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. 170006-WS ORDER NO. PSC-17-0249-PAA-WS ISSUED: June 26, 2017

The following Commissioners participated in the disposition of this matter:

JULIE I. BROWN, Chairman ART GRAHAM RONALD A. BRISÉ JIMMY PATRONIS DONALD J. POLMANN

<u>NOTICE OF PROPOSED AGENCY ACTION</u> ORDER ESTABLISHING AUTHORIZED RANGE OF RETURNS ON COMMON EQUITY FOR WATER AND WASTEWATER UTILITIES

BY THE COMMISSION:

NOTICE is hereby given by the Florida Public Service Commission (Commission or FPSC) 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 this Commission 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 leverage formula methodology currently in use was established in Order No. PSC-01-2514-FOF-WS.¹ On October 23, 2008, this Commission held a formal hearing in Docket No. 080006-WS to allow interested parties to provide testimony regarding the validity of the leverage formula.² Based on the record in that proceeding, this Commission approved the 2008 leverage formula in Order No. PSC-08-0846-

¹Order No. PSC-01-2514-FOF-WS, issued December 24, 2001, in Docket No. 010006-WS, <u>In re: Water and</u> 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.

²At the May 20, 2008, Commission Conference, upon request of the Office of Public Counsel, this Commission voted to set the establishment of the appropriate leverage formula directly for hearing.

FOF-WS.³ In that order, this Commission reaffirmed the methodology that was previously approved in Order No. PSC-01-2514-FOF-WS.

This order continues to use the leverage formula methodology established in Order No. PSC-01-2514-FOF-WS and reaffirmed in Order No. PSC-08-0846-FOF-WS. This methodology uses ROEs derived from financial models applied to an index of natural gas utilities, as this Commission determined that there were an insufficient number of utilities that meet the requisite criteria to assemble an appropriate proxy group using only WAW utilities. Therefore, since 2001, we have used natural gas utilities as the proxy companies for the leverage formula. There are approximately 13 natural gas utilities that have actively traded stocks and forecasted financial data. We use natural gas utilities that derive at least 50 percent of their revenue from regulated rates. These utilities have market power and are influenced significantly by economic regulation. As explained below, the model results based on natural gas utilities are adjusted to reflect the risks faced by Florida WAW utilities.

This Commission approved the current leverage formula in 2011 by Order No. PSC-11-0287-PAA-WS.⁴ In 2012 through 2016 we continued to use the 2011 leverage formula for establishing the authorized ROE for WAW utilities. ^[5,6,7,8,9] In 2012 through 2016, 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, this Commission 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 docket.

Section 367.081(4)(f), F.S., authorizes this Commission to establish a range of returns for setting the authorized ROE for WAW utilities. However, use of the leverage formula by the

³Order No. PSC-08-0846-FOF-WS, issued December 31, 2008, in Docket No. 080006-WS, <u>In re: Water and</u> 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.

⁴Order No. PSC-11-0287-PAA-WS, issued July 5, 2011, in Docket No. 110006-WS, <u>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.</u>

⁵Order No. PSC-12-0339-PAA-WS, issued June 28, 2012, in Docket No. 120006-WS, <u>In re: Water and wastewater</u> 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.

pursuant to Section 367.081(4)(f), F.S. ⁶Order No. PSC-13-0241-PAA-WS, issued June 3, 2013, in Docket No. 130006-WS, <u>In re: Water and wastewater</u> 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.

⁷Order No. PSC-14-0272-PAA-WS, issued May 29, 2014, in Docket No. 140006-WS, <u>In re: Water and wastewater</u> 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.

⁸Order No. PSC-15-0259-PAA-WS, issued July 2, 2015, in Docket No. 150006-WS, <u>In re: Water and wastewater</u> industry annual reestablishment of authorized range of return on common equity for water and wastewater utilities <u>pursuant to Section 367.081(4)(f), F.S.</u>

⁹Order No. PSC-16-0254-PAA-WS, issued June 29, 2016, in Docket No. 160006-WS, <u>In re: Water and wastewater</u> 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.

utilities is discretionary and a utility can file cost of equity testimony in lieu of using the leverage formula. This Commission may set an ROE for WAW utilities based on record evidence in any proceeding. If a utility files cost of equity testimony, this Commission will determine the appropriate ROE based on the evidentiary record in that proceeding.

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

Decision

The current leverage formula approved by this Commission in Order No. PSC-16-0254-PAA-WS shall continue to be used until the leverage formula is readdressed in 2018 and a workshop shall be scheduled for the fall of 2017 to review and update, if necessary, the methodology used to determine the leverage formula. Accordingly, the leverage formula is as follows:

Return on Common Equity = $7.13\% + (1.610 \div Equity Ratio)$

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

Range: 8.74% @ 100% equity to 11.16% @ 40% equity

Additionally, we shall cap returns on common equity at 11.16 percent for all WAW utilities with equity ratios less than 40 percent. We believe this will discourage imprudent financial risk. This cap is consistent with the methodology we used in Order No. PSC-08-0846-FOF-WS.

Section 367.081(4)(f), F.S., authorizes this Commission to establish a leverage formula to calculate a reasonable range of returns on common equity for WAW utilities. We must establish this leverage formula not less than once a year. For administrative efficiency, the leverage formula is used to determine the appropriate return for an average Florida WAW utility. Traditionally, we have applied the same leverage formula to all WAW utilities. As is the case with other regulated companies under our jurisdiction, this Commission has discretion in the determination of the appropriate ROE based on the evidentiary record in any proceeding. If one or more parties file testimony in opposition to the use of the leverage formula, this Commission will determine the appropriate ROE based on the evidentiary record in that proceeding.

Methodology

The leverage formula relies on two ROE models. We adjusted the results of these models to reflect differences in risk and debt cost between the index of companies used in the models and the average Florida WAW utility. Both models include a four percent adjustment for flotation costs. The models are as follows:

- A Discounted Cash Flow (DCF) model applied to an index of natural gas utilities that have publicly traded stock and are followed by the Value Line Investment Survey (Value Line). This DCF model is an annual model and uses prospective growth rates.
- The updated index consists of five natural gas companies that derive at least 50 percent of their total revenue from gas distribution service. These companies have a median Standard and Poor's bond rating of A.
- A Capital Asset Pricing Model (CAPM) using a market return for companies followed by Value Line, the average yield on the Treasury's long-term bonds projected by the Blue Chip Financial Forecasts, and the average beta for the index of natural gas utilities. The market return for the 2017 leverage formula was calculated using a quarterly DCF model with stock prices as of April 14, 2017.

Consistent with Order No. PSC-01-2514-FOF-WS,¹⁰ we averaged the indicated returns of the above models and adjusted the result as follows:

- A bond yield differential of 62 basis points is added to reflect the difference in yields between an A/A2 rated bond, which is the median bond rating for the natural gas 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 credit quality of the minimum investment grade rating.
- 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.

After the above adjustments, the resulting cost of equity estimate is included in the average capital structure for the natural gas utilities.

Updated Leverage Formula

In the instant docket, we updated the leverage formula using the most recent 2017 financial data and our previously approved methodology.

Using the updated financial data in the leverage formula decreases the lower end of the current allowed ROE range by 104 basis points and decreases the upper end of the range by 40 basis points. Overall, the spread between the range of returns on equity based on the updated leverage formula is 306 basis points (7.70 percent to 10.76 percent). In comparison, the spread in

¹⁰Order No. PSC-01-2514-FOF-WS, issued December 24, 2001, in Docket No. 010006-WS, <u>In re: Water and</u> 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.

the range of returns on equity for the existing leverage formula is 242 basis points (8.74 percent to 11.16 percent). The 306 basis point spread reflected in the updated leverage formula is significantly greater than the 20-year average spread of 206 basis points.

The inflated ROE spread relative to the 2011 leverage formula is caused by the low bond rates resulting from the Federal Reserve's various monetary policies and quantitative easing programs. In its press release dated May 3, 2017, the Federal Reserve stated:¹¹

Consistent with its statutory mandate, the Committee seeks to foster maximum employment and price stability. The Committee views the slowing in growth during the first quarter as likely to be transitory and continues to expect that, with gradual adjustments in the stance of monetary policy, economic activity will expand at a moderate pace, labor market conditions will strengthen somewhat further, and inflation will stabilize around 2 percent over the medium term. Nearterm risks to the economic outlook appear roughly balanced. The Committee continues to closely monitor inflation indicators and global economic and financial developments.

In view of realized and expected labor market conditions and inflation, the Committee decided to maintain the target range for the federal funds rate at 3/4 to 1 percent. The stance of monetary policy remains accommodative, thereby supporting some further strengthening in labor market conditions and a sustained return to 2 percent inflation.

[...In light of the current shortfall of inflation from 2 percent,] the Committee will carefully monitor actual and [expected progress toward its inflation goal.] The Committee expects that economic conditions will evolve in a manner that will warrant only gradual increases in the federal funds rate; the federal funds rate is likely to remain, for some time, below levels that are expected to prevail in the longer run. However, the actual path of the federal funds rate will depend on the economic outlook as informed by incoming data.

The most recent assumed Baa3 bond rate of 5.66 percent used in the updated leverage formula calculation, which includes a 50 basis point adjustment for small company risk and a 50 basis point adjustment for a private placement premium, remains low relative to historic levels. In comparison, the assumed Baa3 bond rate used in the existing leverage formula is 7.13 percent.

Because interest rates are at historically low levels, thereby increasing the slope of the leverage formula relative to prior years, we find that the range of returns on equity produced from the updated leverage formula is not optimal for determining the appropriate authorized ROE for Florida WAW utilities at this time. An increase in the slope of the leverage formula means a given change in the equity ratio will result in a greater change to the cost of equity. The results of this year's leverage formula produced a slope consistent with the slopes produced by

¹¹ <u>See</u> Federal Reserve System, Statement of the Federal Open Market Committee on May 3, 2017, available at https://www.federalreserve.gov/newsevents/pressreleases/monetary20170503a.htm

financial data for 2012 through 2016. As shown below, Chart 1 illustrates the change in the slope of the leverage formula using updated data compared to the current leverage formula.



Chart 1

Source: FPSC Analysis

Chart 2 illustrates the change in the slope of the leverage formula for the seven years 2011 through 2017.



Chart 2 **Comparison of Annual Leverage Formulas since 2011**

Source: FPSC Analysis

In 2016, by Order No. PSC-16-0254-PAA-WS, issued June 29, 2016, this Commission continued to use the leverage formula initially approved in 2011. This Commission kept the 2011 leverage formula in place because Federal Reserve monetary policies lowered interest rates to historically low levels, thereby increasing the slope of the leverage formula graph relative to previous years. The Federal Reserve's monetary policies and resulting capital market conditions that existed in 2012 through 2017 are expected to continue in 2018.¹²

Conclusion

This Commission finds that the existing leverage formula range of 8.74 percent to 11.16 percent initially approved in 2011 is still reasonable for WAW utilities. We find that retaining the use of the current in-place leverage formula until the leverage formula is addressed again in 2018 is a reasonable alternative to updating the formula using current 2017 financial information.

¹²See Federal Reserve System, Statement of the Federal Open Market Committee on May 3, 2017, available at https://www.federalreserve.gov/newsevents/pressreleases/monetary20170503a.htm

We continue to find that the leverage formula is a sound, workable methodology that reduces the costs and administrative burdens in WAW rate cases by eliminating the need for cost of equity testimony. However, along with changes in market conditions, mergers and acquisitions have affected the number of natural gas companies included in the proxy group. In 2008, the leverage formula consisted of 10 natural gas companies, in comparison, only five companies currently meet the established criteria to be included in the proxy group. A workshop shall be scheduled for the fall of 2017 to evaluate and update the companies comprising the comparable group and to investigate whether or not to revise the current leverage formula.

Based on the aforementioned, we find that the current leverage formula approved by this Commission in Order No. PSC-16-0254-PAA-WS shall continue to be used until the leverage formula is readdressed in 2018 and that a workshop shall be scheduled for the fall of 2017 to review and update, if necessary, the methodology used to determine the leverage formula.

Based on the foregoing, it is

ORDERED by the Florida Public Service Commission that the current leverage formula approved by this Commission in Order No. PSC-16-0254-PAA-WS, Return on Common Equity = $7.13\% + (1.610 \div$ Equity Ratio), shall continue to be used until the leverage formula is readdressed in 2018. A workshop shall be scheduled for the fall of 2017 to review and update, if necessary, the methodology used to determine the leverage formula. It is further

ORDERED that the current range of returns on common equity of 8.74 percent to 11.16 percent is hereby approved for water and wastewater utilities as set forth in this Order. It is further

ORDERED that the returns on common equity shall be capped at 11.16 percent for all water and wastewater utilities with equity ratios less than 40 percent. It is further

ORDERED that Attachment 1 is incorporated herein by reference. 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 Commission staff 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 26th day of June, 2017.

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CARLOTTA S. STAUFFER 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 17, 2017.

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.

Attachment 1

SUMMARY OF RESULTS 2017 Water & Wastewater Leverage Formula

(A) DCF ROE for Natural Gas Index	8.25%
(B) CAPM ROE for Natural Gas Index	9.40%
AVERAGE	8.83%
Bond Yield Differential	0.57%
Private Placement Premium	0.50%
Small-Utility Risk Premium	0.50%
Adjustment to Reflect Required Equity	
Return at a 40% Equity Ratio	<u>0.76%</u>
Cost of Equity for Average Florida WAW	
Utility at a 40% Equity Ratio	<u>11.16%</u>
Authorized Formula	
Return on Common Equity =	7.13% + (1.610 ÷ Equity Ratio)
Range of Returns on Equity =	8.74% to 11.16%