BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

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| --- | --- |
| In re: Water and wastewater industry annual reestablishment of authorized range of return on common equity for water and wastewater utilities pursuant to Section 367.081(4)(f), F.S. | DOCKET NO. 20240006-WS  ORDER NO. PSC-2024-0165-PAA-WS  ISSUED: May 22, 2024 |

The following Commissioners participated in the disposition of this matter:

MIKE LA ROSA, Chairman

ART GRAHAM

GARY F. CLARK

ANDREW GILES FAY

GABRIELLA PASSIDOMO

NOTICE OF PROPOSED AGENCY ACTION

ORDER ESTABLISHING AUTHORIZED RANGE OF RETURN ON

COMMON EQUITY FOR WATER AND WASTEWATER UTILITIES

BY THE COMMISSION:

NOTICE is hereby given by the Florida Public Service Commission that the action discussed herein is preliminary in nature and will become final unless a person whose interests are substantially affected files a petition for a formal proceeding, pursuant to Rule 25-22.029, Florida Administrative Code (F.A.C.).

Background

Section 367.081(4)(f), Florida Statutes (F.S.), authorizes us to establish, not less than once each year, a leverage formula to calculate a reasonable range of returns on equity (ROE) for water and wastewater (WAW) utilities. The original version of the current leverage formula methodology was established in Order No. PSC-2001-2514-FOF-WS.[[1]](#footnote-1) On October 23, 2008, we held a formal hearing in Docket No. 20080006-WS to allow interested parties to provide testimony regarding the validity of the leverage formula.[[2]](#footnote-2) Based on the record in that proceeding, we approved the 2008 leverage formula in Order No. PSC-2008-0846-FOF-WS.[[3]](#footnote-3) In that order, we reaffirmed the methodology that was previously approved in Order No. PSC-2001-2514-FOF-WS.[[4]](#footnote-4)

From 2012 through 2017, we found that the range of returns on equity derived from the annual leverage formulas were not optimal for determining the appropriate authorized ROE for WAW utilities due to Federal Reserve monetary policies that resulted in historically low interest rates. Consequently, we decided it was reasonable to continue using the range of returns on equity of 8.74 percent to 11.16 percent from the 2011 leverage formula approved by Order No. PSC-2011-0287-PAA-WS until 2018.[[5]](#footnote-5)

On November 8, 2017, Commission staff held a workshop to solicit input from interested persons regarding potential changes to the current leverage formula methodology. The only stakeholders that filed comments in the docket were the Office of Public Counsel (OPC) and Utilities, Inc. of Florida (UIF). OPC also filed post-workshop comments on January 31, 2018. On June 26, 2018, we approved the current leverage formula by Order No. PSC-2018-0327-PAA-WS.[[6]](#footnote-6) The June 2018 Order provided necessary and timely updates to the leverage formula methodology.

Section 367.081(4)(f), F.S., authorizes us to establish a range of returns for setting the authorized ROE for WAW utilities. However, use of the leverage formula by the utilities is discretionary and a utility can file cost of equity testimony in lieu of using the leverage formula. We may set an ROE for WAW utilities based on record evidence in any proceeding. If a utility files cost of equity testimony, we will determine the appropriate ROE based on the evidentiary record in that proceeding.

We have jurisdiction pursuant to Section 367.081, F.S.

Decision

Methodology

In the instant docket, we updated the current leverage formula using the most recent financial data applied to the methodology approved in Order No. PSC-2001-2514-FOF-WS, reaffirmed in Order No. PSC-2008-0846-FOF-WS and modified in Order No. PSC-2018-0327-PAA-WS. The methodology uses ROEs derived from widely accepted financial models applied to an index of natural gas and WAW companies that have actively traded stock and forecasted financial data. To establish the proxy group, we selected five natural gas companies and six WAW companies that derive at least 50 percent of their total revenue from regulated operations and have a Standard and Poor’s (S&P) credit rating. These selected companies have market power and are influenced significantly by economic regulation and have an average S&P bond rating of ‘A’.

Consistent with the approved methodology, we used a market capitalization weighted average for: (1) the Discounted Cash Flow model results, (2) the Beta values in the Capital Asset Pricing Model, and (3) the equity ratio of the proxy group.

Assumed Cost of Debt

We used a projected yield on Corporate Baa bonds to estimate the bond yield of an average Florida WAW utility in the calculation of the weighted average cost of capital of the proxy group. A projected yield is used because required returns are forward looking and based on projections.

Consistent with the methodology approved in Order No. PSC-2018-0327-PAA-WS, we used the average of the projected Corporate Baa rated bond yield of 5.825 percent for the upcoming four quarters as published in the April 1, 2024 Blue Chip Financial Forecast (Blue Chip). We then added the 120-month historical average spread of 0.117 between the Baa and A Corporate Utility Bond yields to the projected Corporate Baa rated bond yield of 5.825 percent to estimate a projected Baa3 rated utility bond yield of 5.94 percent.

We added a 50 basis point adjustment for small-company risk and a 50 basis point adjustment for a private placement premium to the projected Baa3 rated utility bond yield of 5.94 percent to reflect the risk for a typical Florida WAW utility, which resulted in a projected assumed debt cost rate of 6.94 percent.

5.825% + 0.117% + 0.50% + 0.50% = 6.94%

Estimated Cost of Equity

The current leverage formula relies on two ROE models described below. We adjusted the results of these models to reflect differences in risk and debt cost between the proxy group and the average Florida WAW utility. Both of the ROE models include an adjustment of approximately four percent for flotation costs. The ROE models are as follows:

A multistage Discounted Cash Flow (DCF) model applied to an index of natural gas and WAW utilities that have publicly traded stock and are followed by Value Line. This DCF model is an annually compounded model and uses prospective dividend growth rates as published by Value Line.

A Capital Asset Pricing Model (CAPM) that relies on a market return for companies followed by Value Line, the average projected yield on the U.S. Treasury’s 30-year bonds as of April 1, 2024, published by Blue Chip, and the weighted average beta for the index of natural gas and WAW utilities. The market return for the CAPM was calculated using a quarterly DCF model with stock prices as of April 8, 2024. Consistent with our approved methodology since 2001, the CAPM result was adjusted upward by 20 basis points to reflect flotation cost of approximately four percent.

Consistent with Order No. PSC-2018-0327-PAA-WS, we averaged the results of the DCF and CAPM models and adjusted the result of 9.04 percent as follows:

A bond yield differential of 47 basis points was added to reflect the difference in yields between an A/A2 rated bond, which is the median bond rating for the combined utility index, and a BBB-/Baa3 rated bond. Florida WAW utilities are assumed to be comparable to companies with the lowest investment grade bond rating, which is Baa3. This adjustment compensates for the difference between the credit quality of ‘A’ rated debt and the assumed lower credit quality of a typical Florida WAW utility.

A private placement premium of 50 basis points is added to reflect the difference in yields on publicly traded debt and privately placed debt, which is illiquid. Investors require a premium for the lack of liquidity of privately placed debt.

A small-utility risk premium of 50 basis points is added because the average Florida WAW utility is too small to qualify for privately placed debt and smaller companies are considered by investors to be more risky than larger companies.

After the above adjustments, the resulting cost of equity estimate of 10.51 percent is included in the weighted average capital structure of the proxy group to derive the leverage formula. The derivation resulted in an adjustment of 73 basis points to reflect an estimated required return of 11.24 percent at an equity ratio of 40 percent. Table 1 shows the components that comprise the upper range of the leverage formula.

Table 1

Adjusted Return on Equity

|  |  |
| --- | --- |
| DCF Model | 7.91% |
| CAPM | 10.17% |
| Average | 9.04% |
| Bond Yield Differential | 0.47% |
| Private Placement Premium | 0.50% |
| Small-Utility Risk Premium | 0.50% |
| Adjusted ROE Average | 10.51% |
| Adj. To Reflect Required  Equity Return at a 40% Equity Ratio | 0.73% |
| Upper Range of ROE | 11.24% |

Source: Commission staff Worksheets

Leverage Formula

The updated leverage formula is: ROE = 6.94% + (1.719 ÷ Equity Ratio)

The resulting range of returns is 8.66 percent at 100 percent equity to 11.24 percent at 40 percent equity.

Using the most recent financial data in the leverage formula increases the lower end of the current allowed ROE range by 20 basis points and increases the upper end of the range by 57 basis points. Overall, the spread between the range of returns on equity based on the updated leverage formula is 258 basis points (8.66 percent to 11.24 percent). In comparison, the range of returns on equity for the current leverage formula from 2023 is 221 basis points (8.46 percent to 10.67 percent).

In developing the updated leverage formula, we acknowledge that the leverage formula depends on four basic assumptions:

1) Business risk is similar for all WAW utilities;

2) The cost of equity is an exponential function of the equity ratio but a linear function of the debt to equity ratio over the relevant range;

3) The marginal weighted average cost of investor capital is constant over the equity ratio range of 40 percent to 100 percent; and

4) The debt cost rate at an assumed Moody’s Baa3 bond rating, plus a 50 basis point private placement premium and a 50 basis point small-utility risk premium, represents the average marginal cost of debt to an average Florida WAW utility over an equity ratio range of 40 percent to 100 percent.

For these reasons, the leverage formula is assumed to be appropriate for the average Florida WAW utility.

Based on the aforementioned, we find that the revised leverage formula methodology applied to a proxy group of natural gas and WAW utilities with updated financial data based on market-capitalization weighted averages produces a reasonable range of ROEs for WAW utilities and reflects current financial markets. As such, the following leverage formula shall be used until a new leverage formula is determined in 2025:

ROE = 6.94% + (1.719 ÷ Equity Ratio)

Where the Equity Ratio = Common Equity ÷ (Common Equity + Preferred Equity + Long-Term and Short-Term Debt).

The appropriate range of returns on equity is 8.66% at 100% equity to 11.24% at 40% equity.

Additionally, we find it appropriate to cap returns on common equity at 11.24 percent for all WAW utilities with equity ratios less than 40 percent to discourage imprudent financial risk. This cap is consistent with the methodology approved in Order No. PSC-2018-0327-PAA-WS.

Based on the foregoing, it is

ORDERED by the Florida Public Service Commission that the appropriate range of returns on common equity for water and wastewater utilities pursuant to Section 367.081(4)(f), Florida Statutes, is the leverage formula methodology approved in Order No. PSC-2018-0327-PAA-WS, using a proxy group comprised of natural gas and WAW utilities and updated financial data. Accordingly, the following leverage formula shall be used until the leverage formula is addressed again in 2025:

ROE = 6.94 + (1.719 ÷ Equity Ratio)

Where the Equity Ratio = Common Equity ÷ (Common Equity + Preferred Equity + Long-Term and Short-Term Debt)

Range: 8.66% at 100% equity to 11.24% at 40% equity

Returns on common equity shall be capped at 11.24 percent for all WAW utilities with equity ratios less than 40 percent. It is further

ORDERED that the provisions of this Order, issued as proposed agency action, shall become final and effective upon the issuance of a Consummating Order unless an appropriate petition, in the form provided by Rule 28-106.201, Florida Administrative Code, is received by the Commission Clerk, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, by the close of business on the date set forth in the “Notice of Further Proceedings” attached hereto. It is further

ORDERED that this docket shall remain open to allow us to monitor changes in capital market conditions and to readdress the reasonableness of the leverage formula as conditions warrant.

By ORDER of the Florida Public Service Commission this 22nd day of May, 2024.

|  |  |
| --- | --- |
|  | /s/ Adam J. Teitzman |
|  | ADAM J. TEITZMAN  Commission Clerk |

Florida Public Service Commission

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Copies furnished: A copy of this document is provided to the parties of record at the time of issuance and, if applicable, interested persons.

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NOTICE OF FURTHER PROCEEDINGS OR JUDICIAL REVIEW

The Florida Public Service Commission is required by Section 120.569(1), Florida Statutes, to notify parties of any administrative hearing that is available under Section 120.57, Florida Statutes, as well as the procedures and time limits that apply. This notice should not be construed to mean all requests for an administrative hearing will be granted or result in the relief sought.

Mediation may be available on a case-by-case basis. If mediation is conducted, it does not affect a substantially interested person's right to a hearing.

The action proposed herein is preliminary in nature. Any person whose substantial interests are affected by the action proposed by this order may file a petition for a formal proceeding, in the form provided by Rule 28-106.201, Florida Administrative Code. This petition must be received by the Office of Commission Clerk, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, by the close of business on June 12, 2024.

In the absence of such a petition, this order shall become final and effective upon the issuance of a Consummating Order.

Any objection or protest filed in this/these docket(s) before the issuance date of this order is considered abandoned unless it satisfies the foregoing conditions and is renewed within the specified protest period.

**SUMMARY OF RESULTS**

**2024 Water and Wastewater Leverage Formula**

|  |  |
| --- | --- |
|  | Updated |
|  | Results |
| (1) DCF ROE for Proxy Group | 7.91% |
| (2) CAPM ROE for Proxy Group | 10.17% |
| AVERAGE | 9.04% |
| Bond Yield Differential | 0.47% |
| Private Placement Premium | 0.50% |
| Small-Utility Risk Premium | 0.50% |
| Adjustment to Reflect Required Equity  Return at a 40% Equity Ratio | 0.73% |
|  |  |
| Cost of Equity for Average Florida  WAW Utility at 40% Equity Ratio | 11.24% |

2024 Leverage Formula (Updated Results)

Return on Common Equity = 6.94% + (1.719 ÷ Equity Ratio)

Range of Returns on Equity = 8.66% to 11.24%

**Marginal Cost of Investor Capital**

**Average Water and Wastewater Utility**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Weighted |
|  |  | Marginal | Marginal |
| Capital Component | Ratio | Cost Rate | Cost Rate |
|  |  |  |  |
| Common Equity | 48.15% | 10.51% | 5.06% |
| Total Debt | 51.85% | 6.94%\* | 3.60% |
|  | 100.00% |  | 8.66% |

A 40% equity ratio is the floor for calculating the required return on common equity.

The return on equity at a 40% equity ratio: 6.94% + (1.719 ÷ 0.40) = 11.24%

**Marginal Cost of Investor Capital**

**Average Water and Wastewater Utility at 40% Equity Ratio**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Weighted |
|  |  | Marginal | Marginal |
| Capital Component | Ratio | Cost Rate | Cost Rate |
|  |  |  |  |
| Common Equity | 40.00% | 11.24% | 4.50% |
| Total Debt | 60.00% | 6.94%\* | 4.16% |
|  | 100.00% |  | 8.66% |

Where: Equity Ratio = Common Equity ÷ (Common Equity + Preferred Equity + Long-Term and Short-Term Debt)

\*Assumed Baa3 rate for April 2024 plus a 50 basis point private placement premium and a 50 basis point small-utility risk premium.

Sources:

Value Line Selection and Opinion

Company 10-K Filings

**Discounted Cash Flow Model Results**

**February 26, 2024 – March 28, 2024**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | | |  | |  | | | DCF |
|  | STOCK PRICE | | | | DCF | | |  | | Weighted |
| COMPANY | High | Low | Avg. | Results | | Weight | | | Results | |
| Atmos Energy Corporation | 119.05 | 111.02 | 115.04 | 8.13% | | 22.48% | | | 1.83% | |
| NiSource, Inc. | 27.72 | 25.59 | 26.65 | 8.71% | | 13.86% | | | 1.21% | |
| Northwest Natural Holding | 38.43 | 35.40 | 36.92 | 8.35% | | 1.70% | | | 0.14% | |
| ONE Gas, Inc. | 64.68 | 57.96 | 61.32 | 7.94% | | 4.58% | | | 0.36% | |
| Spire, Inc. | 61.68 | 57.94 | 59.81 | 8.56% | | 4.31% | | | 0.37% | |
| American States Water | 74.40 | 69.98 | 72.19 | 7.37% | | 3.40% | | | 0.25% | |
| American Water Works | 122.41 | 116.38 | 119.40 | 7.57% | | 29.80% | | | 2.26% | |
| Essential Utilities, Inc. | 37.13 | 33.94 | 35.54 | 7.72% | | 12.94% | | | 1.00% | |
| California Water Services | 48.56 | 44.93 | 46.75 | 7.08% | | 3.40% | | | 0.24% | |
| Middlesex Water | 53.31 | 48.59 | 50.95 | 8.50% | | 1.18% | | | 0.10% | |
| SJW Group | 58.47 | 54.39 | 56.43 | 6.71% | | 2.35% | | | 0.16% | |
|  | **Average Weighted DCF Result:** | | | | | | | | **7.91%** | |

The ROE of 7.91% represents the expected cost of equity required to match the average stock price, less four percent for flotation costs, with the present value of expected cash flows.

Sources:

Stock prices obtained from Yahoo Finance for the period February 26, 2024 through March 28, 2024.

Natural Gas company dividends, earnings, and ROE obtained from Value Line Ratings & Reports issued February 23, 2024.

Water and Wastewater company dividends, earnings, and ROE obtained from Value Line Ratings & Reports issued April 5, 2024.

**Capital Asset Pricing Model Cost of Equity for**

**Water and Wastewater Industry**

CAPM analysis formula

K = RF + Beta (MR − RF) + 0.20%

K = Investor’s required rate of return

RF = Risk-free rate

(April 2024 Blue Chip forecast for 30-year U.S. Treasury Bond Yield)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 3Q 2024 | 4Q 2024 | 1Q 2025 | 2Q 2025 | 3Q 2025 |
| 4.20% | 4.20% | 4.10% | 4.10% | 4.00% |

Average = 4.12%

Beta = Measure of industry-specific risk (market cap weighted average for the proxy

group of natural gas and WAW utilities)

MR = Market Return (Value Line Investment Analyzer Web Browser)

10.17% = 4.12% + 0.896 (10.65% − 4.12%) + 0.20%

Note:

We calculated the market return using a quarterly DCF model for a large number of dividend paying stocks followed by Value Line. As of April 9, 2024, the result was 10.65%. The market return is adjusted to reflect a flotation cost of three percent. We added 20 basis points to the CAPM result to reflect an assumed flotation cost of approximately two percent.

**Bond Yield for Water and Wastewater Industry**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Credit Rating | (A) | Spread | (A-) | Spread | (BBB+) | Spread | (BBB) | Spread | (BBB-) |
|  |  | 0.117 |  | 0.117 |  | 0.117 |  | 0.117 |  |
|  | |  | |  |  |  |  |  |  |
| 120-Month Avg. Spread: | | 0.117% | |  |  |  |  |  |  |
|  | |  | |  |  |  |  |  |  |
| Total Equity Bond | |  | |  |  |  |  |  |  |
| Yield Differential: | | 0.117% x 4 = 0.468% | | | |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 2Q 2024 | 3Q 2024 | 4Q 2024 | 1Q 2025 |
| Forecast Corporate Baa Bond | 5.90% | 5.80% | 5.80% | 5.80% |
|  |  |  |  |  |
| Average Forecasted Corporate |  |  |  |  |
| Baa Bond Rate: | 5.825% |  |  |  |

**Assumed Bond Yield for Baa3 Utilities: 0.117% + 5.825% = 5.942%**

|  |  |
| --- | --- |
|  | Updated |
|  | Results |
| Private Placement Premium | 0.50% |
| Small-Utility Risk Premium | 0.50% |
| Assumed Bond Yield for Baa3 Utilities | 5.94% |
| Assumed Bond Yield for Florida WAW Utilities | 6.94% |

Sources:

Value Line Selection and Opinion for the 120-Month Avg. Spread

Blue Chip Financial Forecast issued April 1, 2024

**2024 Leverage Formula Proxy Group**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | S&P |  | V/L Market |  | Equity | Value | Value Line |
|  | Bond | Regulated | Capital | Equity | Ratio | Line | Beta |
| Company | Rating | Revenue | (in millions) | Ratio | (Weighted) | Beta | (Weighted) |
| Atmos Energy Corporation | A- | 95.89% | $17,200 | 61.20% | 13.76% | 0.85 | 0.1911 |
| NiSource, Inc. | BBB+ | 67.80% | 10,600 | 41.77% | 5.79% | 0.90 | 0.1247 |
| Northwest Natural Holding | A+ | 92.63% | 1,300 | 43.52% | 0.74% | 0.85 | 0.0144 |
| One Gas, Inc. | A- | 98.92% | 3,500 | 47.56% | 2.18% | 0.85 | 0.0389 |
| Spire, Inc. | A- | 92.15% | 3,300 | 38.47% | 1.66% | 0.85 | 0.0367 |
| American States Water | A | 72.77% | 2,600 | 46.05% | 1.56% | 0.70 | 0.0238 |
| American Water Works | A | 92.16% | 22,800 | 44.20% | 13.17% | 0.95 | 0.2831 |
| Essential Utilities, Inc. | A | 86.40% | 9,900 | 45.53% | 5.89% | 1.00 | 0.1294 |
| Cal. Water Serv. Group | A+ | 97.67% | 2,600 | 53.70% | 1.82% | 0.75 | 0.0255 |
| Middlesex Water | A | 92.32% | 900 | 50.74% | 0.60% | 0.75 | 0.0088 |
| SJW Group | A- | 97.27% | 1,800 | 41.38% | 0.97% | 0.85 | 0.0200 |
|  |  |  |  |  |  |  |  |
| **Average** | **A** | **89.63%** | **$6,955** | **46.74%** | **48.15%** | **0.845** | **0.896** |

1. Order No. PSC-2001-2514-FOF-WS, issued December 24, 2001, in Docket No. 20010006-WS, *In re: Water and wastewater industry annual reestablishment of authorized range of return on common equity of water and wastewater utilities pursuant to Section 367.081(4)(f), F.S.* [↑](#footnote-ref-1)
2. At the May 20, 2008, Commission Conference, upon request of the Office of Public Counsel, we voted to set the establishment of the appropriate leverage formula directly for hearing. [↑](#footnote-ref-2)
3. Order No. PSC-2008-0846-FOF-WS, issued December 31, 2008, in Docket No. 20080006-WS, *In re: Water and wastewater industry annual reestablishment of authorized range of return on common equity for water and wastewater utilities pursuant to Section 367.081(4)(f), F.S.* [↑](#footnote-ref-3)
4. Order No. PSC-2001-2514-FOF-WS, issued December 24, 2001, in Docket No. 20010006-WS, *In re: Water and wastewater industry annual reestablishment of authorized range of return on common equity for water and wastewater utilities pursuant to Section 367.081(4)(f), F.S.* [↑](#footnote-ref-4)
5. Order No. PSC-2011-0287-PAA-WS, issued July 5, 2011, in Docket No. 20110006-WS, *In re: Water and wastewater industry annual reestablishment of authorized range of return on common equity for water and wastewater utilities pursuant to Section 367.081(4)(f), F.S.* [↑](#footnote-ref-5)
6. Order No. PSC-2018-0327-PAA-WS, issued June 26, 2018, in Docket No. 20180006-WS, *In re: Water and wastewater industry annual reestablishment of authorized range of return on common equity for water and wastewater utilities pursuant to Section 367.081(4)(f), F.S.* [↑](#footnote-ref-6)