87.69	89.34	95.80	94.95	95.64	97.00	98.00		21.6	12.3	14.9	15.0	16.8	16.8	16.0	11.7	16.6	21.3	22.4	15.6	24.3	17.7	17.5	17.0	17.0	17.0		1.15	.74	.99	.95	1.05	1.07	.90	.62	.84	1.12	1.13	.84	1.29	.91	.94	.98	1.00	1.00		3.0%	3.3%	3.5%	3.7%	3.3%	3.4%	3.7%	3.5%	3.1%	2.9%	2.7%	2.6%	2.5%	3.5%	3.6%	3.4%	3.4%	3.4%		CAPITAL STRUCTURE as of 3/31/23				<table border="1"> <thead> <tr> <th>2007</th> <th>2008</th> <th>2009</th> <th>2010</th> <th>2011</th> <th>2012</th> <th>2013</th> <th>2014</th> <th>2015</th> <th>2016</th> <th>2017</th> <th>2018</th> <th>2019</th> <th>2020</th> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> <th>Revenues per sh</th> </tr> </thead> <tbody> <tr> <td>3198.1</td> <td>3738.1</td> <td>2734.0</td> <td>1880.9</td> <td>2268.6</td> <td>2915.1</td> <td>2592.0</td> <td>1953.7</td> <td>2156.6</td> <td>2906.0</td> <td>2600</td> <td>2850</td> <td>Revenues (\$mill) A</td> <td>3250</td> </tr> <tr> <td>113.7</td> <td>176.9</td> <td>153.7</td> <td>138.1</td> <td>149.4</td> <td>240.5</td> <td>175.0</td> <td>196.2</td> <td>240.3</td> <td>260</td> <td>275</td> <td>Net Profit (\$mill)</td> <td>325</td> </tr> <tr> <td>25.4%</td> <td>30.2%</td> <td>26.3%</td> <td>15.5%</td> <td>17.2%</td> <td>--</td> <td>--</td> <td>NMF</td> <td>10.3%</td> <td>21.4%</td> <td>22.0%</td> <td>22.0%</td> <td>Income Tax Rate</td> <td>22.0%</td> </tr> <tr> <td>3.6%</td> <td>4.7%</td> <td>5.6%</td> <td>7.3%</td> <td>6.6%</td> <td>8.2%</td> <td>6.7%</td> <td>10.0%</td> <td>9.6%</td> <td>8.3%</td> <td>10.0%</td> <td>9.6%</td> <td>Net Profit Margin</td> <td>10.0%</td> </tr> <tr> <td>36.6%</td> <td>38.2%</td> <td>43.2%</td> <td>47.7%</td> <td>44.6%</td> <td>45.4%</td> <td>49.8%</td> <td>55.1%</td> <td>57.0%</td> <td>57.0%</td> <td>57.0%</td> <td>56.0%</td> <td>Long-Term Debt Ratio</td> <td>55.0%</td> </tr> <tr> <td>63.4%</td> <td>61.8%</td> <td>56.8%</td> <td>52.3%</td> <td>55.4%</td> <td>54.6%</td> <td>50.2%</td> <td>44.9%</td> <td>43.0%</td> <td>42.2%</td> <td>43.0%</td> <td>44.0%</td> <td>Common Equity Ratio</td> <td>45.0%</td> </tr> <tr> <td>1400.3</td> <td>1564.4</td> <td>1950.6</td> <td>2230.1</td> <td>2233.7</td> <td>2599.6</td> <td>3088.9</td> <td>4104.2</td> <td>3793.0</td> <td>4302.6</td> <td>5000</td> <td>5500</td> <td>Total Capital (\$mill)</td> <td>6200</td> </tr> <tr> <td>1643.1</td> <td>1884.1</td> <td>2128.3</td> <td>2407.7</td> <td>2609.7</td> <td>2651.0</td> <td>3041.2</td> <td>3983.0</td> <td>4213.5</td> <td>4649.9</td> <td>5000</td> <td>5200</td> <td>Net Plant (\$mill)</td> <td>5500</td> </tr> <tr> <td>9.0%</td> <td>12.1%</td> <td>8.6%</td> <td>6.9%</td> <td>7.7%</td> <td>10.1%</td> <td>6.4%</td> <td>3.6%</td> <td>6.5%</td> <td>5.6%</td> <td>5.0%</td> <td>5.0%</td> <td>Return on Total Cap'l</td> <td>5.0%</td> </tr> <tr> <td>12.8%</td> <td>18.3%</td> <td>13.9%</td> <td>11.8%</td> <td>12.1%</td> <td>16.9%</td> <td>11.3%</td> <td>10.6%</td> <td>12.7%</td> <td>13.2%</td> <td>12.0%</td> <td>11.5%</td> <td>Return on Shr. 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Equity	11.5%	12.8%	18.3%	13.9%	11.8%	12.1%	16.9%	11.3%	10.6%	12.7%	13.2%	12.0%	11.5%	Return on Com Equity	11.5%	5.2%	11.0%	7.0%	4.8%	5.0%	10.2%	4.6%	4.3%	5.6%	6.2%	5.0%	4.5%	Retained to Com Eq	4.5%	59%	40%	50%	60%	59%	40%	59%	60%	56%	53%	58%	60%	All Div'ds to Net Prof	60%	Pension Assets-9/22 \$484.1 mill.				<table border="1"> <thead> <tr> <th>2007</th> <th>2008</th> <th>2009</th> <th>2010</th> <th>2011</th> <th>2012</th> <th>2013</th> <th>2014</th> <th>2015</th> <th>2016</th> <th>2017</th> <th>2018</th> <th>2019</th> <th>2020</th> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> <th>Avg Ann'l P/E Ratio</th> </tr> </thead> <tbody> <tr> <td>21.6</td> <td>12.3</td> <td>14.9</td> <td>15.0</td> <td>16.8</td> <td>16.8</td> <td>16.0</td> <td>11.7</td> <td>16.6</td> <td>21.3</td> <td>22.4</td> <td>15.6</td> <td>24.3</td> <td>17.7</td> <td>17.5</td> <td>17.0</td> <td>17.0</td> <td>17.0</td> <td>17.0</td> </tr> <tr> <td>1.15</td> <td>.74</td> <td>.99</td> <td>.95</td> <td>1.05</td> <td>1.07</td> <td>.90</td> <td>.62</td> <td>.84</td> <td>1.12</td> <td>1.13</td> <td>.84</td> <td>1.29</td> <td>.91</td> <td>.94</td> <td>.98</td> <td>1.00</td> <td>1.00</td> <td>Relative P/E Ratio</td> </tr> <tr> <td>3.0%</td> <td>3.3%</td> <td>3.5%</td> <td>3.7%</td> <td>3.3%</td> <td>3.4%</td> <td>3.7%</td> <td>3.5%</td> <td>3.1%</td> <td>2.9%</td> <td>2.7%</td> <td>2.6%</td> <td>2.5%</td> <td>3.5%</td> <td>3.6%</td> <td>3.4%</td> <td>3.4%</td> <td>3.4%</td> <td>4.0%</td> </tr> </tbody> </table>												2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Avg Ann'l P/E Ratio	21.6	12.3	14.9	15.0	16.8	16.8	16.0	11.7	16.6	21.3	22.4	15.6	24.3	17.7	17.5	17.0	17.0	17.0	17.0	1.15	.74	.99	.95	1.05	1.07	.90	.62	.84	1.12	1.13	.84	1.29	.91	.94	.98	1.00	1.00	Relative P/E Ratio	3.0%	3.3%	3.5%	3.7%	3.3%	3.4%	3.7%	3.5%	3.1%	2.9%	2.7%	2.6%	2.5%	3.5%	3.6%	3.4%	3.4%	3.4%	4.0%	Oblig. \$464.0 mill.																Pfd Stock None																Common Stock 96,964,456 shs.																as of 5/1/23																MARKET CAP: \$4.8 billion (Mid Cap)																CURRENT POSITION				<table border="1"> <thead> <tr> <th>2021</th> <th>2022</th> <th>3/31/23</th> </tr> </thead> <tbody> <tr> <td>4.7</td> <td>1.1</td> <td>27.1</td> </tr> <tr> <td>629.6</td> <td>755.0</td> <td>588.9</td> </tr> <tr> <td>634.3</td> <td>756.1</td> <td>616.0</td> </tr> </tbody> </table>												2021	2022	3/31/23	4.7	1.1	27.1	629.6	755.0	588.9	634.3	756.1	616.0	Cash Assets																Other																Current Assets																Accts Payable																Debt Due																Other																Current Liab.																Fix. Chg. Cov.																ANNUAL RATES				<table border="1"> <thead> <tr> <th>Past 10 Yrs.</th> <th>Past 5 Yrs.</th> <th>Est'd '20-'22</th> </tr> </thead> <tbody> <tr> <td>-3.0%</td> <td>-6.0%</td> <td>2.5%</td> </tr> <tr> <td>7.0%</td> <td>4.5%</td> <td>5.0%</td> </tr> <tr> <td>5.0%</td> <td>2.5%</td> <td>5.0%</td> </tr> <tr> <td>6.5%</td> <td>6.5%</td> <td>5.0%</td> </tr> <tr> <td>7.5%</td> <td>7.0%</td> <td>4.5%</td> </tr> </tbody> </table>												Past 10 Yrs.	Past 5 Yrs.	Est'd '20-'22	-3.0%	-6.0%	2.5%	7.0%	4.5%	5.0%	5.0%	2.5%	5.0%	6.5%	6.5%	5.0%	7.5%	7.0%	4.5%	Fiscal Year Ends				<table border="1"> <thead> <tr> <th>Dec.31</th> <th>Mar.31</th> <th>Jun.30</th> <th>Sep.30</th> <th>Full Fiscal Year</th> </tr> </thead> <tbody> <tr> <td>615.0</td> <td>639.6</td> <td>299.0</td> <td>400.1</td> <td>1953.7</td> </tr> <tr> <td>454.3</td> <td>802.2</td> <td>367.6</td> <td>532.5</td> <td>2156.6</td> </tr> <tr> <td>675.8</td> <td>912.3</td> <td>552.3</td> <td>765.5</td> <td>2906.0</td> </tr> <tr> <td>723.6</td> <td>644.0</td> <td>550</td> <td>682.4</td> <td>2600</td> </tr> <tr> <td>725</td> <td>875</td> <td>550</td> <td>700</td> <td>2850</td> </tr> </tbody> </table>												Dec.31	Mar.31	Jun.30	Sep.30	Full Fiscal Year	615.0	639.6	299.0	400.1	1953.7	454.3	802.2	367.6	532.5	2156.6	675.8	912.3	552.3	765.5	2906.0	723.6	644.0	550	682.4	2600	725	875	550	700	2850	Fiscal Year Ends				<table border="1"> <thead> <tr> <th>Dec.31</th> <th>Mar.31</th> <th>Jun.30</th> <th>Sep.30</th> <th>Full Fiscal Year</th> </tr> </thead> <tbody> <tr> <td>.44</td> <td>1.12</td> <td>d.06</td> <td>.57</td> <td>2.07</td> </tr> <tr> <td>.46</td> <td>1.77</td> <td>d.15</td> <td>.07</td> <td>2.16</td> </tr> <tr> <td>.69</td> <td>1.36</td> <td>d.04</td> <td>.50</td> <td>2.50</td> </tr> <tr> <td>1.14</td> <td>1.16</td> <td>d.05</td> <td>.45</td> <td>2.70</td> </tr> <tr> <td>1.00</td> <td>1.25</td> <td>.05</td> <td>.50</td> <td>2.80</td> </tr> </tbody> </table>												Dec.31	Mar.31	Jun.30	Sep.30	Full Fiscal Year	.44	1.12	d.06	.57	2.07	.46	1.77	d.15	.07	2.16	.69	1.36	d.04	.50	2.50	1.14	1.16	d.05	.45	2.70	1.00	1.25	.05	.50	2.80	Fiscal Year Ends				<table border="1"> <thead> <tr> <th>Mar.31</th> <th>Jun.30</th> <th>Sep.30</th> <th>Dec.31</th> <th>Full Year</th> </tr> </thead> <tbody> <tr> <td>.2925</td> <td>.2925</td> <td>.2925</td> <td>.3125</td> <td>1.19</td> </tr> <tr> <td>.3125</td> <td>.3125</td> <td>.3125</td> <td>.3325</td> <td>1.27</td> </tr> <tr> <td>.3325</td> <td>.3325</td> <td>.3325</td> <td>.3625</td> <td>1.36</td> </tr> <tr> <td>.3625</td> <td>.3625</td> <td>.3625</td> <td>.3625</td> <td>1.45</td> </tr> <tr> <td>.39</td> <td>.39</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												Mar.31	Jun.30	Sep.30	Dec.31	Full Year	.2925	.2925	.2925	.3125	1.19	.3125	.3125	.3125	.3325	1.27	.3325	.3325	.3325	.3625	1.36	.3625	.3625	.3625	.3625	1.45	.39	.39				QUARTERLY DIVIDENDS PAID																Cal-endar																2019																2020																2021																2022																2023																2024																BUSINESS: New Jersey Resources Corp. is a holding company providing retail/wholesale energy svcs. to customers in NJ, and in states from the Gulf Coast to New England, and Canada. New Jersey Natural Gas had 569,300 cust. at 9/30/22. Fiscal 2022 volume: 144 bill. cu. ft. (23% interruptible, 47% residential, commercial & firm transportation, 30% other). N.J. Natural Energy subsidiary provides unregulated retail/wholesale natural gas and related energy svcs. 2021 dep. rate: 2.7%. Has 1,288 empl. Off./dir. own less than 1% of common; BlackRock, 14.0%; Vanguard, 11.0% (12/22 Proxy). CEO, President & Director: Steven D. Westhoven. Incorporated: New Jersey. Address: 1415 Wyckoff Road, Wall, NJ 07719. Telephone: 732-938-1480. Web: www.njresources.com.				<p>New Jersey Resources reported slight weakness in its fiscal second quarter. Historically warm weather conditions in the company's operating region during the March period, along with a significant reduction in the price of natural gas, resulted in a sharp decline in revenues. Despite the top line falling 40% below our estimate for the quarter, the company's net financial earnings per share (NFEPS) held its ground reasonably well. The quarter's profits per share of \$1.16 ended just four cents lower than our estimate, signaling a strong showing in terms of margin resiliency, thanks in large part to the cost pass-through mechanism of the regulated utilities business. However, March-period earnings have declined for the second consecutive year running. In the quarter, each operating segment declined from the year-ago period, but on a fiscal year-to-date basis, the comparable profit figure is much more positive, showing double-digit growth, owing to a strong December period result.</p> <p>We look for the company's earnings growth to slow in the years ahead. After a very strong first quarter, the rest of fiscal 2023 should be in for challenging comparisons. We expect NFEPS to fall below the prior-year levels in each of the remaining two quarters. Still, full-year earnings should manage to eke out an improvement of about 8% to reach \$2.70, driven by strong customer growth trends and a diversified operating segmentation strategy that differentiates NJR from other highly-regulated pure-play utilities. In turn, we have left our fiscal 2024 earnings call unchanged at \$2.80.</p> <p>Long-term earnings growth potential is a bit uncertain at this juncture. We expect the growth of the Clean Energy Ventures (CEV) segment to be a harbinger of the company's future earnings potential. New Jersey Resources has the opportunity through exclusive rights agreements to triple its clean energy portfolio. However, this notion is being challenged in Washington where debt-limit negotiations put at risk the clean energy incentives introduced in the Inflation Reduction Act.</p> <p>To wit, long-term total capital appreciation potential appears limited, regardless of CEV's political risk.</p> <p>Earl B. Humes May 26, 2023</p>												(A) Fiscal year ends Sept. 30th.				(B) Diluted earnings. Qly. revenues and egs. may not sum to total due to rounding and change in shares outstanding. Next earnings report due early August.												(C) Dividends historically paid in early Jan., April, July, and October. ■ Dividend reinvestment plan available.				(D) Includes regulatory assets in 2022: \$500 million, \$.52/share.												(E) In millions, adjusted for splits.				Company's Financial Strength A+																Stock's Price Stability 85																Price Growth Persistence 55																Earnings Predictability 60												© 2023 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.				To subscribe call 1-800-VALUELINE											
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36.31	45.37	31.17	32.05	36.30	27.08	38.38	44.40	32.09	21.90	26.28	33.24	29.01	20.39	22.71	30.38	26.80	29.10	THIS STOCK 23.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1.22	1.81	1.58	1.63	1.70	1.86	1.93	2.73	2.52	2.46	2.68	3.72	2.99	3.30	3.36	3.86	4.20	4.35	VL ARITH. INDEX 0.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.78	1.35	1.20	1.23	1.29	1.36	1.37	2.08	1.78	1.61	1.73	2.72	1.96	2.07	2.16	2.50	2.70	2.80	1 yr. 70.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.51	.56	.62	.68	.72	.77	.81	.86	.93	.98	1.04	1.11	1.19	1.27	1.36	1.45	1.56	1.68	3 yr. 65.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
.73	.86	.90	1.05	1.13	1.26	1.33	1.52	3.76	4.15	3.80	4.39	5.83	4.65	5.42	6.50	6.20	6.65	5 yr. 47.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
7.75	8.64	8.29	8.81	9.36	9.80	10.65	11.48	12.99	13.58	14.33	16.18	17.37	19.26	17.18	19.00	22.15	24.70																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
83.22	84.12	83.17	82.35	82.89	83.05	83.32	84.20	85.19	85.88	86.32	87.69	89.34	95.80	94.95	95.64	97.00	98.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
21.6	12.3	14.9	15.0	16.8	16.8	16.0	11.7	16.6	21.3	22.4	15.6	24.3	17.7	17.5	17.0	17.0	17.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
1.15	.74	.99	.95	1.05	1.07	.90	.62	.84	1.12	1.13	.84	1.29	.91	.94	.98	1.00	1.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Equity</td> <td>11.5%</td> </tr> <tr> <td>12.8%</td> <td>18.3%</td> <td>13.9%</td> <td>11.8%</td> <td>12.1%</td> <td>16.9%</td> <td>11.3%</td> <td>10.6%</td> <td>12.7%</td> <td>13.2%</td> <td>12.0%</td> <td>11.5%</td> <td>Return on Com Equity</td> <td>11.5%</td> </tr> <tr> <td>5.2%</td> <td>11.0%</td> <td>7.0%</td> <td>4.8%</td> <td>5.0%</td> <td>10.2%</td> <td>4.6%</td> <td>4.3%</td> <td>5.6%</td> <td>6.2%</td> <td>5.0%</td> <td>4.5%</td> <td>Retained to Com Eq</td> <td>4.5%</td> </tr> <tr> <td>59%</td> <td>40%</td> <td>50%</td> <td>60%</td> <td>59%</td> <td>40%</td> <td>59%</td> <td>60%</td> <td>56%</td> <td>53%</td> <td>58%</td> <td>60%</td> <td>All Div'ds to Net Prof</td> <td>60%</td> </tr> </tbody> </table>												2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Revenues per sh	3198.1	3738.1	2734.0	1880.9	2268.6	2915.1	2592.0	1953.7	2156.6	2906.0	2600	2850	Revenues (\$mill) A	3250	113.7	176.9	153.7	138.1	149.4	240.5	175.0	196.2	240.3	260	275	Net Profit (\$mill)	325	25.4%	30.2%	26.3%	15.5%	17.2%	--	--	NMF	10.3%	21.4%	22.0%	22.0%	Income Tax Rate	22.0%	3.6%	4.7%	5.6%	7.3%	6.6%	8.2%	6.7%	10.0%	9.6%	8.3%	10.0%	9.6%	Net Profit Margin	10.0%	36.6%	38.2%	43.2%	47.7%	44.6%	45.4%	49.8%	55.1%	57.0%	57.0%	57.0%	56.0%	Long-Term Debt Ratio	55.0%	63.4%	61.8%	56.8%	52.3%	55.4%	54.6%	50.2%	44.9%	43.0%	42.2%	43.0%	44.0%	Common Equity Ratio	45.0%	1400.3	1564.4	1950.6	2230.1	2233.7	2599.6	3088.9	4104.2	3793.0	4302.6	5000	5500	Total Capital (\$mill)	6200	1643.1	1884.1	2128.3	2407.7	2609.7	2651.0	3041.2	3983.0	4213.5	4649.9	5000	5200	Net Plant (\$mill)	5500	9.0%	12.1%	8.6%	6.9%	7.7%	10.1%	6.4%	3.6%	6.5%	5.6%	5.0%	5.0%	Return on Total Cap'l	5.0%	12.8%	18.3%	13.9%	11.8%	12.1%	16.9%	11.3%	10.6%	12.7%	13.2%	12.0%	11.5%	Return on Shr. 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BUSINESS: New Jersey Resources Corp. is a holding company providing retail/wholesale energy svcs. to customers in NJ, and in states from the Gulf Coast to New England, and Canada. New Jersey Natural Gas had 569,300 cust. at 9/30/22. Fiscal 2022 volume: 144 bill. cu. ft. (23% interruptible, 47% residential, commercial & firm transportation, 30% other). N.J. Natural Energy subsidiary provides unregulated retail/wholesale natural gas and related energy svcs. 2021 dep. rate: 2.7%. Has 1,288 empl. Off./dir. own less than 1% of common; BlackRock, 14.0%; Vanguard, 11.0% (12/22 Proxy). CEO, President & Director: Steven D. Westhoven. Incorporated: New Jersey. Address: 1415 Wyckoff Road, Wall, NJ 07719. Telephone: 732-938-1480. Web: www.njresources.com.				<p>New Jersey Resources reported slight weakness in its fiscal second quarter. Historically warm weather conditions in the company's operating region during the March period, along with a significant reduction in the price of natural gas, resulted in a sharp decline in revenues. Despite the top line falling 40% below our estimate for the quarter, the company's net financial earnings per share (NFEPS) held its ground reasonably well. The quarter's profits per share of \$1.16 ended just four cents lower than our estimate, signaling a strong showing in terms of margin resiliency, thanks in large part to the cost pass-through mechanism of the regulated utilities business. However, March-period earnings have declined for the second consecutive year running. In the quarter, each operating segment declined from the year-ago period, but on a fiscal year-to-date basis, the comparable profit figure is much more positive, showing double-digit growth, owing to a strong December period result.</p> <p>We look for the company's earnings growth to slow in the years ahead. After a very strong first quarter, the rest of fiscal 2023 should be in for challenging comparisons. We expect NFEPS to fall below the prior-year levels in each of the remaining two quarters. Still, full-year earnings should manage to eke out an improvement of about 8% to reach \$2.70, driven by strong customer growth trends and a diversified operating segmentation strategy that differentiates NJR from other highly-regulated pure-play utilities. In turn, we have left our fiscal 2024 earnings call unchanged at \$2.80.</p> <p>Long-term earnings growth potential is a bit uncertain at this juncture. We expect the growth of the Clean Energy Ventures (CEV) segment to be a harbinger of the company's future earnings potential. New Jersey Resources has the opportunity through exclusive rights agreements to triple its clean energy portfolio. However, this notion is being challenged in Washington where debt-limit negotiations put at risk the clean energy incentives introduced in the Inflation Reduction Act.</p> <p>To wit, long-term total capital appreciation potential appears limited, regardless of CEV's political risk.</p> <p>Earl B. Humes May 26, 2023</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	© VALUE LINE PUB. LLC	26-28
28.96	32.36	24.02	22.99	21.33	16.31	18.04	20.47	14.58	13.90	14.46	13.74	13.63	11.95	12.09	14.23	14.00	14.10	Revenues per sh	15.75
3.20	3.32	2.96	3.19	2.98	3.13	3.41	3.60	2.27	2.71	2.07	2.86	3.17	3.15	3.26	3.47	3.55	3.80	"Cash Flow" per sh	4.15
1.14	1.34	.84	1.06	1.05	1.37	1.57	1.67	.63	1.00	.39	1.30	1.31	1.32	1.37	1.47	1.55	1.70	Earnings per sh ^A	2.00
.92	.92	.92	.92	.92	.94	.98	1.02	.83	.64	.70	.78	.80	.84	.88	.94	1.00	1.04	Div'ds Decl'd per sh ^B	1.12
2.88	3.54	2.81	2.88	3.99	4.83	5.99	6.42	4.26	4.57	5.03	4.88	4.72	4.49	4.53	6.32	8.20	6.45	Cap'l Spending per sh	6.75
18.52	17.24	17.54	17.63	17.71	17.90	18.77	19.54	12.04	12.60	12.82	13.08	13.36	12.44	13.33	13.14	14.10	17.00	Book Value per sh ^C	18.00
274.18	274.26	276.79	279.30	282.18	310.28	313.68	316.04	319.11	323.16	337.02	372.36	382.14	391.76	404.30	411.10	420.00	425.00	Common Shs Outst'g ^D	445.00
18.8	12.1	14.3	15.3	19.4	17.9	18.9	22.7	37.3	23.2	64.4	19.3	21.3	18.7	18.0	19.6	19.0	19.0	Avg Ann'l P/E Ratio	19.0
1.00	.73	.95	.97	1.22	1.14	1.06	1.19	1.88	1.22	3.24	1.04	1.13	.96	.99	11.8	11.8	11.8	Relative P/E Ratio	1.05
4.3%	5.7%	7.6%	5.7%	4.5%	3.8%	3.3%	2.7%	3.5%	2.8%	2.8%	3.1%	2.9%	3.4%	3.6%	3.3%	3.3%	3.3%	Avg Ann'l Div'd Yield	2.5%
CAPITAL STRUCTURE as of 3/31/23																			
Total Debt \$11576.6 mill. Due in 5 Yrs \$2355 mill.																			
LT Debt \$10264.7 mill. LT Interest \$368 mill.																			
(Interest cov. earned: 5.8x) (57% of Cap'l)																			
Leases, Uncapitalized Annual rentals \$8.0 mill.																			
Pension Assets-12/22 \$1.4 bill. Oblig. \$1.4 bill.																			
Pfd Stock \$1547 mill. Pfd Div'd \$55.1 mill.																			
Common Stock 413,063,219 shs. as of 4/25/23																			
MARKET CAP: \$11.6 billion (Large Cap)																			
CURRENT POSITION 2021 2022 3/31/23 (\$MILL.)																			
Cash Assets 85.2 40.8 106.4																			
Other 1835.6 2543.5 2230.1																			
Current Assets 1920.8 2584.3 2336.5																			
Accts Payable 697.8 899.5 642.2																			
Debt Due 618.1 1791.9 1311.9																			
Other 1430.3 1969.1 1952.8																			
Current Liab. 2746.2 4660.5 3906.9																			
Fix. Chg. Cov. 250% 255% 260%																			
ANNUAL RATES Past 10 Yrs. Past 5 Yrs. Est'd '19-'21 of change (per sh) to '26-'28																			
Revenues -5.0% -3.5% 5.5%																			
"Cash Flow" 0.5% 6.5% 5.5%																			
Earnings 1.5% 15.0% 9.5%																			
Dividends -0.5% 3.5% 4.5%																			
Book Value -3.0% 0.5% 5.0%																			
BUSINESS: NiSource Inc. is a holding company for Northern Indiana Public Service Company (NIPSCO), which supplies electricity and gas to the northern third of Indiana. Customers: 479,185 electric in Indiana, 3,200,000 gas in Indiana, Ohio, Pennsylvania, Kentucky, Virginia, Maryland, through its Columbia subsidiaries. Revenue breakdown, 2022: electrical, 31%; gas, 69%; other, less than 1%. Generating sources, coal, 69.4%; purchased & other, 30.6%. 2022 reported depreciation rates: 3.1% electric, 2.3% gas. Has 7,304 employees. Chairman: Richard L. Thompson. President & Chief Executive Officer: Lloyd Yates. Incorporated: Indiana. Address: 801 East 86th Avenue, Merrillville, Indiana 46410. Telephone: 877-647-5990. Internet: www.nisource.com.																			
NiSource stock gained in the three months since our February review. The shares are up a modest 3.3%, compared to a slight decline in the S&P 500 Utility Sector index. In that time, the company reported its financial results for both 2022 full year and fourth quarter, and it's 2023 first quarter. In the fourth quarter revenues exceeded our forecast by a significant margin, and the full-year top-line result landed \$951 million above the year prior. Earnings per share, however, stayed on target, and in strong form advanced just over 7% in 2022. In the first quarter, our top-line target was reached, while earnings per share of \$0.77 fell a bit below our expectation, but still increased 2.7% from the year prior. Our full-year 2023 and 2024 outlook provides for decent earnings growth. We look for an 8% - 10% rate base average annual growth rate over the next five years to drive performance on the bottom line. Earnings growth should be at a slightly lower level at about 5.5% in 2023, following the earnings miss in the first quarter and a likely economic slowdown ahead due to broad inflation and increased																			
interest rates. Following that, 2024 earnings will likely return to a high growth rate of nearly 10% on anticipated rate-base increases. Over the three- to five-year horizon, returns on planned clean energy projects and investments in sustainable infrastructure, along with continued regulatory support, should allow for expected annual earnings growth of around 8.5% thereafter. The equity's upside is not without risk. Chief among them, climate change has the potential to cause significant disruption to the company's operations. While there is a potential advantage in volatile temperatures leading to increased energy demand, the risk to established equipment and plant assets is also heightened here. Intensified flooding, windstorms and heatwaves all pose threats to NiSource's infrastructure investments. These shares do not stand out to us at this juncture. Taking into account the equity's risk premium, with the context of heightened yields on bonds, conservative accounts can likely find a better long-term investment opportunity elsewhere. <i>Earl B. Humes</i> <i>May 26, 2023</i>																			
Quarterly Revenues (\$ mill.)																			
Cal-endar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year														
2020	1605.5	962.7	902.5	1211.0	4681.7														
2021	1545.6	986.0	959.4	1408.6	4899.6														
2022	1873.3	1183.2	1089.5	1704.6	5850.6														
2023	1966.0	1170	1120	1619	5875														
2024	2100	1200	1150	1550	6000														
Earnings per Share ^A																			
Cal-endar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year														
2020	.76	.13	.09	.34	1.32														
2021	.77	.13	.11	.39	1.37														
2022	.75	.12	.10	.50	1.47														
2023	.77	.15	.12	.51	1.55														
2024	.82	.18	.15	.55	1.70														
Quarterly Dividends Paid ^B																			
Cal-endar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year														
2019	.200	.200	.200	.200	.80														
2020	.21	.21	.21	.21	.84														
2021	.22	.22	.22	.22	.88														
2022	.235	.235	.235	.235	.94														
2023	.25	.25																	

(A) Dil. EPS. Excl. gains (losses) on disc. ops.: '07, 3c; '08, (\$1.14); '15, (30c); '18, (\$1.48). Next egs. report due early August. Qtr'y egs. may not sum to total due to rounding.

(B) Div'ds historically paid in mid-Feb., May, Aug., Nov. ■ Div'd reinv. avail.

(C) Incl. intang in '22: \$1485.9 million, \$3.61/sh.

(D) In mill.

(E) Spun off Columbia Pipeline Group (7/15)

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2021	2022	2023	2024	2025	2026	2027	2028
5657.3	6470.6	4651.8	4492.5	4874.6	5114.5	5208.9	4681.7
490.9	530.7	198.6	328.1	128.6	478.3	549.8	562.6
34.8%	36.9%	41.6%	35.7%	71.0%	19.7%	17.0%	18.3%
--	--	--	--	--	--	--	--
56.3%	56.9%	60.7%	59.8%	63.5%	55.3%	56.8%	61.6%
43.7%	43.1%	39.3%	40.2%	36.5%	37.9%	36.9%	32.5%
13480	14331	9792.0	10129	11832	12856	13843	14972
14365	16017	12112	13068	14360	15543	16912	16620
5.2%	5.3%	4.0%	5.0%	2.6%	5.1%	5.3%	5.0%
8.3%	8.6%	5.2%	8.1%	3.0%	8.3%	9.2%	9.8%
8.3%	8.6%	5.2%	8.1%	3.0%	9.6%	9.7%	10.4%
3.1%	3.4%	NMF	3.0%	NMF	4.0%	3.8%	3.8%
62%	61%	NMF	63%	NMF	60%	64%	67%

2021	2022	2023	2024	2025	2026	2027	2028
4899.6	5850.6	5875	6000	4899.6	5850.6	5875	6000
626.3	648.2	650	725	626.3	648.2	650	725
19.0%	19.0%	19.0%	19.0%	17.2%	19.0%	19.0%	19.0%
2.0%	2.3%	2.5%	2.5%	2.0%	2.3%	2.5%	2.5%
56.9%	55.7%	55.0%	55.0%	56.9%	55.7%	55.0%	55.0%
33.5%	31.6%	32.5%	37.5%	33.5%	31.6%	32.5%	37.5%
16131	17099	18250	19000	16131	17099	18250	19000
17882	19843	22500	25000	17882	19843	22500	25000
4.9%	3.8%	3.5%	4.0%	4.9%	3.8%	3.5%	4.0%
9.0%	9.3%	8.5%	8.5%	9.0%	9.3%	8.5%	8.5%
10.6%	12.0%	11.0%	10.0%	10.6%	12.0%	11.0%	10.0%
4.2%	4.0%	4.0%	4.0%	4.2%	4.0%	4.0%	4.0%
64%	64%	65%	61%	64%	64%	65%	61%

Company's Financial Strength B+
Stock's Price Stability 95
Price Growth Persistence 25
Earnings Predictability 55

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N.W. NATURAL NYSE-NWN				RECENT PRICE	P/E RATIO							RELATIVE P/E RATIO	DIV'D YLD	VALUE LINE			
				45.00	16.7 (Trailing: 15.7 Median: 24.0)							1.01	4.3%				
TIMELINESS 3 Lowered 1/13/23	High: 50.8	46.6	52.6	52.3	66.2	69.5	71.8	74.1	77.3	56.8	57.6	52.4	Target Price Range 2026 2027 2028				
SAFETY 3 Lowered 3/19/21	Low: 41.0	40.0	40.1	42.0	48.9	56.5	51.5	57.2	42.3	41.7	42.4	44.7				128	
TECHNICAL 2 Raised 5/26/23													96				
BETA .80 (1.00 = Market)													80				
18-Month Target Price Range													64				
Low-High Midpoint (% to Mid)													48				
\$39-\$65 \$52 (15%)													40				
2026-28 PROJECTIONS													32				
High Price Gain Ann'l Total													24				
Low 75 50 (+65%) 17%													16				
50 (+10%) 7%													12				
Institutional Decisions													% TOT. RETURN 4/23 THIS STOCK VL ARITH. INDEX 1 yr. -18.8 65.7 3 yr. -9.4 47.7 5 yr.				
202022 3Q2022 4Q2022																	
to Buy 139 115 124																	
to Sell 107 99 90																	
Hlr's(000) 26050 26471 27135																	
Percent shares traded																	
2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024													© VALUE LINE PUB. LLC 26-28				
39.13 39.16 38.17 30.56 31.72 27.14 28.02 27.64 26.39 23.61 26.52 24.45 24.49 25.29 27.64 29.20 28.90 29.35													Revenues per sh	31.25			
5.41 5.31 5.20 5.18 5.00 4.94 5.04 5.05 4.91 4.93 1.04 5.28 5.15 5.69 6.17 5.71 6.15 6.40													"Cash Flow" per sh	6.25			
2.76 2.57 2.83 2.73 2.39 2.22 2.24 2.16 1.96 2.12 d1.94 2.33 2.19 2.30 2.56 2.54 2.70 2.80													Earnings per sh ^A	3.15			
1.44 1.52 1.60 1.68 1.75 1.79 1.83 1.85 1.86 1.87 1.88 1.89 1.90 1.91 1.92 1.93 1.95 1.97													Div'ds Decl'd per sh ^B	2.00			
4.48 3.92 5.09 9.35 3.76 4.91 5.13 4.40 4.37 4.87 7.43 7.43 7.95 9.18 9.49 9.53 9.05 7.75													Cap'l Spending per sh	7.50			
22.52 23.71 24.88 26.08 26.70 27.23 27.77 28.12 28.47 29.71 25.85 26.41 28.42 29.05 30.04 33.08 34.95 34.65													Book Value per sh ^D	34.40			
26.41 26.50 26.53 26.58 26.76 26.92 27.08 27.28 27.43 28.63 28.74 28.88 30.47 30.59 31.13 35.53 36.50 37.50													Common Shs Outst'g ^C	40.00			
16.7 18.1 15.2 17.0 19.0 21.1 19.4 20.7 23.7 26.9 -- 26.6 30.9 25.0 19.5 19.6													Avg Ann'l P/E Ratio	20.0			
.89 1.09 1.01 1.08 1.19 1.34 1.09 1.09 1.19 1.41 -- 1.44 1.65 1.28 1.06 1.13													Relative P/E Ratio	1.10			
3.1% 3.3% 3.7% 3.6% 3.9% 3.8% 4.2% 4.1% 4.0% 3.3% 3.0% 3.0% 2.8% 3.3% 3.8% 3.9%													Avg Ann'l Div'd Yield	2.6%			
CAPITAL STRUCTURE as of 3/31/23													Revenues (\$mill) 1250 Net Profit (\$mill) 125				
Total Debt \$1608 mill. Due in 5 Yrs \$713 mill.													Revenues (\$mill) 1055 Net Profit (\$mill) 105				
LT Debt \$1294.6 mill. LT Interest \$50 mill.													Revenues (\$mill) 1100 Net Profit (\$mill) 105				
(Total interest coverage: 3.4x)													Income Tax Rate 25.0% Net Profit Margin 10.0%				
Pension Assets-12/22 \$300.0 mill.													Long-Term Debt Ratio 50.0% Common Equity Ratio 50.0%				
Oblig. \$413.4 mill.													Total Capital (\$mill) 2750 Net Plant (\$mill) 3750				
Pfd Stock None													Return on Total Cap'l 4.5% Return on Shr. Equity 9.0%				
Common Stock 35,965,613 shares as of 4/27/23													Return on Com Equity 9.0% Retained to Com Eq 3.5%				
MARKET CAP \$1.6 billion (Small Cap)													All Div'ds to Net Prof 64%				
CURRENT POSITION 2021 2022 3/31/23 (\$MILL.)													BUSINESS: Northwest Natural Holding Co. distributes natural gas to 1,000 communities, 795,000 customers, in Oregon (88% of customers) and in southwest Washington state. Principal cities served: Portland and Eugene, OR; Vancouver, WA. Service area population: 3.7 mill. (77% in OR). Company buys gas supply from Canadian and U.S. producers; has transportation rights on Northwest Pipeline system. Owns local underground storage. Rev. breakdown: residential, 37%; commercial, 22%; industrial, gas transportation, 41%. Employs 1,258. BlackRock Inc. owns 17.3% of shares; Vanguard, 12.2%; Off./Dir., .95% (4/23 proxy). CEO: David H. Anderson. Inc.: Oregon. Address: 220 NW 2nd Ave., Portland, OR 97209. Tel.: 503-226-4211. Internet: www.nwnatural.com				
Cash Assets 18.6 29.3 140.8													prior (8% warmer).				
Other 418.7 714.9 435.4													The natural gas utility's earnings growth should be steady. Main drivers here include population growth, consolidation through acquisition, and investments in sustainability, all three of which have been very active at Northwest this year. We look for earnings per share to increase by 6% and 4% in each of the next two years, respectively, and by 5.5% on average over the next three to five years.				
Current Assets 437.3 744.2 576.2													The extra cash will help diversification efforts for sustainable growth. Northwest aims to expand in its renewables & maintenance businesses. These ventures could help to smooth out the earnings cycle, specifically with September period losses, while expanding the scope of its primary gas utility. A recent string of acquisitions has bolstered growth in the water management business, a segment that interests us for its long-term strategic value potential.				
Accts Payable 133.5 180.7 111.2													The shares are starting to look attractive as an income generating holding, at the recent quotation.				
Debt Due 389.8 348.9 313.2													Earl B. Humes May 26, 2023				
Other 201.5 369.1 219.7																	
Current Liab. 724.8 898.7 644.1																	
Fix. Chg. Cov. 335% 320% 325%																	
ANNUAL RATES Past Past Est'd '20-'22 of change (per sh) 10 Yrs. 5 Yrs. to '26-'22													Northwest Natural's stock price dropped 8% since our February review, despite strong recent operating performance. The company beat our expectations in both quarters that were reported on in the three months since our last review. Northwest posted fourth-quarter revenues 26% above our estimate and roughly 28% above the year prior period, while share-earnings of \$1.36 were 4% above both our target and the year prior. This capped off a year that saw solid top-line growth but tighter profit margins, thanks to the heightened price of natural gas. While net profit grew nearly 10%, share-earnings declined due to dilution.				
Revenues -2.5% -- 4.5%													The utility started 2023 in great form. The top line once again beat our expectation, advancing more than 32% year-over-year, which translated to a 28% increase in net income. At \$71.7 million, Northwest generated more profit in one quarter than it had in most full years prior to 2020. Recent regulatory approval of higher base-rates in Oregon and Washington are largely responsible, although weather in the March period (5% colder than average) certainly helped comparisons to the year				
"Cash Flow" 1.0% 2.5% 5.0%																	
Earnings -1.0% 2.5% 6.5%																	
Dividends 1.5% 0.5% .5%																	
Book Value 1.0% 0.5% 4.0%																	
Cal-endar	QUARTERLY REVENUES (\$ mill.)				Full Year												
	Mar.31	Jun.30	Sep.30	Dec.31													
2020	285.2	135.0	93.3	260.2	773.7												
2021	315.9	148.9	101.5	294.1	860.4												
2022	350.3	195.0	116.8	375.3	1037.4												
2023	462.4	222.6	125	245	1055												
2024	445	225	130	300	1100												
Cal-endar	EARNINGS PER SHARE ^A				Full Year												
	Mar.31	Jun.30	Sep.30	Dec.31													
2020	1.58	d.17	d.61	1.50	2.30												
2021	1.94	d.02	d.67	1.31	2.56												
2022	1.80	.05	d.56	1.36	2.54												
2023	2.01	.09	d.65	1.25	2.70												
2024	2.10	.15	d.70	1.25	2.80												
Cal-endar	QUARTERLY DIVIDENDS PAID ^B				Full Year												
	Mar.31	Jun.30	Sep.30	Dec.31													
2019	.475	.475	.475	.475	1.90												
2020	.4775	.4775	.4775	.48	1.91												
2021	.48	.48	.48	.483	1.92												
2022	.483	.483	.483	.485	1.93												
2023	.485	.485															

(A) Diluted earnings per share. Excludes non-recurring items: '06, (\$0.06); '08, (\$0.03); '09, \$0.06; May not sum due to rounding. Next earnings report due in early August.

(B) Dividends historically paid in mid-February, May, August, and November.

(C) In millions.

(D) Includes intangibles. In 2021: \$149 million, \$4.20/share.

Company's Financial Strength	A
Stock's Price Stability	85
Price Growth Persistence	35
Earnings Predictability	10

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ONE GAS, INC. NYSE-OGS		RECENT PRICE 80.57	P/E RATIO 19.2 (Trailing: 19.7; Median: NMF)	RELATIVE P/E RATIO 1.16	DIV'D YLD 3.3%	VALUE LINE							
TIMELINESS 3 Raised 5/13/22	High: 44.3	51.8	67.4	79.5	87.8	96.7	97.0	81.9	92.3	84.3	Target Price 2026	Range 2027	2028
SAFETY 2 New 6/2/17	Low: 31.9	38.9	48.0	61.4	62.2	75.8	63.7	62.5	68.9	73.5			
TECHNICAL 2 Raised 5/26/23	LEGENDS --- 39.00 x Dividends p sh ... Relative Price Strength Options: Yes Shaded area indicates recession												
BETA .80 (1.00 = Market)	18-Month Target Price Range Low-High Midpoint (% to Mid) \$61-\$110 \$86 (5%)												
2026-28 PROJECTIONS Ann'l Total Price Gain Return High 145 (+80%) 18% Low 105 (+30%) 10%													
Institutional Decisions 202022 202022 402022 to Buy 171 136 176 to Sell 112 143 132 Hlds(\$000) 45263 45390 48298 Percent shares traded 21 14 7													

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	© VALUE LINE PUB. LLC	26-28
Revenues per sh	--	34.92	29.62	27.30	29.43	31.08	31.32	28.78	33.72	46.58	48.45	51.35		70.15
"Cash Flow" per sh	--	4.52	4.82	5.43	5.96	6.32	6.96	7.36	7.71	8.13	9.35	9.95		12.20
Earnings per sh ^A	--	2.07	2.24	2.65	3.02	3.25	3.51	3.68	3.85	4.08	4.20	4.40		5.60
Div'ds Decl'd per sh ^B	--	.84	1.20	1.40	1.68	1.84	2.00	2.16	2.32	2.48	2.72	2.80		3.15
Cap'l Spending per sh	--	5.70	5.63	5.91	6.81	7.50	7.91	8.87	9.23	11.01	11.25	11.55		12.30
Book Value per sh	--	34.45	35.24	36.12	37.47	38.86	40.35	42.01	43.81	46.69	52.70	50.90		64.45
Common Shs Outst'g ^C	--	52.08	52.26	52.28	52.31	52.57	52.77	53.17	53.63	55.35	55.50	55.50		57.00
Avg Ann'l P/E Ratio	--	17.8	19.8	22.7	23.5	23.1	25.3	21.7	18.9	19.9	Bold figures are Value Line estimates			22.5
Relative P/E Ratio	--	.94	1.00	1.19	1.18	1.25	1.35	1.11	1.03	1.16				1.25
Avg Ann'l Div'd Yield	--	2.3%	2.7%	2.3%	2.4%	2.5%	2.3%	2.7%	3.2%	3.1%				2.5%
Revenues (\$mill)	--	1818.9	1547.7	1427.2	1539.6	1633.7	1652.7	1530.3	1808.6	2578.0	2690	2850		4000
Net Profit (\$mill)	--	109.8	119.0	140.1	159.9	172.2	186.7	196.4	206.4	221.7	235	245		320
Income Tax Rate	--	38.4%	38.0%	37.8%	36.4%	23.7%	18.7%	17.5%	16.3%	17.3%	16.5%	17.0%		22.0%
Net Profit Margin	--	6.0%	7.7%	9.8%	10.4%	10.5%	11.3%	12.8%	11.4%	8.6%	8.7%	8.6%		8.0%
Long-Term Debt Ratio	--	40.1%	39.5%	38.7%	37.8%	38.6%	37.7%	41.5%	61.1%	50.7%	45.0%	49.0%		51.0%
Common Equity Ratio	--	59.9%	60.5%	61.3%	62.2%	61.4%	62.3%	58.5%	39.0%	49.3%	55.0%	51.0%		49.0%
Total Capital (\$mill)	--	2995.3	3042.9	3080.7	3153.5	3328.1	3415.5	3815.7	6032.9	5246.2	5320	5540		7500
Net Plant (\$mill)	--	3293.7	3511.9	3731.6	4007.6	4283.7	4565.2	4867.1	5190.8	5628.8	6000	6375		7400
Return on Total Cap'l	--	4.4%	4.7%	5.2%	5.8%	5.9%	6.4%	6.0%	3.9%	5.0%	5.5%	6.0%		6.0%
Return on Shr. Equity	--	6.1%	6.5%	7.4%	8.2%	8.4%	8.8%	8.8%	8.8%	8.6%	8.0%	8.5%		8.5%
Return on Com Equity	--	6.1%	6.5%	7.4%	8.2%	8.4%	8.8%	8.8%	8.8%	8.6%	8.0%	8.5%		8.5%
Retained to Com Eq	--	3.7%	3.1%	3.5%	3.7%	3.7%	3.8%	3.7%	3.5%	3.4%	3.0%	3.5%		4.0%
All Div'ds to Net Prof	--	40%	53%	52%	55%	56%	56%	58%	60%	60%	61%	62%		56%

The shares of ONE Gas, Inc. began trading "regular-way" on the New York Stock Exchange on February 3, 2014. That happened as a result of the separation of ONEOK's natural gas distribution operation. Regarding the details of the spinoff, on January 31, 2014, ONEOK distributed one share of OGS common stock for every four shares of ONEOK common stock held by ONEOK shareholders of record as of the close of business on January 21. It should be mentioned that ONEOK did not retain any ownership interest in the new company.

CAPITAL STRUCTURE as of 3/31/23
 Total Debt \$2962.8 mill. Due in 5 Yrs \$1250.0 mill.
 LT Debt \$1875.6 mill. LT Interest \$115.0 mill.
 (LT interest earned: 4.5%; total interest coverage: 4.5x)
 Leases, Uncapitalized Annual rentals \$6.5 mill.
 Pfd Stock None
 Pension Assets-12/22 \$950.8 mill.
 Oblig. \$953.0 mill.
 Common Stock 55,389,050 shs.

MARKET CAP: \$4.5 billion (Mid Cap)

CURRENT POSITION 2021 2022 3/31/23 (\$MILL.)

Cash Assets	8.9	9.7	7.8
Other	2215.7	1207.9	780.7
Current Assets	2224.6	1217.6	788.5
Accts Payable	258.6	360.5	197.6
Debt Due	494.0	572.7	1087.2
Other	227.9	256.2	257.5
Current Liab.	980.5	1189.4	1542.3
Fix. Chg. Cov.	625%	540%	550%

BUSINESS: ONE Gas, Inc. provides natural gas distribution services to more than two million customers. There are three divisions: Oklahoma Natural Gas, Kansas Gas Service, and Texas Gas Service. The company purchased 165 Bcf of natural gas supply in 2022, compared to 164 Bcf in 2021. Total volumes delivered by customer (fiscal 2022): transportation, 57.3%; residential, 31.2%; commercial

& industrial, 10.8%; other, .7%. ONE Gas has around 3,600 employees. BlackRock owns 12.6% of common stock; The Vanguard Group, 11.5%; State Street Corporation, 11.5%; officers and directors, 1.5% (4/23 Proxy). CEO: Robert S. McAnnally. Incorporated: Oklahoma. Address: 15 East Fifth Street, Tulsa, Oklahoma 74103. Telephone: 918-947-7000. Internet: www.onegas.com.

ANNUAL RATES Past 10 Yrs. Past 5 Yrs. Est'd '20-'22 of change (per sh)

Revenues	--	5.0%	11.5%
"Cash Flow"	--	7.5%	8.0%
Earnings	--	8.0%	6.5%
Dividends	--	10.0%	5.5%
Book Value	--	4.0%	6.5%

ONE Gas, Inc. got off to an un-spectacular start in 2023. First-quarter earnings per share of \$1.84 were just a penny above last year's \$1.83 figure. That's attributable partly to higher depreciation expense, reflecting additional assets being placed into service. Employee-related costs and bad debt expense rose, as well. But the company was aided, to some degree, by benefits from new rates. A lower effective income tax rate plus a decrease in COVID-19-related costs also helped. So, at this juncture, it appears that full-year profits will grow at a 3% rate, to \$4.20 a share, relative to 2022's \$4.08 tally. Regarding 2024, we expect share net to advance at a somewhat stronger 5% rate, to \$4.40, assuming further widening of operating margins.

The Financial Strength rating is solid, at B++. When the March period concluded, cash and equivalents were \$7.8 million and cash flows were decent. Moreover, ONE Gas had \$720 million available (out of \$1 billion) under a commercial paper program. The company also possesses a \$1 billion revolving credit facility maturing in March, 2028. Lastly, at the end of the first

quarter, long-term debt was a manageable 41% of total capital. All told, the energy firm should continue to be able to meet its working capital requirements, capital expenditures, and other commitments with little trouble.

It's important to mention that operations are concentrated in only three states. Moreover, it seems that leadership is content with maintaining the status quo, given that some businesses are in metropolitan areas, such as Austin, Texas; Wichita, Kansas; and Tulsa, Oklahoma. Nonetheless, this lack of geographic diversification leaves the company somewhat more vulnerable to regional economic downturns and regulations.

What about the stock? It offers worthwhile capital appreciation potential over the 2026-2028 horizon. Consider, too, the 2 (Above Average) Safety rank and high Price Stability score of 90 out of 100. But the dividend yield does not stand out from the average yield in our Natural Gas Utility group. Meanwhile, OGS shares are pegged to just approximate the year-ahead market (Timeliness rank 3: Average).

Frederick L. Harris, III May 26, 2023

QUARTERLY REVENUES (\$ mill.)

Cal-endar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2020	528.2	273.3	244.6	484.2	1530.3
2021	625.3	315.6	273.9	593.8	1808.6
2022	971.5	428.9	359.4	818.2	2578.0
2023	1032.1	470	376	811.9	2690
2024	1075	515	420	840	2850

EARNINGS PER SHARE ^A

Cal-endar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2020	1.72	.48	.39	1.09	3.68
2021	1.79	.56	.38	1.12	3.85
2022	1.83	.59	.44	1.23	4.08
2023	1.84	.64	.50	1.22	4.20
2024	1.89	.68	.57	1.26	4.40

QUARTERLY DIVIDENDS PAID ^B

Cal-endar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2019	.50	.50	.50	.50	2.00
2020	.54	.54	.54	.54	2.16
2021	.58	.58	.58	.58	2.32
2022	.62	.62	.62	.62	2.48
2023	.65	.65			

(A) Diluted EPS. Excludes nonrecurring gain: 2017, \$0.06. Next earnings report due early Aug. Quarterly EPS figures for 2022 don't equal total due to rounding.
 (B) Dividends historically paid in early March, June, Sept., and Dec. ■ Dividend reinvestment plan. Direct stock purchase plan.
 (C) In millions.

Company's Financial Strength B++
 Stock's Price Stability 90
 Price Growth Persistence 60
 Earnings Predictability 100

SPIRE INC. NYSE-SR

RECENT PRICE **68.03** P/E RATIO **15.9** (Trailing: 14.5, Median: 19.0) RELATIVE P/E RATIO **0.96** DIV'D YLD **4.3%** VALUE LINE

TIMELINESS **3** Lowered 5/19/23
 SAFETY **2** Raised 6/20/03
 TECHNICAL **2** Raised 5/5/23
 BETA .80 (1.00 = Market)

High: 44.0 48.5 55.2 61.0 71.2 82.9 81.1 88.0 88.0
 Low: 36.5 37.4 44.0 49.1 57.1 62.3 60.1 71.7 50.6

Target Price Range 2026 2027 2028
 160
 120
 100
 80
 60
 50
 40
 30
 20
 15

2026-28 PROJECTIONS
 Price Gain Ann'l Total
 High 130 (+90%) 20%
 Low 95 (+40%) 12%

Institutional Decisions
 202022 3Q2022 4Q2022
 to Buy 145 128 146
 to Sell 121 126 122
 Hld's(000) 44899 45113 45462

Percent shares traded 18 12 6

% TOT. RETURN 4/23
 THIS STOCK VL ARITH. INDEX
 1 yr. -3.1 0.3
 3 yr. 4.5 65.7
 5 yr. 12.3 47.7

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	© VALUE LINE PUB. LLC	26-28
93.40	100.44	85.49	77.83	71.48	49.90	31.10	37.68	45.59	33.68	36.07	38.78	38.30	35.96	43.24	41.88	51.30	47.15	Revenues per sh ^A	63.65
3.87	4.22	4.56	4.11	4.62	4.58	3.12	3.87	6.15	6.16	6.54	7.55	7.12	5.25	9.09	8.44	9.35	9.45	"Cash Flow" per sh	11.10
2.31	2.64	2.92	2.43	2.86	2.79	2.02	2.35	3.16	3.24	3.43	4.33	3.52	1.44	4.96	3.95	4.65	4.40	Earnings per sh ^{A B}	5.50
1.45	1.49	1.53	1.57	1.61	1.66	1.70	1.76	1.84	1.96	2.10	2.25	2.37	2.49	2.60	2.74	2.88	3.00	Div'ds Decl'd per sh ^C	3.45
2.72	2.57	2.36	2.56	3.02	4.83	4.00	3.96	6.68	6.42	9.08	9.86	16.15	12.37	12.09	10.52	13.20	13.60	Cap'l Spending per sh	12.00
19.79	22.12	23.32	24.02	25.56	26.67	32.00	34.93	36.30	38.73	41.26	44.51	45.14	44.19	46.74	49.08	53.40	59.75	Book Value per sh ^D	67.10
21.65	21.99	22.17	22.29	22.43	22.55	32.70	43.18	43.36	45.65	48.26	50.67	50.97	51.60	51.70	52.50	53.00	53.00	Common Shs Outst'g ^E	55.00
14.2	14.3	13.4	13.7	13.0	14.5	21.3	19.8	16.5	19.6	19.8	16.7	22.8	51.1	13.6	17.5	<i>Bold figures are Value Line estimates</i>		Avg Ann'l P/E Ratio	20.5
.75	.86	.89	.87	.82	.92	1.20	1.04	.83	1.03	1.00	.90	1.21	2.62	.73	1.01			Relative P/E Ratio	1.15
4.4%	3.9%	3.9%	4.7%	4.3%	4.1%	4.0%	3.8%	3.5%	3.1%	3.1%	3.1%	3.0%	3.4%	3.8%	4.0%			Avg Ann'l Div'd Yield	3.1%
CAPITAL STRUCTURE as of 3/31/23						1017.0	1627.2	1976.4	1537.3	1740.7	1965.0	1952.4	1855.4	2235.5	2198.5	2720	2500	Revenues (\$mill) ^A	3500
Total Debt \$4520.1 mill. Due in 5 Yrs \$2775.0 mill.						52.8	84.6	136.9	144.2	161.6	214.2	184.6	88.6	271.7	220.8	245	235	Net Profit (\$mill)	300
LT Debt \$3702.5 mill. LT Interest \$200.0 mill.						25.0%	27.6%	31.2%	32.5%	32.4%	NMF	15.7%	12.3%	20.1%	21.1%	20.0%	20.5%	Income Tax Rate	25.0%
(Total interest coverage: 3.3x)						5.2%	5.2%	6.9%	9.4%	9.3%	10.9%	9.5%	4.8%	12.2%	10.0%	9.0%	9.4%	Net Profit Margin	8.6%
Leases, Uncapitalized Annual rentals \$9.0 mill.						46.6%	55.1%	53.0%	50.9%	50.0%	45.7%	45.0%	49.0%	52.5%	51.2%	55.0%	52.0%	Long-Term Debt Ratio	51.0%
Pension Assets-9/22 \$625.9 mill.						53.4%	44.9%	47.0%	49.1%	50.0%	54.3%	49.7%	46.1%	43.2%	44.6%	41.0%	44.0%	Common Equity Ratio	45.0%
Oblig. \$882.8 mill.						1959.0	3359.4	3345.1	3601.9	3986.3	4155.5	4625.6	4946.0	5597.3	5777.0	6900	7200	Total Capital (\$mill)	8200
Pfd Stock \$242.0 mill. Pfd Div'd \$14.8 mill.						1776.6	2759.7	2941.2	3300.9	3665.2	3970.5	4352.0	4680.1	5055.7	5370.4	5700	6000	Net Plant (\$mill)	7100
Common Stock 52,597,027 shs. as of 4/30/23						3.3%	3.1%	5.1%	4.9%	5.0%	6.3%	5.1%	2.9%	5.8%	4.9%	5.0%	5.0%	Return on Total Cap'l	5.0%
MARKET CAP: \$3.6 billion (Mid Cap)						5.0%	5.6%	8.7%	8.2%	8.1%	9.5%	7.3%	3.5%	10.2%	7.8%	8.5%	7.5%	Return on Shr. Equity	8.0%
CURRENT POSITION 2021 2022 3/31/23 (\$MILL.)						5.0%	5.6%	8.7%	8.2%	8.1%	9.5%	7.9%	3.2%	10.6%	8.0%	8.5%	7.5%	Return on Com Equity	8.0%
Cash Assets 4.3 6.5 6.9						1.0%	1.5%	3.7%	3.3%	3.3%	4.7%	2.7%	NMF	5.1%	2.5%	2.5%	2.0%	Retained to Com Eq	2.5%
Other 1312.2 1585.5 1104.7						81%	73%	58%	59%	60%	51%	66%	NMF	54%	71%	68%	74%	All Div'ds to Net Prof	68%
Current Assets 1316.5 1592.0 1111.6						BUSINESS: Spire Inc., formerly known as the Laclede Group, Inc., is a holding company for natural gas utilities, which distributes natural gas across Missouri, including the cities of St. Louis and Kansas City, Alabama, and Mississippi. Has roughly 1.7 million customers. Acquired Missouri Gas 9/13, Alabama Gas Co 9/14. Utility terms sold and transported in fiscal 2022: 3.2 bill. Revenue mix for regulated operations: residential, 73%; commercial and industrial, 17%; transportation, 6%; other, 4%. Officers and directors own 2.9% of common shares; American Century Companies, 14.9% (12/22 proxy). Chairman: Edward Glotzbach; CEO: Suzanne Sitherwood, Inc.: Missouri. Address: 700 Market Street, St. Louis, Missouri 63101. Tel.: 314-342-0500. Internet: www.spireenergy.com.													
Accts Payable 409.9 617.4 232.3						Spire Inc. continues to perform nicely in fiscal 2023 (which concludes on September 30th). Through the first half, profits of \$4.99 per share were 16.6% higher than the previous year's \$4.28 total. This was made possible, in part, by the Gas Marketing division, as very favorable market conditions enabled it to optimize storage and transportation positions. Furthermore, results of the Gas Utility unit benefited from higher gas cost recoveries at the Spire Missouri and Spire Alabama utilities (supported by increased average gas costs being passed through to customers). Spire Missouri also enjoyed the effects of implementing 2022 and 2021 rate orders. Lastly, the Midstream segment was aided, to a big degree, by an improved showing from the Spire Storage business. Right now, it appears that full-year earnings per share will recover roughly 18%, to \$4.65, compared to the fiscal 2022 figure of \$3.95. Concerning next year, the bottom line might fall back around 5%, to \$4.40 a share. This is based partially on our assumption that results for the Gas Marketing arm won't be as strong as in the current year.													
Debt Due 727.8 1318.7 817.6						Corporate finances are sound. When the March period ended, cash and equivalents stood at nearly \$7 million. Moreover, there was \$1.3 billion available via a revolving credit facility expiring in July, 2027. Too, long-term debt was a manageable 55% of total capital, and short-term obligations were not a major problem. All told, Spire ought to be able to satisfy its commitments for a while. Prospects out to 2026-2028 seem decent. The gas utilities boast 1.7 million customers in Mississippi, Alabama, and Missouri. Too, the other businesses, particularly pipelines, hold promise. Additional expansionary projects and technological enhancements in customer service and elsewhere should help Spire, as well. Finally, acquisitions are plausible, given the adequate balance sheet. These good-quality shares offer decent long-term total return potential. The dividend yield compares nicely to those of other equities in Value Line's Natural Gas Utility Industry. Moreover, 3- to 5-year capital appreciation possibilities look worthwhile.													
Other 470.6 417.5 357.0						<i>Frederick L. Harris, III</i> May 26, 2023													
Current Liab. 1608.3 2353.6 1406.9																			
Fix. Chg. Cov. 448% 393% 405%																			
ANNUAL RATES Past Past Est'd '20-'22 of change (per sh) 10 Yrs. 5 Yrs. to '26-'28																			
Revenues -5.0% 1.0% 8.0%																			
"Cash Flow" 5.5% 4.0% 6.5%																			
Earnings 2.5% 1.0% 8.0%																			
Dividends 5.0% 6.0% 5.0%																			
Book Value 6.5% 4.0% 6.5%																			
Fiscal Year Ends QUARTERLY REVENUES (\$ mill.)^A Full Fiscal Year																			
Dec.31 Mar.31 Jun.30 Sep.30																			
2020 566.9 715.5 321.1 251.9 1855.4																			
2021 512.6 1104.9 327.8 290.2 2235.5																			
2022 555.4 880.9 448.0 314.2 2198.5																			
2023 814.0 1123.4 447.6 335 2720																			
2024 660 1070 430 340 2500																			
Fiscal Year Ends EARNINGS PER SHARE ^{A B F} Full Fiscal Year																			
Dec.31 Mar.31 Jun.30 Sep.30																			
2020 1.24 2.54 d1.87 d.45 1.44																			
2021 1.65 3.55 .03 d.26 4.96																			
2022 1.01 3.27 d.10 d.20 3.95																			
2023 1.66 3.33 d.12 d.22 4.65																			
2024 1.30 3.45 d.11 d.24 4.40																			
Cal-endar QUARTERLY DIVIDENDS PAID ^C Full Year																			
Mar.31 Jun.30 Sep.30 Dec.31																			
2019 .5925 .5925 .5925 .5925 2.37																			
2020 .6225 .6225 .6225 .6225 2.49																			
2021 .65 .65 .65 .65 2.60																			
2022 .685 .685 .685 .685 2.74																			
2023 .72 .72																			

(A) Fiscal year ends Sept. 30th. (B) Based on diluted shares outstanding. Excludes gain from discontinued operations: '08, 94c. Next earnings report due late July. (C) Dividends paid in early January, April, July, and October. (D) Dividend reinvestment plan available. (E) Incl. deferred charges. In '22: \$1,171.6 mill., \$22.32/sh.

(E) In millions. (F) Qtly. egs. may not sum due to rounding or change in shares outstanding.

Company's Financial Strength B++
 Stock's Price Stability 90
 Price Growth Persistence 45
 Earnings Predictability 45

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New Mexico Gas Company
Summary of Risk Premium Models for the
Proxy Group of Six Natural Gas Distribution Companies

	<u>Proxy Group of Six Natural Gas Distribution Companies</u>
Predictive Risk Premium Model (PRPM) (1)	10.74 %
Risk Premium Using an Adjusted Total Market Approach (2)	<u>10.95 %</u>
Average	<u><u>10.85 %</u></u>

Notes:

- (1) From page 2 of this Schedule.
- (2) From page 3 of this Schedule.

New Mexico Gas Company

Indicated ROE

Derived by the Predictive Risk Premium Model (1)

	[1]	[2]	[3]	[4]	[5]	[6]	[7]
Proxy Group of Six Natural Gas Distribution Companies	LT Average Predicted Variance	Spot Predicted Variance	Recommended Variance (2)	GARCH Coefficient	Predicted Risk Premium (3)	Risk-Free Rate (4)	Indicated ROE (5)
Atmos Energy Corporation	0.34%	0.34%	0.34%	2.2707	9.61%	3.85%	13.46%
New Jersey Resources Corporation	0.39%	0.38%	0.39%	2.1385	10.37%	3.85%	14.22%
NiSource Inc.	0.48%	0.33%	0.40%	0.8238	4.08%	3.85%	7.93%
Northwest Natural Holding Company	0.33%	0.40%	0.36%	1.4263	6.43%	3.85%	10.28%
ONE Gas, Inc.	0.37%	0.48%	0.42%	3.0780	16.85%	3.85%	NMF
Spire Inc.	0.70%	0.38%	0.54%	0.9416	6.26%	3.85%	10.11%
						Average	11.20%
						Median	10.28%
						Average of Mean and Median	10.74%

NMF = Not Meaningful Figure

Notes:

- (1) The Predictive Risk Premium Model uses historical data to generate a predicted variance and a GARCH coefficient. The historical data used are the equity risk premiums for the first available trading month as reported by Bloomberg Professional Services.
- (2) Average of Column [1] and Column [2].
- (3) $(1 + (\text{Column [3]} * \text{Column [4]}^{12}) - 1)$.
- (4) From note 2 on page 2 of Schedule DWD-5.
- (5) Column [5] + Column [6].

New Mexico Gas Company
Indicated Common Equity Cost Rate
Through Use of a Risk Premium Model
Using an Adjusted Total Market Approach

<u>Line No.</u>		<u>Proxy Group of Six Natural Gas Distribution Companies</u>
1.	Prospective Yield on Aaa Rated Corporate Bonds (1)	4.75 %
2.	Adjustment to Reflect Yield Spread Between Aaa Rated Corporate Bonds and A2 Rated Public Utility Bonds (2)	<u>0.69</u>
3.	Adjusted Prospective Yield on A2 Rated Public Utility Bonds	5.44 %
4.	Equity Risk Premium (3)	<u>5.51</u>
5.	Risk Premium Derived Common Equity Cost Rate	<u><u>10.95</u> %</u>

- Notes: (1) Consensus forecast of Moody's Aaa Rated Corporate bonds from Blue Chip Financial Forecasts (see pages 10 and 11 of this Schedule).
(2) The average yield spread of A2 rated public utility bonds over Aaa rated corporate bonds of 0.69% from page 4 of this Schedule.
(3) From page 7 of this Schedule.

New Mexico Gas Company
Interest Rates and Bond Spreads for
Moody's Corporate and Public Utility Bonds

Selected Bond Yields - Moody's

	[1]	[2]	[3]
	<u>Aaa Rated Corporate Bond</u>	<u>A2 Rated Public Utility Bond</u>	<u>Baa2 Rated Public Utility Bond</u>
Jun-2023	4.65 %	5.38 %	5.73 %
May-2023	4.67	5.36	5.71
Apr-2023	<u>4.47</u>	<u>5.13</u>	<u>5.47</u>
Average	<u><u>4.60 %</u></u>	<u><u>5.29 %</u></u>	<u><u>5.64 %</u></u>

Selected Bond Spreads

A2 Rated Public Utility Bonds Over Aaa Rated Corporate Bonds:
0.69 % (1)

Baa2 Rated Public Utility Bonds Over A2 Rated Public Utility Bonds:
0.35 % (2)

Notes:

(1) Column [2] - Column [1].

(2) Column [3] - Column [2].

Source of Information:

Bloomberg Professional Services

New Mexico Gas Company
Comparison of Long-Term Issuer Ratings for
Proxy Group of Six Natural Gas Distribution Companies

	<u>Moody's</u>		<u>Standard & Poor's</u>	
	<u>Long-Term Issuer Rating</u>		<u>Long-Term Issuer Rating</u>	
	<u>July 2023</u>		<u>July 2023</u>	
<u>Proxy Group of Six Natural Gas Distribution Companies</u>	<u>Long-Term Issuer Rating (1)</u>	<u>Numerical Weighting (2)</u>	<u>Long-Term Issuer Rating (1)</u>	<u>Numerical Weighting (2)</u>
Atmos Energy Corporation	A1	5.0	A-	7.0
New Jersey Resources Corporation	A1	5.0	NR	- -
NiSource Inc.	Baa1	8.0	BBB+	8.0
Northwest Natural Holding Company	Baa1	8.0	A+	5.0
ONE Gas, Inc.	A3	7.0	A-	7.0
Spire Inc.	A1/A2	5.5	A-	7.0
Average	<u>A2</u>	<u>6.4</u>	<u>A-</u>	<u>6.8</u>

Notes:

- (1) Ratings are that of the average of each company's utility operating subsidiaries.
- (2) From page 6 of this Schedule.

Source Information: Moody's Investors Service
Standard & Poor's Global Utilities Rating Service

Numerical Assignment for
Moody's and Standard & Poor's Bond Ratings

<u>Moody's Bond Rating</u>	<u>Numerical Bond Weighting</u>	<u>Standard & Poor's Bond Rating</u>
Aaa	1	AAA
Aa1	2	AA+
Aa2	3	AA
Aa3	4	AA-
A1	5	A+
A2	6	A
A3	7	A-
Baa1	8	BBB+
Baa2	9	BBB
Baa3	10	BBB-
Ba1	11	BB+
Ba2	12	BB
Ba3	13	BB-
B1	14	B+
B2	15	B
B3	16	B-

New Mexico Gas Company
Judgment of Equity Risk Premium for
Proxy Group of Six Natural Gas Distribution Companies

Line No.		Proxy Group of Six Natural Gas Distribution Companies
1.	Calculated equity risk premium based on the total market using the beta approach (1)	6.83 %
2.	Mean equity risk premium based on a study using the holding period returns of public utilities with A rated bonds (2)	4.79
3.	Predicted Equity Risk Premium Based on Regression Analysis of 821 Fully-Litigated Natural Gas Utility Rate Cases (3)	4.92
4.	Average equity risk premium	5.51 %

Notes: (1) From page 8 of this Schedule.
(2) From page 12 of this Schedule.
(3) From page 13 of this Schedule.

New Mexico Gas Company
Derivation of Equity Risk Premium Based on the Total Market Approach
Using the Beta for the
Proxy Group of Six Natural Gas Distribution Companies

<u>Line No.</u>	<u>Equity Risk Premium Measure</u>	<u>Proxy Group of Six Natural Gas Distribution Companies</u>
1.	Kroll Equity Risk Premium (1)	5.82 %
2.	Regression on Kroll Risk Premium Data (2)	7.46
3.	Kroll Equity Risk Premium based on PRPM (3)	8.70
4.	Equity Risk Premium Based on Value Line Summary and Index (4)	10.56
5.	Equity Risk Premium Based on Value Line S&P 500 Companies (5)	9.39
6.	Equity Risk Premium Based on Bloomberg S&P 500 Companies (6)	<u>11.29</u>
7.	Conclusion of Equity Risk Premium	8.87 %
8.	Adjusted Beta (7)	<u>0.77</u>
9.	Forecasted Equity Risk Premium	<u><u>6.83 %</u></u>

Notes provided on page 9 of this Schedule.

New Mexico Gas Company
Derivation of Equity Risk Premium Based on the Total Market Approach
Using the Beta for the
Proxy Group of Six Natural Gas Distribution Companies

Notes:

- (1) Based on the arithmetic mean historical monthly returns on large company common stocks from Kroll 2023 SBBI® Yearbook minus the arithmetic mean monthly yield of Moody's average Aaa and Aa corporate bonds from 1928-2022.
- (2) This equity risk premium is based on a regression of the monthly equity risk premiums of large company common stocks relative to Moody's average Aaa and Aa2 rated corporate bond yields from 1928-2022 referenced in Note 1 above. Using the equation generated from the regression, an expected equity risk premium is calculated using the average consensus forecast of Aaa corporate bonds of 4.75% (from page 3 of this Schedule).
- (3) The SBBI equity risk premium based on the PRPM is derived by applying the PRPM to the monthly risk premiums between Kroll large company common stock monthly returns and average Aaa and Aa corporate monthly bond yields, from January 1928 through June 2023.
- (4) The equity risk premium based on the Value Line Summary and Index is derived by subtracting the average consensus forecast of Aaa corporate bonds of 4.75% (from page 3 of this Schedule) from the projected 3-5 year total annual market return of 15.31% (described fully in note 1 on page 2 of Schedule DWD-5).
- (5) Using data from Value Line for the S&P 500, an expected total return of 14.14%% was derived based upon expected dividend yields as a proxy for income returns and long-term earnings growth estimates as a proxy for capital appreciation. Subtracting the average consensus forecast of Aaa corporate bonds of 4.75% results in an expected equity risk premium of 9.39%.
- (6) Using data from the Bloomberg Professional Services for the S&P 500, an expected total return of 16.04% was derived based upon expected dividend yields as a proxy for income returns and long-term earnings growth estimates as a proxy for capital appreciation. Subtracting the average consensus forecast of Aaa corporate bonds of 4.75% results in an expected equity risk premium of 11.29%.
- (7) Average of mean and median beta from Schedule DWD-5.

Sources of Information:

Stocks, Bonds, Bills, and Inflation - 2023 SBBI Yearbook, Kroll
Value Line Summary and Index
Blue Chip Financial Forecasts, June 1, 2023 and June 30, 2023
Bloomberg Professional Services

Consensus Forecasts of U.S. Interest Rates and Key Assumptions

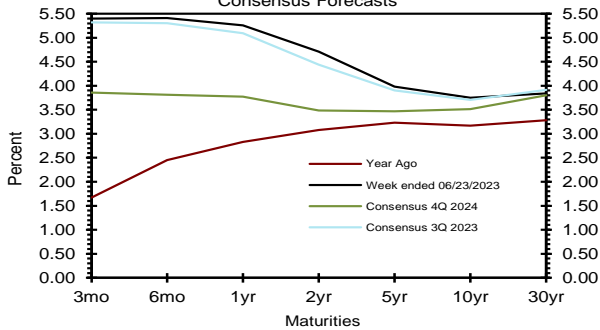
Interest Rates	History								Consensus Forecasts-Quarterly Avg.					
	Average For Week Ending				Average For Month			Latest Qtr	3Q 2023	4Q 2023	1Q 2024	2Q 2024	3Q 2024	4Q 2024
	Jun 23	Jun 16	Jun 9	Jun 2	May	Apr	Mar	2Q 2023*	2023	2023	2024	2024	2024	2024
Federal Funds Rate	5.08	5.08	5.08	5.08	5.06	4.83	4.65	4.98	5.3	5.2	5.0	4.6	4.3	3.9
Prime Rate	8.25	8.25	8.25	8.25	8.23	8.00	7.82	8.15	8.4	8.4	8.1	7.7	7.3	7.0
SOFR	5.05	5.05	5.05	5.07	5.02	4.81	4.64	4.96	5.2	5.2	5.0	4.7	4.3	3.9
Commercial Paper, 1-mo.	5.09	5.09	5.12	5.08	5.06	4.82	4.74	4.98	5.2	5.2	5.0	4.6	4.2	3.9
Treasury bill, 3-mo.	5.40	5.36	5.41	5.52	5.31	5.07	4.86	5.26	5.3	5.2	5.0	4.6	4.2	3.9
Treasury bill, 6-mo.	5.41	5.36	5.42	5.48	5.27	4.99	4.99	5.21	5.3	5.1	4.9	4.5	4.1	3.8
Treasury bill, 1 yr.	5.26	5.23	5.16	5.18	4.91	4.68	4.68	4.92	5.1	4.9	4.6	4.3	4.0	3.8
Treasury note, 2 yr.	4.71	4.66	4.53	4.42	4.13	4.02	4.30	4.23	4.4	4.3	4.0	3.8	3.6	3.5
Treasury note, 5 yr.	3.98	3.97	3.88	3.77	3.59	3.54	3.82	3.67	3.9	3.8	3.7	3.6	3.5	3.5
Treasury note, 10 yr.	3.75	3.78	3.73	3.66	3.57	3.46	3.66	3.58	3.7	3.6	3.6	3.5	3.5	3.5
Treasury note, 30 yr.	3.84	3.88	3.90	3.87	3.86	3.68	3.77	3.80	3.9	3.9	3.9	3.8	3.8	3.8
Corporate Aaa bond	4.91	4.97	4.99	4.99	4.95	4.76	4.92	4.89	4.8	4.9	4.7	4.6	4.6	4.6
Corporate Baa bond	5.59	5.66	5.70	5.69	5.66	5.44	5.61	5.59	5.9	5.9	5.7	5.6	5.6	5.5
State & Local bonds	4.21	4.24	4.25	4.30	4.21	4.07	4.23	4.18	4.2	4.2	4.1	4.0	4.0	4.0
Home mortgage rate	6.67	6.69	6.71	6.79	6.43	6.34	6.54	6.49	6.6	6.4	6.3	6.1	6.0	5.9

Key Assumptions	History								Consensus Forecasts-Quarterly					
	3Q 2021	4Q 2021	1Q 2022	2Q 2022	3Q 2022	4Q 2022	1Q 2023	2Q 2023**	3Q 2023	4Q 2023	1Q 2024	2Q 2024	3Q 2024	4Q 2024
	2021	2021	2022	2022	2022	2022	2023	2023**	2023	2023	2024	2024	2024	2024
Fed's AFE \$ Index	104.9	106.9	108.3	113.5	118.8	119.8	115.5	114.6	114.7	115.1	114.9	114.7	114.7	114.1
Real GDP	2.7	7.0	-1.6	-0.6	3.2	2.6	2.0	0.8	0.0	-0.2	0.6	1.1	1.7	2.0
GDP Price Index	6.2	6.8	8.3	9.0	4.4	3.9	4.1	3.3	2.9	2.8	2.5	2.4	2.2	2.2
Consumer Price Index	6.6	8.8	9.2	9.7	5.5	4.2	3.8	3.3	3.0	2.8	2.5	2.3	2.4	2.4
PCE Price Index	5.6	6.2	7.5	7.3	4.3	3.7	4.1	3.0	2.9	2.7	2.5	2.2	2.2	2.2

Forecasts for interest rates and the Federal Reserve's Advanced Foreign Economics Index represent averages for the quarter. Forecasts for Real GDP, GDP Price Index, CPI and PCE Price Index are seasonally-adjusted annual rates of change (saar). Individual panel members' forecasts are on pages 4 through 9. Historical data: Treasury rates from the Federal Reserve Board's H.15; AAA-AA and A-BBB corporate bond yields from Bank of America-Merrill Lynch and are 15+ years, yield to maturity; State and local bond yields from Bank of America-Merrill Lynch, A-rated, yield to maturity; Mortgage rates from Freddie Mac, 30-year, fixed; SOFR from the New York Fed.*Interest rate data for 2Q 2023 based on historical data through the week ended June 23. **Data for 2Q 2023 for the Fed's AFE \$ Index based on data through the week ended June 23. Figures for 2Q 2023 Real GDP, GDP Chained Price Index, Consumer Price Index, and PCE Price Index are consensus forecasts from the June 2023 survey.

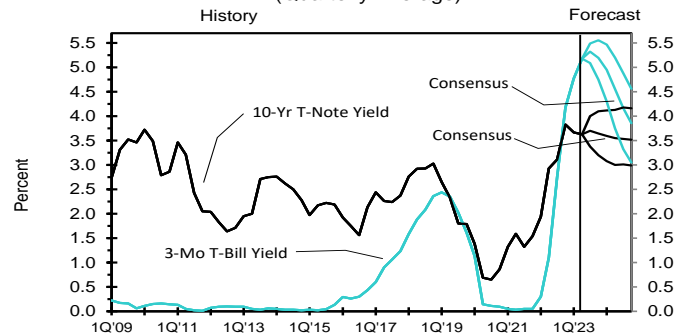
US Treasury Yield Curve

Week ended Jun 23, 2023 & Year Ago vs.
 3Q 2023 & 4Q 2024



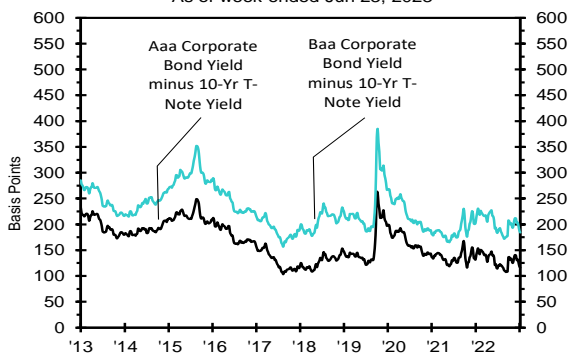
US 3-Mo T-Bills & 10-Yr T-Note Yield

(Quarterly Average)



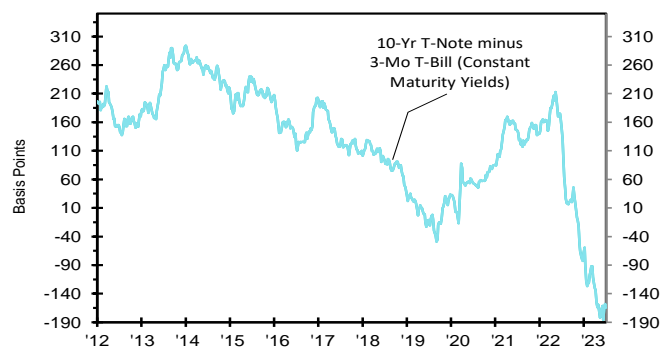
Corporate Bond Spreads

As of week ended Jun 23, 2023



US Treasury Yield Curve

As of week ended Jun 23, 2023



Long-Range Survey:

The table below contains the results of our twice-annual long-range CONSENSUS survey. There are also Top 10 and Bottom 10 averages for each variable. Shown are consensus estimates for the years 2024 through 2029 and averages for the five-year periods 2025-2029 and 2030-2034. Apply these projections cautiously. Few if any economic, demographic and political forces can be evaluated accurately over such long time spans.

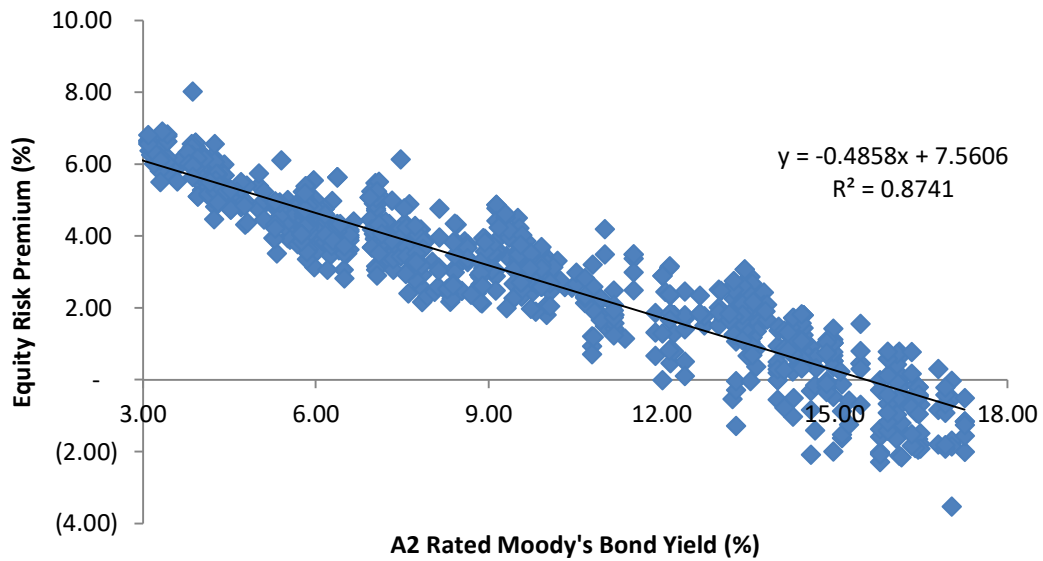
		----- Average For The Year -----						Five-Year Averages	
		2024	2025	2026	2027	2028	2029	2025-2029	2030-2034
1. Federal Funds Rate	CONSENSUS	3.9	3.0	2.7	2.7	2.7	2.7	2.7	2.7
	Top 10 Average	4.6	3.5	3.2	3.2	3.2	3.1	3.2	3.1
	Bottom 10 Average	3.1	2.4	2.3	2.2	2.2	2.3	2.3	2.3
2. Prime Rate	CONSENSUS	7.0	6.0	5.8	5.8	5.7	5.8	5.8	5.8
	Top 10 Average	7.7	6.6	6.2	6.3	6.2	6.1	6.3	6.2
	Bottom 10 Average	6.3	5.5	5.4	5.3	5.3	5.4	5.4	5.4
3. SOFR	CONSENSUS	3.8	2.9	2.6	2.7	2.6	2.6	2.7	2.6
	Top 10 Average	4.5	3.4	3.0	3.1	3.0	2.9	3.1	3.0
	Bottom 10 Average	3.2	2.4	2.3	2.2	2.2	2.3	2.3	2.3
4. Commercial Paper, 1-Mo	CONSENSUS	3.7	2.9	2.7	2.8	2.8	2.8	2.8	2.8
	Top 10 Average	4.3	3.3	3.0	3.1	3.0	3.0	3.1	3.0
	Bottom 10 Average	3.3	2.6	2.4	2.4	2.4	2.6	2.5	2.5
5. Treasury Bill Yield, 3-Mo	CONSENSUS	3.8	2.9	2.7	2.7	2.7	2.7	2.7	2.7
	Top 10 Average	4.4	3.4	3.1	3.2	3.2	3.0	3.2	3.1
	Bottom 10 Average	3.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
6. Treasury Bill Yield, 6-Mo	CONSENSUS	3.8	3.0	2.8	2.8	2.8	2.8	2.8	2.8
	Top 10 Average	4.4	3.5	3.2	3.3	3.2	3.1	3.2	3.1
	Bottom 10 Average	3.1	2.5	2.4	2.4	2.4	2.5	2.4	2.5
7. Treasury Bill Yield, 1-Yr	CONSENSUS	3.6	3.0	2.9	2.9	2.9	2.9	2.9	2.9
	Top 10 Average	4.3	3.5	3.3	3.4	3.3	3.2	3.3	3.3
	Bottom 10 Average	3.0	2.5	2.5	2.5	2.5	2.6	2.5	2.6
8. Treasury Note Yield, 2-Yr	CONSENSUS	3.4	3.0	3.0	3.1	3.0	3.0	3.0	3.1
	Top 10 Average	4.0	3.5	3.5	3.5	3.5	3.4	3.5	3.5
	Bottom 10 Average	2.8	2.6	2.6	2.6	2.5	2.7	2.6	2.7
9. Treasury Note Yield, 5-Yr	CONSENSUS	3.4	3.1	3.2	3.2	3.3	3.2	3.2	3.3
	Top 10 Average	4.0	3.6	3.7	3.8	3.8	3.6	3.7	3.8
	Bottom 10 Average	2.8	2.7	2.7	2.7	2.8	2.8	2.7	2.8
10. Treasury Note Yield, 10-Yr	CONSENSUS	3.4	3.3	3.4	3.5	3.5	3.5	3.4	3.6
	Top 10 Average	3.9	3.7	4.0	4.1	4.1	4.0	4.0	4.2
	Bottom 10 Average	3.0	3.0	2.9	2.9	3.0	3.0	3.0	3.1
11. Treasury Bond Yield, 30-Yr	CONSENSUS	3.8	3.6	3.7	3.8	3.9	3.8	3.8	3.9
	Top 10 Average	4.2	4.0	4.2	4.3	4.3	4.2	4.2	4.5
	Bottom 10 Average	3.4	3.3	3.3	3.3	3.4	3.4	3.3	3.4
12. Corporate Aaa Bond Yield	CONSENSUS	4.7	4.6	4.7	4.8	4.9	4.8	4.8	5.0
	Top 10 Average	5.1	4.9	5.2	5.4	5.4	5.3	5.2	5.6
	Bottom 10 Average	4.3	4.3	4.2	4.3	4.3	4.3	4.3	4.3
13. Corporate Baa Bond Yield	CONSENSUS	5.8	5.6	5.7	5.8	5.8	5.8	5.7	5.9
	Top 10 Average	6.1	5.9	6.1	6.3	6.3	6.2	6.1	6.5
	Bottom 10 Average	5.3	5.3	5.3	5.3	5.4	5.3	5.3	5.4
14. State & Local Bonds Yield	CONSENSUS	4.0	3.8	4.0	4.1	4.1	4.1	4.0	4.2
	Top 10 Average	4.3	4.1	4.3	4.4	4.5	4.3	4.3	4.5
	Bottom 10 Average	3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.8
15. Home Mortgage Rate	CONSENSUS	5.7	5.4	5.4	5.4	5.5	5.4	5.4	5.5
	Top 10 Average	6.4	5.9	6.0	6.1	6.1	5.9	6.0	6.1
	Bottom 10 Average	5.1	4.9	4.7	4.8	4.8	4.9	4.8	4.9
A. Fed's AFE Nominal \$ Index	CONSENSUS	113.5	111.8	111.8	110.9	110.1	110.1	111.0	110.0
	Top 10 Average	115.5	114.2	115.1	114.7	114.3	115.2	114.7	115.3
	Bottom 10 Average	111.5	109.5	108.4	107.5	106.3	105.8	107.5	105.3
		----- Year-Over-Year, % Change -----						Five-Year Averages	
		2024	2025	2026	2027	2028	2029	2025-2029	2030-2034
B. Real GDP	CONSENSUS	1.1	2.1	2.2	2.1	2.0	1.9	2.1	2.0
	Top 10 Average	2.0	2.5	2.7	2.5	2.3	2.1	2.4	2.3
	Bottom 10 Average	0.4	1.7	1.8	1.8	1.7	1.7	1.7	1.7
C. GDP Chained Price Index	CONSENSUS	2.5	2.3	2.2	2.2	2.1	2.1	2.2	2.2
	Top 10 Average	3.0	2.7	2.5	2.5	2.3	2.3	2.5	2.4
	Bottom 10 Average	2.1	1.9	1.9	1.9	2.0	2.0	1.9	1.9
D. Consumer Price Index	CONSENSUS	2.6	2.3	2.2	2.2	2.2	2.1	2.2	2.2
	Top 10 Average	3.0	2.7	2.5	2.5	2.3	2.3	2.5	2.4
	Bottom 10 Average	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0
E. PCE Price Index	CONSENSUS	2.4	2.2	2.1	2.1	2.1	2.1	2.1	2.1
	Top 10 Average	2.9	2.5	2.4	2.3	2.2	2.2	2.3	2.3
	Bottom 10 Average	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9

New Mexico Gas Company
Derivation of Mean Equity Risk Premium Based Studies
Using Holding Period Returns and
Projected Market Appreciation of the S&P Utility Index

<u>Line No.</u>	<u>Equity Risk Premium based on S&P Utility Index Holding Period Returns (1):</u>	<u>Implied Equity Risk Premium</u>
1.	Historical Equity Risk Premium	4.20 %
2.	Regression of Historical Equity Risk Premium (2)	5.16
3.	Forecasted Equity Risk Premium Based on PRPM (3)	5.24
4.	Forecasted Equity Risk Premium based on Projected Total Return on the S&P Utilities Index (Value Line Data) (4)	4.56
5.	Forecasted Equity Risk Premium based on Projected Total Return on the S&P Utilities Index (Bloomberg Data) (5)	<u>NMF</u>
6.	Average Equity Risk Premium (6)	<u><u>4.79 %</u></u>

- Notes: (1) Based on S&P Public Utility Index monthly total returns and Moody's Public Utility Bond average monthly yields from 1928-2022. Holding period returns are calculated based upon income received (dividends and interest) plus the relative change in the market value of a security over a one-year holding period.
- (2) This equity risk premium is based on a regression of the monthly equity risk premiums of the S&P Utility Index relative to Moody's A2 rated public utility bond yields from 1928 - 2022 referenced in note 1 above.
- (3) The Predictive Risk Premium Model (PRPM) is applied to the risk premium of the monthly total returns of the S&P Utility Index and the monthly yields on Moody's A2 rated public utility bonds from January 1928 - June 2023.
- (4) Using data from Value Line for the S&P Utilities Index, an expected return of 10.00% was derived based on expected dividend yields as a proxy for income returns and long-term growth estimates as a proxy for market appreciation. Subtracting the expected A2 rated public utility bond yield of 5.44%, calculated on line 3 of page 3 of this Schedule results in an equity risk premium of 4.56%. (10.00% - 5.44% = 4.56%)
- (5) Using data from Bloomberg Professional Services for the S&P Utilities Index, an expected return of 4.25% was derived based on expected dividend yields as a proxy for income returns and long-term growth estimates as a proxy for market appreciation. Subtracting the expected A2 rated public utility bond yield of 5.44%, calculated on line 3 of page 3 of this Schedule results in an equity risk premium of -1.19%. (4.25% - 5.44% = -1.19%). Because a negative risk premium is inconsistent with financial theory, it is not included in the final average.
- (6) Average of lines 1 through 5.

New Mexico Gas Company
Prediction of Equity Risk Premiums Relative to
Moody's A2 Rated Utility Bond Yields - Gas Utilities



		Prospective A2 Rated Utility Bond (1)	Prospective Equity Risk Premium
<u>Constant</u>	<u>Slope</u>		
7.5606 %	-0.4858	5.44 %	4.92 %

Notes:
 (1) From line 3 of page 3 of this Schedule.

Source of Information: Regulatory Research Associates

New Mexico Gas Company
 Indicated Common Equity Cost Rate Through Use
 of the Traditional Capital Asset Pricing Model (CAPM) and Empirical Capital Asset Pricing Model (ECAPM)

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Proxy Group of Six Natural Gas Distribution Companies	Value Line Adjusted Beta	Bloomberg Adjusted Beta	Average Beta	Market Risk Premium (1)	Risk-Free Rate (2)	Traditional CAPM Cost Rate	ECAPM Cost Rate	Indicated Common Equity Cost
Atmos Energy Corporation	0.85	0.73	0.79	9.87 %	3.85 %	11.65 %	12.17 %	11.91 %
New Jersey Resources Corporation	0.95	0.73	0.84	9.87	3.85	12.14	12.54	12.34
NiSource Inc.	0.85	0.75	0.80	9.87	3.85	11.75	12.24	12.00
Northwest Natural Holding Company	0.80	0.60	0.70	9.87	3.85	10.76	11.50	11.13
ONE Gas, Inc.	0.80	0.63	0.71	9.87	3.85	10.86	11.58	11.22
Spire Inc.	0.80	0.67	0.74	9.87	3.85	11.16	11.80	11.48
Mean			0.76			11.39 %	11.97 %	11.68 %
Median			0.77			11.40 %	11.98 %	11.70 %
Average of Mean and Median			0.77			11.40 %	11.98 %	11.69 %

Notes on page 2 of this Schedule.

New Mexico Gas Company
Notes to Accompany the Application of the CAPM and ECAPM

Notes:

- (1) The market risk premium (MRP) is derived by using six different measures from three sources: Kroll, Value Line, and Bloomberg as illustrated below:

Historical Data MRP Estimates:

Measure 1: Kroll Arithmetic Mean MRP (1926-2022)

Arithmetic Mean Monthly Returns for Large Stocks 1926-2022:	12.03 %
Arithmetic Mean Income Returns on Long-Term Government Bonds:	5.00
MRP based on Kroll Historical Data:	7.03 %

Measure 2: Application of a Regression Analysis to Kroll Historical Data (1926-2022)

8.59 %

Measure 3: Application of the PRPM to Kroll Historical Data: (January 1926 - June 2023)

9.69 %

Value Line MRP Estimates:

Measure 4: Value Line Projected MRP (Thirteen weeks ending July 14, 2023)

Total projected return on the market 3-5 years hence*:	15.31 %
Projected Risk-Free Rate (see note 2):	3.85
MRP based on Value Line Summary & Index:	11.46 %

*Forecasted 3-5 year capital appreciation plus expected dividend yield

Measure 5: Value Line Projected Return on the Market based on the S&P 500

Total return on the Market based on the S&P 500:	14.14 %
Projected Risk-Free Rate (see note 2):	3.85
MRP based on Value Line data	10.29 %

Measure 6: Bloomberg Projected MRP

Total return on the Market based on the S&P 500:	16.04 %
Projected Risk-Free Rate (see note 2):	3.85
MRP based on Bloomberg data	12.19 %

Average of Value Line, Kroll, and Bloomberg MRP: 9.87 %

- (2) For reasons explained in the direct testimony, the appropriate risk-free rate for cost of capital purposes is the average forecast of 30 year Treasury Bonds per the consensus of nearly 50 economists reported in Blue Chip Financial Forecasts. (See pages 10 and 11 of Schedule DWD-4.) The projection of the risk-free rate is illustrated below:

Third Quarter 2023	3.90 %
Fourth Quarter 2023	3.90
First Quarter 2024	3.90
Second Quarter 2024	3.80
Third Quarter 2024	3.80
Fourth Quarter 2024	3.80
2025-2029	3.80
2030-2034	3.90
	3.85 %

- (3) Average of Column 6 and Column 7.

Sources of Information:

Value Line Summary and Index
Blue Chip Financial Forecasts, June 1, 2023 and June 30, 2023
Stocks, Bonds, Bills, and Inflation - 2023 SBBI Yearbook, Kroll
Bloomberg Professional Services

New Mexico Gas Company
Basis of Selection of the Group of Non-Price Regulated Companies
Comparable in Total Risk to the Utility Proxy Group

The criteria for selection of the proxy group of forty-six non-price regulated companies was that the non-price regulated companies be domestic and reported in Value Line Investment Survey (Standard Edition).

The Non-Price Regulated Proxy Group were then selected based on the unadjusted beta range of 0.58 – 0.86 and residual standard error of the regression range of 2.8160 – 3.3584 of the Utility Proxy Group.

These ranges are based upon plus or minus two standard deviations of the unadjusted beta and standard error of the regression. Plus or minus two standard deviations captures 95.50% of the distribution of unadjusted betas and residual standard errors of the regression.

The standard deviation of the Utility Proxy Group's residual standard error of the regression is 0.1356. The standard deviation of the standard error of the regression is calculated as follows:

$$\text{Standard Deviation of the Std. Err. of the Regr.} = \frac{\text{Standard Error of the Regression}}{\sqrt{2N}}$$

where: N = number of observations. Since Value Line betas are derived from weekly price change observations over a period of five years, N = 259

$$\text{Thus, } 0.1356 = \frac{3.0872}{\sqrt{518}} = \frac{3.0872}{22.7596}$$

Source of Information: Value Line, Inc., June 2023
Value Line Investment Survey (Standard Edition)

New Mexico Gas Company
Basis of Selection of Comparable Risk
Domestic Non-Price Regulated Companies

	[1]	[2]	[3]	[4]
<u>Proxy Group of Six Natural Gas Distribution Companies</u>	<u>Value Line Adjusted Beta</u>	<u>Unadjusted Beta</u>	<u>Residual Standard Error of the Regression</u>	<u>Standard Deviation of Beta</u>
Atmos Energy Corporation	0.85	0.70	2.9159	0.0641
New Jersey Resources Corporation	0.95	0.87	3.1807	0.0699
NiSource Inc.	0.85	0.76	2.6599	0.0585
Northwest Natural Holding Company	0.80	0.66	3.4174	0.0751
ONE Gas, Inc.	0.80	0.66	3.1969	0.0703
Spire Inc.	0.80	0.69	3.1526	0.0693
Average	<u>0.84</u>	<u>0.72</u>	<u>3.0872</u>	<u>0.0679</u>
Beta Range (+/- 2 std. Devs. of Beta) 2 std. Devs. of Beta	0.58 0.14	0.86		
Residual Std. Err. Range (+/- 2 std. Devs. of the Residual Std. Err.)	2.8160	3.3584		
Std. dev. of the Res. Std. Err.	0.1356			
2 std. devs. of the Res. Std. Err.	0.2712	0.8700		

Source of Information: Valueline Proprietary Database, June 2023

New Mexico Gas Company
Proxy Group of Forty-Six Non-Price Regulated Companies
Comparable in Total Risk to the
Proxy Group of Six Natural Gas Distribution Companies

	[1]	[2]	[3]	[4]
<u>Proxy Group of Forty-Six Non-Price Regulated Companies</u>	<u>Value Line Adjusted Beta</u>	<u>Unadjusted Beta</u>	<u>Residual Standard Error of the Regression</u>	<u>Standard Deviation of Beta</u>
Agilent Technologies	0.95	0.86	2.8174	0.0620
AbbVie Inc.	0.85	0.73	3.2239	0.0709
AmerisourceBergen	0.80	0.69	3.0890	0.0679
Abbott Labs.	0.90	0.81	2.9376	0.0646
Assurant Inc.	0.90	0.81	3.0042	0.0661
Smith (A.O.)	0.90	0.79	3.1089	0.0684
Air Products & Chem.	0.90	0.83	2.9876	0.0657
AutoZone Inc.	0.95	0.85	3.3239	0.0731
Booz Allen Hamilton	0.85	0.73	3.2262	0.0709
Becton, Dickinson	0.75	0.60	2.9735	0.0654
Broadridge Fin'l	0.90	0.80	2.9041	0.0639
CACI Int'l	0.90	0.79	3.0776	0.0677
Casey's Gen'l Stores	0.90	0.79	3.0735	0.0676
Chemed Corp.	0.80	0.62	2.8651	0.0630
Check Point Software	0.75	0.61	2.9399	0.0646
CSG Systems Int'l	0.75	0.60	3.0717	0.0675
CSW Industrials	0.90	0.78	3.2678	0.0719
Quest Diagnostics	0.80	0.63	3.3323	0.0733
Exponent, Inc.	0.95	0.85	3.2135	0.0707
Fastenal Co.	0.90	0.83	3.0532	0.0671
Franklin Electric	0.90	0.83	3.0031	0.0660
Alphabet Inc.	0.90	0.81	3.0446	0.0669
Henry (Jack) & Assoc	0.85	0.72	3.1768	0.0699
L3Harris Technologie	0.90	0.81	3.2934	0.0761
Lockheed Martin	0.90	0.81	2.9531	0.0649
Landstar System	0.80	0.64	2.9536	0.0649
McKesson Corp.	0.85	0.76	3.1802	0.0699
McCormick & Co.	0.80	0.63	3.1425	0.0691
Monster Beverage	0.85	0.72	2.8765	0.0633
Altria Group	0.85	0.76	3.0113	0.0662
MSC Industrial Direc	0.95	0.85	2.9590	0.0651
NewMarket Corp.	0.75	0.60	2.9107	0.0640
Oracle Corp.	0.85	0.72	2.8385	0.0624
O'Reilly Automotive	0.90	0.84	3.0143	0.0663
OSI Systems	0.90	0.80	2.9498	0.0649
Pfizer, Inc.	0.80	0.67	3.0166	0.0663
Progressive Corp.	0.75	0.59	3.1020	0.0682
Service Corp. Int'l	0.90	0.84	3.1595	0.0695
Stepan Company	0.80	0.64	3.2411	0.0713
Selective Ins. Group	0.85	0.76	3.0646	0.0674
Sirius XM Holdings	0.95	0.85	3.2201	0.0708
UniFirst Corp.	0.90	0.82	2.9485	0.0648
VeriSign Inc.	0.95	0.86	2.9893	0.0657
Waters Corp.	0.95	0.85	3.0725	0.0676
Watsco, Inc.	0.90	0.77	3.1149	0.0685
Western Union	0.85	0.72	3.1544	0.0694
Average	<u>0.87</u>	<u>0.75</u>	<u>3.0626</u>	<u>0.0674</u>
Proxy Group of Six Natural Gas Distribution Companies	<u>0.84</u>	<u>0.72</u>	<u>3.0872</u>	<u>0.0679</u>

Source of Information:

Valueline Proprietary Database, June 2023

New Mexico Gas Company
Summary of Cost of Equity Models Applied to
Proxy Groups of Non-Price Regulated Companies
Comparable in Total Risk to the
Proxy Group of Six Natural Gas Distribution Companies

Principal Methods	Proxy Group of Forty-Six Non- Price Regulated Companies
Discounted Cash Flow Model (DCF) (1)	10.60 %
Risk Premium Model (RPM) (2)	13.10
Capital Asset Pricing Model (CAPM) (3)	12.30
	Mean <u>12.00</u> %
	Median <u>12.30</u> %
	Average of Mean and Median <u>12.15</u> %

Notes:

- (1) From page 2 of this Schedule.
- (2) From page 4 of this Schedule.
- (3) From page 7 of this Schedule.

New Mexico Gas Company

DCF Results for the Proxy Groups of Non-Price-Regulated Companies Comparable in Total Risk to the
Proxy Group of Six Natural Gas Distribution Companies

	[1]	[2]	[3]	[4]	[5]	[6]	[7]
Proxy Group of Forty-Six Non-Price Regulated Companies	Average Dividend Yield	Value Line Projected Five Year Growth in EPS	Zack's Five Year Projected Growth Rate in EPS	Yahoo! Finance Projected Five Year Growth in EPS	Average Projected Five Year Growth Rate in EPS	Adjusted Dividend Yield	Indicated Common Equity Cost Rate (1)
Agilent Technologies	0.73 %	13.50 %	11.00 %	11.66 %	12.05 %	0.77 %	12.82 %
AbbVie Inc.	4.16	2.00	5.00	(4.25)	3.50	4.23	7.73
AmerisourceBergen	1.10	8.50	8.90	7.95	8.45	1.15	9.60
Abbott Labs.	1.90	4.50	5.10	(2.70)	4.80	1.95	6.75
Assurant Inc.	2.22	10.50	11.40	11.40	11.10	2.34	13.44
Smith (A.O.)	1.73	9.50	9.00	8.00	8.83	1.81	10.64
Air Products & Chem.	2.45	10.50	9.50	9.38	9.79	2.57	12.36
AutoZone Inc.	-	13.00	12.50	9.95	11.82	-	NA
Booz Allen Hamilton	1.85	8.00	10.20	9.75	9.32	1.94	11.26
Becton, Dickinson	1.43	5.00	10.10	9.85	8.32	1.49	9.81
Broadridge Fin'l	1.87	8.50	NA	11.80	10.15	1.96	12.11
CACI Int'l	-	7.00	8.00	6.70	7.23	-	NA
Casey's Gen'l Stores	0.75	8.50	NA	11.04	9.77	0.79	10.56
Chemed Corp.	0.28	6.50	8.80	8.80	8.03	0.29	8.32
Check Point Software	-	9.50	7.30	6.39	7.73	-	NA
CSG Systems Int'l	2.21	15.50	NA	6.30	10.90	2.33	13.23
CSW Industrials	0.51	11.50	NA	12.00	11.75	0.54	12.29
Quest Diagnostics	2.07	4.00	NA	(0.47)	4.00	2.11	6.11
Exponent, Inc.	1.12	12.00	NA	15.00	13.50	1.20	14.70
Fastenal Co.	2.52	6.50	9.00	6.33	7.28	2.61	9.89
Franklin Electric	0.94	10.50	12.00	13.40	11.97	1.00	12.97
Alphabet Inc.	-	10.50	14.50	17.59	14.20	-	NA
Henry (Jack) & Assoc	1.32	7.00	7.30	7.30	7.20	1.37	8.57
L3Harris Technologie	2.39	19.50	2.60	1.14	7.75	2.48	10.23
Lockheed Martin	2.61	7.00	6.20	10.89	8.03	2.71	10.74
Landstar System	0.65	2.50	12.00	12.00	8.83	0.68	9.51
McKesson Corp.	0.55	9.00	10.80	11.22	10.34	0.58	10.92
McCormick & Co.	1.76	4.50	7.50	8.10	6.70	1.82	8.52
Monster Beverage	-	11.00	22.90	25.54	19.81	-	NA
Altria Group	8.28	6.00	4.00	4.47	4.82	8.48	13.30
MSC Industrial Direc	3.38	5.00	NA	9.12	7.06	3.50	10.56
NewMarket Corp.	2.25	(0.50)	NA	7.70	7.70	2.34	10.04
Oracle Corp.	1.50	10.00	8.00	11.46	9.82	1.57	11.39
O'Reilly Automotive	-	12.00	13.20	11.20	12.13	-	NA
OSI Systems	-	10.50	11.00	8.00	9.83	-	NA
Pfizer, Inc.	4.31	2.00	9.00	(15.49)	5.50	4.43	9.93
Progressive Corp.	0.30	12.00	25.10	26.80	21.30	0.33	NMF
Service Corp. Int'l	1.64	5.00	8.20	12.00	8.40	1.71	10.11
Stepan Company	1.56	7.50	NA	4.40	5.95	1.61	7.56
Selective Ins. Group	1.22	15.00	19.30	13.40	15.90	1.32	NMF
Sirius XM Holdings	2.50	28.50	7.10	6.36	13.99	2.67	16.66
UniFirst Corp.	0.75	9.00	NA	10.00	9.50	0.79	10.29
VeriSign Inc.	-	13.00	NA	8.00	10.50	-	NA
Waters Corp.	-	10.00	7.50	7.66	8.39	-	NA
Watsco, Inc.	2.81	12.00	NA	4.42	8.21	2.93	11.14
Western Union	8.08	(0.50)	NA	0.31	0.31	8.09	8.40
						Mean	<u>10.64 %</u>
						Median	<u>10.56 %</u>
						Average of Mean and Median	<u>10.60 %</u>

NA= Not Available
NMF= Not Meaningful Figure

(1) The application of the DCF model to the domestic, non-price regulated comparable risk companies is identical to the application of the DCF to the Utility Proxy Group. The dividend yield is derived by using the 60 day average price and the spot indicated dividend as of July 14, 2023. The dividend yield is then adjusted by 1/2 the average projected growth rate in EPS, which is calculated by averaging the 5 year projected growth in EPS provided by Value Line, www.zacks.com, and www.yahoo.com (excluding any negative growth rates) and then adding that growth rate to the adjusted dividend yield.

Source of Information: Value Line Investment Survey
www.zacks.com Downloaded on 07/14/2023
www.yahoo.com Downloaded on 07/14/2023

New Mexico Gas Company
DCF Results for the Proxy Groups of Non-Price-Regulated Companies Comparable in Total Risk to the
Proxy Group of Six Natural Gas Distribution Companies

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Proxy Group of Forty-Six Non-Price Regulated Companies	Average Dividend Yield	Value Line Projected Five Year Growth in EPS	Zack's Five Year Projected Growth Rate in EPS	Yahoo! Finance Projected Five Year Growth in EPS	Average Projected Five Year Growth Rate in EPS	Adjusted Dividend Yield	Mean Common Equity Cost Rate (1)	High Common Equity Cost Rate (1)
Agilent Technologies	0.69 %	13.50 %	11.00 %	11.66 %	12.05 %	0.77 %	12.82 %	14.28 %
AbbVie Inc.	3.98	2.00	5.00	(4.25)	3.50	4.12	7.62	9.18
AmerisourceBergen	1.15	8.50	8.90	7.95	8.45	1.25	9.70	10.15
Abbott Labs.	1.87	4.50	5.10	(2.70)	4.80	1.96	6.76	7.07
Assurant Inc.	2.23	10.50	11.40	11.40	11.10	2.48	13.58	13.88
Smith (A.O.)	1.76	9.50	9.00	8.00	8.83	1.92	10.75	11.43
Air Products & Chem.	2.47	10.50	9.50	9.38	9.79	2.71	12.50	13.23
AutoZone Inc.	-	13.00	12.50	9.95	11.82	-	NA	NA
Booz Allen Hamilton	1.99	8.00	10.20	9.75	9.32	2.18	11.50	12.39
Becton, Dickinson	1.44	5.00	10.10	9.85	8.32	1.56	9.88	11.69
Broadridge Fin'l	1.94	8.50	NA	11.80	10.15	2.14	12.29	13.97
CACI Int'l	-	7.00	8.00	6.70	7.23	-	NA	NA
Casey's Gen'l Stores	0.75	8.50	NA	11.04	9.77	0.82	10.59	11.87
Chemed Corp.	0.28	6.50	8.80	8.80	8.03	0.30	8.33	9.10
Check Point Software	-	9.50	7.30	6.39	7.73	-	NA	NA
CSG Systems Int'l	2.23	15.50	NA	6.30	10.90	2.47	13.37	18.08
CSW Industrials	0.56	11.50	NA	12.00	11.75	0.63	12.38	12.63
Quest Diagnostics	2.09	4.00	NA	(0.47)	4.00	2.17	6.17	6.17
Exponent, Inc.	1.14	12.00	NA	15.00	13.50	1.29	14.79	16.31
Fastenal Co.	2.58	6.50	9.00	6.33	7.28	2.77	10.05	11.81
Franklin Electric	0.98	10.50	12.00	13.40	11.97	1.10	13.07	14.51
Alphabet Inc.	-	10.50	14.50	17.59	14.20	-	NA	NA
Henry (Jack) & Assoc	1.35	7.00	7.30	7.30	7.20	1.45	8.65	8.75
L3Harris Technologie	2.41	19.50	2.60	1.14	7.75	2.60	10.35	22.38
Lockheed Martin	2.61	7.00	6.20	10.89	8.03	2.82	10.85	13.78
Landstar System	0.68	2.50	12.00	12.00	8.83	0.74	9.57	12.76
McKesson Corp.	0.57	9.00	10.80	11.22	10.34	0.63	10.97	11.85
McCormick & Co.	1.78	4.50	7.50	8.10	6.70	1.90	8.60	10.02
Monster Beverage	-	11.00	22.90	25.54	19.81	-	NA	NA
Altria Group	8.19	6.00	4.00	4.47	4.82	8.58	13.40	14.68
MSC Industrial Direc	3.47	5.00	NA	9.12	7.06	3.71	10.77	12.91
NewMarket Corp.	2.31	(0.50)	NA	7.70	7.70	2.49	10.19	10.19
Oracle Corp.	1.63	10.00	8.00	11.46	9.82	1.79	11.61	13.28
O'Reilly Automotive	-	12.00	13.20	11.20	12.13	-	NA	NA
OSI Systems	-	10.50	11.00	8.00	9.83	-	NA	NA
Pfizer, Inc.	4.27	2.00	9.00	(15.49)	5.50	4.50	10.00	13.65
Progressive Corp.	0.30	12.00	25.10	26.80	21.30	0.36	NMF	NMF
Service Corp. Int'l	1.62	5.00	8.20	12.00	8.40	1.76	10.16	13.81
Stepan Company	1.58	7.50	NA	4.40	5.95	1.67	7.62	9.20
Selective Ins. Group	1.20	15.00	19.30	13.40	15.90	1.39	NMF	20.73
Sirius XM Holdings	2.66	28.50	7.10	6.36	13.99	3.03	17.02	NMF
UniFirst Corp.	0.75	9.00	NA	10.00	9.50	0.82	10.32	10.83
VeriSign Inc.	-	13.00	NA	8.00	10.50	-	NA	NA
Waters Corp.	-	10.00	7.50	7.66	8.39	-	NA	NA
Watsco, Inc.	2.92	12.00	NA	4.42	8.21	3.16	11.37	15.27
Western Union	8.11	(0.50)	NA	0.31	0.31	8.14	8.45	8.45
						Mean	10.74 %	12.58 %
						Median	10.59 %	12.63 %
						Average of Mean and Median	10.67 %	12.61 %
						Indicated DCF Result	11.64%	

NA= Not Available
NMF= Not Meaningful Figure

(1) The applications of the NM DCF model to the domestic, non-price regulated comparable risk companies is identical to the applications of the NM DCF to the Utility Proxy Group.

Source of Information: Value Line Investment Survey
www.zacks.com Downloaded on 07/14/2023
www.yahoo.com Downloaded on 07/14/2023

New Mexico Gas Company
Indicated Common Equity Cost Rate
Through Use of a Risk Premium Model
Using an Adjusted Total Market Approach

<u>Line No.</u>		<u>Proxy Group of Forty- Six Non-Price Regulated Companies</u>
1.	Prospective Yield on Baa2 Rated Corporate Bonds (1)	5.73 %
2.	Adjustment to Reflect Bond rating Difference of Non-Price Regulated Companies (2)	(0.17)
3.	Adjusted Bond Yield Applicable to the Non-Price Regulated Proxy Group	5.56 %
4.	Equity Risk Premium (3)	7.54
5.	Risk Premium Derived Common Equity Cost Rate	13.10 %

Notes: (1) Average forecast of Baa2 corporate bonds based upon the consensus of nearly 50 economists reported in Blue Chip Financial Forecasts dated June 1, 2023 and June 30, 2023 (see pages 10 and 11 of Schedule DWD-4. The estimates are detailed below.

Third Quarter 2023	5.90 %
Fourth Quarter 2023	5.90
First Quarter 2024	5.70
Second Quarter 2024	5.60
Third Quarter 2024	5.60
Fourth Quarter 2024	5.50
2025-2029	5.70
2030-2034	5.90
Average	5.73 %

(2) The average yield spread of Baa rated corporate bonds over A corporate bonds for the three months ending June 2023. To reflect the Baa1 average rating of the non-utility proxy group, the prospective yield on Baa corporate bonds must be adjusted by 1/3 of the spread between A and Baa corporate bond yields as shown below:

	A Corp. Bond Yield		Baa Corp. Bond Yield		Spread
Jun-23	5.24 %	%	5.75	%	0.51 %
May-23	5.24		5.77		0.53
Apr-23	5.02		5.53		0.51
	Average yield spread				0.52 %
	1/3 of spread				0.17 %

(3) From page 6 of this Schedule.

New Mexico Gas Company
Comparison of Long-Term Issuer Ratings for the
Proxy Group of Forty-Six Non-Price Regulated Companies of Comparable risk to the
Proxy Group of Six Natural Gas Distribution Companies

Proxy Group of Forty-Six Non-Price Regulated Companies	Moody's Long-Term Issuer Rating July 2023	Numerical Weighting (1)	Standard & Poor's Long-Term Issuer Rating July 2023	Numerical Weighting (1)
	Long-Term Issuer Rating		Long-Term Issuer Rating	
Agilent Technologies	Baa1	8.0	BBB+	8.0
AbbVie Inc.	Baa1	8.0	BBB+	8.0
AmerisourceBergen	Baa2	9.0	BBB+	8.0
Abbott Labs.	Aa3	4.0	AA-	4.0
Assurant Inc.	Baa2	9.0	BBB	9.0
Smith (A.O.)	NA	--	NA	--
Air Products & Chem.	A2	6.0	A	6.0
AutoZone Inc.	Baa1	8.0	BBB	9.0
Booz Allen Hamilton	NA	--	NA	--
Becton, Dickinson	Baa2	9.0	BBB	9.0
Broadridge Fin'l	Baa2	9.0	BBB	9.0
CACI Int'l	NA	--	BB+	11.0
Casey's Gen'l Stores	NA	--	NA	--
Chemed Corp.	WR	--	NR	--
Check Point Software	NA	--	NA	--
CSG Systems Int'l	NA	--	BB+	11.0
CSW Industrials	NA	--	NA	--
Quest Diagnostics	Baa2	9.0	BBB+	8.0
Exponent, Inc.	NA	--	NA	--
Fastenal Co.	NA	--	NA	--
Franklin Electric	NA	--	NA	--
Alphabet Inc.	Aa2	3.0	AA+	2.0
Henry (Jack) & Assoc	NA	--	NA	--
L3Harris Technologie	Baa2	9.0	BBB	9.0
Lockheed Martin	A3	7.0	A-	7.0
Landstar System	NA	--	NA	--
McKesson Corp.	Baa1	8.0	BBB+	8.0
McCormick & Co.	Baa2	9.0	BBB	9.0
Monster Beverage	NA	--	NA	--
Altria Group	A3	7.0	BBB	9.0
MSC Industrial Direc	NA	--	NA	--
NewMarket Corp.	Baa2	9.0	BBB+	8.0
Oracle Corp.	Baa2	9.0	BBB	9.0
O'Reilly Automotive	Baa1	8.0	BBB	9.0
OSI Systems	NA	--	NA	--
Pfizer, Inc.	A1	5.0	A+	5.0
Progressive Corp.	A2	6.0	A	6.0
Service Corp. Int'l	Ba3	13.0	BB+	11.0
Stepan Company	NA	--	NA	--
Selective Ins. Group	Baa2	9.0	BBB	9.0
Sirius XM Holdings	NA	--	NA	--
UniFirst Corp.	NA	--	NA	--
VeriSign Inc.	Baa3	10.0	BBB	9.0
Waters Corp.	NA	--	NA	--
Watsco, Inc.	NA	--	NA	--
Western Union	Baa2	9.0	BBB	9.0
Average	Baa1	8.0	BBB+	8.1

Notes:
(1) From page 6 of Schedule DWD-4.

Source of Information:
Bloomberg Professional Services

New Mexico Gas Company
Derivation of Equity Risk Premium Based on the Total Market Approach
Using the Beta for
Proxy Group of Forty-Six Non-Price Regulated Companies of Comparable risk to the
Proxy Group of Six Natural Gas Distribution Companies

<u>Line No.</u>	<u>Equity Risk Premium Measure</u>	<u>Proxy Group of Forty-Six Non-Price Regulated Companies</u>
1.	Kroll Equity Risk Premium (1)	5.82 %
2.	Regression on Kroll Risk Premium Data (2)	7.46
3.	Kroll Equity Risk Premium based on PRPM (3)	8.70
4.	Equity Risk Premium Based on <u>Value Line</u> Summary and Index (4)	10.56
5	Equity Risk Premium Based on <u>Value Line</u> S&P 500 Companies (5)	9.39
6.	Equity Risk Premium Based on Bloomberg S&P 500 Companies (6)	<u>11.29</u>
7.	Conclusion of Equity Risk Premium	8.87 %
8.	Adjusted Beta (7)	<u>0.85</u>
9.	Forecasted Equity Risk Premium	<u><u>7.54 %</u></u>

Notes:

- (1) From note 1 of page 9 of Schedule DWD-4.
- (2) From note 2 of page 9 of Schedule DWD-4.
- (3) From note 3 of page 9 of Schedule DWD-4.
- (4) From note 4 of page 9 of Schedule DWD-4.
- (5) From note 5 of page 9 of Schedule DWD-4.
- (6) From note 6 of page 9 of Schedule DWD-4.
- (7) Average of mean and median beta from page 7 of this Schedule.

Sources of Information:

Stocks, Bonds, Bills, and Inflation - 2023 SBBI Yearbook, Kroll
Value Line Summary and Index
Blue Chip Financial Forecasts, June 1, 2023 and June 30, 2023
Bloomberg Professional Services

New Mexico Gas Company
Traditional CAPM and ECAPM Results for the Proxy Groups of Non-Price-Regulated Companies Comparable in Total Risk to the
Proxy Group of Six Natural Gas Distribution Companies

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Proxy Group of Forty-Six Non-Price Regulated Companies	Value Line Adjusted Beta	Bloomberg Beta	Average Beta	Market Risk Premium (1)	Risk-Free Rate (2)	Traditional CAPM Cost Rate	ECAPM Cost Rate	Indicated Common Equity Cost Rate (3)
Agilent Technologies	0.95	1.06	1.01	9.87 %	3.85 %	13.82 %	13.80 %	13.81 %
AbbVie Inc.	0.85	0.63	0.74	9.87	3.85	11.16	11.80	11.48
AmerisourceBergen	0.80	0.74	0.77	9.87	3.85	11.45	12.02	11.74
Abbott Labs.	0.90	0.84	0.87	9.87	3.85	12.44	12.76	12.60
Assurant Inc.	0.90	0.77	0.83	9.87	3.85	12.05	12.47	12.26
Smith (A.O.)	0.90	1.04	0.97	9.87	3.85	13.43	13.50	13.47
Air Products & Chem.	0.90	0.86	0.88	9.87	3.85	12.54	12.84	12.69
AutoZone Inc.	0.95	0.85	0.90	9.87	3.85	12.74	12.98	12.86
Booz Allen Hamilton	0.85	0.78	0.82	9.87	3.85	11.95	12.39	12.17
Becton, Dickinson	0.75	0.74	0.74	9.87	3.85	11.16	11.80	11.48
Broadridge Fin'l	0.90	1.01	0.96	9.87	3.85	13.33	13.43	13.38
CACI Int'l	0.90	0.75	0.83	9.87	3.85	12.05	12.47	12.26
Casey's Gen'l Stores	0.90	0.79	0.84	9.87	3.85	12.14	12.54	12.34
Chemed Corp.	0.80	0.67	0.73	9.87	3.85	11.06	11.73	11.39
Check Point Software	0.75	0.75	0.75	9.87	3.85	11.26	11.87	11.56
CSG Systems Int'l	0.75	0.84	0.79	9.87	3.85	11.65	12.17	11.91
CSW Industrials	0.90	0.78	0.84	9.87	3.85	12.14	12.54	12.34
Quest Diagnostics	0.80	0.72	0.76	9.87	3.85	11.35	11.95	11.65
Exponent, Inc.	0.95	0.99	0.97	9.87	3.85	13.43	13.50	13.47
Fastenal Co.	0.90	0.99	0.94	9.87	3.85	13.13	13.28	13.21
Franklin Electric	0.90	0.96	0.93	9.87	3.85	13.03	13.21	13.12
Alphabet Inc.	0.95	1.13	1.04	9.87	3.85	14.12	14.02	NMF
Henry (Jack) & Assoc	0.85	0.78	0.81	9.87	3.85	11.85	12.32	12.08
L3Harris Technologie	0.90	0.82	0.86	9.87	3.85	12.34	12.69	12.52
Lockheed Martin	0.90	0.66	0.78	9.87	3.85	11.55	12.10	11.82
Landstar System	0.80	0.82	0.81	9.87	3.85	11.85	12.32	12.08
McKesson Corp.	0.85	0.69	0.77	9.87	3.85	11.45	12.02	11.74
McCormick & Co.	0.80	0.73	0.76	9.87	3.85	11.35	11.95	11.65
Monster Beverage	0.85	0.73	0.79	9.87	3.85	11.65	12.17	11.91
Altria Group	0.85	0.59	0.72	9.87	3.85	10.96	11.65	11.31
MSC Industrial Direc	0.95	0.86	0.90	9.87	3.85	12.74	12.98	12.86
NewMarket Corp.	0.75	0.63	0.69	9.87	3.85	10.66	11.43	11.05
Oracle Corp.	0.85	1.05	0.95	9.87	3.85	13.23	13.35	13.29
O'Reilly Automotive	0.90	0.83	0.86	9.87	3.85	12.34	12.69	12.52
OSI Systems	0.90	0.86	0.88	9.87	3.85	12.54	12.84	12.69
Pfizer, Inc.	0.80	0.71	0.76	9.87	3.85	11.35	11.95	11.65
Progressive Corp.	0.75	0.72	0.74	9.87	3.85	11.16	11.80	11.48
Service Corp. Int'l	0.90	0.76	0.83	9.87	3.85	12.05	12.47	12.26
Stepan Company	0.80	0.89	0.85	9.87	3.85	12.24	12.61	12.43
Selective Ins. Group	0.85	0.69	0.77	9.87	3.85	11.45	12.02	11.74
Sirius XM Holdings	0.90	0.84	0.87	9.87	3.85	12.44	12.76	12.60
UniFirst Corp.	0.90	0.79	0.84	9.87	3.85	12.14	12.54	12.34
VeriSign Inc.	0.95	1.11	1.03	9.87	3.85	14.02	13.95	NMF
Waters Corp.	0.95	0.98	0.96	9.87	3.85	13.33	13.43	13.38
Watsco, Inc.	0.90	1.08	0.99	9.87	3.85	13.63	13.65	13.64
Western Union	0.80	0.83	0.82	9.87	3.85	11.95	12.39	12.17
		Mean	<u>0.85</u>			<u>12.21 %</u>	<u>12.59 %</u>	<u>12.33 %</u>
		Median	<u>0.84</u>			<u>12.10 %</u>	<u>12.50 %</u>	<u>12.26 %</u>
		Average of Mean and Median	<u>0.85</u>			<u>12.16 %</u>	<u>12.55 %</u>	<u>12.30 %</u>

NMF= Not Meaningful Figure

Notes:

- (1) From note 1 of page 2 of Schedule DWD-5.
- (2) From note 2 of page 2 of Schedule DWD-5.
- (3) Average of CAPM and ECAPM cost rates.

New Mexico Gas Company
Derivation of Investment Risk Adjustment Based upon
Kroll Associates' Size Premia for the Decile Portfolios of the NYSE/AMEX/NASDAQ

Line No.	[1] Market Capitalization on July 14, 2023 (1) (millions)	[2] Applicable Decile of the NYSE/AMEX/ NASDAQ (2)	[3] Applicable Size Premium (3)	[4] Spread from Applicable Size Premium (4)
1.	\$ 881.450	7	1.37%	
2.	\$ 4,331.038	4.9 x	0.58%	0.79%
		[A]	[C]	[D]
		Market Capitalization of Smallest Company (millions)	Market Capitalization of Largest Company (millions)	Size Premium (Return in Excess of CAPM)*
	Largest	1 \$ 31,549,077	\$ 2,203,381,286	-0.26%
		2 12,372,885	31,316,513	0.45%
		3 5,918,981	12,323,854	0.57%
		4 3,770,176	5,916,017	0.58%
		5 2,365,425	3,769,877	0.93%
		6 1,389,851	2,365,076	1.16%
		7 789,019	1,389,118	1.37%
		8 377,076	782,383	1.18%
		9 218,389	373,879	2.15%
	Smallest	10 2015	218,227	4.83%

Notes:

- (1) From page 2 of this Schedule.
- (2) Gleaned from Columns [B] and [C] on the bottom of this page. The appropriate decile (Column [A]) corresponds to the market capitalization of the proxy group, which is found in Column [1].
- (3) Corresponding risk premium to the decile is provided in Column [D] on the bottom of this page.
- (4) Line No. 1 Column [3] - Line No. 2 Column [3]. For example, the 0.79% in Column [4], Line No. 2 (a) is derived as follows 0.79% = 1.37% - 0.58%.

*From 2023 Kroll Cost of Capital Navigator

New Mexico Gas Company
Market Capitalization of New Mexico Gas Company and the
Proxy Group of Six Natural Gas Distribution Companies

[1] Company	[2] Exchange	[3] Common Stock Shares Outstanding at Fiscal Year End 2022 (millions)	[4] Book Value per Share at Fiscal Year End 2022 (1)	[5] Total Common Equity at Fiscal Year End 2022 (millions)	[6] Closing Stock Market Price on July 14, 2023	[7] Market-to- Book Ratio on July 14, 2023 (2)	[8] Market Capitalization on July 14, 2023 (3) (millions)
New Mexico Gas Company		NA	NA	515,468 (4)	NA		
Based upon Proxy Group of Six Natural Gas Distribution Companies						171.0 (5)	\$ 881,450 (6)
Proxy Group of Six Natural Gas Distribution Companies							
Atmos Energy Corporation	NYSE	140,897	\$ 66.851	\$ 9,419,091	\$ 119,440	178.7 %	\$ 16,828,690
New Jersey Resources Corporation	NYSE	96,250	18,880	1,817,210	46,170	244.5	4,443,856
NiSource Inc.	NYSE	412,143	14,143	5,828,800	27,940	197.6	11,515,264
Northwest Natural Holding Company	NYSE	35,525	33,088	1,175,441	43,300	130.9	1,538,233
ONE Gas, Inc.	NYSE	55,350	46,692	2,584,426	76,210	163.2	4,218,220
Spire Inc.	NYSE	52,495	53,691	2,818,500	63,030	117.4	3,308,731
Median		75,800	\$ 39,890	\$ 2,701,463	\$ 54,600	171.0 %	\$ 4,331,038

NA= Not Available

Notes: (1) Column 3 / Column 1.

(2) Column 4 / Column 2.

(3) Column 1 * Column 4.

(4) Requested rate base multiplied by the requested common equity ratio.

(5) The market-to-book ratio of New Mexico Gas Company on July 14, 2023 is assumed to be equal to the market-to-book ratio of Proxy Group of Six Natural Gas Distribution Companies on July 14, 2023 as appropriate.

(6) Column [3] multiplied by Column [5].

Source of Information: 2022 Annual Forms 10K

yahoo.finance.com

Bloomberg Professional Services

New Mexico Gas Company
 Derivation of the Flotation Cost Adjustment to the Cost of Common Equity

Date	Equity Issuances (Company Provided)										Flotation Cost Percentage (6)
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	
	Shares Issued (1)	Market Price per Share (1)	Average Offering Price per Share (1)	Underwriting Discount (1)	Total Offering Expense per Share (1)	Net Proceeds per Share (2)	Total Flotation Costs (3)	Gross Equity Issue before Costs (4)	Net Proceeds (5)		
At-The-Market 2022	4,072,469	NA	61.310	NA	\$ 0.491	\$ 60.90	\$ 2,000,000	\$ 250,000,000	\$ 248,000,000	0.80%	
At-The-Market 2021	4,987,123	NA	57.630	NA	\$ 0.602	\$ 56.95	\$ 3,000,000	\$ 287,000,000	\$ 284,000,000	1.05%	
At-The-Market 2020	4,544,025	NA	56.040	NA	\$ 0.880	\$ 55.24	\$ 4,000,000	\$ 255,000,000	\$ 251,000,000	1.57%	
At-The-Market 2019	1,768,120	NA	56.56	NA	\$ 0.735	\$ 55.82	\$ 1,300,000	\$ 100,000,000	\$ 98,700,000	1.30%	
12/18/2017	14,614,000	47.980	47.900	1.916	\$ 0.031	\$ 45.95	\$ 29,619,544	\$ 701,179,720	\$ 671,560,176	4.22%	
12/8/2016	7,624,500	44.260	45.250	1.810	\$ 0.059	\$ 43.38	\$ 6,702,090	\$ 337,460,370	\$ 330,758,280	1.99%	
Total Public Issuances							\$ 46,621,634	\$ 1,930,640,090	\$ 1,884,018,456	2.41%	
	[11]	[13]	[14]	[15]	[16]						
	Average Projected Growth Rate (7)	Adjusted Dividend Yield (8)	Average DCF Cost Rate Unadjusted for Flotation (9)	DCF Cost Rate Adjusted for Flotation (10)	Flotation Cost Adjustment (11)						
Proxy Group of Six Natural Gas Companies	3.56 %	3.67 %	9.80 %	9.89 %	0.09 %						

- Notes:
- (1) From Company prospectuses or annual filings.
 - (2) Column [3] - Column [4] - Column [5].
 - (3) (Column [2] - Column [6]) x Column [1].
 - (4) Column [1] x Column [2].
 - (5) Column [1] x Column [6].
 - (6) Column [7] / Column [8].
 - (7) From Schedule DWD-3.
 - (8) Column [11] x (1 + 0.5 x Column [12]).
 - (9) Column [12] + Column [13].
 - (10) (Column [13] / (1 - Column [10])) + Column [12].
 - (11) Column [15] - Column [14].

BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION

**IN THE MATTER OF THE APPLICATION)
OF NEW MEXICO GAS COMPANY, INC.)
FOR APPROVAL OF REVISIONS TO ITS)
RATES, RULES, AND CHARGES PURSUANT)
TO ADVICE NOTICE NO. 96)
NEW MEXICO GAS COMPANY, INC.)
Applicant.)**

Case No. 23-00255-UT

ELECTRONICALLY SUBMITTED AFFIRMATION OF DYLAN W. D’ASCENDIS

STATE OF NEW MEXICO)
)ss.
COUNTY OF BERNALILLO)

In accordance with 1.2.2.10(E) NMAC, Dylan W. D’Ascendis, Consultant for New Mexico Gas Company, Inc., upon being duly sworn according to law, under oath, deposes and states under penalty of perjury under the laws of the State of New Mexico: I have read the foregoing Direct Testimony and Exhibits, and they are true and accurate based on my personal knowledge and belief.

SIGNED this 14th day of September 2023.

/s/ Dylan W. D’Ascendis
Dylan W. D’Ascendis
Consultant for New Mexico
Gas Company, Inc.