

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

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. 20250006-WS
ORDER NO. PSC-2025-0213-PAA-WS
ISSUED: June 18, 2025

The following Commissioners participated in the disposition of this matter:

MIKE LA ROSA, Chairman
ART GRAHAM
GARY F. CLARK
ANDREW GILES FAY
GABRIELLA PASSIDOMO SMITH

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 return on equity (ROE) for water and wastewater (WAW) utilities. The original version of the current leverage formula methodology was established by Order No. PSC-2001-2514-FOF-WS.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 Based on the record in that proceeding, we approved the 2008 leverage formula by Order No. PSC-2008-0846-FOF-WS.³ In that order,

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.*

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.

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.*

we reaffirmed the methodology that was previously approved by Order No. PSC-2001-2514-FOF-WS.⁴

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 Sunshine Water Services Company (formerly Utilities, Inc. of Florida). 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.⁵ The June 2018 Order approving the current leverage formula provided necessary and timely updates to the leverage formula methodology.

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 by Order No. PSC-2001-2514-FOF-WS, reaffirmed by Order No. PSC-2008-0846-FOF-WS, and modified by 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 & 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 (DCF) model results, (2) the Beta values in the Capital Asset Pricing Model (CAPM), 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.

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)(j)*, F.S.

⁵ 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)(j)*, F.S.

Consistent with the methodology approved by Order No. PSC-2018-0327-PAA-WS, we used the average of the projected Corporate Baa rated bond yield of 6.050 percent for the upcoming four quarters as published in the May 1, 2025 Blue Chip Financial Forecast (Blue Chip). We then added the 120-month historical average spread of 0.121 percent between the Baa and A Corporate Utility Bond yields to the projected Corporate Baa rated bond yield of 6.050 percent to estimate a projected Baa3 rated utility bond yield of 6.17 percent.⁶

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 6.17 percent to reflect the risk for a typical Florida WAW utility, which resulted in a projected assumed debt cost rate of 7.17 percent.

$$6.050\% + 0.121\% + 0.50\% + 0.50\% = 7.17\%$$

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 multi-stage 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 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 May 1, 2025, 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 May 9, 2025. Consistent with the Commission's approved methodology since 2001, the CAPM result was adjusted upward by 20 basis points to reflect flotation costs.

Consistent with Order No. PSC-2018-0327-PAA-WS, we averaged the results of the DCF and CAPM models and adjusted the result of 8.60 percent as follows:

A bond yield differential of 36 basis points was added to reflect the difference in yields between an A-/A3 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.

⁶ We relied on the A and Baa/BBB rated Corporate Utility Bond yields published by Value Line's Selection & Opinion from April 2015 through March 2024 (108 months). On November 29, 2024, Value Line discontinued providing the Corporate Utility Bond yields in its Selection & Opinion publication. For April 2024 through March 2025 (12 months), we relied on the Corporate Aaa and Baa bond yields published by Blue Chip in its calculations for the 120-month historical average spread.

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 9.96 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 56 basis points to reflect an estimated required return of 10.51 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	7.25%
CAPM	9.94%
Average	8.60%
Bond Yield Differential	0.36%
Private Placement Premium	0.50%
Small-Utility Risk Premium	0.50%
Adjusted ROE Average	9.96%
Adjustment to Reflect Required Equity Return at a 40% Equity Ratio	0.56%
Upper Range of ROE	10.51%

Source: Commission Staff Worksheets

Leverage Formula

The updated leverage formula is: $ROE = 7.17\% + (1.337 \div \text{Equity Ratio})$

The resulting range of returns is 8.51 percent at 100 percent equity to 10.51 percent at 40 percent equity.

Using the most recent financial data in the leverage formula decreases the lower end of the current allowed ROE range by 15 basis points and decreases the upper end of the range by 73 basis points. Overall, the spread between the range of ROE based on the updated leverage formula is 200 basis points (8.51 percent to 10.51 percent). In comparison, the range of ROE for the 2024 leverage formula is 258 basis points (8.66 percent to 11.24 percent). The change in the range from 2024 is due to a decrease of 44 basis points in the average result of the ROE models (9.04 percent to 8.60 percent), a decrease of 11 basis points in the bond differential (47 basis points to 36 basis points), and a decrease of 17 basis points in the adjustment to reflect the required return at a 40 percent equity ratio (73 basis points to 56 basis points).

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 conditions. As such, the following leverage formula shall be used until a new leverage formula is determined in 2026:

$$\text{ROE} = 7.17\% + (1.337 \div \text{Equity Ratio})$$

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

The appropriate range of ROE is 8.51% at 100% equity to 10.51% at 40% equity.

Additionally, we find it appropriate to cap returns on common equity at 10.51 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 by 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), F.S., is the leverage formula methodology approved by 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 2026:

$$\text{ROE} = 7.17\% + (1.337 \div \text{Equity Ratio})$$

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

Range: 8.51% at 100% equity to 10.51% at 40% equity.

Returns on common equity shall be capped at 10.51 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 18th day of June, 2025.



ADAM J. TETZMAN
Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399
(850) 413-6770
www.floridapsc.com

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 July 9, 2025.

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
2025 Water and Wastewater Leverage Formula

	Updated <u>Results</u>
(1) DCF ROE for Proxy Group	7.25%
(2) CAPM ROE for Proxy Group	<u>9.94%</u>
AVERAGE	8.60%
Bond Yield Differential	0.36%
Private Placement Premium	0.50%
Small-Utility Risk Premium	0.50%
Adjustment to Reflect Required Equity Return at a 40% Equity Ratio	<u>0.56%</u>
 Cost of Equity for Average Florida WAW Utility at 40% Equity Ratio	 <u>10.51%</u>

2025 Leverage Formula (Updated Results)

Return on Common Equity = $7.17\% + (1.337 \div \text{Equity Ratio})$

Range of Returns on Equity = 8.51% to 10.51%

Marginal Cost of Investor Capital
Average Water and Wastewater Utility

<u>Capital Component</u>	<u>Ratio</u>	<u>Marginal Cost Rate</u>	<u>Weighted Marginal Cost Rate</u>
Common Equity	47.97%	9.96%	4.78%
Total Debt	<u>52.03%</u>	7.17%*	<u>3.73%</u>
	<u>100.00%</u>		<u>8.51%</u>

A 40% equity ratio is the floor for calculating the required return on common equity.
 The return on equity at a 40% equity ratio: $7.17\% + (1.337 \div 0.40) = 10.51\%$

Marginal Cost of Investor Capital
Average Water and Wastewater Utility at 40% Equity Ratio

<u>Capital Component</u>	<u>Ratio</u>	<u>Marginal Cost Rate</u>	<u>Weighted Marginal Cost Rate</u>
Common Equity	40.00%	10.51%	4.21%
Total Debt	<u>60.00%</u>	7.17%*	<u>4.30%</u>
	<u>100.00%</u>		<u>8.51%</u>

Where the Equity Ratio = $\text{Common Equity} \div (\text{Common Equity} + \text{Preferred Equity} + \text{Long-Term Debt} + \text{Short-Term Debt})$

*Assumed Baa3 rate for April 2025 plus a 50 basis point private placement premium and a 50 basis point small-utility risk premium.

Sources:

Blue Chip Financial Forecasts
 Value Line Selection & Opinion
 Company 10-K Filings

Discounted Cash Flow Model Results
April 1, 2025 – April 30, 2025

<u>COMPANY</u>	<u>STOCK PRICE</u>			<u>DCF Results</u>	<u>Weight</u>	<u>DCF</u>
	<u>High</u>	<u>Low</u>	<u>Avg.</u>			<u>Weighted Results</u>
Atmos Energy Corporation	161.49	141.59	151.54	6.97%	23.47%	1.63%
NiSource Inc.	40.73	35.64	38.19	7.69%	18.48%	1.42%
Northwest Natural Holding	44.38	38.94	41.66	7.83%	1.66%	0.13%
ONE Gas, Inc.	79.24	69.75	74.50	6.95%	4.15%	0.29%
Spire Inc.	79.81	71.28	75.55	7.26%	4.36%	0.32%
American States Water	81.52	73.80	77.66	8.01%	3.01%	0.24%
American Water Works	155.50	137.41	146.46	6.77%	28.25%	1.91%
California Water Service	51.63	46.60	49.12	8.29%	2.80%	0.23%
Essential Utilities, Inc.	41.65	36.72	39.19	7.82%	10.90%	0.85%
Middlesex Water	67.09	59.37	63.23	8.92%	1.14%	0.10%
H2O America (f/k/a SJW Group)*	57.17	49.42	53.30	6.94%	1.77%	<u>0.12%</u>

Average Weighted DCF Result: 7.25%

The ROE of 7.25% represents the expected cost of equity required to match the average stock price, less three percent for flotation costs, with the present value of expected cash flows.

*SJW Group changed its name to H2O America on May 6, 2025.

Sources:

Stock prices obtained from Yahoo Finance for the 30-day period April 1, 2025, through April 30, 2025.

Natural Gas company dividends, earnings, and ROE obtained from Value Line Ratings & Reports issued February 21, 2025.

Water and Wastewater company dividends, earnings, and ROE obtained from Value Line Ratings & Reports issued April 4, 2025.

**Capital Asset Pricing Model Cost of Equity for
Water and Wastewater Industry**

CAPM analysis formula

$$K = RF + \text{Beta} (\text{MR} - \text{RF}) + 0.20\%$$

$$K = \text{Investor's required rate of return}$$

$$\text{RF} = \text{Risk-free rate}$$

(May 2025 Blue Chip forecast for 30-year U.S. Treasury Bond Yield)

<u>3Q 2025</u>	<u>4Q 2025</u>	<u>1Q 2026</u>	<u>2Q 2026</u>	<u>3Q 2026</u>
4.50%	4.50%	4.40%	4.40%	4.40%

$$\text{Average} = 4.44\%$$

$$\text{Beta} = \text{Measure of industry-specific risk (market cap weighted average for the proxy group of natural gas and WAW utilities)}$$

$$\text{MR} = \text{Market Return (Value Line Investment Analyzer Web Browser)}$$

$$9.94\% = 4.44\% + 0.884 (10.43\% - 4.44\%) + 0.20\%$$

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 May 9, 2025, the result was 10.43%. The market return is adjusted to reflect a flotation cost of three percent for the companies included in the DCF market return calculation. We added 20 basis points to the CAPM result to reflect flotation costs for the proxy group.

Bond Yield for Water and Wastewater Industry

<u>Credit Rating</u>	(A)	<u>Spread</u>	(A-)	<u>Spread</u>	(BBB+)	<u>Spread</u>	(BBB)	<u>Spread</u>	(BBB-)
		NA		0.121		0.121		0.121	

120-Month Avg. Spread: 0.121%

Total Equity Bond

Yield Differential: $0.121\% \times 3 = 0.363\%$

	<u>2Q 2025</u>	<u>3Q 2025</u>	<u>4Q 2025</u>	<u>1Q 2026</u>
Forecast Corporate Baa Bond Yield	6.10%	6.10%	6.00%	6.00%

Average Forecasted Corporate

Baa Bond Rate: 6.050%

Assumed Bond Yield for Baa3 Utilities: $0.121\% + 6.050\% = 6.171\%$

	<u>Updated Results</u>
Private Placement Premium	0.50%
Small-Utility Risk Premium	0.50%
Assumed Bond Yield for Baa3 Utilities	<u>6.17%</u>
Assumed Bond Yield for Florida WAW Utilities	<u>7.17%</u>

Sources:

Value Line Selection & Opinion and Blue Chip Financial Forecasts (120-Month Avg. Spread)

Blue Chip Financial Forecast issued May 1, 2025 (Forecast Corporate Baa Bond Yield)

2025 Leverage Formula Proxy Group

<u>Company</u>	<u>S&P Bond Rating</u>	<u>Regulated Revenue</u>	<u>V/L Market Capital (in millions)</u>	<u>Equity Ratio</u>	<u>Equity Ratio (Weighted)</u>	<u>Value Line Beta</u>	<u>Value Line Beta (Weighted)</u>
Atmos Energy Corporation	A-	94.00%	\$22,600	60.70%	14.25%	0.90	0.2112
NiSource Inc.	BBB+	96.84%	17,800	43.32%	8.01%	0.95	0.1756
Northwest Natural Holding	A-	89.84%	1,600	42.42%	0.70%	0.90	0.0150
ONE Gas, Inc.	A-	98.19%	4,000	48.26%	2.00%	0.85	0.0353
Spire Inc.	BBB+	94.02%	4,200	40.79%	1.78%	0.90	0.0393
American States Water	A	70.10%	2,900	49.74%	1.50%	0.75	0.0226
American Water Works	A	91.05%	27,200	42.40%	11.98%	0.85	0.2401
California Water Service	A+	98.01%	2,700	54.24%	1.52%	0.85	0.0238
Essential Utilities, Inc.	A-	87.67%	10,500	44.61%	4.86%	0.90	0.0981
Middlesex Water	A	92.94%	1,100	53.62%	0.61%	0.80	0.0091
H2O America (f/k/a SJW Group)	A-	97.88%	1,700	42.76%	0.75%	0.80	0.0141
Average	A-	91.87%	\$8,755	47.53%	47.97%	0.859	0.884

Sources:
 Company 10-K Filings
 Standard & Poor's (S&P)
 Value Line Ratings & Reports