COMMONWEALTH OF PENNSYLVANIA



OFFICE OF CONSUMER ADVOCATE

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November 8, 2022

Rosemary Chiavetta, Secretary Pennsylvania Public Utility Commission Commonwealth Keystone Building 400 North Street Harrisburg, PA 17120

Re: Pennsylvania Public Utility Commission

V.

The York Water Company
Docket Nos. R-2022-3031340 (Water)
R-2022-3032806 (Wastewater)

Dear Secretary Chiavetta:

Consistent with 52 Pa. Code Section 5.412a of the Commission's regulations, which requires the electronic submission of pre-served testimony, and were admitted at the evidentiary hearing on October 6, 2022. Enclosed for electronic filing please find the following Pre-Served Testimony, Exhibits and Schedules, and Verifications on behalf of the Office of Consumer Advocate ("OCA") in the above-referenced proceedings.

Office of Consumer Advocate's Direct Testimony

- OCA Statement 1 (Revised) Direct Testimony of Mark E. Garrett Appendix A, Exhibits MEG-1 through MEG-13, and Verification
- OCA Statement 2 -- Direct Testimony of Morgan N. DeAngelo Appendix A and Verification
- OCA Statement 3 Direct Testimony of David S. Habr Exhibits DSH-1 through DSH-15 and Verification
- OCA Statement 4 Direct Testimony of Jerome D. Mierzwa Schedules JDM-1 through JDM-3 and Verification
- OCA Statement 5 Direct Testimony of Barbara R. Alexander Exhibits BA-1 through BA-13 and Verification
- OCA Statement 6 Direct Testimony of Terry L. Fought Appendix A, Exhibits TLF-1 through TLF-4, and Verification

Rosemary Chiavetta, Secretary November 8, 2022 Page 2

Office of Consumer Advocate's Rebuttal Testimony

OCA Statement 3R – Rebuttal Testimony of David S. Habr and Verification

OCA Statement 4R – Rebuttal Testimony of Jerome D. Mierzwa and Verification

Office of Consumer Advocate's Surrebuttal Testimony

OCA Statement 1SR – Surrebuttal Testimony of Mark E. Garrett – Exhibits MEG-1 through MEG13 and Verification

OCA Statement 2SR -- Surrebuttal Testimony of Morgan N. DeAngelo and Verification

OCA Statement 3SR – Surrebuttal Testimony of David S. Habr and Verification

OCA Statement 4SR – Surrebuttal Testimony of Jerome D. Mierzwa – Schedules JDM-1SR through JDM-2SR and Verification

OCA Statement 5SR – Surrebuttal Testimony of Barbara R. Alexander and Verification

OCA Statement 6SR – Surrebuttal Testimony of Terry L. Fought and Verification

All testimony is accompanied by a witness verification. The OCA's submission also addresses the requirements of the Commission's January 10, 2013 Implementation Order at Docket M-2012-2331973, which requires electronic access to pre-served testimony.

All parties and the presiding officer have been served previously with the testimony and exhibits and copies have been served per the attached Certificate of Service.

Respectfully submitted,

/s/ Christy M. Appleby
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Enclosures:

cc: The Honorable Katrina L. Dunderdale (Cover Letter & Certificate of Service only – via email only)
Certificate of Service

*337452

CERTIFICATE OF SERVICE

Pennsylvania Public Utility Commission

: Docket Nos. R-2022-3031340 (Water)

v. : R-2022-3032806 (Wastewater)

:

The York Water Company :

I hereby certify that I have this day served a true copy of the following document, the Office of Consumer Advocate's Letter Re: Pre-Served Testimony, upon parties of record in this proceeding in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a participant), in the manner and upon the persons listed below:

Dated this 8th day of November 2022.

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Fax: (717) 783-7152 Dated: November 8, 2022

*337451

OCA Statement 1 (REVISED)

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission)	
v.))	Docket No. R-2022-3031340 (Water) Docket No. R-2022-3032806 (Wastewater)
The York Water Company		
)	

Direct Testimony of Mark E. Garrett

On Behalf of: Office of Consumer Advocate

August 19, 2022

REVISED SEPTEMBER 12, 2022

TABLE OF CONTENTS

Section I.	Introduction and Purpose of Testimony	3
Section II.	Overview of YWC's Request	5
Section III.	Summary of Adjustments	6
Section IV.	Expense Adjustments	8
	A. Payroll Costs B. Short Term Incentive Compensation	14
	C. Long Term Incentive Compensation	
	D. Board of Directors Compensation	
	E. Inflation Adjustment F. Cash Working Capital and Income Tax Adjustments	
Section V.	Other OCA Witnesses	42
Section VI.	Conclusion	42
Attachments		
Qualification	ns of Mark E. GarrettAppen	ıdix A
Revenue Rec	omparison of Revenue Requirement	1EG-2
	AdjustmentsOCA Exhibit MEG-4 through ME	

I. <u>INTRODUCTION AND PURPOSE OF TESTIMONY</u>

1	Q:	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
2	A:	My name is Mark Garrett. My business address is 4028 Oakdale Farm Circle, Edmond,
3		OK 73013.
4		
5	Q:	HOW ARE YOU EMPLOYED?
6	A:	I am the President of Garrett Group Consulting, Inc., a consulting firm specializing in
7		public utility regulation and litigation.
8		
9	Q:	PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND
10		PROFESSIONAL EXPERIENCE.
11	A:	I am a licensed attorney and a certified public accountant. I work as a consultant in public
12		utility regulation. I received my bachelor's degree from the University of Oklahoma and
13		completed post-graduate hours at Stephen F. Austin State University and at the University
14		of Texas at Arlington and Pan American. I received my juris doctorate degree from
15		Oklahoma City University Law School and was admitted to the Oklahoma Bar in 1997. I
16		am a Certified Public Accountant licensed in the States of Texas and Oklahoma with a
17		background in public accounting, private industry, and utility regulation.
18		In public accounting, as a staff auditor for a firm in Dallas, I primarily audited
19		financial institutions in the State of Texas. In private industry, as controller for a mid-
20		sized (\$300 million) corporation in Dallas, I managed the Company's accounting function,

including general ledger, accounts payable, financial reporting, audits, tax returns,

budgets, projections, and supervision of accounting personnel. In utility regulation, I served as an auditor in the Public Utility Division of the Oklahoma Corporation Commission from 1991 to 1995. In that position, I managed the audits of major gas and electric utility companies in Oklahoma.

Since my departure from the Oklahoma Corporation Commission, I have worked on numerous rate cases and other regulatory proceedings on behalf of various consumers, consumer groups, public utility commission staffs and offices of attorneys general. I have provided testimony before the public utility commissions in the states of Alaska, Arizona, Arkansas, Colorado, Florida, Indiana, Massachusetts, Nevada, Oklahoma, Pennsylvania, Texas, Utah, and Washington. My clients include industrial customers and groups of customers, hospitals and hospital groups, universities, municipalities, and large commercial customers. I have also testified on behalf of the commission staff in Utah and the offices of attorneys general in Oklahoma, Indiana, Washington, Nevada and Florida. I have also served as a presenter at the NARUC subcommittee on Accounting and Finance on the issue of incentive compensation, and as a regular instructor at the New Mexico State University's Center for Public Utilities course on basic utility regulation. I have attached Appendix A which contains a more complete description of my qualifications and a list of the regulatory proceedings in which I have been involved.

Q: HAVE YOUR QUALIFICATIONS BEEN ACCEPTED BY THIS COMMISSION?

A: Yes. I previously filed testimony in Philadelphia Gas Works' general rate case, Docket

No. R-2020-3017206. A description of my qualifications and a list of the proceedings in

1		which I have been involved are included at the end of my testimony as Appendix A.
2		
3	Q:	ON WHOSE BEHALF ARE YOU APPEARING IN THESE PROCEEDINGS?
4	A:	I am appearing on behalf of the Office of Consumer Advocate ("OCA"). I was retained
5		by the OCA to assist in the review and evaluation of the general rate case filing submitted
6		by The York Water Company ("York or "Company").
7		
8	Q:	WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?
9	A:	In my testimony I support several adjustments to the Company's proposed operating
10		expense levels. I also sponsor the OCA revenue requirement schedules which include the
11		adjustments recommended by other OCA witnesses.
	II.	OVERVIEW OF YORK'S REQUESTED RELIEF
12	Q:	PLEASE PROVIDE AN OVERVIEW OF THE COMPANY'S REQUEST TO
13		INCREASE WATER AND WASTEWATER RATES.
14	A:	In its current filing, York has submitted applications for its water and wastewater utilities
15		The combined rate increase for both utilities is \$20,310,530.1 This is comprised of
16		\$18,853,737 for the water utility, a 33.8% increase, ² and \$1,456,793 for the wastewater

Direct Testimony of Mark E. Garrett Docket Nos. R-2022-3031340 (Water); and Docket No. R-2022-3032806 (Wastewater)

¹ Calculated as follows: (\$18,853,737 + \$1,456,793 = \$20,310,530).

 $^{^2}$ The 33.8% increase includes the impact of the Distribution System Improvement Charge of \$2,121,928 which will be rolled into base rates. The requested increase in base rates is 35.1% (\$18,853,737 / \$53,642,460 * 100 = 35.1%).

utility, a 35.0% rate increase. These balances also reflect York's requested revenue allocation to shift \$2,670,856 of its wastewater revenue deficiency to the water utility.³

The Company is requesting water utility rate base of \$350,621,590 and a revenue requirement of \$69,825,341.⁴ It is requesting a wastewater rate base of \$33,353,950 with a revenue requirement of \$8,289,911⁵ before the revenue allocation shift. These requests are based on a requested return on equity of 11.25%, inclusive of a 25 basis point management adder, and an overall rate of return of 7.93%.⁶ The Company's projected additions of \$117,200,230 in new and replacement plant for the two utilities between December 31, 2021 and February 29, 2024⁷ is a major component of the requested increases, as well as the high return on equity.

III. SUMMARY OF ADJUSTMENTS

11 Q: PLEASE SUMMARIZE YOUR REVENUE REQUIREMENT
12 RECOMMENDATIONS.

13 A: In my testimony, I propose several adjustments to the Company's projected expense
14 levels, I incorporate the acquisition adjustment recommendations of Morgan N.
15 DeAngelo, and the cost of capital recommendations of Dr. David S. Habr. The impact on
16 the Company's requested revenue requirement is set forth below:

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³ Exhibit No. FII-2, p, 10.

⁴ Exhibit No. FV-1, pp. 3, 6.

⁵ Exhibit FV-1W, pp. 3, 6.

⁶ Direct Testimony of Paul R. Moul, p. 2.

⁷ Direct Testimony of Mark A. Wheeler, p. 17, lines 19-22 and p. 18, lines 13-16.

Table 1: Summary of OCA Adjustments		
Ţ.	Water	Wastewater
York's Requested Increase in Base Rates	\$18,853,737	\$1,456,793
OCA Adjustments		
Cash Working Capital	\$(27,488)	
Acquisition Adjustments	(6,341)	\$(46,634)
ROE 25 Basis Point Reduction ⁸	(683,661)	(63,800)
Capital Structure at 52% Equity	(1,136,823)	(106,089)
Return on Equity Adjustment	(7,944,800)	(741,415)
Payroll Expense Adjustments	(382,591)	(17,296)
Short Term Incentive Compensation	(123,754)	(5,595)
Long Term Incentive Compensation	(238,146)	(10,766)
Board of Directors' Compensation	(213,825)	N/A
Payroll Taxes	(37,287)	(1,686)
Inflation Adjustment	(1,023,307)	(298,363)
Acquisition Adjustment Amortization	(6,789)	(57,718)
Indirect Impacts (Bad Debts, Late Charges, Other Taxes)	(27,402)	(2,646)
Net OCA Adjustments	\$(11,852,215)	\$(1,352,007)
Recommended Change to Base Rates	\$7,001,522	\$104,786

Q: THE ADJUSTMENT SUMMARY ABOVE INCLUDES AN AMOUNT

- IDENTIFIED AS INDIRECT IMPACTS. PLEASE DESCIBE THIS ITEM AND
- 3 EXPLAIN WHY IT IS NOT SHOWN AS A LINE ITEM ON THE REVENUE
- 4 **REQUIREMENT EXHIBIT.**

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The line item above labeled 'Indirect Impacts' reflects the combined indirect impacts resulting from the adjustments that the OCA is proposing. These indirect impacts consist of the related late charges, bad debt expense, and the utility assessment adjustment that are required as result of the OCA's other adjustments. These items are included as a component of the revenue conversion factor in York's exhibits and on the revenue requirement schedule.

⁸ A 25-basis point increase to ROE would increase revenue requirem

⁸ A 25-basis point increase to ROE would increase revenue requirement by \$683,661 for Water and \$62,871 for Wastewater as shown on OCA Errata Exhibit MEG-3, and as discussed in the testimony of OCA witness Dr. Habr.

1 Q: WHAT TEST YEARS DID YORK USE IN THIS CASE? 2 A: York presents the following test periods in its filing: 3 The historic test year ("HTY") ended December 31, 2021 The future test year ("FTY") December 31, 2022 4 5 The fully projected future test year ("FPFTY") February 29, 2024. 6 The requested revenue requirement is based on the FPFTY ending February 29, 2024. IV. **EXPENSE ADJUSTMENTS** WHAT ADJUSTMENTS DO YOU MAKE TO THE FPFTY EXPENSE LEVELS? 7 Q: 8 A: I propose adjustments and recommendations related to the following projected operating 9 expense levels: 10 A. **Payroll Costs** 11 B. Short Term Incentive Compensation 12 C. Long Term Incentive Compensation **Board of Directors Compensation** 13 D. 14 E. Inflation Adjustment 15 Cash Working Capital and Income Tax Adjustments F. Α. PAYROLL COSTS PLEASE DISCUSS THE COMPANY'S PAYROLL COSTS REQUESTED IN THIS 16 Q: 17 APPLICATION. 18 The Company's payroll calculation begins with payroll expense levels as of the historical A:

adjustments to increase estimated payroll costs as of the Fully Projected Future Test Year

("FPFTY"). The Company's adjustments are made for both the water and wastewater

companies, but all of the Company's calculations were included in the water company

workpapers.

test year ended December 31, 2021 ("HTY"). The Company then proposes various

The Company's proposed payroll increases are based on two types of adjustments: (1) estimated pay increases for the projected year ended December 31, 2022, and again for the future test year ended February 29, 2024, and (2) the proposed addition of ten new employee positions in 2022. The estimated pay increases include escalations for union and non-union employees based on regular time pay, premium time pay, cash incentives, and stock incentives, as applicable. For purposes of this discussion, I will address payroll escalation rates, pay increases, and employee headcount in this section. I will address incentive compensation issues in subsequent sections of testimony.

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Q: DID THE COMPANY USE THE SAME ESTIMATED PAY INCREASES AND ESCALATION RATE FOR ITS UNION AND NON-UNION EMPLOYEES?

No. The Company's adjustments reflected union pay increases that are effective in May of each year and estimated non-union pay increases anticipated in October of each year. ⁹ The Company's projected 2022 pay increases for non-union employees are estimated at over twice the rate of the union employees' actual increases. ¹⁰ For 2023, the estimated increase for union employees is approximately 70% of the estimated non-union increase. ¹¹

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⁹ See York's response to OCA IV-22.

¹⁰ See Exhibit FIII-5, p. 2.

¹¹ *Id*.

0: IS THE DISCREPANCY BETWEEN UNION AND NON-UNION PAY RAISES A

2 **CAUSE FOR CONCERN?**

3 Yes. The fact that the Company's estimates for non-union pay increases are significantly A: 4 higher than the arms-length negotiated union pay increases is a cause for concern because 5 it indicates that the projected non-union pay increases may be overstated in the Company's calculation. The union pay increases of 3.5% reflect market-based rates, ¹² while the non-6 7 union estimates may be escalated at higher rates, causing the Company's projected payroll 8 cost to be overstated. For this reason, I propose an adjustment to establish the Company's 9 annual payroll escalation rate at 3.5% per year for all employees.

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IS THERE OTHER EVIDENCE THAT AN ADJUSTMENT TO LIMIT THE Q:

COMPANY'S PAYROLL ESCALATION RATE TO 3.5% FOR ALL

EMPLOYEES IS REASONABLE AT THIS TIME?

A: Yes. Mercer, a widely-recognized compensation firm, published on its website 2022 compensation survey results which indicate that merit increase budgets were tracking at 3.2%, while only 27% of companies were planning merit increases of 3.5% or greater. ¹³ 16 Similarly, a recent Forbes article addressed employer compensation survey data which 18 indicated that, despite higher inflation rates, the average budgeted salary increase for 2022 was only 3.4%. The article addressed the complexities of payroll escalation and indicated

 $^{^{12}}$ Id.

¹³ See Compensation is going up. But, is it enough? Compensation planning survey results | Mercer.US

that pay raises are based on numerous factors and adjust more gradually than projected inflation rates. York's proposed escalation rates for its union employees are consistent with these benchmarks in the range of 3.5% per year, however, its estimated non-union and management pay rate increases are well above these levels, and should be reduced for rate-setting purposes. ¹⁴ In the context of an estimated FPFTY more than two years beyond the HTY, York's escalated pay increases in excess of 3.5% are not warranted.

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Q: WHAT IS THE ANNUAL PAYROLL INCREASE YOU RECOMMEND?

I recommend that the Commission approve projected pay increases for 2022 and 2023 at 3.5% per year for all employees. This recommendation does not result in any reduction in the pay levels for union positions, because it is in line with the amount requested by the Company. This adjustment, however, brings the projected pay increases for non-union and managerial positions in line with the 3.5% market-based levels projected for York's union employees.

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¹⁴ See Exhibit FIII-5, p. 2.; Forbes, <u>Why Salary Increases Do Not Keep Pace With Inflation</u>, April 7, 2022; https://www.forbes.com/sites/johnbremen/2022/04/07/why-salary-increases-do-not-keep-pace-with-inflation/?sh=7162d3b17533

1	Q:	THE COMPANY'S PAYROLL CALCULATIONS ALSO INCLUDE AN
2		INCREASE IN THE NUMBER OF NON-UNION POSITIONS. HAVE YOU
3		PROPOSED AN ADJUSTMENT TO REMOVE THE ADDITIONAL TEN (10)
4		NON-UNION EMPLOYEE POSITIONS FROM THE REVENUE
5		REQUIREMENT?
6	A:	No. In this filing, the Company projects it will add ten (10) additional non-union
7		employees for 2022 through February 2024. I have <u>not</u> proposed an adjustment to remove
8		these positions.
9	Q:	HOW DOES THE COMPANY'S PROJECTED INCREASE IN EMPLOYEE
10		POSITIONS COMPARE WITH PRIOR YEARS?
11	A:	The Company had 109 employees in January 2019, which grew to 113 employees by the
12		end of 2020. As of its 2021 annualized payroll, the Company's headcount remained at 113
13		full time employees. As such, the projected headcount increase is a significant increase.
14		
15	Q:	IN ADDITION TO THE TEN NEW PROJECTED POSITIONS, DOES THE
16		COMPANY ALSO SEEK TO INCLUDE UNFILLED POSITIONS IN THE
17		REVENUE REQUIREMENT?
18	A:	Yes. The Company identified four (4) vacant non-union positions and one (1) union
19		position that it has included in pro forma payroll cost. ¹⁵ These are in addition to the ten
20		new positions the Company identified.

¹⁵ See Response to OCA Set X, No. 2.

Direct Testimony of Mark E. Garrett Docket Nos. R-2022-3031340 (Water); and Docket No. R-2022-3032806 (Wastewater)

1	Q:	SHOULD THESE UNFILLED POSITIONS BE INCLUDED IN THE REVENUE
2		REQUIREMENT?
3	A:	No. Unfilled positions should not be included in the revenue requirement. In my
4		experience, utilities regularly maintain some level of unfilled positions and therefore these
5		positions are typically excluded from the revenue requirement. Utility companies, like
6		most companies, experience ongoing attrition and replacement of employee positions, and
7		it is appropriate to exclude these vacant positions to avoid overstating the revenue
8		requirement.
9		
10	Q:	IS AN ADJUSTMENT TO REMOVE THE FOUR UNFILLED NON-UNION
11		POSITIONS REASONABLE?
12	A:	Yes. It is reasonable to remove a utility's unfilled employee positions for ratemaking
13		purposes. This is especially true where, as here, the Company has proposed significant
14		growth in projected headcount which will be included in the revenue requirement.
15		
16	Q:	WHAT IS THE AMOUNT OF THE ADJUSTMENT NECESSARY TO LIMIT
17		NON-UNION PAY INCREASES TO 3.5% AND TO EXCLUDE THE VACANT
18		POSITIONS FROM THE COMPANY'S REVENUE REQUIREMENT?
19	A:	The adjustment to reduce the non-union pay increases to 3.5% per year for 2022 and 2023,
20		and to exclude the four vacant non-union positions reduces the payroll expense by
21		\$382,591 for the water company and \$17,296 for the wastewater company. This
22		adjustment is found on Exhibit MEG-4.

B. ANNUAL CASH INCENTIVE PLAN

- 1 Q: PLEASE SUMMARIZE THE INCENTIVE AND BONUS COMPENSATION
 2 YORK HAS INCLUDED IN REVENUE REQUIREMENT.
- A: York includes three types of bonus payments and incentive compensation for its

 employees: (1) annual bonuses paid to all employees in an equal annual amount per

 employee; (2) annual short-term cash incentive compensation for salaried employees; and

 (3) long-term stock incentives employees at senior managerial levels. The annual bonuses

 paid in equal dollar amounts to all permanent employees are reasonable in amount, and I

 have not proposed any adjustments related to these bonuses. The short-term annual cash

 incentives and the long-term stock incentive payments are discussed in the sections below.

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- Q: WHAT AMOUNT HAS YORK INCLUDED IN REVENUE REQUIREMENT
- 12 RELATED TO ITS ANNUAL SHORT TERM INCENTIVE COMPENSATION
- 13 **PLANS?**
- 14 A: In this application, York seeks to include in rates \$287,026 for its annual cash incentive expense, comprised of \$247,508 for the water utility, and \$11,189 for the wastewater utility. York has 43 salaried employees eligible for short term incentive compensation which ranges from 5% of the employee's base salary for managers, 7.5% for vice-

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presidents, to 10% for C-Suite employees. 17

¹⁶ See Response to OCA IV-14, with expense allocation between utilities based on Exhibit FIII-2-40(b).

¹⁷ See Response to OCA IV-12.

Q: WHAT IS THE COMMISSION'S POLICY REGARDING THE INCLUSION OF

2 INCENTIVE COMPENSATION IN THE REVENUE REQUIEMENT?

A: The Commission's policy is to allow recovery of incentive compensation in rates so long
as the utility shows that the overall amount of compensation is reasonable and that the plan
provides benefits to ratepayers. 18 The Commission does require, however, that the utility
show: (1) measurable performance objectives, (2) studies or other data to support the
necessity of the incentive compensation plan, and (3) evidence supporting a claim of the
utility's inability to retain competent management personnel. 19

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Q: PLEASE DESCRIBE YORK'S CASH INCENTIVE PLAN.

12 Compensation Committee of York's Board of Directors. According to Company witness
13 Joseph T. Hand, the Cash Incentive Plan (the "Cash Plan") was approved by the
14 Company's Compensation Board of Directors on January 26, 2003. The plan establishes
15 a two-tiered approach for awarding annual cash incentives. First, the plan sets forth
16 "Terms of Awards," which provide the business criteria which the Committee may use in
17 making annual cash incentive awards. The plan states:

-

¹⁸ Pa. Pub. Util. Comm'n v. Aqua Pennsylvania, Docket No. R-2021-3027385, 2022 PA. PUC LEXIS 161 (May 16, 2022), pp. 96-101.

¹⁹ See *Pa. Pub. Util. Comm'n v. Philadelphia Gas Works*, Docket No. R-00061931, Order Entered September 28, 2007, page 48.

²⁰ See Direct Testimony of Joseph T. Hand, Exhibit No. FIII-22 (Cash Incentive Plan attachment).

²¹ See Direct Testimony of Joseph T. Hand, Exhibit No. FIII-22 at 2(Cash Incentive Plan attachment).

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One or more of the following business criteria or other measures of performance may be used by the Committee in establishing Annual Incentive Awards: (1) growth in revenues or assets; (2) earnings from operations; (3) net income or net income per common share; (4) return on investment or return on equity; (5) stock price or shareholder return and (6) strategic business criteria, consisting of meeting specified water quality standards, environmental or safety standards, affordability of rates and customer satisfaction standards.²²

It is noteworthy that five out of the six criteria set forth are financial metrics. The Company's plan states, "the Committee may exercise its discretion to eliminate, to reduce or increase the amounts payable as Annual Incentive Awards, subject to such business criteria or other measures of performance.²³

The second component of York's Cash Incentive Plan are the "Performance Measures."24 This section of the plan explains that the Committee will approve an annual list Performance Objectives which require an overall score of seventy-five (75) percent achievement for the cash awards to be distributed in a given year.²⁵ The Company provided copies of its 2021 and 2022 Cash Incentive Plan Performance Objectives, which set forth lists of 17 objectives, as well as the annual Earnings Per Share("EPS") target of \$1.12 for each year.²⁶

²² *Id*.

²³ *Id*.

²⁴ *Id*.

²⁵ Id.

²⁶ See Direct Testimony of Joseph T. Hand, Exhibit No. FIII-22 (Performance Objectives attachments).

1	Q:	DID YORK APPLY THE TWO-TIERED CRITERA—AS DESCRIBED ABOVE—
2		IN AWARDING A CASH INCENTIVE PAYMENT FOR 2021?
3	A:	Yes. The Company's cash incentive award for 2021 was based upon (1) achieving the
4		Earnings Per Share ("EPS") target and (2) exceeding the 75% of the Performance
5		Objectives for the year. Specifically, the Company stated:
6 7 8 9		For 2021, management achieved 94% of the 2021 performance objectives and the earnings per share target set for 2021. As a result, the full eligible award for 2021 was issued. ²⁷
10	Q:	DO YORK'S ANNUAL PERFORMANCE OBJECTIVES MEET THE
11		COMMISSION'S CRITERIA?
12	A:	It is unclear based on the evidence the Company has presented thus far. Although the
13		Company provides a general statement in support of the incentive compensation plan in
14		the testimony of Joseph T. Hand, 28 it is unclear from the materials provided that the
15		incentive compensation plans are beneficial for ratepayers. Most of plan's business
16		criteria, and many of its performance objectives include financial metrics which are
17		designed to benefit shareholders. Based upon my review, further evidence is necessary
18		for the Company to demonstrate that its Cash Incentive Plan is beneficial for ratepayers.

²⁷ See response to OCA Interrogatory Set IV, No. 16.

²⁸ See Direct Testimony of Joseph T. Hand, p. 11, lines 2-7.

O: DO YOU AGREE WITH THE COMMISSION'S POLICY THAT PLAN COSTS

ARE RECOVERABLE SO LONG AS THE PLAN PROVIDES ANY CUSTOMER

BENEFIT?

A: Not entirely. While I generally agree with this requirement, I would point out that in utility ratemaking, a standard that requires benefits to customers actually means that a 'net benefit' to customers is required. In other words, a showing of ratepayer benefit at any cost is not sufficient. Instead, the utility has the burden of showing that the cost incurred provides a *net* benefit to ratepayers. I do not agree that if a utility shows *any* benefit to ratepayers, no matter how small, the entirety of its incentive compensation plan costs should be included in rates. Moreover, I support the view that the costs of incentive compensation plans may be shared or allocated between shareholders and ratepayers where the objectives of the plan, particularly financial metrics, are designed to benefit shareholders.

Q: DO FINANCIAL PERFORMANCE MEASURES COMPRISE A SIGNIFICANT COMPONENT OF THE COMPANY'S INCENTIVE COMPENSATION PLAN?

A: Yes. York's plan is a discretionary plan that is tied to the Company's financial performance. York's Cash Incentive Plan is conditioned on the EPS target as its business criterion."²⁹ As Mr. Hand explains, "the business criterion is established to ensure that cash incentives are paid only when the Company's financial profile warrants such a

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²⁹ Direct Testimony of Joseph T. Hand, p. 10 lines 15-16.

payout."³⁰ As such, York's plan has an EPS funding trigger. If the EPS target is not met, the plan will not be funded. In other words, even though the Company's performance measures include both financial and non-financial factors, the actual *funding* trigger for incentive compensation is directly tied to the financial performance of the Company.

Under the Company's plan, regardless of how well the employees, or the Company, may perform in a nonfinancial performance measure such as safety, if the EPS is below the stated threshold, the funding for the plan could be 0%. Thus, the Company's earnings level is the controlling factor in determining whether the incentive compensation will be paid and to what extent. York's management establishes the earnings (EPS) threshold and has discretion to eliminate the annual incentive payments. Moreover, the plan itself states that an EPS target of \$1.12 would "protect *shareholders* from any significant downside risk. . ."³³

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³⁰ *Id.*, p. 10, lines 18-19.

³¹ Direct Testimony of Joseph T. Hand, Exhibit NO FIII-22 (2021 Performance Objectives and 2022 Performance Objectives).

³² *Id*.

³³ Direct Testimony of Joseph T. Hand, Exhibit No. FIII-22.

1	Q:	PLEASE DISCUSS THE RATIONALE FOR SHARING INCENTIVE
2		COMPENSATION COSTS BETWEEN SHAREHOLDERS AND RATEPAYERS
3		WHEN THE COMPANY'S PLAN IS BASED ON BOTH OPERATIONAL AND
4		FINANCIAL PERFORMANCE MEASURES.
5	A:	Such sharing arrangements are widely accepted. In my experience, excluding financially-
6		based short-term compensation costs is the majority view among regulatory commissions.
7		An Incentive Compensation Survey of the 24 Western States conducted by the Garrett
8		Group in 2007, and updated in 2009, 2011, 2015 and 2018, shows that a clear majority of
9		the states surveyed follow the financial-performance rule, in which a portion of incentive
10		payments associated with financial performance are excluded from rates. ³⁴ While some
11		states disallow incentive pay using other criteria, none of the jurisdictions surveyed allow
12		full recovery of incentive compensation through rates as a general rule. The table below
13		provides a summary of the survey results:

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³⁴ The Garrett Group Incentive Compensation Survey is a telephonic survey of the regulatory commission staff for the in each of the states west of the Mississippi.

Table 2: Garrett Group, LLC 24 Western State Incentive Survey Results			
Incentives Not Allowed in Rates	Financial Performance Rule Followed	Other Sharing Approach	Incentives Not at Issue
Hawaii			
	Arizona		
	Arkansas		
	California		
	Idaho		
	Kansas		
	Louisiana		
	Minnesota		
	Missouri		
	Nebraska		
	Nevada		
	New Mexico		
	North Dakota		
	Oklahoma		
	Oregon		
	South Dakota		
	Texas		
	Utah		
	Washington		
	Wyoming		
		Alaska ³⁵	
		Colorado ³⁶	
			Iowa
			Montana

³⁵ Incentive compensation has not been an issue in the past, partly because most utilities in Alaska are municipalities and COOPs. In one recent case, however, the Commission approved incentives in rates, which may turn out to be an anomaly.

³⁶ Colorado followed the financial performance rule in the past. In one recent case, however, the Commission approved another approach, which may turn out to be an anomaly.

1 Q: WHEN REGULATORS EXCLUDE THE PORTION OF A UTILITY'S

2 INCENTIVE PLAN TIED TO FINANCIAL PERFORMANCE MEASURES, DOES

THE UTILITY STOP OFFERING INCENTIVE COMPENSATION TO HELP

ACHIEVE ITS FINANCIAL GOALS?

A. No. Even though regulators generally disallow incentive compensation tied to financial

performance for ratemaking purposes, utilities continue to include financial performance

as a key component of their plans. In my opinion, utilities continue to tie incentive

payments to financial performance because by doing so they achieve the primary objective

of the incentive plans: to increase corporate earnings and, thereby, earnings per share

(EPS). However, since the utility retains the increased earnings that these plans help

achieve, payments for these plans should be made from a portion of these increased

earnings and these plans should not be subsidized by ratepayers.

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Q: PLEASE IDENTIFY SOME OF THE JURISDICTIONS THAT USE A SHARING

APPROACH FOR ANNUAL INCENTIVE PLANS SIMILAR TO THE 50/50

APPROACH YOU RECOMMEND.

A: As shown in the table above, many regulatory commissions disallow a portion of incentive

compensation costs where the incentive plans contain both financial and operational

measures. Some of the jurisdictions that use a sharing approach to allocate costs between

shareholders and ratepayers include Arizona, Arkansas, Kansas, Oklahoma, Oregon, and

Texas, as summarized below:

1	Arizona: The Arizona commission on numerous occasions has shared the
2	cost of annual incentive plans on a 50/50 split between shareholders and ratepayers. ³⁷
3	• Arkansas: The Arkansas commission in Docket No. 13-028-U stated:
4 5 6	The Commission finds that EAI and Staff have failed to show that EAI's short-term, long-term and stock based incentive compensation provide ratepayer benefits to justify
7 8	100% inclusion in rates. The Commission agrees with both the AG and HHEG witnesses that most, if not all, of the
9 10 11 12 13	short-term incentive costs are indirectly tied to financial performance through the EAM funding mechanism and, therefore, the Commission finds that ratepayers should bear no more than 50% of the costs. The Commission finds that \$48,087,877 in annual short-term incentive costs, and all
14 15	other related payroll costs, should be removed from EAI's operating expenses in this proceeding. ³⁸
16	• Kansas: The Kansas commission generally disallows plans based on
17	financial measures and allocates a 50% sharing for plans using a balance of financial and
18	operational measures. ³⁹
19	Oklahoma: The Oklahoma Commission has consistently disallowed
20	financial-based incentive pay for more than 25 years. ⁴⁰
21	• Oregon: The Oregon commission has a history of disallowing 50% of
22	operational plans and 75% of financial plans. ⁴¹

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³⁷ See e.g., Ariz. Corp. Comm'n, Ariz. Pub. Svc. 2008 rate case, Decision 70360; Southwest Gas 2008 rate case, Decision 70665 and UNS Gas 2008 rate case, Decision 70011.

³⁸ See e.g., Ark. Pub. Serv. Comm'n Docket No. 13-028-U, Order No. 21, p.54 (Emphasis added).

³⁹ See e.g., Kan. Corp. Comm'n, Docket No. 10 KCPE-415-RTS, Order issued Nov. 22, 2010, pp. 46-51.

⁴⁰ See e.g., Okla. Corp. Comm'n, Oklahoma Natural Gas, Docket No. PUD 91-1190, Order p.145.

⁴¹ See e.g., Oregon Pub. Util. Comm'n, Portland General Elec. Co., Docket No. UE 197, Order No. 09-020, issued Jan. 22, 2009, pp. 12-13.

1		• Texas: The Texas commission disallows 100% of short-term incentives
2		directly tied to financial performance measures and 50% of the remaining incentives if
3		they are indirectly tied to financial performance through an earnings-per-share funding
4		mechanism. ⁴² In applying this approach in the most recent Southwestern Electric Power
5		Company (SWEPCO) case, in Docket No. 46449, the Texas commission made the
6		following finding:
7 8 9 10 11 12		194. The Commission has repeatedly ruled that a utility cannot recover the cost of financially-based incentive compensation because <u>financial measures are of more immediate benefit to shareholders and financial measures are not necessary or reasonable to provide utility services</u> . 43
13		This finding articulates the Public Utility Commission of Texas' longstanding precedent.
14		
15	Q:	WHAT IS THE GENERAL RATIONALE FOR EXCLUDING INCENTIVE
16		COMPENSATION TIED TO FINANCIAL PERFORMANCE?
17	A:	In most jurisdictions, the cost of incentive plans which are tied to financial performance
18		measures are excluded for ratemaking purposes. When the costs associated with these
19		plans are excluded, the rationale used by the regulators is often based on one or more of
20		the following reasons:
21 22		(1) Payment is uncertain. Often, payment of incentive compensation is conditioned upon meeting some predetermined financial goal such as achieving a certain

⁴² See Pub. Util. Comm'n of Tex., SPS Docket No. 43695, Order on Rehearing at pp. 5-6. Also see, SWEPCO Docket No. 46495, and Docket No 46449.

Direct Testimony of Mark E. Garrett Docket Nos. R-2022-3031340 (Water); and Docket No. R-2022-3032806 (Wastewater)

⁴³ See Application of Southwestern Electric Power Company for Authority to Change Rates, Docket No. 46449, Finding No. 194, Order on Rehearing at p. 34 (March 19, 2018). (Emphasis added).

1 increase in earnings, reaching a targeted stock price or meeting budget objectives. 2 If the predetermined goals are not met, the incentive payment is not made, or 3 payment is made at some lesser amount. Therefore, one cannot know from year to 4 year what the level of the payment may be or whether the payment will be made 5 at all. It is generally considered inappropriate to set rates to recover a tentative 6 level of expense.⁴⁴ 7 **(2)** Earnings-based incentive plans can discourage conservation. When incentive 8 payments are based on earnings, employees may not support conservation 9 programs designed to reduce usage if they perceive these programs could adversely 10 impact incentive payment levels. To the extent that earnings-based incentive plans discourage conservation these plans may not serve the public interest. 11 12 **(3)** The utility and its shareholders assume none of the financial risks associated 13 with incentive payments. Ratepayers assume the risk that the utility will instead retain the amounts collected through rates for incentive payments whenever 14 15 targeted increases are not reached. Employees assume the risk that the incentive payments will not be made in a given year. The utility and its shareholders, 16 however, assume no risk associated with these payments. Instead, the company's 17 only responsibility is to decide who gets the money, the shareholders or the 18 19 employees.⁴⁵ 20 **(4)** Incentive payments based on financial performance measures should be made out of increased earnings. Whatever the targets or goals may be that trigger an 21 22 incentive payment, when the plan is based in whole or in part on financial 23 performance measures the company always obtains a financial benefit from 24 achieving these objectives. This financial benefit should provide ample funds from 25 which to make the payment. If not, the incentive plan was poorly conceived in the 26 first place. As such, employees should be compensated out of the increased 27 earnings, and not through rates. 28 **(5)** Incentive payments embedded in rates shelter the utility against the risk of 29 earnings erosion through attrition. When utilities are allowed to embed amounts for incentive payments in rates, that money is available to the utility not only to 30 31 pay the incentive payment when financial performance goals are met but also to

⁴⁴ A good example of this problem occurred in the 2008 Oklahoma rate case proceeding of Public Service Company of Oklahoma, PUD 08-144. In 2009, PSO's below target EPS reduced the funding available for incentive compensation payments by 76.9%. Although in the Company's 2008 rate case, the Commission had included more than \$4 million in rates for incentives, the Company chose not to use all of that money to pay incentives, but instead retained some of those funds for its shareholders to help bolster the Company's lower earnings that year.

⁴⁵ *Id*.

supplement earnings in those years when the company does not perform well. In those years when financial performance measures are met, the increased earnings of the company provide ample additional funds from which to make the incentive payments to employees, and the incentive payment amount embedded in rates is not needed. In those years when financial performance measures are not met and the incentive payments are not made, the amount embedded in rates for incentive payments acts as a financial hedge to shelter the poor financial performance of the company.

Q: ARE YOU RECOMMENDING THAT THE COMPANY ELIMINATE ITS

SHORT-TERM INCENTIVES FOR ITS EMPLOYEES?

11 A: No. The question for ratemaking purposes is not whether the utility should offer short12 term incentives to its employees; the question is, who should pay for them. The consensus
13 is that financial-based incentives benefit the shareholders more than do the ratepayers, and,
14 as a result, should be paid for by the shareholders.

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Q: WHAT ARE YOU RECOMMENDING WITH RESPECT TO THE COMPANY'S

INCENTIVE EXPENSE?

18 Based on the information the Company has provided, York's plan is tied to the Company's **A**: 19 financial performance and its metrics are designed to benefit shareholders as well as 20 ratepayers. For this reason, I am recommending, at a minimum, a 50/50 sharing of these 21 costs between shareholders and ratepayers. This recommendation is based on the 22 recognition that the Company's EPS funding mechanism causes at least 50% of the 23 Company's incentive compensation plan goals to be related to financial performance 24 measures, while a smaller percentage relates to customer satisfaction and reliability. 25 Because ratepayers receive at least some benefit from these customer-related goals, some 26 portion of the plan costs can be included in rates. Accordingly, I propose adjustments to

1		reduce the requested level of annual incentive expense by 50% to reflect the fact that the		
2		plan is partially tied to financial performance measures. This requires an adjustment of		
3		\$(123,754) for the water utility and \$(5,595) for the wastewater utility, as set forth or		
4		Exhibit MEG-5.		
		C. <u>LONG-TERM STOCK INCENTIVE PLAN</u>		
5	Q:	WHAT HAS THE COMPANY PROPOSED WITH RESPECT TO LONG-TERM		
6		STOCK INCENTIVE PLAN COSTS FOR SENIOR MANAGEMENT AND		
7		EXECUTIVES?		
8	A:	The Company is proposing to recover long-term incentive plan costs of \$276,170,46 with		
9		\$238,146 attributable to the water utility expense, and \$10,776 attributable to the		
10		wastewater utility expense. ⁴⁷		
11				
12	Q:	PLEASE DESCRIBE THE COMPANY'S LONG-TERM COMPENSATION		
13		PLANS.		
14	A:	In addition to the annual incentive plans discussed above, the Company offers a Long-		
15		Term Incentive Plan ("LTIP") for eligible officers, Board members, non-employee Board		
16		members, and key employees designated by the Committee. 48 The Company indicated that		
17		the LTIP covers 17 employees of the Company. ⁴⁹ The long-term incentive plan includes		

⁴⁶ See OCA IV-9,

⁴⁷ See Exhibit MEG-6.

⁴⁸ See Direct Testimony of Joseph T. Hand, Exhibit No. FIII-22 (Long Term Incentive Plan Attachment), p.1.

⁴⁹ See OCA IV-8

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the tallov	mng nurnos	e statement:
the follow	mg purpos	e statement:

"The purpose of the Plan is to give participants an ownership interest in York and to create an incentive for them to contribute to York's growth, thereby benefiting York's stockholders, and *aligning the economic interest* of the participants with those of York's stockholders." ⁵⁰

Because the long-term stock compensation plan is designed to align the interests of Company executives and senior management with the interests of shareholders, the shareholders rather than ratepayers should be responsible for paying these costs.

A:

Q: WHAT IS THE RATIONALE FOR EXCLUDING FINANCIALLY-BASED LONG-TERM INCENTIVE COMPENSATION EXPENSE?

Incentive compensation payments to officers, executives, and key employees of a utility are generally excluded for ratemaking purposes. Since officers of any corporation have fiduciary duties of loyalty and care to the corporation itself and not to the customers of the company, these individuals are required to put the interests of the company first. Undoubtedly, the interests of the company and the interests of the customer are not always the same, and at times, can be quite divergent. This natural divergence of interests creates a situation where not every cost associated with executive compensation is presumed to be a necessary cost of providing utility service. Many regulators are inclined to exclude executive bonuses, incentive compensation and supplemental benefits from utility rates, understanding that these costs would be better borne by the utility shareholders.

⁵⁰ See Exhibit No. FIII-22 (The York Water Long-Term Incentive Plan) at 1. (Emphasis added).

Further, long-term executive incentive plans are specifically designed to tie management compensation to the financial performance of the company. This is done to further align the interest of the employee with those of the shareholder. Since the compensation of the employee is tied over a long period of time to the company's stock price, it motivates employees to make business decisions from the perspective of long-term shareholders. This intentional alignment of employee and shareholder interests means the costs of these plans should be borne solely by the shareholders. It would be inappropriate to require ratepayers to bear the costs of incentive plans designed to encourage employees to put the interests of the shareholders first.

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Q: HOW ARE LONG-TERM INCENTIVE COMPENSATION COSTS TREATED IN

PENNSYLVANIA?

The Commission has, in the past, excluded long-term incentive compensation where management bonuses are primarily based on financial metrics to determine payouts.⁵¹ In more recent decisions, however, the Commission has allowed recovery of stock-based incentive compensation where the utility provides evidence linking the stock-based plan with benefits to customers and improved operational efficiency.⁵²

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⁵¹ See Pa. Pub. Util. Comm'n v. Roaring Creek Water Co., 81 Pa. PUC 285 (1994).

⁵² See *Pa. Pub. Util. Comm'n v. Aqua Pennsylvania, Inc.*, Docket No R-2021-3027385. Public Meeting May 12, 2022, Opinion and Order, pp.100-101.

O: HOW IS LONG-TERM INCENTIVE COMPENSATION TREATED IN OTHER

JURISDICTIONS?

The results of the Garrett Group Incentive Compensation Survey, discussed in the previous section of this testimony, show that many jurisdictions follow the general rule that incentive pay associated with financial performance is not allowed in rates. This means that long-term, stock-based incentives are <u>not recovered in rates</u> in most if not every jurisdiction in the 24 states surveyed. In the synopsis of the incentive survey results from each state that was included in the prior section of this testimony, the treatment of long-term stock-based incentives in each state was underlined.

According to the survey, 20 of the 24 western states tend to exclude all or virtually all long-term stock-based incentive pay, either through an outright ban on stock-based incentives or through applying the *financial performance* rule, which has the effect of excluding long-term earnings-based and stock-based awards. These states include Arizona, Arkansas, California, Colorado, Hawaii, Idaho, Kansas, Louisiana, Minnesota, Missouri, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington and Wyoming. In the other four states, Alaska, Iowa, Montana and Nebraska, the issue just has not been addressed.

A:

Q: DO YOU KNOW HOW LONG-TERM INCENTIVES ARE TREATED IN

EASTERN STATES?

21 A: In addition to our survey of the western states, we also conducted a telephone survey of

four eastern states: Illinois, Kentucky, Michigan and Wisconsin. According to

commission-staff personnel contacted in these states, the general rule in these jurisdictions is that financial-based incentives are not included in rates. The regulatory treatment in these states is set forth below, and the treatment of long-term incentives is underlined:

Illinois: The general approach of the Illinois Commerce Commission has been that incentives based on financial goals are not allowed while those with operational goals are allowed in rates. These criteria have been consistently applied by the Commission to short-term, long-term and executive incentive compensation. <u>Long-term incentives are more often financially based and therefore more often disallowed</u>. This treatment is the Commission's general practice, but it is also codified in the statute governing the formula rate plans for the state's two largest utilities (Ameren Illinois and Commonwealth Edison). Statute §220ILCS5/16-108.5c¶4(A) states:

Recovery of incentive compensation expense that is based on the achievement of operational metrics, including metrics related to budget controls, outage duration and frequency, safety, customer service, efficiency and productivity, and environmental compliance. Incentive compensation expense that is based on net income or an affiliate's earnings per share shall not be recoverable under the performance-based formula rate.

Kentucky: Any incentive compensation related to financial metrics is disallowed 100%. This treatment is applied to short-term, long-term and executive incentives. This treatment is not proscribed by regulation or statue but has been the longstanding practice of the Commission. This treatment is set forth in the recent Kentucky American rate case 18-00358 (20190627 PSC Order 01, pp 41-44)⁵⁴. In this case, 100% of the long-term incentives were disallowed while 50% of the short-term incentives were allowed. Even though the short-term plan had a funding mechanism based on earnings per share, the plan's performance measures were 50% financial and 50% non-financial. There have been no recent changes to this treatment.

Michigan: Incentive compensation based on financial metrics are excluded from rates. Incentives with non-financial metrics which have a demonstrable benefit to ratepayers are allowed in rates. This treatment is used for all incentive compensation and can produce a different result for short-term verses long-term and executive plans which are often stock-based plans which are not included in rates. There are no statutes requiring

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⁵³ See Commonwealth Edison, Docket No. 05-0597, pp. 95-97 (affirmed on appeal); North Shore Gas/Peoples Gas, Docket Nos. 09-0166 and 09-0167, (affirmed on appeal); and Illinois-American Water Co., Order No. 16-0093, p. 37.

⁵⁴ See also KPC 14-00396 20150622_PSC_ORDER (pp 24-26)

this treatment, but it is the Commission's well-established policy based on consistent precedent. This treatment is set forth recently in Consumers Energy Company Electric Rate Case U-18322 and DTE Electric Rate Case U-20162.⁵⁵

Wisconsin: Incentive compensation based on financial metrics are excluded from rates, as the commission has found that such plans do not reasonably provide benefits to ratepayers when tied to financial metrics.⁵⁶ In the Wisconsin Public Service 2013 rate case, the commission stated:

The Commission is not persuaded it should change its practice of excluding incentive compensation from revenue requirements of the major investor-owned utilities in Wisconsin. WPSC has not demonstrated that the plans provide substantial ratepayer benefit with enough quantified permanent savings to ratepayers to warrant inclusion of the costs in revenue requirement. With the majority of executive incentive performance measures still tied to meeting earnings per share criteria, and the non-executive incentive performance measures that weigh heavily on measures tied to the shareholders benefit, the Commission finds it is reasonable to exclude all incentive compensation costs from the revenue requirement. ⁵⁷

Q: DO YOU KNOW HOW LONG-TERM STOCK INCENTIVES ARE TREATED IN

ANY OTHER EASTERN STATES?

- 20 A: Yes. I am aware that in **Indiana**, the commission looks at incentives on a case-by-case
- basis and in the past it has both allowed and disallowed stock-based awards.⁵⁸

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⁵⁵ In the U-20162 Order, the Commission cites Staff's Initial Brief (pp67-68) in which Staff lists 11 prior cases in which the Commission disallowed financially-based incentive compensation which does not benefit ratepayers.

⁵⁶See Northern States Power Co., Docket 4220-UR-123, issued December 21, 2017, p. 16.

⁵⁷Wisconsin Public Service, Docket 6690-UR-122, issued December 18, 2013, p. 24. Emphasis added.

⁵⁸ See decision in Indiana Michigan rate case Cause No. 45235 (allowed). See also, American Indiana Water Co. rate case, Cause No. 44022 (disallowed).

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1	Q:	WHEN UTILITIES SEEK TO RECOVER LONG-TERM INCENTIVE
2		COMPENSATION IN RATES, WHAT RATIONALE IS GENERALLY
3		PROVIDED?
4	A:	Generally, utilities argue that long-term incentives are part of an overall compensation
5		package that is designed to attract and retain qualified personnel. Since other utilities offer
6		incentive plans to their executives, a company would run the risk of not being able to
7		compete for key personnel if it did not offer a comparable plan.
8		
9	Q:	IS THIS ARGUMENT PLAUSIBLE?
10	A:	No. The problem with the argument is that when utilities, such as York, compete with
11		other utilities for qualified executives, and the long-term incentive compensation plans of
12		those other utilities are <u>not</u> being recovered through rates, York is not placed at a
13		competitive disadvantage when its long-term incentive compensation is excluded as well.
14		The fact that other utilities offer long-term incentive plans is not relevant; what is relevant
15		is the fact that other utilities are not recovering the costs of those plans in rates. In an order
16		disallowing Nevada Power's long-term incentive plan, the Nevada Commission
17		articulated this important ratemaking concept as follows:
18 19 20 21 22 23		Therefore, the Commission accepts BCP's and SNHG's recommendations to disallow recovery of expenses associated with LTIP. Both parties provide a valid argument that this type of incentive plan is mainly for the benefit of shareholders. Further, both BCP and SNHG provide examples of numerous other jurisdictions that do not allow the recovery of these costs and, <i>therefore</i> ,

Further, the problem with the "total compensation package" argument is that when an incentive payment is paid based on the achievement of financial performance goals, there should be sufficient financial benefit to the company as the result of achieving these goals. This financial benefit should provide ample additional funds from which to make the incentive payments. If not, the plan was poorly conceived. Thus, a utility is not placed at a competitive disadvantage when incentive payments tied to financial performance are not collected through rates, because the funding for these payments should come out of the additional earnings the incentive plans help achieve.

A:

Q: WHAT OTHER RATIONALE DO UTILITIES TYPICALLY PROVIDE FOR INCLUDING LONG-TERM STOCK-BASED INCENTIVES IN RATES?

Companies claim that long-term incentives are *necessary* costs, and, as such, they should be included in rates. When tested, however, this assertion does not prove to be true. Much of the water in this country is provided by *municipalities* none of which pay long-term stock-based incentives, yet they are able to attract talent sufficient to deliver safe and reliable service. So, if municipalities can provide service without the use of long-term incentive compensation, I believe it is inaccurate to say that long-term incentives are *necessary* for the provision of water service for an investor-owned system.

 $^{^{59}}$ See In re Nevada Power Co., Docket No. 08-12002, Final Order, p. 139, ¶549, (Nev. Pub. Util. Comm'n Jun. 24, 2009) (Emphasis added).

1	Q:	WHAT ADJUSTMENTS DO YOU RECOMMEND FOR THE LONG-TERM
2		STOCK INCENTIVE PLAN COMPENSATION?
3	A:	I know that this Commission has in the past allowed stock-based compensation in rates.
4		However, I respectfully request that the Commission reevaluate its position going forward
5		and allocate the costs of stock-based incentives to shareholders, since shareholders are the
6		primary beneficiaries of these plans.
7		As a result, I recommend that shareholders bear the cost of the long-term stock
8		incentive plan. Accordingly, I recommend that the February 29, 2024 pro forma water
9		company expenses be reduced by \$238,146 and the wastewater expense be reduced by
10		\$10,766. These adjustments can be found on Exhibit MEG-6.
11		
12	Q:	DO THE ADJUSTMENTS TO PAYROLL COSTS AND THE INCENTIVE PLANS
12 13	Q:	DO THE ADJUSTMENTS TO PAYROLL COSTS AND THE INCENTIVE PLANS AFFECT THE PAYROLL TAX EXPENSE?
	Q :	
13		AFFECT THE PAYROLL TAX EXPENSE?
13 14		AFFECT THE PAYROLL TAX EXPENSE? Yes. The adjustments to payroll cost and the incentives do impact the payroll tax liability.
131415		AFFECT THE PAYROLL TAX EXPENSE? Yes. The adjustments to payroll cost and the incentives do impact the payroll tax liability. I reviewed the adjusted payroll costs and limited the payroll adjustment for salaries and
13 14 15 16		AFFECT THE PAYROLL TAX EXPENSE? Yes. The adjustments to payroll cost and the incentives do impact the payroll tax liability. I reviewed the adjusted payroll costs and limited the payroll adjustment for salaries and incentives that exceeded the taxable compensation limits. I then calculated the appropriate
13 14 15 16 17		AFFECT THE PAYROLL TAX EXPENSE? Yes. The adjustments to payroll cost and the incentives do impact the payroll tax liability. I reviewed the adjusted payroll costs and limited the payroll adjustment for salaries and incentives that exceeded the taxable compensation limits. I then calculated the appropriate
13 14 15 16 17	A:	AFFECT THE PAYROLL TAX EXPENSE? Yes. The adjustments to payroll cost and the incentives do impact the payroll tax liability. I reviewed the adjusted payroll costs and limited the payroll adjustment for salaries and incentives that exceeded the taxable compensation limits. I then calculated the appropriate payroll tax adjustments for the water and wastewater utilities.
13 14 15 16 17 18	A:	AFFECT THE PAYROLL TAX EXPENSE? Yes. The adjustments to payroll cost and the incentives do impact the payroll tax liability. I reviewed the adjusted payroll costs and limited the payroll adjustment for salaries and incentives that exceeded the taxable compensation limits. I then calculated the appropriate payroll tax adjustments for the water and wastewater utilities. WHAT ARE THE AMOUNTS OF THE ADJUSTMENTS TO PAYROLL TAX

D. <u>BOARD OF DIRECTORS' COMPENSATION</u>

- 1 Q: HAS THE COMPANY INCLUDED BOARD OF DIRECTORS' COMPENSATION
- 2 COSTS IN ITS REVENUE REQUIREMENT?
- 3 A: Yes, as shown in Exhibit FIII-2-48, York included \$427,649 in its revenue requirement
- 4 for directors' compensation. I propose an adjustment to remove a portion of these costs
- 5 from the revenue requirement.

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- Q: WHAT IS THE ISSUE WITH RESPECT TO BOARD OF DIRECTORS' ("BOD")
- **8 COMPENSATION?**
 - A: Regulators have recognized that an allocation of BOD compensation costs between
- shareholders and ratepayers is appropriate. Ratepayers should not be expected to bear the
- full amount of BOD compensation because officers and directors of any corporation have
- legal, fiduciary duties of loyalty and care to the corporation itself and not to its customers.
- These individuals are <u>required by law</u> to put the interests of the Company first.
- 14 Undoubtedly, the interests of the Company and the interests of customers are not always
- the same, and at times, can be quite divergent. This natural divergence of interests creates
- a situation where not every compensation cost is presumed to be a necessary cost of
- providing utility service. Instead, a sharing of director compensation costs would
- recognize the fact that the costs of director fees provide a benefit to both shareholder and
- the ratepayers alike.

1	Q:	HAVE YOU TESTIFIED IN OTHER CASES IN WHICH BOARD OF										
2		DIRECTORS' COMPENSATION COSTS HAVE BEEN ALLOCATED										
3		BETWEEN SHAREHOLDERS AND RATEPAYERS?										
4	A:	Yes. I recently testified on the issue of board of directors' fees before the Public Utility										
5		Commission of Nevada ("PUCN") and the Washington Utilities and Transportation										
6		Commission ("WUTC"). First, in the Southwest Gas Corp. ("SWG") rate case, the										
7		Nevada commission divided the cost of the BOD compensation equally between										
8		ratepayers and shareholders. The commission stated:										
9 10 11 12 13 14 15		420. The Commission accepts Staffs proposal to disallow 50 percent of the BOD compensation costs in order to share the costs equally between ratepayers and shareholders. The Commission finds that the evidence on the record supports benefits to both ratepayers and shareholders. A competent BOD provides value to SWG through increased earning and market value, while ratepayers benefit from safe, reliable service. Accordingly, it is appropriate that the costs be shared between shareholders and ratepayers. ⁶⁰										
16		Similarly, in the 2020 rate case of Cascade Natural Gas before the Washington										
17		commission, the customers' proposed adjustment to share board of directors' costs equally										
18		between shareholders and customers was uncontested and was accepted by the										
19		Washington commission. ⁶¹										

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 $^{^{60}}$ In re Southwest Gas Corp., Docket No. 18-05031, (Nev. Pub. Util. Comm'n) Modified Final Order, at p. 138, \P 420 (Feb. 15, 2019).

 $^{^{61}}$ In re Cascade Natural Gas Corp., Docket No. UG-200568 (Wash. Util. and Transport. Comm'n), Order No. 5, pp. 9-10 (May 18, 2021).

O: DO YOU HAVE OTHER CONCERNS REGARDING YORK'S BOARD OF

DIRECTORS' COMPENSATION?

Yes. In addition to the concern that York has requested that all of its board of directors' costs be recovered from ratepayers, I am also concerned that a portion of York's directors' compensation is paid in the form of *stock grants*. As with executives and high-level managers, compensation in the form of stock awards provides undue incentives to increase shareholder earnings, rather than to balance the interests of shareholders and customers. For those reasons, I recommend the BOD cash compensation and expenses be shared equally between shareholders and ratepayers, and the stock compensation be borne by the shareholders.

A:

A:

Q: HOW IS YOUR ADJUSTMENT CALCULATED?

As set forth in Exhibit FIII-2-48, York included a total of \$427,649 in its revenue requirement for directors' compensation. My proposed adjustment allocates the cashbased compensation evenly between ratepayers and shareholders, in the amount of \$213,825 each. The adjustment to remove the equity-based compensation and to allocate the BOD cash compensation and expenses equally between shareholders and ratepayers is \$213,825 for the water utility. This adjustment is set forth at Exhibit MEG-9.

⁶² See Direct Testimony of Joseph T. Hand, p. 10, line 21—p.11, line 7.

E. <u>INFLATION ADJUSTMENT</u>

Q: PLEASE DISCUSS YORK'S REQUESTED INFLATION ADJUSTMENT.

A: York proposes an inflation adjustment to both the water and the wastewater utilities based on a February 2021 to February 2022 increase in the CPI-U of 6.4%. The adjustment is made for 2022, 2023, and 2 months of 2024. The adjustment is applied to all expenses that are <u>not</u> separately adjusted. In other words, the utility proposes a *blanket* inflation adjustment to all expense accounts not separately adjusted for projected increases through the end of the February 29, 2024 test year. The inflation adjustment increases water company expenses by \$1,023,307 and wastewater expenses by \$298,363.

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Q: DO YOU AGREE WITH YORK'S PROPOSED INFLATION ADJUSTMENT?

A: No. In my opinion, blanket inflation adjustments do not pass the *known and measurable* standard for utility ratemaking. Even in a future test year situation, projected increases must be based on specific analysis for each requested increase. Moreover, blanket inflation adjustments for projected test years are poor ratemaking policy because they create a disincentive for utilities to control costs going forward.

⁶³ See York Water Statement No. 103W, Direct Testimony of Matthew E. Poff, p. 21.

1	Q:	HAS THIS COMMISSION ADDRESSED THESE ISSUES BEFORE?
2	A:	Yes. In the recent Aqua Pennsylvania, Inc. rate case, Docket No. R-2021-3027385, the
3		PUC found that Aqua's general inflation adjustment to accounts not specifically analyzed
4		and adjusted should be denied.
5 6 7 8 9 10 11 12 13		We agree with the ALJ that Aqua has not justified the use of a general price level adjustment to expenses not specifically adjusted in this case or not subject to inflation. R.D. at 70. We also agree that allowing Aqua to apply a general inflation adjustment to a block of expenses could incentivize less accurate tracking of expenses and a less rigorous approach to controlling costs for those expenses. The application of a General Price Adjustment to 22% of expenses is neither targeted nor specific. We find the ALJ's recommendation to deny Aqua's use of a General Price Adjustment to be reasonable. 64
14	Q:	HAS THE COMMISSION ALSO FOUND THAT GENERAL INFLATION
15		ADJUSTMENTS ARE NOT KNOWN AND MEASURABLE?
16	A:	Yes. In the recent Pa PUC v. Wellsboro Electric Company (Order entered April 29, 2020),
17		the Commission found that a blanket inflation adjustment does not meet the known and
18		measurable test.
19 20 21 22 23 24 25		The ALJs explained that the Company has the burden of demonstrating that each FTY expense claim will increase in the FPFTY by some "known and measurable" change in the FPFTY. According to the ALJs, the Company did not demonstrate that the blanket three percent inflation adjustment to all expenses would meet the known and measurable change standard; specifically, the Company did not demonstrate that making this adjustment to each expense claim directly relates to the actual costs expected to be

Direct Testimony of Mark E. Garrett Docket Nos. R-2022-3031340 (Water); and Docket No. R-2022-3032806 (Wastewater)

⁶⁴ See. Pa. Pub. Util. Comm'n v. Aqua Pennsylvania, Docket No. R-2021-3027385, Order and Opinion, May 12, 2022, at p. 117.

O: WHAT IS YOUR RECOMMENDATION REGARDING YORK'S PROPOSED

2 **INFLATION ADJUSTMENTS?**

- 3 A: I recommend that the Commission reject York's proposed general inflation adjustments.
- 4 The adjustments to reverse the proposed inflation adjustments reduce the water company
- 5 expense by \$1,023,307 and the wastewater expense by \$298,363. These adjustments are
- 6 found on Exhibit MEG-8.

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F. <u>CASH WORKING CAPITAL AND INCOME TAX ADJUSTMENTS</u>

Q: DO THE ADJUSTMENTS RECOMMENDED BY THE OCA AFFECT THE CASH

WORKING CAPITAL ALLOWANCE?

A: Yes. The adjustments reduce Cash Working Capital ("CWC") required for O&M expenses

and payroll taxes. The impact of each adjustment is based on the total cost, not just the

expense component. York also included the total costs CWC calculation, not just the

expense component. There are some minor deficiencies in York's CWC study, such as

using an assumed payroll lag of seven days for all payroll when there is a delay of a year

or more for management's incentive payment. I am ignoring those issues because I am

recommending the elimination of those expenses so that the CWC correction would be

fully offset by the CWC adjustment related to the exclusion of those costs. I am using

York's calculated expense lag days to calculate the CWC adjustment.

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1	Q:	WHAT IS THE AMOUNT OF THE CWC ADJUSTMENT?
2	A:	The adjustment to Cash Working Capital related to the recommended adjustments to
3		expenses is a reduction to this rate base item of \$259,943. This adjustment is found or
4		Exhibit MEG-11.
5		
6	Q:	DO THE OCA ADJUSTMENTS IMPACT THE FEBRUARY 29, 2024 PRO
7		FORMA INCOME TAX EXPENSE?
8	A:	Yes. The OCA recommends adjustments to rate base and the capital structure, the former
9		reduces the available interest deduction and the later increases the interest deduction. The
10		OCA is also recommending adjustments to operating income that impact taxable income
11		The impact of these adjustments results in a net increase to income tax expense for the
12		water utility of \$477,284 and the wastewater utility of \$105,061. These adjustments are
13		found on OCA Errata Exhibit MEG-12.
14		
	V.	OTHER OCA WITNESSES
15	Q:	ARE THE RECOMMENDATIONS OF OTHER OCA WITNESSES INCLUDED
16		IN YOUR EXHIBITS?
17	A:	Yes. My testimony and exhibits include the recommendations of Dr. Habr on the cost of
18		capital adjustments, as well as acquisition adjustment recommendations of Ms. DeAngelo
	VI.	CONCLUSION
19	Q:	DOES THIS CONCLUDE YOUR TESTIMONY AT THIS TIME?
20	A:	Yes.

MARK E. GARRETT

CONTACT INFORMATION:

4028 Oakdale Farm Circle Edmond, OK 73013 (405) 203-5415

EDUCATION:

Juris Doctor Degree, With Honors, Oklahoma City University Law School, 1997 Post Graduate Hours in Accounting, Finance and Economics, 1984-85: University of Texas at Arlington; University of Texas at Pan American; Stephen F. Austin State University Bachelor of Arts Degree, University of Oklahoma, 1978

CREDENTIALS:

Member Oklahoma Bar Association, 1997, License No. 017629 Certified Public Accountant in Oklahoma, 1992, Certificate No. 11707-R Certified Public Accountant in Texas, 1986, Certificate No. 48514

WORK HISTORY:

GARRETT GROUP CONSULTING, INC. – Regulatory Consulting Practice (1996 - Present) Participates as a consultant and expert witness in gas and electric regulatory proceedings and other matters before regulatory agencies in rate case proceedings to determine just and reasonable rates. Reviews management decisions of regulated utilities regarding the reasonableness of prices paid for electric plant, gas plant, purchased power, renewable energy projects, natural gas supplies and transportation, and coal supplies and transportation. Participates in legislative advisory role regarding regulated utilities. Participates as an Instructor at NMSU Center for Public Utilities and as a Speaker at NARUC Staff Subcommittee on Accounting and Finance.

OKLAHOMA CORPORATION COMMISSION - Coordinator of Accounting and Financial Analysis (1991 - 1994) Planned and supervised the audits of major public utility companies doing business Oklahoma for the purpose of determining revenue requirements. Presented both oral and written testimony as an expert witness for Staff in defense of numerous accounting and financial recommendations related to cost-of-service based rates. Audit work and testimony covered all areas of rate base and operating expense. Supervised, trained and reviewed the audit work of numerous Staff CPAs and auditors. Promoted from Supervisor of Audits to Coordinator in 1992.

FREEDOM FINANCIAL CORPORATION - Controller (1987 - 1990) Responsible for all financial reporting including monthly and annual financial statements, cash flow statements, budget reports, long-term financial planning, tax planning and personnel development. Managed the General Ledger and Accounts Payable departments and supervised a staff of seven CPAs and accountants. Reviewed all subsidiary state and federal tax returns and facilitated the annual independent financial audit and all state or federal tax audits. Received promotion from Assistant Controller in September 1988.

SHELBY, RUCKSDASHEL & JONES, CPAs - Auditor (1986 - 1987) Audited the financial statements of businesses in the state of Texas, with an emphasis in financial institutions.

Previous Experience Related to Cost-of-Service, Rate Design, Pricing and Energy-Related Issues

- 1. Oncor Electric Delivery Company (Texas), 2022 (PUC Docket No. 53601) Participating as an expert witness on behalf of the Steering Committee of Cities before the Texas Public Utility Commission in Oncor's General Rate Case proceeding to provide testimony on various revenue requirement issues.
- 2. The York Water Company (2022) (Pennsylvania), (Docket No. R-2022-3031340 and R-2022-3032806) Participating as an expert witness on behalf of Office of Consumer Advocate ("OCA") before the Pennsylvania Public Utility Commission to address various revenue requirement issues in the York rate case.
- 3. Sierra Pacific Power Company, 2022 (Nevada), (Docket No. 22-06) Participated as an expert witness on behalf of Bureau of Consumer Protection ("BCP") before the Nevada Public Utility Commission to address various revenue requirement issues.
- **4. NV Energy, 2022 (Nevada), (Docket No. 22-003028)** Participating as an expert witness on behalf of Bureau of Consumer Protection ("BCP") before the Nevada Public Utility Commission to address various issues in the merger application of Sierra Pacific Power Company and Nevada Power Company.
- **5. Atmos MidTex (Texas), 2022 (Texas), (Dallas Annual Rate Review)** Participating as an expert witness on behalf of the City of Dallas before the Texas Railroad Commission in Atmos's Dallas Annual Rate Review ("DARR") proceeding. Sponsoring recommendations on various revenue requirement issues.
- **6. CenterPoint Energy Resources Corp., 2022 (Texas) (Docket No. 53442)** Participating as an expert witness for the City of Houston before the Texas Public Utility Commission the Company's Distribution Cost Recovery Factor sponsoring testimony on various cost recovery issues.
- 7. Cascade Natural Gas, 2021 (Washington) Participating as an expert witness on behalf of Public Counsel in Cascade's limited issue rate case application, sponsoring Public Counsel's revenue requirement schedules and testimony to address various revenue requirement and tax issues.
- 8. Oklahoma Gas and Electric Company, 2021 (Oklahoma), (Cause No. PUD 202100164) Participating as an expert witness on behalf of Oklahoma Industrial Energy Consumers ("OIEC")1 before the Oklahoma Corporation Commission in OG&E's general rate case application addressing various revenue requirement and rate design issues.
- 9. Southwestern Electric Power Company, 2021 (Texas), (PUC Docket No. 52397) Participating as an expert witness on behalf of Cities Advocating Reasonable Deregulation ("CARD Cities") before the Texas Public Utility Commission in SWEPCO's application to recover Uri storm costs.
- **10. Southwestern Public Service Co., 2021 (Texas) (Docket No. 52210)** Participating as an expert witness on behalf of the Alliance of Xcel Municipalities ("AXM") before the Texas Public Utility Commission in SWEPCO's application to recover Uri storm costs.
- 11. CenterPoint Energy Resources Corp., 2021 (Texas) (Docket No. OS—00007061) Participating as an expert witness for the City of Houston before the Texas Rail Road Commission in a

¹ OIEC is an association of industrial manufacturing facilities in Oklahoma.

- consolidated application from the large natural gas distribution utilities in Texas to securitize and recover URI storm costs from February 2021.
- 12. Indiana Michigan Power, 2021 (Indiana), (Docket No. 45576) Participating as an expert witness on behalf of the Office of Utility Consumer Counselor in I&M's rate case application, sponsoring testimony to address various revenue requirement and tax issues.
- 13. Chugach Electric Association, 2021 (Alaska), (Docket No. U-21-059) Participating as an expert witness on behalf of Providence Health and Services before the Alaska Regulatory Commission. Sponsoring testimony to address Chugach's application to address a shortfall in revenues after its acquisition of Municipal Light and Power.
- **14. Southwestern Public Service Co., 2021 (Texas) (Docket No. 51802)** Participating as an expert witness on behalf of the Alliance of Xcel Municipalities ("AXM") in the SPS general rate case application to provide testimony before the Texas Public Utility Commission regarding rate base and operating expense issues.
- **15. El Paso Electric Company, 2021 (Texas), (Docket No. 52195)** Participating as an expert witness on behalf of the City of El Paso in the El Paso Electric Company general rate case to provide recommendations to the Texas Public Utility Commission regarding rate base and operating expense issues.
- **NV Energy, 2021 (Nevada), (Docket No. 21-06001)** Participating as an expert witness on behalf of the Southern Nevada Gaming Group ("SNGG") before the Nevada PUC. Sponsoring written and oral testimony in the Nevada Power and Sierra Pacific Joint Integrated Resource Plan ("IRP") to provide analysis of the proposed generation additions and cost allocations.
- 17. Summit Utilities Arkansas (Arkansas), (Docket No. 21-060-U) Participating as an expert witness on behalf of Arkansas Gas Consumers and the Hospitals and Higher Education Group before the Arkansas Public Service Commission in Summit's proposed acquisition of CenterPoint Energy's Arkansas assets. Sponsoring testimony regarding the acquisition premium, ratepayer benefits and affiliate transactions.
- **18. Doyon Utilities, 2021 Alaska (Regulatory Commission of Alaska)** Participating as an expert witness on behalf of the Department of Defense to provide expert testimony in twelve rate case reviews for the utility systems of Fort Wainwright, Fort Greely and Joint Base Elmendorf-Richardson before the Regulatory Commission of Alaska.
- 19. NV Energy, 2021 (Nevada), (Docket No. 21-03040) Participating as an expert witness on behalf of the Southern Nevada Gaming Group ("SNGG") before the Nevada PUC to provide written and oral testimony in the Nevada Power and Sierra Pacific Joint Natural Disaster Protection Plan ("NDPP").
- 20. Public Service Company of Oklahoma, 2021 (Oklahoma) (Cause No. PUD 202100022) Participating as an expert witness on behalf of OIEC before the OCC in AEP/PSO's general rate case application to provide testimony on various revenue requirement, cost of service and rate design issues.
- 21. Oklahoma Gas and Electric Company, 2021 (Oklahoma), (Cause No. PUD 202100072) Participating as an expert witness on behalf of Oklahoma Industrial Energy Consumers ("OIEC") before the Oklahoma Corporation Commission in OG&E's application for securitization of its winter

storm costs.

- 22. Southwestern Electric Power Company, 2021 (Arkansas), (Docket No. 19-008-U) Participating as an expert witness on behalf of Western Arkansas Large Energy Consumers ("WALEC")2 before the Arkansas Public Service Commission in SWEPCO's Formula Rate Plan review and extraordinary winter storm cost recovery plan.
- **23. Atmos MidTex (Texas), 2021 (Texas), (Dallas Annual Rate Review)** Participating as an expert witness on behalf of the City of Dallas before the Texas Railroad Commission in Atmos's Dallas Annual Rate Review ("DARR") proceeding. Sponsoring recommendations on various revenue requirement issues.
- 24. PNM Resources / Avangrid Merger, 2021 (New Mexico), (Case No. 20-00222-UT) Participating as an expert witness for the Albuquerque Bernalillo County Water Utility Authority ("ABCWUA") before the New Mexico Public Regulation Commission to address various merger-related issues.
- **25. Oklahoma Gas & Electric Co., 2020 (Arkansas) (Docket No. 18-046-FR)** Participating as an expert witness on behalf of the Arkansas River Valley Energy Consumers ("ARVEC")³ before the Arkansas Public Service Commission in OG&E's Formula Rate Plan application to provide testimony on cost of service issues.
- **26.** Public Service Company of Oklahoma, 2020 (Oklahoma) (Cause No. PUD 202000097) Participating as an expert witness on behalf of OIEC before the OCC in AEP/PSO's application for approval of facilities proposed for Fort Sill to address cost recovery and rate design issues.
- 27. El Paso Electric Company, 2020 (Texas), (Docket No. 51348) Participating as an expert witness on behalf of the City of El Paso in the El Paso Electric Company annual Distribution Cost Recovery Factor ("DCRF") application to provide recommendations to the Texas Public Utility Commission regarding the Company's requested DCRF increase.
- **28. NV Energy, 2020 (Nevada), (Docket No. 20-07023)** Participating as an expert witness on behalf of the Southern Nevada Gaming Group ("SNGG") before the Nevada PUC. Sponsoring written and oral testimony in the Nevada Power and Sierra Pacific Joint Integrated Resource Plan ("IRP") to provide analysis of the proposed transmission additions and cost allocations.
- 29. Southwestern Electric Power Company, 2020 (Texas), (PUC Docket No. 51415) Participating as an expert witness on behalf of Cities Advocating Reasonable Deregulation ("CARD Cities") before the Texas Public Utility Commission in SWEPCO's general rate case application to provide testimony on various revenue requirement issues.
- 30. Dominion Energy South Carolina, 2020 (South Carolina), (Docket No. 2020-125-E) Participating as an expert witness on behalf of DOD/FEA in DESC's rate case application, sponsoring testimony to address various revenue requirement, rate design and tax issues.
- 31. Cascade Natural Gas, 2020 (Washington), (NG-UG-200568) Participating as an expert witness on behalf of Public Counsel in Cascade's rate case application, sponsoring testimony to address various revenue requirement and tax issues.

² WALEC is an association of industrial manufacturing facilities in Arkansas.

³ ARVEC is an association of industrial manufacturing facilities in northwest Arkansas.

- 32. Nevada Power Company, 2020 (Nevada) (Docket No. 20-06003) Participating as an expert witness on behalf of Bureau of Consumer Protection ("BCP") before the Nevada Public Utility Commission to address various revenue requirement issues in the case.
- 33. El Paso Electric Company, 2020 (New Mexico), (Docket RC-20-00104-UT) Participating as an expert witness on behalf of the City of Las Cruces and Dona Ana county in EPE's rate case application, sponsoring testimony to address various revenue requirement and tax issues.
- 34. Oklahoma Gas and Electric Company, 2020 (Oklahoma), (Cause No. PUD 202000021) Participating as an expert witness on behalf of Oklahoma Industrial Energy Consumers ("OIEC") before the Oklahoma Corporation Commission in OG&E's Grid Enhancement Plan application. Sponsoring testimony to address the utility's proposed cost recovery mechanism and cost of service allocations.
- **Philadelphia Gas Works, 2020 (Pennsylvania), (Docket No. R-2020-3017206)** Participating expert witness on behalf of Office of Consumer Advocate ("OCA") before the Pennsylvania Public Utility Commission to address various revenue requirement issues in PGW's rate case.
- **36. Atmos MidTex (Texas), 2020 (Texas), (Dallas Annual Rate Review)** Participating as an expert witness on behalf of the City of Dallas before the Texas Railroad Commission in Atmos's Dallas Annual Rate Review ("DARR") proceeding. Sponsoring recommendations on various revenue requirement issues.
- **Southwest Gas Corporation, 2020 (Nevada) (Docket No. 20-02023)** Participated as an expert witness on behalf of Bureau of Consumer Protection ("BCP") before the Nevada Public Utility Commission to address various revenue requirement issues.
- **Solution** 2019 (Texas), (Docket No. 49849) Participating as an expert witness on behalf of the City of El Paso in the merger of El Paso Electric Company with Sun Jupiter Holdings LLC and IIF US Holdings 2 LLP to provide recommendations to the Texas Public Utility Commission regarding the treatment of tax issues in the proposed merger agreement.
- **39. Nevada Senate Bill 300 Rulemaking, 2019 (Nevada), (Docket No. 19-069008)** Participating as an expert witness on behalf of the Southern Nevada Gaming Group before the Nevada PUC to assist with the development of alternative ratemaking regulations under SB 300.
- **40. Entergy Arkansas, 2019 (Arkansas), (Docket No.** 19-020-TF) Participating as an expert witness on behalf of the Arkansas industrial consumer group to review EAI's application to allocate its perceived under-recovery of off-system sales margins to Arkansas customers.
- 41. Public Service Company of Oklahoma, 2019 (Oklahoma) (Cause No. PUD 201900201) Participating as an expert witness on behalf of OIEC before the OCC in AEP/PSO's application for approval for the cost recovery of selected wind facilities.
- **42. Oklahoma Gas & Electric Co., 2019 (Arkansas) (Docket No. 15-034-U)** Participated as an expert witness on behalf of the Arkansas River Valley Energy Consumers ("ARVEC") before the Arkansas Public Service Commission in OG&E's Act 310 Environmental Compliance Plan ("ECP") Rider case to provide testimony on whether OG&E can apply for an ECP rider now that it has elected to utilize an annual Formula Rate Plan with a 4% annual cap.
- 43. Oklahoma Gas & Electric Co., 2019 (Arkansas) (Docket No. 18-046-FR) Participating as an

- expert witness on behalf of the Arkansas River Valley Energy Consumers ("ARVEC") before the Arkansas Public Service Commission in OG&E's Formula Rate Plan application to provide testimony on various revenue requirement, cost of service and rate design issues.
- **44. Southwestern Public Service Co., ("SPS") 2019 (Texas), (Docket No. 49831)** Participating as an expert witness on behalf of the Alliance of Xcel Municipalities ("AXM") in the SPS general rate case application to provide testimony before the Texas Public Utility Commission regarding rate base and operating expense issues and sponsor the AXM Accounting Exhibits.
- **45. Southwestern Electric Power Company, 2019 (Arkansas), (Docket No. 19-008-U)** Participated as an expert witness on behalf of Western Arkansas Large Energy Consumers ("WALEC") before the Arkansas Public Service Commission in SWEPCO's rate case to address various revenue requirement and rate design issues.
- 46. Anchorage Municipal Light and Power and Chugach Electric Association, 2019 (Alaska), (Docket No. U-19-020) Participating as an expert witness before the Regulatory Commission of Alaska on behalf of Providence Health and Services to provide testimony on pending acquisition of ML&P by Chugach to address the proposed acquisition premium and other issues associated with the public interest.
- **47. Sierra Pacific Power Company, 2019 (Nevada), (Docket No. 19-06002)** Participated as an expert witness on behalf of Bureau of Consumer Protection ("BCP") before the Nevada Public Utility Commission to address various revenue requirement issues.
- **48. Air Liquide Hydrogen Energy U.S., 2019 (Nevada), (704B Exit Application, Docket No. 19-02002)** Participated as an expert witness on behalf of Air Liquide before the Nevada PUC. Sponsoring written and oral testimony in Air Liquide's application to purchase energy and capacity from a provider other than NV Energy.
- 49. Empire District Electric Company, 2019 (Oklahoma), (Cause No. PUD 201800133) Participated as an expert witness on behalf of Oklahoma Industrial Energy Consumers ("OIEC") before the Oklahoma Corporation Commission in Empire's general rate case to address various revenue requirement, rate design and tax issues.
- **50. Indiana Michigan Power, 2019 (Indiana), (Docket No. 45235)** Participating as an expert witness on behalf of the Office of Utility Consumer Counselor in I&M's rate case application, sponsoring testimony to address various revenue requirement and tax issues.
- **Puget Sound Energy, 2019 (Washington), (Docket No. 190529-30)** Participating as an expert witness on behalf of Public Counsel in PSE's rate case application, sponsoring testimony to address various revenue requirement and tax issues.
- **Anchorage Municipal Light and Power, 2019 (Alaska), (Docket No. U-18-102)** Participating as an expert witness before the Regulatory Commission of Alaska on behalf of Providence Health and Services to provide testimony on the ratemaking treatment of ML&P's acquired interest in the Beluga River Unit gas field with ratepayer funds.
- 53. Oklahoma Gas and Electric Company, 2019 (Oklahoma), (Cause No. PUD 201800140) Participated as an expert witness on behalf of Oklahoma Industrial Energy Consumers ("OIEC") before the Oklahoma Corporation Commission in OG&E's General Rate Case application. Sponsoring testimony to address the utility's overall revenue requirement and rate design proposals.

- **Cascade Natural Gas, 2019 (Washington) (Docket No. 190210)** Participated as an expert witness on behalf of Public Counsel in Cascade's rate case application. Sponsoring testimony to address various revenue requirement and tax issues.
- **CenterPoint Energy Houston Electric, 2019 (Texas) (Docket No. 49421)** Participated as an expert witness on behalf of City of Houston before the Public Utility Commission of Texas in CenterPoint Energy's rate case application to provide testimony on various revenue requirement issues.
- **Oklahoma Gas & Electric Co., 2018 (Arkansas) (Docket No. 18-046-FR** Participated as an expert witness on behalf of the Arkansas River Valley Energy Consumers ("ARVEC") before the Arkansas Public Service Commission in OG&E's Formula Rate Plan application to provide testimony on various revenue requirement, cost of service and rate design issues.
- **Southwest Gas Corporation, 2018 (Nevada) (Docket No. 18-05031)** Participated as an expert witness on behalf of Bureau of Consumer Protection ("BCP") before the Nevada Public Utility Commission to address various revenue requirement issues.
- **Puget Sound Energy, 2018 (Washington) (Docket No. UE 18089)** Participated as an expert witness on behalf of Public Counsel in PSE's Emergency Rate Relief proceeding. Sponsoring testimony to address the application itself and various revenue requirement and TCJA issues.
- **Public Service Company of Oklahoma, 2018 (Oklahoma) (Cause No. PUD 201800097)** Participated as an expert witness on behalf of OIEC before the OCC in AEP/PSO's general rate case application to provide testimony on various revenue requirement, cost of service and rate design issues.
- **Entergy Texas Inc., 2018 (Texas) (PUC Docket No. 48371)** Participated as an expert witness on behalf of the Cities in ETI's general rate case to provide testimony on various cost of service issues and on the utility's overall revenue requirement.
- 61. Atmos Energy Corp., Mid-Tex Division, 2018 (Texas) (Docket No. GUD No. 10779) Participated as an expert witness on behalf of the Atmos Texas Municipalities to review the utility's requested revenue requirement including TCJA adjustments.
- **CenterPoint Energy Houston Electric, LLC, 2018 (Texas) (Docket No. 48226)** Participated as an expert witness on behalf of City of Houston before the Public Utility Commission of Texas in CenterPoint Energy's application for approval to amend its distribution cost recovery factor (DCRF) to address the utility's treatment of the Tax Cuts and Jobs Act of 2017 ("TCJA").
- **63. NV Energy, 2018 (Nevada) (Docket No. 17-10001)** Participated as an expert witness on behalf of the Energy Choice Initiative ("ECI") before the Governor's Committee on Energy Choice, in an investigatory docket of an Issue of Public Importance Regarding the Pending Energy Choice Initiative and the Possible Restructuring of Nevada's Energy Industry.
- **64. Southwestern Electric Power Company, 2018 (Texas) (PUC Docket No. 48233)** Participated as an expert witness on behalf of Cities Advocating Reasonable Deregulation ("CARD Cities") before the Texas Public Utility Commission in SWEPCO's application to implement bae rate reductions as result of the Tax Cuts and Jobs Act of 2017 ("TCJA").

- **Oncor Electric Delivery Company (Texas), 2018 (PUC Docket No. 48325)** Participated as an expert witness before the Texas Public Utility Commission in Oncor's application for authority to decrease rates based on the Tax Cuts and Jobs Act of 2017 ("TCJA").
- Public Service Company of Oklahoma ("PSO") (Oklahoma), 2018 (Cause No. PUD 201800019)
 Participated as an expert witness on behalf of OIEC before the OCC in AEP/PSO's application regarding ADIT under the Tax Cuts and Jobs Act of 2017 ("TCJA").
- **Oklahoma Natural Gas Company, 2018 (Cause No. PUD 201800028)** Participated as an expert witness on behalf of the OIEC before the Oklahoma Corporation Commission in ONG's Performance Based Rate Change Tariff, to address issues involving the impacts of the Tax Cuts and Jobs Act of 2017 ("TCJA").
- **Oklahoma Gas & Electric Co. (Arkansas), 2018 (Docket No. 18-006-U** Participated as an expert on behalf of the Arkansas River Valley Energy Consumers ("ARVEC") before the Arkansas Public Service Commission in the matter of an Investigation of the Effect on Revenue Requirements Resulting from Changes to Corporate Income Tax Rates under the Tax Cuts and Jobs Act of 2017 ("TCJA").
- **Texas Gas Service, 2018** Participated as a consulting expert on behalf of the City of El Paso regarding implementation of rate changes related to the Tax Cuts and Jobs Act of 2017 ("TCJA").
- 70. Sierra Pacific Power Company (Nevada), 2018 (Docket No. 18-02011 and 18-02015) Participated as an expert witness on behalf of the Northern Nevada Utility Customers⁴ before the Nevada PUC in SPPC's application related to the Tax Cuts and Jobs Act of 2017 ("TCJA").
- 71. Nevada Power Company (Nevada), 2018 (Docket No. 18-02010 and 18-02014) Participated as an expert witness on behalf of the Southern Nevada Gaming Group before the Nevada PUC in NPC's application related to the Tax Cuts and Jobs Act of 2017 ("TCJA").
- 72. Public Service Company of Oklahoma ("PSO") (Oklahoma), 2017 (Cause No. PUD 201700572)

 Participated as an expert witness on behalf of OIEC before the OCC in AEP/PSO's application to examine the impacts of the Tax Cuts and Jobs Act of 2017 ("TCJA").
- 73. Empire District Electric Company ("EPE") (Oklahoma), 2018 (Cause No. PUD 201700471) Participated as an expert witness on behalf of Oklahoma Industrial Energy Consumers ("OIEC") before the Oklahoma Corporation Commission in Empire's application to add 800MW of wind. Sponsoring testimony to address the various ratemaking and tax issues.
- 74. Oklahoma Gas and Electric Company ("OG&E"), (Oklahoma), 2018 (Cause No. PUD 201700496) Participated as an expert witness on behalf of Oklahoma Industrial Energy Consumers ("OIEC") before the Oklahoma Corporation Commission in OG&E's General Rate Case application. Sponsoring testimony to address the utility's overall revenue requirement and rate design proposals.
- 75. Public Service Company of Oklahoma ("PSO") (Oklahoma), 2017 (Cause No. PUD 201700276)

 Participated as an expert witness on behalf of OIEC before the OCC in AEP/PSO's Wind Catcher case to provide testimony on various ratemaking and tax issues.

Page 8 of 23

⁴ The Northern Nevada Utility Consumers is a group of large commercial and industrial customers in the SPPC service territory.

- 76. Southwestern Public Service Co. ("SPS") (Texas), 2017 (PUCT Docket No. 47527) Participating as an expert witness on behalf of the Alliance of Xcel Municipalities ("AXM") in the SPS general rate case application to provide testimony before the Texas Public Utility Commission regarding rate base and operating expense issues and sponsor the AXM Accounting Exhibits.
- 77. Southwestern Electric Power Company, ("SWEPCO") (Texas), 2017 (PUC Docket No. 47461) Participated as an expert witness on behalf of Cities Advocating Reasonable Deregulation ("CARD Cities") before the Texas Public Utility Commission in SWEPCO's Wind Catcher case proceeding to provide testimony on various ratemaking and tax issues.
- **78. Atmos MidTex (Texas), 2017 (Docket No. 10640)** Participated as an expert witness on behalf of the City of Dallas before the Texas Railroad Commission in Atmos's Dallas Annual Rate Review ("DARR") proceeding. Sponsoring testimony on various revenue requirement issues.
- **79. Avista Utilities (Washington), 2017 (Docket Nos. UE-170485/UG-170486)** Participated as an expert witness on behalf of Public Counsel in Avista's general rate case proceeding. Sponsoring testimony to address various revenue requirement issues and Avista's requested attrition adjustments.
- **80. Nevada Power Company (Nevada), 2017 (Docket No. 17-06003)** Participated as an expert witness on behalf of the Southern Nevada Hotel Group before the Nevada PUC in NPC's general rate case proceeding. Sponsoring testimony on various revenue requirement, depreciation, and rate design issues.
- **81.** Anchorage Municipal Light and Power (Alaska), 2017 (Docket No. U-17-008) Participating as an expert witness before the Regulatory Commission of Alaska on behalf of Providence Health and Services to provide testimony in ML&P's General Rate Case on various revenue requirement and rate design issues.
- **Public Service Company of Oklahoma (Oklahoma), 2017 (Cause No. PUD 201700151)** Participated as an expert witness on behalf of OIEC before the OCC in AEP/PSO's general rate case application to provide testimony on various revenue requirement and rate design issues.
- **83. Oncor Electric Delivery Company (Texas), 2017 (PUC Docket No. 46957**) Participated as an expert witness on behalf of the Steering Committee of Cities before the Texas Public Utility Commission in Oncor's General Rate Case proceeding to provide testimony on various revenue requirement issues.
- **EverSource** (Massachusetts), 2017 (DPU Docket No. 17-05) Participated as an expert witness before the Massachusetts Department of Public Utilities EverSource's General Rate Case application on behalf of Energy Freedom Coalition of America to provide testimony to address various revenue requirement issues.
- **85. El Paso Electric Company (Texas), 2017 (PUC Docket No. 46831)** Participated as an expert witness on behalf of the City of El Paso before the Texas Public Utility Commission in El Paso's General Rate Case proceeding to provide testimony on various revenue requirement issues.
- **86. Atmos Pipeline Texas (Texas), 2017 (Docket No. 10580)** Participated as an expert witness on behalf of the City of Dallas before the Texas Railroad Commission in APT's General Rate Case application, sponsoring testimony to address various revenue requirement proposals.
- 87. Empire District Electric Company (Oklahoma), 2017 (Cause No. PUD 201600468) Participated

- as an expert witness on behalf of Oklahoma Industrial Energy Consumers ("OIEC") before the Oklahoma Corporation Commission in Empire's General Rate Case application. Sponsoring testimony to address the utility's overall revenue requirement and rate design proposals.
- **88.** Caesars Enterprise Service, LLC (Nevada), 2016 (704B Exit Application) Participated as an expert witness on behalf of Caesars before the Nevada PUC. Sponsoring written and oral testimony in Caesar's application to purchase energy and capacity from a provider other than Nevada Power.
- 89. Southwestern Electric Power Company (Texas), 2016 (PUC Docket No. 46449) Participated as an expert witness on behalf of Cities Advocating Reasonable Deregulation ("CARD Cities") before the Texas Public Utility Commission in SWEPCO's general rate case proceeding to provide testimony on various revenue requirement issues.
- **90. CenterPoint Texas, 2016 (Docket No. 10567)** Participated as an expert witness on behalf of City of Houston before the Texas Railroad Commission in CenterPoint's general rate case application, sponsoring testimony to address the utility's overall revenue requirement and various rate design proposals.
- **91. Entergy Texas, Inc., 2016 (Docket No. 46357)** Participated as an expert witness on behalf Cities Served by Applicant before the Texas PUC in ETI's application to amend its Transmission Cost Recovery Factor.
- **92. Anchorage Municipal Light and Power, 2016 (Docket No. U-16-060)** Participated as an expert witness before the Regulatory Commission of Alaska on behalf of Providence Health and Services to provide testimony on the ratemaking treatment of ML&P's acquired interest in the Beluga River Unit gas field with ratepayer funds.
- **93. Arizona Public Service Company, 2016 (Docket No. E-01345A-16-0036)** Participated as an expert witness before the Arizona Corporation Commission in APS's General Rate Case application on behalf of Energy Freedom Coalition of America to provide written and oral testimony to address various revenue requirement issues.
- **94. Oklahoma Gas & Electric Co. (Arkansas), 2016 (Docket No. 16-052-U** Participated as an expert witness on behalf of the Arkansas River Valley Energy Consumers ("ARVEC") before the Arkansas Public Service Commission in OG&E's general rate case application to provide testimony on various revenue requirement, cost of service and rate design issues.
- **95. Sierra Pacific Power Company (Nevada), 2016 (Docket No. 16-06006)** Participated as an expert witness on behalf of the Northern Nevada Utility Customers before the Nevada PUC in SPPC's general rate case proceeding. Sponsored testimony on various revenue requirement, depreciation, and rate design issues.
- **96.** Tucson Electric Power, 2016 (Docket No. E-01933A-15-0322) Participated as an expert witness before the Arizona Corporation Commission in TEP's General Rate Case application, on behalf of Energy Freedom Coalition of America providing written and oral testimony to address the utility's cost of service study and rate design proposals.
- **97. Texas Gas Service, 2016 (Docket No. 10506)** Participated as an expert witness on behalf of El Paso before the Texas Railroad Commission in TGS's General Rate Case application, sponsoring testimony to address the utility's overall revenue requirement and various rate design proposals.

- **98. Texas Gas Service, 2016 (Docket No. 10488)** Participated as an expert witness on behalf of South Jefferson County Service Area ("SJCSA") before the Texas Railroad Commission in TGS's General Rate Case application, sponsoring testimony to address the utility's overall revenue requirement and various rate design proposals.
- 99. Oklahoma Gas and Electric Company, 2016 (Cause No. PUD 201500273) Participated as an expert witness on behalf of Oklahoma Industrial Energy Consumers ("OIEC") before the Oklahoma Corporation Commission in OG&E's General Rate Case application. Sponsoring testimony to address the utility's overall revenue requirement and rate design proposals.
- **100. Oklahoma Gas & Electric Company, 2016 (Cause No. PUD 201500273)** Participated as an expert witness on behalf of The Alliance for Solar Choice ("TASC") before the Oklahoma Corporation Commission to address OG&E's proposed Distributed Generation ("DG") rates for solar DG customers.
- **101. Anchorage Municipal Light and Power, 2016 (Docket No. U-13-097)** Participated as an expert witness before the Regulatory Commission of Alaska on behalf of Providence Health and Services to provide testimony on rates and tariffs proposed for customer-owned combined heat and power plant generation.
- **102. Oklahoma Natural Gas Company, 2015 (Cause No. PUD 201500213)** Participated as an expert witness on behalf of the OIEC before the Oklahoma Corporation Commission in ONG's General Rate Case application. Sponsored testimony to address the utility's overall revenue requirement and rate design proposals.
- **103. Oklahoma Gas & Electric Company, 2015 (Cause No. PUD 201500274)** Participated as an expert witness on behalf of The Alliance for Solar Choice ("TASC") before the Oklahoma Corporation Commission to address OG&E's proposed Distributed Generation ("DG") rates for solar DG customers.
- **104. Nevada Power Company, 2015** (Docket No. 15-07004) Participated as an expert witness on behalf of the Southern Nevada Hotel Group ("SNHG")⁵ before the Nevada PUC. Sponsoring written and oral testimony in NPC's 2015 Integrated Resource Plan to provide analysis of the On Line transmission line allocation, the Siverhawk plant acquisition, and the Griffith contract termination.
- **105. Oklahoma Gas & Electric Company, 2015 (Docket No. 15-034-U)** Participated as an expert witness on behalf of the Arkansas River Valley Energy Consumers ("ARVEC") before the Arkansas Public Service Commission in OG&E's Act 310 application to implement a rider to recover environmental compliance costs.
- **106. MGM Resorts, LLC, 2015** (Docket No. 15-05017) Participated as an expert witness on behalf of the MGM Resorts, LLC before the Nevada PUC. Sponsoring written and oral testimony in MGM's application to purchase energy and capacity from a provider other than Nevada Power.
- **107. Entergy Arkansas, 2015 (Docket No. 15-015-U)** Participated as an expert witness on behalf of the Hospital and Higher Education Group ("HHEG") an intervener group that includes the University of Arkansas and several hospitals before the Arkansas PSC in Entergy's general rate case to provide testimony on various revenue requirement issues.

⁵ The Southern Nevada Hotel Group is comprised of Boyd Gaming, Caesars Entertainment, MGM Resorts, Station Casinos, Venetian Casino Resort, and Wynn Las Vegas.

- **108. Public Service Company of Oklahoma, 2015 (Cause No. PUD 201500208)** Participated as an expert witness on behalf of OIEC before the OCC in AEP/PSO's general rate case application to provide testimony on various cost-of-service issues and on the utility's overall revenue requirement and rate design proposals.
- 109. Nevada Power Company, 2014 (Docket No. 14-05003) Participated as an expert witness on behalf of the Southern Nevada Hotel Group ("SNHG") before the Nevada PUC. Sponsored written and oral testimony in NPC environmental compliance case, called the Emissions Reduction and Capacity Replacement case. The main focus of our testimony was our recommendation to eliminate the \$438M Moapa solar project from the compliance plan.
- 110. Nevada Power Company, 2014 (Docket No. 14-05004) Participated as an expert witness on behalf of the Southern Nevada Hotel Group before the Nevada PUC to sponsor written and oral testimony in both the revenue requirement phase and the rate design phase of the proceedings to establish prospective cost-of-service based rates for the power company.
- 111. Oklahoma Gas and Electric Co., 2014 (Cause No. PUD 201400229) Participated as an expert witness on behalf of Oklahoma Industrial Energy Consumers ("OIEC") in OG&E's Environmental Compliance and Mustang Modernization Plan before the Oklahoma Corporation Commission to provide testimony addressing the economics and rate impacts of the plan.
- 112. Sourcegas Arkansas, Inc., 2014 (Docket No. 13-079-U) Participated as an expert witness on behalf of the Hospital and Higher Education Group ("HHEG"), an intervener group that includes the University of Arkansas and several hospitals before the Arkansas PSC in SGA's general rate case to provide testimony on various revenue requirement issues.
- 113. Anchorage Municipal Light and Power, 2014 (Docket No. U-13-184) Participated as an expert witness before the Alaska Regulatory Utility Commission on behalf of Providence Health and Services to provide testimony on various revenue requirement and cost of service issues.
- **Public Service Company of Oklahoma, 2014 (Cause No. PUD 201300217)** Participated as an expert witness on behalf of OIEC before the OCC in AEP/PSO's general rate case application to provide testimony on various cost-of-service issues and on the utility's overall revenue requirement and rate design proposals.
- **115. Entergy Texas Inc., 2013 (PUC Docket No. 41791)** Participated as an expert witness on behalf of the Cities⁶ in ETI's general rate case to provide testimony on various cost of service issues and on the utility's overall revenue requirement.
- 116. MidAmerican/NV Energy Merger, 2013 (Docket No. 13-07021) Participated as an expert witness on behalf of the Southern Nevada Hotel Group ("SNHG") before the Nevada PUC. Sponsored testimony to address various issues raised in the proposed acquisition of NV Energy by MidAmerican Energy Holdings Company, including capital structure and acquisition premium recovery issues.
- 117. Entergy Arkansas, 2013 (Docket No. 13-028-U) Participated as an expert witness on behalf of the Hospital and Higher Education Group ("HHEG") an intervener group that includes the University of Arkansas and several hospitals before the Arkansas PSC in Entergy's general rate case to provide

Page 12 of 23

⁶ The Cities include Beaumont, Conroe, Groves, Houston, Huntsville, Orange, Navasota, Nederland, Pine Forest, Pinehurst, Port Arthur, Port Neches, Rose City, Shenandoah, Silsbee, Sour Lake, Vidor, and West Orange.

testimony on various revenue requirement issues.

- 118. Sierra Pacific Power Company, 2013 (Docket No. 13-06002) Participated as an expert witness on behalf of the Northern Nevada Utility Customers⁷ before the Nevada PUC in SPPC's general rate case proceeding to provide testimony on various cost of service and revenue requirement issues. Sponsored written and oral testimony in the depreciation phase, the revenue requirement phase and the rate design phase of these proceedings.
- **119. Gulf Power Company, 2013 (Docket No. 130140-EI)** Participated as an expert witness on behalf of the Office of Public Counsel before the Florida Commission in Gulf Power's general rate case proceeding to provide testimony on various revenue requirement issues.
- **120. Public Service Company of Oklahoma, 2013 (Cause No. PUD 201200054)** Participated as an expert witness on behalf of the OIEC before the Oklahoma Corporation Commission ("OCC") to provide testimony in PSO's application seeking Commission approval of its settlement agreement with EPA.
- **121. Southwestern Electric Power Company, 2012 (PUC Docket No. 40443)** Participated as an expert witness on behalf of Cities Advocating Reasonable Deregulation ("CARD Cities") before the Texas Public Utility Commission in SWEPCO's general rate case proceeding to provide testimony on various cost of service issues and on the utility's overall revenue requirement.
- **122. Doyon Utilities, 2012 Alaska Rate Case** (Docket No. TA7-717) Participated as an expert witness consultant on behalf of the Department of Defense to provide expert testimony in twelve rate case reviews for the utility systems of Fort Wainwright, Fort Greely and Joint Base Elmendorf-Richardson before the Regulatory Commission of Alaska.
- **123. University of Oklahoma, 2012** Participated as an expert witness on behalf of the University of Oklahoma to provide expert testimony on various revenue requirement issues in the University's general rate case with the Corix Group, which provides utility services to the University.
- **Public Service Company of Oklahoma, 2012 (Cause No. PUD 201200079)** Participated as an expert witness on behalf of the OIEC before the Oklahoma Corporation Commission to provide expert testimony addressing the utility's request to earn additional compensation on a 510MW purchased power agreement with Exelon
- **125. Centerpoint Energy Texas Gas, 2012 (Docket No.** GUD 10182) Participated as an expert witness on behalf of the Steering Committee of Cities before the Texas Railroad Commission to provide expert testimony on various revenue requirement issues.
- **126. Entergy Texas Inc., 2012 (PUC Docket No. 39896)** Participated as an expert witness on behalf of the Cities in ETI's general rate case to provide testimony on various cost of service issues and on the utility's overall revenue requirement.
- **127. Oklahoma Natural Gas Company, 2012 (Cause No. PUD 2012-029)** Participated as an expert witness on behalf of the OIEC before the OCC in ONG's Performance Based Rate ("PBR") application seeking Commission approval of a requested rate increase based upon formula results for 2011.

Qualifications of Mark E. Garrett

⁷ The Northern Nevada Utility Consumers is a group of large commercial and industrial customers in the SPPC service territory.

- **128. University of Oklahoma, 2012** Assisted the University of Oklahoma with an audit of the costs associated with its six utility operations and its contract with the Corix Group to provide utility services to the university.
- **129. Oklahoma Gas and Electric Company, 2012 (Cause No. PUD 2011-186)** Participated as an expert witness on behalf of the OIEC before the OCC in OG&E's application seeking Commission approval of a special contract with Oklahoma State University and a wind energy purchase agreement in connection therewith.
- **130. Empire Electric Company, 2011, (Cause No. PUD 11-082)** Participated as an expert witness on behalf of Enbridge before the OCC in Empire's rate case to provided testimony in both the revenue requirement and rate design phases of the proceedings to establish prospective cost-of-service based rates for the power company.
- **131. Nevada Power Company, 2011, (Docket No. 11-04010)** Participated as an expert witness on behalf of the Southern Nevada Hotel Group ("SNHG") before the Nevada PUC. Sponsored written and oral testimony to address proposed changes to the Company's customer deposit rules.
- **Nevada Power Company, 2011, (Docket No. 11-06006)** Participated as an expert witness on behalf of the Southern Nevada Hotel Group before the Nevada PUC. Sponsored written and oral testimony in both the revenue requirement phase and the rate design phase of the proceedings to establish prospective cost-of-service based rates for the power company.
- **Public Service Company of Oklahoma, 2011 (Cause No. PUD 2011-106)** Participated as an expert witness on behalf of the OIEC before the OCC in PSO's application seeking rider recovery of third party SPP transmission costs and fees.
- **134. Oklahoma Gas and Electric Company, 2011 (Cause No. PUD 2011-087)** Participated as an expert witness on behalf of OIEC before the OCC in OG&E's rate case to provided testimony in both the revenue requirement and rate design phases of the proceedings to establish prospective cost-of-service based rates for the power company.
- **135. Oklahoma Gas & Electric Company, 2011 (Docket No. 10-109-U)** Participated as an expert witness on behalf of Gerdau Macsteel before the Arkansas Public Service Commission in OG&E's application to recover Smart Grid costs to make recommendations regarding the allocation of the Smart Grid costs.
- **136. Oklahoma Gas & Electric Company, 2011 (Cause No. PUD 2011-027)** Participated as an expert witness on behalf of the OIEC before the OCC in OG&E's application seeking to include retiree medical expense in the Company's pension tracker mechanism.
- 137. Public Service Company of Oklahoma, 2011 (Cause No. PUD 2010-50) Participated as an expert witness on behalf of OIEC before the Oklahoma Corporation Commission in AEP/PSO's application to recover ice storm O&M expenses through a regulatory asset/rider mechanism to address tax impact and return issues in the proposed rider.
- **Public Service Company of Colorado, 2011 (Docket No. 10AL-908E)** Participated as an expert witness on behalf of the Colorado Retail Council ("CRC") before the Colorado Public Utilities Commission providing written and live testimony to address PSCo's proposed Environmental Tariff.

- **139. Oklahoma Gas & Electric Company, 2011 (Docket No. 10-067-U)** Participated as an expert witness on behalf of the Northwest Arkansas Industrial Energy Consumers ("NWIEC")⁸ before the Arkansas Public Service Commission in OG&E's general rate case application to provide testimony on various revenue requirement, cost of service and rate design issues.
- **140. Oklahoma Gas & Electric Company, 2010 (Cause No. PUD 2010-146)** Participated as an expert witness on behalf of the OIEC before the OCC in OG&E's application seeking rider recovery of third party SPP transmission costs and SPP administration fees.
- 141. Massachusetts Electric Co. & Nantucket Electric Co. d/b/a National Grid, 2010 (Docket No. DPU 10-54) Participated as an expert witness providing both written and live testimony before the Massachusetts Department of Public Utilities on behalf of the Associated Industries of Massachusetts ("AIM") to address the Company's proposed participation in the 438MW Cape Wind project in Nantucket Sound.
- **Public Service Company of Oklahoma, 2010 (Cause No. PUD 2010-50)** Participated as an expert witness on behalf of the OIEC before the OCC in AEP/PSO's general rate case application to provide testimony on various cost-of-service issues and on the utility's overall revenue requirement and rate design proposals.
- **143. Texas-New Mexico Power Co., 2010 (Docket 38480)** Participated as an expert witness on behalf of the Alliance of Texas Municipalities ("ATM") before the Texas PUC in TMNP's general rate case application to address various revenue requirement and rate design issues to establish prospective cost-of-service based rates.
- **144. Southwestern Public Service Co., 2010 (PUCT Docket No. 38147)** Participated as an expert witness on behalf of the Alliance of Xcel Municipalities ("AXM") in the SPS general rate case application to provide testimony before the Texas Public Utility Commission regarding rate base and operating expense issues and sponsor the AXM Accounting Exhibits.
- **145. Oklahoma Gas & Electric Company, 2010 (Cause No. PUD 2010-37)** Participated as an expert witness on behalf of OIEC before the OCC to address the preapproval and ratemaking treatment of OG&E's 220MW self-build wind project.
- **146. Oklahoma Gas & Electric Company, 2010 (Cause No. PUD 2010-29)** Participated as an expert witness on behalf of the OIEC before the OCC in OG&E's application seeking pre-approval of deployment of smart-grid technology and rider-recovery of the associated costs. Sponsored written testimony to address smart-grid deployment and time-differentiated fuel rates.
- **Public Service Company of Oklahoma, 2010 (Cause No. PUD 2010-01)** Participated as an expert witness on behalf of the OIEC before the OCC in the Company's proposed Green Energy Choice Tariff. Sponsored testimony to address the pricing and ratemaking treatment of the Company's proposed wind subscription tariff.
- **148. Nevada Power Company, 2010 (Docket No. 10-02009)** Participated as an expert witness on behalf of the Southern Nevada Hotel Group ("SNHG") before the Nevada PUC to provide testimony in NPC's Internal Resource Plan to address the ratemaking treatment of the proposed ON Line transmission line.

⁸ NWIEC is an association of industrial manufacturing facilities in northwest Arkansas.

- **149. Entergy Texas Inc., 2010 (PUC Docket No. 37744)** Participated as an expert witness on behalf of the Cities in ETI's general rate case to provide testimony on various cost of service issues and on the utility's overall revenue requirement.
- **150. El Paso Electric Company, 2010 (PUC Docket No. 37690)** Participated as an expert witness on behalf of the City of El Paso in the EPI general rate case to provide testimony on various cost of service issues and on the utility's overall revenue requirement.
- **Public Service Company of Oklahoma, 2009 (Cause No. 09-196)** Participated as an expert witness on behalf of the OIEC before the OCC in PSO's application for approval of DSM programs and cost recovery. Sponsored testimony to address program costs, lost revenue recovery, cost allocations and incentives.
- **Oklahoma Gas and Electric Company, 2009 (Cause No. PUD 09-230 and 09-231)** Participated as an expert witness on behalf of OIEC before the OCC in OG&E's application to add wind resources from two purchased power contracts. Sponsored written testimony to address the proper ratemaking treatment of the contract costs and the renewable energy certificates.
- **153. Oklahoma Gas and Electric Company, 2009 (Cause No. PUD 08-398)** Participated as an expert witness on behalf of OIEC before the OCC in OG&E's rate case. Provided testimony in both the revenue requirement and rate design phases of the proceedings to establish prospective cost-of-service based rates for the power company.
- **154. Nevada Power Company, 2009, (Docket No. 08-12002)** Participated as an expert witness on behalf of the Southern Nevada Hotel Group before the Nevada PUC. Sponsored written and oral testimony in both the revenue requirement phase and the rate design phase of the proceedings to establish prospective cost-of-service based rates for the power company.
- **Public Service Company of Oklahoma, 2009 (Cause No. 09-031)** Participated as an expert witness on behalf of OIEC before the OCC in PSO's application to add wind resources from two purchased power contracts. Sponsored written testimony to address the proper ratemaking treatment of the contract costs and the renewable energy certificates.
- **156. Oklahoma Natural Gas Co., 2009 (Cause No. PUD 08-348)** Participated as an expert witness on witness on behalf of the OIEC before the OCC in ONG's application to establish a Performance Based Rate tariff. Sponsored both written and oral testimony to address the merits of the utility's proposed PBR.
- **157. Rocky Mountain Power, 2009 (Docket No. 08-035-38)** Participated as an expert witness on behalf of the Division of Public Utilities (Staff) in PacifiCorp's general rate case to provide testimony on various revenue requirement issues.
- **158. Texas-New Mexico Power Co., 2008 (Docket 36025)** Participated as an expert witness on behalf of the Alliance of Texas Municipalities ("ATM") before the Texas PUC in TMNP's general rate case application to address various revenue requirement and rate design issues to establish prospective cost-of-service based rates.
- **Public Service Company of Oklahoma, 2008 (Cause No. 08-144)** Participated as an expert witness on behalf of the OIEC before the OCC in PSO's general rate case application to address revenue requirement and rate design issues to establish prospective cost-of-service based rates.

- **Public Service Company of Oklahoma, 2008 (Cause No. 08-150)** Participated as an expert witness on behalf of the OIEC before the OCC to address PSO's calculation of its Fuel Clause Adjustment for 2008.
- **161. Oklahoma Gas and Electric Company, 2008 (Cause No. PUD 08-059)** Participated as an expert witness on behalf of the OIEC before the OCC in OG&E's application seeking authorization of its Demand Side Management ("DSM") programs and the establishment of a DSM Rider to recover program costs, lost revenues and utility incentives.
- 162. Entergy Gulf States, 2008 (PUC Docket No. 34800, SOAH Docket No. 473-08-0334) Participated as an expert witness on behalf of the Cities in EGSI's general rate case to provide testimony on various cost of service issues and on the utility's overall revenue requirement.
- **Public Service Company of Oklahoma, 2008 (Cause No. 07-465)** Participated as an expert witness on behalf of the OIEC before the OCC in PSO's application to recover the pre-construction costs of the cancelled Red Rock coal generation facility.
- **164. Oklahoma Gas and Electric Company, 2008 (Cause No. 07-447)** Participated as an expert witness on behalf of the OIEC before the OCC in OG&E's application seeking authorization to recover the pre-construction costs of the cancelled Red Rock coal generation facility using proceeds from sales of excess SO₂ allowances.
- **Rocky Mountain Power, 2008 (Docket No. 07-035-93)** Participated as an expert witness on behalf of Division of Public Utilities (Staff) in PacifiCorp's general rate case to provide testimony on various revenue requirement issues.
- **Public Service Company of Oklahoma, 2008 (Cause No. PUD 07-449)** Participated as an expert witness on behalf of the OIEC before the OCC in PSO's application seeking authorization of its Demand Side Management ("DSM") programs and the establishment of a DSM Rider to recover program costs, lost revenues and utility incentives.
- **Public Service Company of Oklahoma, 2008 (Cause No. PUD 07-397)** Participated as an expert witness on behalf of OIEC before the OCC in PSO's application seeking authorization to defer storm damage costs in a regulatory asset account and to recover the costs using the proceeds from sales of excess SO₂ allowances.
- **168. Oklahoma Gas & Electric Co., 2007 (Cause No. PUD 07-012)** Participated as an expert witness on behalf of OIEC before the OCC in OG&E's application seeking pre-approval to construct the Red Rock coal plant to address the Company's proposed rider recovery mechanism.
- **169. Oklahoma Natural Gas Co., 2007 (Cause No. PUD 07-335)** Participated as an expert witness on behalf of the OIEC before the OCC in ONG's application proposing alternative cost recovery for the Company's ongoing capital expenditures through the proposed Capital Investment Mechanism Rider ("CIM Rider"). Sponsored testimony to address ONG's proposal.
- **Public Service Company of Oklahoma, 2007 (Cause No. PUD 06-030)** Participated as an expert witness on behalf of the OIEC before the OCC in PSO's application seeking a used and useful determination for its planned addition of the Red Rock coal plant to address the Company's use of debt equivalency in the competitive bidding process for new resources.
- 171. Public Service Company of Oklahoma, 2006 (Cause No. PUD 06-285) Participated as an expert

- witness on behalf of the OIEC before the OCC in PSO's general rate case application to address various revenue requirement and rate design issues to establish prospective cost-of-service based rates.
- **Nevada Power Company, 2007, (Docket No. 07-01022)** Participated as an expert witness on behalf of the MGM MIRAGE before the Nevada PUC in Nevada Power Company's deferred energy docket to determine the level of prudent company expenditures for fuel and purchased power.
- 173. Nevada Power Company, 2006, (Docket No. 06-11022) Participated as an expert witness on behalf of the MGM MIRAGE properties before the Nevada PUC. Sponsored written and oral testimony in both the revenue requirement phase and the rate design phase of the proceedings to establish prospective cost-of-service based rates for the power company.
- **174. Southwestern Public Service Co., 2006 (PUCT Docket No. 37766)** Participated as an expert witness on behalf of the Alliance of Xcel Municipalities ("AXM") in the SPS general rate case application. Provided testimony before the Texas Public Utility Commission regarding rate base and operating expense issues and sponsored the Accounting Exhibits on behalf of AXM.
- 175. Atmos Energy Corp., Mid-Tex Division, 2006 (Texas GUD 9676) Participated as an expert witness in the Atmos Mid-Tex general rate case application on behalf of the Atmos Texas Municipalities ("ATM"). Provided written and oral testimony before the Railroad Commission of Texas regarding the revenue requirements of Mid-Tex including various rate base, operating expense, depreciation and tax issues. Sponsored the Accounting Exhibits for ATM.
- 176. Nevada Power Company, 2006 (Docket No. 06-06007) Participated as an expert witness on behalf of the MGM MIRAGE in the Sinatra Substation Electric Line Extension and Service Contract case. Provided both written and oral testimony before the Nevada Public Utility Commission to provide the Commission with information as to why the application is consistent with the line extension requirements of Rule 9 and why the cost recovery proposals set forth in the application provide a least cost approach to adding necessary new capacity in the Las Vegas strip area.
- **Public Service Co. of Oklahoma, 2006 (Cause No. PUD 05-00516) -** Participated as an expert witness on behalf of the OIEC to review PSO's application for a "used and useful" determination of its proposed peaking facility.
- **178. Oklahoma Gas and Electric Co., 2006 (Cause No. PUD 06-00041)** Participated as an expert witness on behalf of the OIEC in OG&E's application to propose an incentive sharing mechanism for SO₂ allowance proceeds.
- **179. Chermac Energy Corporation, 2006 (Cause No. PUD 05-00059 and 05-00177)** Participated as an expert witness on behalf of the OIEC in Chermac's PURPA application. Sponsored written responsive and rebuttal testimony to address various rate design issues arising under the application.
- **180. Oklahoma Gas and Electric Co., 2006 (Cause No. PUD 05-00140)** Participated as an expert witness on behalf of the OIEC in OG&E's 2003 and 2004 Fuel Clause reviews. Sponsored written testimony to address the purchasing practices of the Company, its transactions with affiliates, and the prices paid for natural gas, coal and purchased power.
- **181. Nevada Power Company, 2006, (Docket No. 06-01016)** Participated as an expert witness on behalf of the MGM MIRAGE properties before the Nevada PUC. Sponsored written testimony in NPC's deferred energy docket to determine the level of prudent company expenditures for fuel and

purchased power.

- **182. Oklahoma Gas and Electric Co., 2005 (Cause No. PUD 05-151)** Participated as an expert witness on behalf of the OIEC in OG&E's general rate case application. Sponsored both written and oral testimony before the OCC to address various revenue requirement and rate design issues for the purpose of setting prospective cost-of-service based rates.
- **183. Oklahoma Natural Gas Co., 2005** (Cause No. PUD 04-610) Participated as an expert witness on behalf of the Attorney General of Oklahoma. Sponsored written and oral testimony to address numerous rate base, operating expense and depreciation issues for the purpose of setting prospective cost-of-service based rates.
- **184. CenterPoint Energy Arkla, 2004 (Cause No. PUD 04-0187)** Participated as an expert witness on behalf of the Attorney General of Oklahoma: Sponsored written testimony to provide the OCC with analysis from an accounting and ratemaking perspective of the Co.'s proposed change in depreciation rates from an Average Life Group to an Equal Life Group methodology. Addressed the Co.'s proposed increase in depreciation rates associated with increased negative salvage value calculations.
- **Public Service Co. of Oklahoma, 2004 (Cause No. PUD 02-0754)** Participated as an expert witness on behalf of the OIEC. Sponsored written testimony (1) making adjustments to PSO's requested recovery of an ICR programming error, (2) correcting errors in the allocation of trading margins on off-system sales of electricity from AEP East to West and among the AEP West utilities and (3) recommending an annual rather than a quarterly change in the FAC rates.
- **186. PowerSmith Cogeneration Project, 2004 (Cause No. PUD 03-0564)** Participated as an expert witness on behalf of the OIEC to provide the OCC with direction in setting an avoided cost for the PowerSmith Cogeneration project under PURPA requirements. Provided both written and oral testimony on the provisions of the proposed contract under PURPA:
- **187.** Electric Utility Rules for Affiliate Transactions, 2004 (Cause No. RM 03-0003) Participated as a consultant on behalf of the OIEC to draft comments to assist the OCC in developing rules for affiliate transactions. Assisted in drafting the proposed rules. Successful in having the Lower of Cost or Market rule adopted for affiliate transactions in Oklahoma.
- **188. Nevada Power Company, 2003, (Docket No. 03-10001)** Participated as an expert witness on behalf of the MGM MIRAGE properties before the Nevada PUC. Sponsored written and oral testimony in both the revenue requirement phase and the rate design phase of the proceedings to establish prospective cost-of-service based rates for the power company.
- **189. Nevada Power Company, 2003, (Docket No. 03-11019)** Participated as an expert witness on behalf of the MGM MIRAGE before the Nevada PUC in Nevada Power Company's deferred energy docket to determine the level of prudent company expenditures for fuel and purchased power.
- **190. Public Service Company of Oklahoma, 2003 (Cause No. PUD 03-0076)** Participated as an expert witness on behalf of the OIEC before the OCC in PSO's general rate case application to address various revenue requirement and rate design issues to establish prospective cost-of-service based rates.
- **191. Oklahoma Gas & Electric Co., 2003 (Cause No. PUD 03-0226)** Participated as an expert witness on behalf of the OIEC. Provided both written and oral testimony before the OCC to determine the appropriate level to include in rates for natural gas transportation and storage services acquired from

- an affiliated company.
- **192. Nevada Power Company, 2003 (Docket No. 02-5003-5007)** Participated as an expert witness on behalf of the MGM Mirage before the Nevada PUC. Sponsored written and oral testimony to calculate the appropriate exit fee in MGM Mirage's 661 Application to leave the system.
- **193. McCarthy Family Farms, 2003** Participated as a consultant to assist McCarthy Family Farms in converting a biomass and biosolids composting process into a renewable energy power producing business in California.
- **194. Bice v. Petro Hunt, 2003 (ND, Supreme Court No. 20030306)** Participated as an expert witness in a class certification proceeding to provide cost-of-service calculations for royalty valuation deductions for natural gas gathering, dehydration, compression, treatment and processing fees in North Dakota.
- **195. Nevada Power Company, 2003 (Docket No. 03-11019) -** Participated as a consulting expert on behalf of the MGM Mirage before the Nevada PUC in Nevada Power Company's deferred energy docket to determine the level of prudent company expenditures for fuel and purchased power. Provided written and oral testimony on the reasonableness of the cost allocations to the utility's various customer classes.
- **196. Wind River Reservation, 2003 (Fed. Claims Ct. No. 458-79L, 459-79L)** Participated as a consulting expert on behalf of the Shoshone and Arapaho Tribes to provide cost-of-service calculations for royalty valuation deductions for gathering, dehydration, treatment and compression of natural gas and the reasonableness of deductions for gas transportation.
- **197. Oklahoma Gas & Electric Co., 2002 (Cause No. PUD 01-0455)** Participated as an expert witness on behalf of the OIEC before the OCC. Sponsored written and oral testimony on numerous revenue requirement issues including rate base, operating expense and rate design issues to establish prospective cost-of-service based rates.
- **198. Nevada Power Company, 2002 (Docket No. 02-11021)** Participated as an expert witness on behalf of the MGM Mirage before the Nevada PUC in Nevada Power Company's deferred energy docket to determine the level of prudent company expenditures for fuel and purchased power and to make recommendations with respect to rate design.
- **199. Nevada Power Company, 2002 (Docket No. 01-11029) -** Participated as a consulting expert on behalf of the MGM Mirage before the Nevada PUC in Nevada Power Company's deferred energy docket to determine the level of prudent company expenditures for fuel and purchased power included in the Company's \$928 million deferred energy balances.
- **200. Nevada Power Company, 2002 (Docket No. 01-10001)** Participated as an expert witness on behalf of the MGM Mirage before the Nevada PUC. Sponsored written and oral testimony in both the revenue requirement phase and the rate design phase of the proceedings to establish prospective cost-of-service based rates for the power company.
- **201. Chesapeake v. Kinder Morgan, 2001 (CIV-00-397L)** Participated as an expert witness on behalf of Chesapeake Energy in a gas gathering dispute. Sponsored testimony to calculate and support a reasonable rate on the gas gathering system. Performed necessary calculations to determine appropriate levels of operating expense, depreciation and cost of capital to include in a reasonable gathering charge and developed an appropriate rate design to recover these costs.

- **202. Southern Union Gas Company, 2001** Participated as a consultant to the City of El Paso in its review of SUG's gas purchasing practices, gas storage position, and potential use of financial hedging instruments and ratemaking incentives to devise strategies to help shelter customers from the risk of high commodity price spikes during the winter months.
- 203. Nevada Power Company, 2001 Participated as an expert witness on behalf of the MGM-Mirage, Park Place and Mandalay Bay Group before the Nevada Public Utility Commission to review NPC's Comprehensive Energy Plan (CEP) for the State of Nevada and make recommendations regarding the appropriate level of additional costs to include in rates for the Company's prospective power costs associated with natural gas and gas transportation, coal and coal transportation and purchased power.
- **204. Bridenstine v. Kaiser-Francis Oil Co. et al., 2001 (CJ-95-54)** Participated as an expert witness on behalf of royalty owner plaintiffs in a valuation dispute regarding gathering, dehydration, metering, compression, and marketing costs. Provided cost-of-service calculations to determine the reasonableness of the gathering rate charged to the royalty interest. Also provided calculations as to the average price available in the field based upon a study of royalty payments received on other wells in the area.
- **205. Klatt v. Hunt et al., 2000 (ND)** Participated as an expert witness and filed report in United States District Court for the District of North Dakota in a natural gas gathering contract dispute to calculate charges and allocations for processing, sour gas compression, treatment, overhead, depreciation expense, use of residue gas, purchase price allocations, and risk capital.
- **206. Oklahoma Gas and Electric Co., 2000 (Cause No. PUD 00-0020)** Participated as an expert witness on behalf of the OIEC before the OCC. Sponsored testimony on OG&E's proposed Generation Efficiency Performance Rider (GEPR). Provided a list of criteria with which to measure a utility's proposal for alternative ratemaking. Recommended modifications to the Company's proposed GEPR to bring it within the boundaries of an acceptable alternative ratemaking formula.
- **207. Oklahoma Gas and Electric Co., 1999 -** Participated as an expert witness on behalf of the OIEC before the OCC. Sponsored testimony on OG&E's proposed Performance Based Ratemaking (PBR) proposal including analysis of the Company's regulated return on equity, fluctuations in the capital investment and operating expense accounts of the Company and the impact that various rate base, operating expense and cost of capital adjustments would have on the Company's proposal.
- **208. Nevada Power Company, 1999 (Docket No. 99-7035)** Participated as an expert witness on behalf of the Mirage, Park Place and Mandalay Bay Group before the Nevada PUC. Sponsored written and oral testimony addressing the appropriate ratemaking treatment of the Company's deferred energy balances, prospective power costs for natural gas, coal and purchased power and deferred capacity payments for purchased power.
- 209. Nevada Power Company, 1999 (Docket No. 99-4005) Participated as an expert witness on behalf of the Mirage, Park Place and Mandalay Bay Group before the Nevada PUC. Sponsored written and oral testimony to unbundle the utility services of the NPC and to establish the appropriate cost-of-service allocations and rate design for the utility in Nevada's new competitive electric utility industry.
- **210. Nevada Power Company, 1999 (Docket No. 99-4005)** Participated as an expert witness on behalf of the Mirage, Park Place and Mandalay Bay Group before the Nevada PUC. Sponsored written and oral testimony to establish the cost-of-service revenue requirement of the Company.

- 211. Nevada Power/Sierra Pacific Merger, 1998 (Docket No. 98-7023) Participated as an expert witness on behalf of the Mirage and MGM Grand before the Nevada PUC. Sponsored written and oral testimony to establish (1) appropriate conditions on the merger (2) the proper sequence of regulatory events to unbundle utility services and deregulate the electric utility industry in Nevada (3) the proper accounting treatment of the acquisition premium and the gain on divestiture of generation assets. The recommendations regarding conditions on the merger, the sequence of regulatory events to unbundle and deregulate, and the accounting treatment of the acquisition premium were specifically adopted in the Commission's final order.
- **212. Oklahoma Natural Gas Company, 1998 (Cause No. PUD 98-0177)** Participated as an expert witness in ONG's unbundling proceedings before the OCC. Sponsored written and oral testimony on behalf of Transok, LLC to establish the cost of ONG's unbundled upstream gas services. Substantially all of the cost-of-service recommendations to unbundle ONG's gas services were adopted in the Commission's interim order.
- **Public Service Company of Oklahoma, 1997 (Cause No. PUD 96-0214) -** Audited both rate base investment and operating revenue and expense to determine the Company's revenue requirement and cost-of-service. Sponsored written testimony before the OCC on behalf of the OIEC.
- 214. Oklahoma Natural Gas /Western Resources Merger, 1997 (Cause No. PUD 97-0106) Sponsored testimony on behalf of the OIEC regarding the appropriate accounting treatment of acquisition premiums resulting from the purchase of regulated assets.
- **215. Oklahoma Gas and Electric Co., 1996 (Cause No. PUD 96-0116)** Audited both rate base investment and operating income. Sponsored testimony on behalf of the OIEC for the purpose of determining the Company's revenue requirement and cost-of-service allocations.
- **216. Oklahoma Corporation Commission, 1996** Provided technical assistance to Commissioner Anthony's office in analyzing gas contracts and related legal proceedings involving ONG and certain of its gas supply contracts. Assignment included comparison of pricing terms of subject gas contracts to portfolio of gas contracts and other data obtained through annual fuel audits analyzing ONG's gas purchasing practices.
- **217. Tenkiller Water Company, 1996 -** Provided technical assistance to the Attorney General of Oklahoma in his review of the Company's regulated cost-of-service for the purpose of setting prospective utility rates.
- **218. Arkansas Oklahoma Gas Company, 1995 (Cause No. PUD 95-0134) -** Sponsored written and oral testimony before the OCC on behalf of the Attorney General of Oklahoma regarding the price of natural gas on AOG's system and the impact of AOG's proposed cost of gas allocations and gas transportation rates and tariffs on AOG's various customer classes.
- **219. Enogex, Inc., 1995 (FERC 95-10-000) -** Analyzed Enogex's application before the FERC to increase gas transportation rates for the Oklahoma Independent Petroleum Association and made recommendations regarding revenue requirement, cost-of-service and rate design on behalf of independent producers and shippers.
- **220. Oklahoma Natural Gas Company, 1995 (Cause No. PUD 94-0477)** Analyzed a portfolio of ONG's gas purchase contracts in the Company's Payment-In-Kind (PIC) gas purchase program and made recommendations to the OCC Staff on behalf of Terra Nitrogen, Inc. regarding the inappropriate profits made by ONG on the sale of the gas commodity through the PIC program

- pricing formula. Also analyzed the price of gas on ONG's system, ONG's cost-of-service based rates, and certain class cross-subsidizations in ONG's existing rate design.
- **221. Arkansas Louisiana Gas Company, 1994 (Cause No. PUD 94-0354) -** Planned and supervised the rate case audit for the OCC Staff and reviewed the workpapers and testimony of the other auditors on the case. Sponsored cost-of-service testimony on cash working capital and developed policy recommendations on post test year adjustments.
- **222. Empire District Electric Company, 1994 (Cause No. PUD 94-0343)** Planned and supervised the rate case audit for the OCC Staff and reviewed the workpapers and testimony of other auditors. Sponsored cost-of-service testimony on rate base investment areas including cash working capital.
- **223. Oklahoma Natural Gas Company, 1992 through 1993 (Cause No. PUD 92-1190) -** Planned and supervised the rate case audit of ONG for the OCC Staff. Reviewed all workpapers and testimony of the other auditors on the case. Sponsored written and oral testimony on numerous cost-of-service adjustments. Analyzed ONG's gas supply contracts under the Company's PIC program.
- **224. Oklahoma Gas and Electric Company, 1991 through 1992 (Cause No. PUD 91-1055)** Audited the rate base, operating revenue and operating expense accounts of OG&E on behalf of the OCC Staff. Sponsored written and oral testimony on numerous revenue requirement adjustments to establish the appropriate level of costs to include for the purpose of setting prospective rates.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Summary Comparison of Revenue Requirement

Line	Line		York		OCA Recom	mendation	Differ	ence	OCA Impact of Errata		
No.	Description		Water	Wastewater	Water	Wastewater Errata	Water	Wastewater Errata	OCA Initial Watewater		pact of Errata
1	Rate Base		\$ 350,621,590	\$ 33,353,950	\$ 350,301,681	\$ 32,909,997	\$ (319,909)	\$ (443,953)	\$ 32,430,699	\$	479,298
2	Rate of Return		7.93%	7.93%	6.01%	6.01%	-1.92%	-1.92%	6.01%		0.00%
3	Return Requirement		27,804,706	2,645,008	21,037,718	1,976,443	(6,766,988)	(668,565)	1,947,658		28,785
4	Adjusted Net Operating Income	1/	\$ 16,450,949	\$ (270,366)	\$ 17,999,363	\$ 15,997	\$ 1,548,414	\$ 286,363	\$ 69,789	\$	(53,792)
5	Deficiency		11,353,757	2,915,374	3,038,355	1,960,446	(8,315,402)	(954,927)	1,877,869		(82,577)
6	Revenue Conversion Factor		0.701591	0.706304	0.701591	0.706304	0.000000	0.000000	0.706304	_	0.000000
7	Revenue Deficiency		\$ 16,182,881	\$ 4,127,649	\$ 4,330,666	\$ 2,775,642	\$ (11,852,215)	\$ (1,352,007)	\$ 2,658,728	\$	116,915
8	Consolidated Allocation		2,670,856	(2,670,856)	2,670,856	(2,670,856)			(2,670,856)	_	
9	Deficiency with Allocation	:	\$ 18,853,737	\$ 1,456,793	\$ 7,001,522	\$ 104,786	\$ (11,852,215)	\$ (1,352,007)	\$ (12,129)	\$	116,915

Note 1 From Exhibit No. FI-2, p. 13.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater)

Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024

Office of Consumer Advocate - Revenue Requirement with OCA's Recommended Adjustments

			Water						Waste Water Errata						Impact of Wastewater Errata			
			York					York										
Line			Proposed Rates	OCA		OCA	Pr	oposed Rates		CA Errata		OCA Errata		CA Original	-	Difference		
No.	Description	Ref.	2/29/2024	Adjustment	R	ecommended	_	2/29/2024	_A	djustment	Re	commended	Re	commended	Orig	inal - Errata		
	Rate Base		(A)	(B)		(C)		(A)		(8)		(C)						
1	Plant in Service	v	\$ 529,635,105			529.635.105	\$	43,442,074			Ś	43,442,074	Ś	43,442,074	Ś	_		
		¥	(107,427,025)		•	(107,427,025)	Þ				,	(9,177,932)	,	(9,177,932)	•	_		
2 3	Accumulated Depreciation	1/	\$ 422,208,080	<u> </u>	<u> </u>	422,208,080	Ś	(9,177,932) 34,264,142	<u> </u>		Ś	34,264,142	Ś	34,264,142	Ś			
5	Net Plant in Service		\$ 422,208,080	•	•	422,200,080	•	34,204,142	•	•	,	54,264,142	,	34,204,142	ð	•		
4	Materials and Supplies	1/	\$ 1,520,534		\$	1,520,534	\$	•			\$	-	\$	•	\$	-		
5	Cash Working Capital	1/	3,070,957	(259,943)		2,811,014						-		•		-		
6	Utility Plant Acquisition Adjustments	1/	(68,018)	(59,966)		(127,984)		260,414		(443,953)		(183,539)		(662,837)		479,298		
7	Taxes on Deposits and Advances	1/	1,403,563			1,403,563		18,347				18,347		18,347		•		
8	Accumulated Deferred Income Tax	V	(24,488,981)			(24,488,981)		(148,987)				(148,987)		(148,987)		-		
9	Excess Accumulated Deferred Income Tax	1/	(13,371,592)			(13,371,592)		(6,782)				(6,782)		(6,782)		•		
10	Contributions in Aid of Construction	1/	(33,721,565)			(33,721,565)		(1,033,184)				(1,033,184)		(1,033,184)		-		
11	Customers' Advances for Construction	1/	(4,455,584)			(4,455,584)						-		•		-		
12	Customers' Advances Not Expended	1/	(1,475,804)			(1,475,804)						-		•				
13	Total Rate Base		\$ 350,621,590	\$ (319,909)	\$	350,301,681	\$	33,353,950	\$	(443,953)	\$	32,909,997	\$	32,430,699	\$	479,298		
14	Rate of Return	2/	7.930118%	-1.924518%	_	6.005600%		7.930118%		-1.924518%		6.005600%		6.005600%		0.000000%		
15	Return Requirement		\$ 27,804,706	\$ (6,766,988)	\$	21,037,718	\$	2,645,008	\$	(668,565)	\$	1,976,443	\$	1,947,658	\$	28,785		
	Revenues																	
16	Sales of Water	3/	\$ 52,523,311		\$	52,523,311	\$	4,157,401			\$	4,157,401	\$	4,157,401	\$	•		
17	Other Revenue	3/	1,119,149			1,119,149		4,861				4,861		4,861		-		
18	Total Revenue		\$ 53,642,460	\$ -	\$	53,642,460	\$	4,162,262	\$	•	\$	4,162,262	\$	4,162,262	\$	•		
	Expenses																	
19	Operating Expenses	4/	\$ 23,702,382	\$ (1,981,622)	\$	21,720,760	\$	4,229,014	\$	(332,020)	\$	3,896,994	\$	3,890,464	\$	6,530		
20	Depreciation	4/	12,960,981	(6,789)		12,954,192		933,718		(57,718)		876,000		803,226		72,774		
21	Taxes Other Than Income Taxes	4/	1,378,995	(37,287)		1,341,708		43,491		(1,686)		41,805		41,805		•		
22	Income Taxes	4/	(850,847)	477,284	_	(373,563)	_	(773,595)	_	105,061		(668,534)		(643,023)		(25,511)		
23	Total Operating Expenses		\$ 37,191,511	\$ (1,548,414)	\$	35,643,097	\$	4,432,628	\$	(286,363)	_\$_	4,146,265	\$	4,092,473	\$	53,793		
24	Net Operating Income		\$ 16,450,949	\$ 1,548,414	\$	17,999,363	\$	(270,366)	\$	286,363	\$	15,997	\$	69,789	\$	(53,793)		
25	Return (Sufficiency) Deficiency		\$ 11,353,757	\$ (8,315,402)	\$	3,038,355	\$	2,915,374	\$	(954,927)	\$	1,960,446	\$	1,877,869	\$	82,578		
26	Revenue Conversion Factor	\$/	0.70159058	0.70159058	_	0.70159058		0.706303677	0	.706303677	_	0.706303677	_	0.706303677	_	0		
27	Revenue (Sufficiency) Deficiency	6/	\$ 16,182,881	\$ (11,852,215)	Ś	4,330,666	Ś	4,127,649	Ś	(1,352,007)	Ś	2,775,642	s	2,658,727	Ś	116,915		
28	Wastewater Revenue Allocation	6/	2,670,856	· ,,,,	•	2,670,856	•	(2,670,856)	•		٠	(2,670,856)	•	(2,670,856)	•			
					_		_	12,2,2,201	_			(3,-:-,-3-1		,				
29	Total Increase in Rates	6/	\$ 18,853,737	\$ (11,852,215)	\$	7,001,522	\$	1,456,793	\$	(1,352,007)	\$	104,786	\$	(12,129)	_\$_	116,915		
30	Percent of Requested Increase					37%						7%						

Note 1 From Exhibit No. FV-1, p. 3.

Note 2 See the Direct Testimony of Paul R. Moul, p. 2, lines 23 through 25.

Note 3 From Exhibit FII-2, p. 9.

Note 4 From Exhibit No. FI-2, pp 11, 13. Also see FV-1.pg5, column 7.

Note 5 From HV-1.wp1, factor for total revenue requirements.

Note 6 From Exhibit Fil-2, p. 10.

From Exhibit No. FV-1W (tab FV-1W.pg3) See the Direct Testimony of Paul R. Moul, p. 1. From Exhibit No. FII-2W, page 9 (tab FiI-2W.pg9) and Exhibit No. FV-1W (tab FV-1W.pg6). From HV-1W.wp1.

The York Water Company Oocket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Summary of Recommendations

			Water		Erra	ita Wastewa	Impact of Wastewater Errata				
Line	<u> </u>		_	Pre-Tax	Revenue		Pre-Tax	Revenue	OCA Original	Difference	
No.	Description Witness		Rate Base	Return	Deficiency	Rate Base	Return	Deficiency	Recommended	Original - Errata	
1	York Requested Increase Amounts		\$ 350,621,590		\$ 18,853,737	\$ 33,353,950		\$ 1,456,793	\$ 1,456,793	\$ -	
	Rate Base Adjustments										
2	Cash Working Capital	Garrett	\$ (259,943)	10.57%	\$ (27,488)		10.50%	\$ -	\$ -	\$ -	
3	Acquisition Adjustments	DeAngelo	(59,966)	10.57%	(6,341)	(443,953)	10.50%	(46,634)	(96,980)	50,347	
4	Total Rate Base Adjustments		\$ (319,909)	_	\$ (33,830)	\$ (443,953)	•	\$ (46,634)	\$ (96,980)	\$ 50,347	
	Rate of Return Adjustments										
5	25 Basis Point Reduction in ROE		\$ 350,301,681	-0.20%	(683,661)	\$ 32,909,997	-0.19%	(63,800)	(62,871)	(929)	
6	Capital Structure	Habr	350,301,681	-0.32%	(1,136,823)	32,909,997	-0.32%	(106,089)	(104,544)	(1,545)	
7	Return on Equity	Habr	350,301,681	-2.27%	(7,944,800)	32,909,997	-2.25%	(741,415)	(730,617)	(10,798)	
8	Total Rate of Return Adjustments			_	(9,765,284)		-	(911,304)	(898,031)	(13,272)	
	Operating Income Adjustments										
9	Payroll Expense	Garrett			\$ (382,591)			\$ (17,296)	\$ (17,296)	\$ -	
10	Cash Incentives	Garrett			(123,754)			(5,595)	(5,595)	-	
11	Stock Incentives	Garrett			(238,146)			(10,766)	(17,296)	6,530	
12	Payroll Taxes	Garrett			(37,287)			(1,686)	(1,686)	-	
13	Cost Escalation	Garrett			(1,023,307)			(298,363)	(298,363)	-	
14	Board of Directors Expenses	Garrett			(213,825)			-	•	•	
15	Acquisition Adjustment Amortization	DeAngelo			(6,789)			(57,718)	(130,492)	72,775	
16	Rate Adjustment Impacts (Note 1)	Garrett		-	(27,402)		-	(2,646)	(3,183)	537	
17	Total Operating Income Adjustments			_	(2,053,101)			(394,070)	(473,911)	79,841	
18	Total Adjustments			_	(11,852,215)			(1,352,007)	(1,468,922)	116,915	
19	OCA Recommended Increase(Decrease)			=	\$ 7,001,522			\$ 104,786	\$ (12,129)	\$ 116,915	

Note 1 The impact of OCA's adjustments on late charges, bad debts, and assessments are accounted for here. The adjustment of these costs are a component of the revenue gross up factor on the Revenue Requirement Exhibit.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Payroll Expense Recommendations

Line				
No.	Description	Ref.	Water	Wastewater
		1/		
1	Pro Forma Hourly Payroll Excluding Bonuses and Vacant Positions 12/31/2021	1/	\$ 2,007,650	
2	Pro Forma Salary Payroll Excluding Bonuses and Vacant Positions 12/31/2021	1/	3,563,364	
3	Total Non-Union Payroll 12/31/2021		\$ 5,571,014	
4	OCA Recommended 2022 Increase Factor		103.50%	
5	2022 Adjusted Amount		\$ 5,765,999	
6	2022 Additional Hourly and Salaried Positions	2/	606,243	
7	OCA Adjusted 2022 Hourly and Salaried Payroll		\$ 6,372,242	
8	OCA Recommended 2023 Increase Factor		103.50%	
9	February 29, 2024 Adjusted Non-Union Payroll		\$ 6,595,271	
10	February 29, 2024 Requested Union Payroll, Excluding Unfilled Positions	3/	2,479,100	
11	OCA Recommended Payroll Expense (without Bonuses)		\$ 9,074,371	
12	Requested 2/29/2024 Payroll (without Bonuses)	4/	9,518,048	
13	Gross Payroll Adjustment Before Expense Allocation		\$ (443,677)	\$ (443,677)
14	Expense Factor	5/	0.862317798 6/	0.038983417
15	Adjustment to Payroll Expense		\$ (382,591)	\$ (17,296)
Note 1	Derived from CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab HIII-2-4(b).pg1, cells G10)-I147 ar	nd M10-O147 excludin	g rows 92 and
Note 2	134 for hourly positions.	110	MATO OTO avaluation as	nue 31 and 83
Note 2	From CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-1(c).pg1, total of cells G10 for salaried positions.	-ita and	INITO-OTA excinging to	7M2 5T 9110 92
Note 3	Derived from CONFIDENTIAL File OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-25(c).pg1, total of c	ells G1	147I and M10-O147 fo	r union
	positions.			
Note 4	From CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-25(c).pg1, total of cells G1	147I an	d M10-O147.	
Note 5	From FIII-2-40(b).pg1, Total of Accounts 6011000 through 60180003 / Pro Forma Company Labor.			
Note 6	From FIII-2-40(b).pg1, Total of Accounts 7015000 through 7018000 / Pro Forma Company Labor.			

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Cash Incentive Award Recommendations

Line						
No	Description	Ref.		Water	Wa	stewater
1	Cash Incentive Awards - 2/29/2024 Pro Forma	1/	\$	287,026	\$	287,026
2	Expense Factor	2/	0.	862317798	0.0	38983417
3	Amount Included in Operating Expenses		\$	247,508	\$	11,189
4	Ratepayer Share			50.00%		50.00%
5	Amount Recommended for Recovery		\$	123,754	\$	5,595
6	OCA Recommended Adjustment		\$	(123,754)	\$	(5,595)
Note 1	See OCA IV-14 and CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-25(c).pg1,	cell O	167.			
Note 2	Derived from CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-40(b).pg1, Total	of ce	lls G	21-G51 / G61.		

Note 3 Derived from CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-40(b).pg1, Total of cells G52-G57 / G61.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Long-Term Incentive Plan Recommendations

Line No.	Description	Ref.	Water	Wastewater
1	Long-Term Stock Awards - 2/29/2024 Pro Forma	1/	\$ 276,170	\$ 276,170
2	Expense Factor	2/	0.862317798	0.038983417
3	Long-Term Incentive Expense		\$ 238,146	\$ 10,766
4	OCA Recommended Adjustment to Long-Term Incentives		\$ (238,146)	\$ (10,766)

Note 1	See OCA IV-9 and CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-25(c).pg1, cell R167.
Note 2	Derived from CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-40(b).pg1, Total of cells G21-G51 / G61.
Note 3	Derived from CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-40(b).pg1, Total of cells G52-G57 / G61.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Payroll Tax Recommendations

Line		Water					
No.	Description		Payroll		Cash Incentive		ck Incentive
1 2	Expense Adjustment Adjustments to Wages Over \$147K	\$	(382,591) (58,581)	\$	(123,754) (54,124)	\$	(238,146) (204,490)
3 4 5	Adjustment Subject to OASDI Tax Adjustment to Medicare Taxes Adjustment to OASDI Tax	\$ \$ \$	(324,010) (5,548) (20,089)	\$ \$ \$	(69,630) (1,794) (4,317)	\$ \$ \$	(33,656) (3,453) (2,087)
6	Tax Adjustment Totals	\$	(25,636)	\$	(6,111)	\$	(5,540)
7	Total Water Employment Tax Adjustment					<u>\$</u>	(37,287)
8	Payroll Tax Effective Rate						5.01%
				W	astewater		
			Payroll	Cas	h Incentive	Sto	ck Incentive
9 10	Expense Adjustment Adjustments to Wages Over \$147K	\$	(17,296) (2,648)	\$	(5,595) (2,447)	\$	(10,766) (9,245)
11 12 13	Adjustment Subject to OASDI Tax Adjustment to Medicare Taxes Adjustment to OASDI Tax	\$ \$ \$	(14,648) (251) (908)	\$ \$ \$	(3,148) (81) (195)	\$ \$ \$	(1,522) (156) (94)
14	Tax Adjustment Totals	\$	(1,159)	\$	(276)	\$	(250)
15	Total Wastewater Employment Tax Adjustment					\$	(1,686)

Note 1 From CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-25(c).pg1, selected amounts times the appropriate expense factor.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Inflation Adjustment Recommendations

Line	Dagariakian	Dof	Water	Wastewater
No.	Description	Ref.	water	wastewater
1	Requested Inflation Adjustments Adjustment December 2021 - December 2022	1/	\$ 360,236 3/	\$ 106,523
2	Pro Forma Adjustment, December 2022 - February 2024	2/	663,071 4/	191,840
3	Total Requested		\$ 1,023,307	\$ 298,363
4	OCA Adjustment		\$ (1,023,307)	\$ (298,363)

Note 1 FIII-2.pg2, J239.

Note 2 FIII-2-37.pg1, cell H54.

Note 3 FIII-2W.pg2, J89.

Note 4 FIII-2-28W.pg1, cell H38.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Board of Directors Fees Recommendations

Line No.	Description	Ref.	Amount
1	Requested Board of Directors Compensation	1/	\$ 427,649
2	OCA Recommended Ratepayer Share (50%)		 213,825
3	OCA Recommended Board of Directors Fee Adjustment		\$ (213,825)
Note 1	Exhibit FIII-2-48.		

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024

Office of Consumer Advocate - Acquisition Adjustment Recommendations

	Office of Consumer Advocate - Acqui	sition Aujustinent Ket	OIIII	ienoanons					Impact of Was	tewa	ter Errata
Line							Errata	_	CA Original		Difference
No.	Description	Ref		Water	Ref.	٧	/astewater	V	/astewater	Ori	ginal - Errata
	Rate Base										
1	Wrightsville Acquisition Adjustment at 2/29/2024	1/	\$	59,966							
2	Felton Acquisition Adjustment at 2/29/2024				2/	\$	260,414	\$	260,414	\$	
3	Acquisition Adjustments Requested		\$	59,966	-	\$	260,414	\$	260,414	\$	•
4	Jacobus Acquisition Adjustment at 2/29/24				3/	\$	(183,538.55)	\$	(183,538.55)	\$	•
5	Letterkenny Acquisition Adjustment at 2/29/2024				3/				(479,298.79)		479,298.79
6	Negative Acquisition Adjustments Not Requested					\$	(183,538.55)	\$	(662,837.34)	\$	479,298.79
7	Adjustment to Remove Wrightsville and Felton Acquisition Adjustments		\$	(59,966)		\$	(260,414)	\$	(260,414)	\$	-
8	Adjustment to Add the Jacobus and Letterkenny Acquisition Adjustments					\$	(183,539)	\$	(662,837)	\$	479,299
9	Total Rate Base Adjustments		\$	(59,966)		\$	(443,953)	_\$	(923,251)	<u>\$</u>	479,299
	Amortization										
10	Wrightsville Acquisition Adjustment at 2/29/2024	4/	\$	6,789							
11	Felton Acquisition Adjustment at 2/29/2024				. 5/	\$	29,481	\$	29,481	\$	<u> </u>
12	Amortization of Acquisition Adjustments Requested		\$	6,789		\$	29,481	\$	29,481	\$	•
13	Jacobus Acquisition Adjustment Amortization				6/	\$	(28,237)	\$	(28,237)	\$	•
14	Letterkenny Acquisition Adjustment Amortization				6/			_	(72,775)	_	72,775
15	Amortization of Omitted Negative Amortization Adjustments					\$	(28,237)	\$	(101,011)	\$	72,775
16	Adjustment to Remove Amortization of Wrightsville and Felton Acq. Adj.		\$	(6,789)		\$	(29,481)	\$	(29,481)	\$	-
17	Adjustment to Add Amortization of Jacobus and Letterkenny Acq. Adj.					\$	(28,237)	\$	(101,011)	\$	72,775
18	Total Amortization Adjustments		\$	(6,789)		\$	(57,718)	_\$_	(130,492)	_\$_	72,775

Note 1 Exhibit No. FV-1-9, page 1.

Note 2 Exhibit No. FV-1-2W, page 1.

Note 3 See the Direct Testimony of Morgan N. DeAngelo, page 8, net of amortization beginning at date of acquisition.

Note 4 Exhibit No. FIII-2-22, page 1.

Note 5 Exhibit No. FIII-2W.

Note 6 Based on the ten year amortizations recommended by Morgan N. DeAngelo.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Cash Working Capital

Line		-1220697.52	3 Lag	Dollar
No.	Description	Amount	Days	Days
1	Payroll Expense Adjustments	\$ (1,159,663	3) 7.0	\$ (8,117,639)
2	Payroll Tax Withholding	(61,035	5) 13.7	(837,976)
3	Payroll Taxes	(61,035	5) 13.7	(837,976)
4	Inflation Adjustment	(1,023,307	<u>7)</u> 18.1	(18,545,719)
5	Totals	\$ (2,305,039	9) 12.3	\$ (28,339,309)
6	Revenue Lag		53.4	
7	Cash Working Capital Expense Adjustments	\$ (6,315	5) 41.1	\$ (259,502)
8	Rate Base Adjustments	\$ (319,909	9)	
9	Long-Term Debt Component of Capital	1.779	%	
10	Interest Adjustment	\$ (5,658	3)	
11	Daily Interest Adjustment	\$ (16	5) 28.4	(440)
12	Cash Working Capital Adjustment			\$ (259,943)

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024

Office of Consumer Advocate - Income Tax Expense

			Weighted			ı	mpact of Wa	stewat	er Errata
Line			Interest		Errata	00	A Original	D	ifference
No.	Description	Rate Base	Cost		Amount	W	astewater	Origi	nal - Errata
	Water								
1	Rate Base Adjustments	\$ (319,909)	-1.77%	\$	5,658				
2	York Weighted Interest Cost		1.77%						
3	OCA Weighted Interest Cost		1.88%						
4	Difference	\$ 350,301,681	-0.11%	\$	(379,401)				
5	Operating Income Adjustments			\$	2,025,699				
6	Total			\$	1,651,955				
7	Combined Effective Tax Rate				28.89210%				
8	Adjustment to February 29, 2024 Income Tax Expense			<u>\$</u>	477,284				
	<u>Wastewater</u>								
9	Rate Base Adjustments	\$ 443,953	1.77%	\$	7,851	\$	16,328	\$	(8,477)
10	York Weighted Interest Cost		1.77%						
11	OCA Weighted Interest Cost		1.88%						
12	Difference	\$ 32,909,997	-0.11%	\$	(35,644)	\$	(35,125)	\$	(519)
13	Operating Income Adjustments			\$	391,423	_\$_	470,728	\$	(79,305)
14	Total			\$	363,631	\$	451,931	\$	(88,300)
15	Combined Effective Tax Rate				28.89210%		28.89210%		0.00000%
16	Adjustment to February 29, 2024 Income Tax Expense			\$	105,061	\$	130,572	\$	(25,512)

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Cost of Capital

						Wate	Water		Water
Line					ROR	Conversion	Pre-Tax	Conversion	Pre-Tax
No.	Description	Capital	Ratio	Rate	Component	Factor ³	ROR	Factor ³	ROR
1	Long-Term Debt	¹/ \$ 174,870,000	45.23% ^{2/}	3.91%	1.77%	0.986656	1.79%	0.993284	1.78%
2	Equity	\$ 211,777,106	54.77% ^{2/}	11.25%	6.16%	0.701591	8.78%	0.706304_	8.72%
3		\$ 386,647,106	100.00%		7.93%		10.57%		10.50%
4	OCA Recommend	ed:							
5	25 Basis Point Rec	duction to Return on Eg							
6	Long-Term Debt	4/	45.23% ^{4/}	3.91%	1.77%	0.986656	1.79%	0.993284	1.78%
7	Equity	4/	54.77% 4/	11.00%	6.02%	0.701591	8.59%	0.706304_	8.53%
8			100.00%		7.79%	-	10.38%	_	10.31%
9	25 Basis Point RO	E Adjustment				=	-0.20%	=	-0.19%
10	Capital Structure								
11	Long-Term Debt	4/	48.00% 4/	3.91%	1.88%	0.986656	1.90%	0.993284	1.89%
12	Equity	4/	52.00% 4/	11.00%	5.72%	0.701591	8.15%	0.706304_	8.10%
13			100.00%		7.60%	-	10.06%	_	9.99%
14	Capital Structure	Adjustment				:	-0.32%	=	-0.32%
15	Return on Equity								
16	Long-Term Debt	4/	48.00% 4/	3.91%	1.88%	0.986656	1.90%	0.993284	1.89%
17	Equity	4/	52.00% 4/	7.94%	4.13%	0.701591	5.88%	0.706304	5.85%
18			100.00%		6.01%	-	7.79%	-	7.74%
19	ROE Adjustment					=	-2.27%	=	-2.25%

Note 1 From Exhibit No. FVII-1, WP 1.

Note 2 From Exhibit No. FVII-1, WP 2, HV-1.pg3 and Moul Direct, page 2.

Note 3 From HV-1.wp1, factors for total revenue requirements.

Note 4 See the Responsive Testimony of Dr. David S. Habr.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

: Docket Nos. R-2022-3031340 (Water)

v.

R-2022-3032806 (Wastewater)

:

The York Water Company

VERIFICATION

I, Mark E. Garrett, hereby state that the facts set forth in my Direct Testimony, OCA Statement 1, are true and correct (or are true and correct to the best of my knowledge, information, and belief) and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: August 19, 2022

*334093

Signature:

Consultant Address: Garrett Group Consulting, Inc.

4028 Oakdale Farm Circle Edmond, Oklahoma 73013

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission : Docket Nos. R-2022-3031340 Office of Consumer Advocate : C-2022-3032868 Office of Small Business Advocate : C-2022-3032902

:

V.

.

The York Water Company – Water Division

:

Pennsylvania Public Utility Commission : Docket Nos. R-2022-3032806 Office of Consumer Advocate : C-2022-3032869 Office of Small Business Advocate : C-2022-3033016

:

.

The York Water Company – Wastewater

v.

Division :

Direct Testimony of **Morgan N. DeAngelo**

On Behalf of Pennsylvania Office of Consumer Advocate

August 19, 2022

Table of Contents

Introduction	
Purpose of Direct Testimony	
Positive Acquisition Adjustments	
Wrightsville Water System	
Felton Wastewater System	
Negative Acquisition Adjustments	
Conclusion	

Introduction:

1

- 2 Q. Please state your name, business address and occupation.
- 3 A. My name is Morgan N. DeAngelo. My business address is 555 Walnut Street, 5th Floor,
- Forum Place, Harrisburg, Pennsylvania 17101. I am currently employed as a Regulatory
- 5 Analyst by the Pennsylvania Office of Consumer Advocate (OCA).
- 6 Q. Please describe your educational background and qualifications to provide testimony
- 7 in this case.
- 8 A. I have a Master's degree in Business Administration and a Bachelor of Business
- Administration Degree, with a concentration in Finance and a minor in Accounting from
- Wilkes University. My educational background and qualifications are described in
- 11 Appendix A.
- 12 Q. On whose behalf are you testifying in this proceeding?
- 13 **A.** I am testifying on behalf of the Office of Consumer Advocate.

14 Purpose of Direct Testimony:

- 15 Q. Please describe the purpose of your Direct Testimony.
- 16 A. The purpose of my Direct Testimony is to address the York Water Company (York)'s
- 17 request for acquisition adjustments related to assets purchased since 2018. In York Direct
- 18 Testimony Statement No. 1, Mr. Joseph T. Hand identifies positive acquisition
- adjustments to the Wrightsville Municipal Authority (Wrightsville), Felton Borough
- 20 (Felton), and West Manheim Township (West Manheim), and negative acquisition
- 21 adjustments to the Jacobus Borough Sewer Authority (Jacobus) and Letterkenny
- 22 Municipal Authority (Letterkenny).

- 1 Q. Were there additional acquisitions since York's 2018 rate case that are not
- 2 addressed in its current filing?
- 3 A. Yes. Since York's last rate case, I am aware that York has filed several applications to
- 4 acquire additional water and wastewater system assets, including for example, the
- 5 Letterkenny Industrial Development Authority water and wastewater system assets at
- 6 Docket Nos. A-2021-3029704 and A-2021-3029945. Since York did not identify any
- 7 adjustments related to these acquisitions in this base rate filing, I will not be addressing
- 8 them in my Direct Testimony.

Positive Acquisition Adjustments:

9

10

- Q: What is a positive acquisition adjustment?
- 11 **A:** Ordinarily, when a public utility purchases another entity's assets and seeks to include the
- assets in its rate base, it may only include the value of assets at original cost of the
- property when first devoted to the public service less applicable accrued depreciation.
- However, there is an exception to this rule permitted when a public utility purchases
- water or wastewater assets at a cost in excess of the original cost less accrued
- depreciation if the public utility can meet the factors stated in Section 1327(a) of the
- Public Utility Code. The difference in price between net original cost and purchase price
- is the amount of the positive acquisition adjustment.
- 19 Q. Did York claim an acquisition adjustment for West Manheim?
- 20 A. No. In his Direct Testimony, Mr. Hand stated that York's net cost to acquire the West
- 21 Manheim wastewater collection system was \$3,124 greater than the original cost of the
- property, less applicable depreciation. (York Statement No. 1, p. 21, ln. 6-9). He also

- stated, "Due to the immaterial amount, the Company is not requesting amortization of the
- 2 \$3,124 positive acquisition adjustment.". (York Statement No. 1, p. 22, ln. 1-2).

3 Q. Do you agree with York's proposed treatment of the West Manheim acquisition?

- 4 A. Yes. York has not provided evidence to support a positive acquisition adjustment.
- 5 Further, as Mr. Hand recognizes, the difference between the purchase price and
- 6 depreciated original cost was not material.

7 Q. What positive acquisition adjustments did York claim in this rate case?

York acquired Wrightsville and Felton at amounts greater than the net book value. The
 following table summarizes the Purchase Price compared to the Depreciated Original
 Cost of each system identified as a proposed positive acquisition adjustment in York's
 base rate filing.

Systems Acquired for More than the Depreciated Original Cost					
Acquisition System		Date Acquired	Purchase Price	Depreciated Original Cost	Difference
Wrightsville	Water	2/15/2018	\$113,113	\$45,227	\$67,886
Felton	Wastewater	12/28/2018	\$913,679	\$618,871	\$294,808

12

13

Q. Please discuss York's claim in regard to the acquisition of system assets of the

- 14 Wrightsville water system and the Felton wastewater system.
- On February 15, 2018, York completed the acquisition of Wrightsville's water assets, an expansion of its territory and the provision of water service to Eastern York School

 District (District), which are in York County. The system assets were purchased for \$113,113, which is \$67,886 more than the Depreciated Original Cost of \$45,227. (York Exh. No. FV-1-9). York is requesting that the amortization reflecting the difference between the purchase price and depreciated original cost of the \$67,886 positive

acqui	sition adjustment be permitted over a 10-year period. (York Statement No. 1, p. 14,
ln. 10	0-12).
On A	pril 9, 2020, York completed the acquisition of Felton's wastewater assets, which
are lo	ocated in York County. The system assets were purchased for \$913,679, which is
\$294	,808 more than the Depreciated Original Cost of \$618,871. (York Statement No.
4W, j	p. 8, ln. 9-12). York is requesting that the amortization reflecting the difference
betwo	een the purchase price and depreciated original cost of the \$294,808 positive
acqui	sition adjustment be permitted over a 10-year period. (York Exh. No. HIII-2-1W).
Q. Does	the Public Utility Code contain requirements that must be met by a utility in
orde	r to reflect a positive acquisition adjustment in rates?
Yes.	As noted above, Subsection (a) of Section 1327 of the Public Utility Code outlines
nine	criteria, all of which must be met by a utility in order to add an acquisition adjustment
to rat	e base. These criteria are:
(1) (2) (3)	The property acquired is used and useful in providing service; The acquired utility had 3,300 or fewer customer connections or was non-viable in the absence of the acquisition; The acquired entity was not, at the time of acquisition, furnishing and maintaining adequate, efficient, safe and reasonable service and facilities, evidence of which shall include, but not be limited to, any one or more of the following: (i) violation of statutory or regulatory requirements of the Department of Environmental Resources or the commission concerning the safety, adequacy, efficiency or reasonableness of service and facilities; (ii) a finding by the commission of inadequate financial, managerial or technical ability of the small water or sewer utility; (iii) a finding by the commission that there is a present deficiency concerning the availability of water, the palatability of water or the provision of water at adequate volume and pressure; (iv) a finding by the commission that the small water or sewer utility, because of necessary improvements to its plant or distribution system, cannot reasonably be expected to furnish and maintain adequate service to its
	In. 10 On A are lo \$294, 4W, 1 betwee acqui Does order Yes. nine of to rat (1) (2)

1 any other facts, as the commission may determine, that evidence the (v) 2 inability of the small water or sewer utility to furnish or maintain adequate, 3 efficient, safe and reasonable service and facilities; 4 (4) reasonable and prudent investments will be made to assure that the customers 5 served by the property will receive adequate, efficient, safe and reasonable service; 6 the public utility...is in agreement with the acquisition and the negotiations which (5) 7 led to the acquisition were conducted at arm's length; 8 the actual purchase price is reasonable; (6) 9 neither the acquiring nor the selling public utility, municipal corporation or person (7) 10 is an affiliated interest of the other; the rates charged by the acquiring public utility to its preacquisition customers will 11 (8) not increase unreasonably because of the acquisition; and 12 13 the excess of the acquisition cost over the depreciated original cost will be added (9) 14 to the rate base to be amortized as an addition to expense over a reasonable period of time with corresponding reductions in the rate base. 15 Wrightsville Water System 16 17 0. Has York met all nine of the Section 1327(a) criteria to support its proposed 18 acquisition adjustment related to Wrightsville? 19 Α. No. York has not met all nine criteria necessary to support a positive acquisition 20 adjustment associated with Wrightsville in this case. In particular, York has not met the 21 criteria under Section 1327(a)(3). 22 Section 1327(a)(3) requires that, in order for a utility to recognize an acquisition Q. adjustment in rates, the acquired company must not, at the time of acquisition, be 23 24 providing and maintaining adequate, efficient, safe and reasonable service and facilities. Has York provided any information to show that Wrightsville was not 25 26 providing adequate service to its customers at the time of acquisition? No. York has not shown that, as to Wrightsville, it can meet any of the requirements 27 A. 28 outlined in Section 1327(a)(3) to show that Wrightsville was not providing adequate 29 service to its customers at the time of acquisition.

1	Q.	Do you agree with York that the Company should receive a positive acquisition
2		adjustment for its acquisition of Wrightsville?

- A. No. The desire of the former owner to sell the assets is not in and of itself a reason for ratepayers to reimburse York for its business decision to pay more than depreciated original cost. As such, I recommend that York's proposal for a positive acquisition adjustment should be rejected. The removal of this adjustment is reflected in the testimony and schedules of OCA witness Mark Garrett in OCA Statement 1.
- **8 Felton Wastewater System**
- Q. Has York met all nine of the Section 1327(a) criteria to support its proposed
 acquisition adjustment related to Felton?
- 11 **A.** No. York has not met all nine criteria necessary to support an acquisition adjustment for 12 the Felton wastewater system assets. In particular, York has not met the criteria under 13 Section 1327(a)(3).
- 14 Q. Has York provided evidence that Felton was not providing adequate service to its
 15 customers at the time of acquisition?
- 16 **A.** No. Mr. Hand states that Felton received a Notice of Violation (NOV) from the
 17 Department of Environmental Protection (DEP) in 2018. (York Statement No. 1, p. 16,
 18 In. 19-21). No information is provided regarding the type or severity of violation, whether
 19 the violation concerned the "safety, adequacy, efficiency or reasonableness of service and
 20 facilities," and whether Felton corrected the problem. Mr. Hand also states that Felton
 21 identified Inflow and Infiltration problems with the collection system in its 2018 Chapter

- 94 report, however, that report indicated the treatment plant is projected to have adequate
 hydraulic and organic capacity for the next five years.
- Q. Do you agree with York that the Company should receive a positive acquisitionadjustment for its acquisition of Felton?
- 5 Α. No. This acquisition does not meet the requirements of Section 1327(a) of the Public 6 Utility Code because York has not provided sufficient information to show, in particular, 7 that Felton was a troubled system and was not furnishing and maintaining adequate, 8 efficient, safe and reasonable service and facilities at the time of the acquisition. The 9 desire of the former owner to sell the assets is not a valid reason for ratepayers to 10 reimburse York for its business decision. As such, based on the information that Aqua 11 provided in support of its claim, I recommend that York's proposal for a positive 12 acquisition adjustment should be rejected. The removal of this adjustment is reflected in 13 the testimony and schedules of OCA witness Mark Garrett in OCA Statement 1.
- 14 Q. Are the Wrightsville and Felton systems addressed in any other OCA testimony?
- 15 A. Yes. OCA witness Mr. Terry L. Fought addresses both systems in OCA Statement 6.

Negative Acquisition Adjustments:

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- 17 Q. What negative acquisition adjustments did York claim in the current rate case?
- York proposes to make a negative acquisition adjustment related to two systems that it

 purchased at amounts less than the net book values. These systems are Jacobus Borough

 Sewer Authority (Jacobus) and Letterkenny Township Municipal Authority. The

Order, p. 6. Docket No. A-2019-3013113.

- following table summarizes the Purchase Price compared to the Depreciated Original
- 2 Cost of the Jacobus system, which I will be addressing.

Acquisitions Acquired for Less than the Depreciated Original Cost					
Acquisition	System Date		Purchase	Depreciated Original	
Acquisition	System	Acquired	Price	Cost	Difference
Jacobus	Wastewater	8/29/2020	\$2,100,000	\$2,382,367	(\$282,367)

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- Q. Please discuss York's claim for the Jacobus system.
- 5 A. On August 29, 2019, York completed the acquisition of Jacobus's wastewater assets,
- 6 which are located in York County. The system assets were purchased for \$2,100,000,
- which is \$282,367 less than the Depreciated Original Cost of \$2,382,367. York stated,
- 8 "No amortization of pass-through of the difference between the acquisition cost and the
- 9 depreciated original cost is appropriate because this acquisition involves a matter of
- substantial public interest.". (York Statement No. 1, p. 15-16, ln. 22-23, 1-2).
- Q. Does the Public Utility Code contain requirements that must be met by a utility in order to reflect a negative acquisition adjustment in rates?
- 13 A. Yes. Subsection (e) of Section 1327 of the Public Utility Code states criteria which must
- be met by a utility in order to make a negative acquisition adjustment (not just pass
- through to customers the benefit of the difference between acquisition cost and the
- depreciated original cost). The statute states the following:

If a public utility acquires property from another public utility, a municipal corporation or a person at a cost which is lower than the original cost of the property when first devoted to the public service less the applicable accrued depreciation and the property is used and useful in providing water or sewer service, that difference shall, absent matters of a substantial public interest, be amortized as an addition to income over a reasonable period of time or be passed through to the ratepayers by such other methodology as the commission may direct. Notice of the proposed treatment of an acquisition

cost lower than depreciat	ed original	cost shall	be given	to the	Director	of
Trial Staff and the Consu	mer Advoc	ate.				

Has York met this criterion of Section 1327(e) to support omitting its amortization of the pass-through of the difference between acquisition cost and the depreciated original cost?

No, York has not. York identified that Jacobus Borough did not wish to continue providing wastewater service to its residents due to increasing costs and challenges of meeting regulatory oversight and reporting requirements. (York Statement No. 1, p. 14, ln. 20-22). Further, Mr. Hand stated that no immediate successor for the Jacobus contracted operator, who was retiring, was available. There was no showing why another operator could not be contracted to fill the position. The statements by Mr. Hand do not show there is a "substantial public interest" for York's customers to be denied the \$282,367 benefit of York acquiring the system at less than depreciated original cost.

Additionally, the Commission Order stated, "At the time of filing its next base rate case,

Additionally, the Commission Order stated, "At the time of filing its next base rate case, which proposes the assets of this acquisition in rate base, The York Water Company – Wastewater shall specifically reference Docket No. A-2019-3007355 and justify any amount claimed as an acquisition adjustment pursuant to Section 1327 of the Public Utility Code, 66 Pa. C.S. § 1327.". Ultimately, York has not justified its failure to pass through the difference to ratepayers because it has not met the standard of Section 1327(e).

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Q.

Α.

Order, p. 13, Paragraph No. 9. Docket No. A-2019-3007355.

- 1 Q. What adjustments are you recommending?
- 2 A. I recommend that York amortize the difference between the purchase price and
- depreciated original cost of the assets, as an addition to income over ten years, consistent
- 4 with the number of years used by York for its proposed Positive Acquisition
- 5 Adjustments. My recommended adjustments are provided on the schedules of OCA
- 6 witness Mark Garrett.
- 7 Q. Did the OCA address the Jacobus system in any other testimony?
- 8 A. Yes. Mr. Fought also addressed the Jacobus system in OCA Statement 6.
- 9 **Conclusion:**
- 10 Q. Does this conclude your Direct Testimony?
- 11 **A.** Yes. However, I reserve the right to modify if needed.

Appendix A

QUALIFICATIONS OF MORGAN N. DEANGELO

Education:

2020 M.B.A., Wilkes University

2018 B.B.A. concentration in Finance, minor in Accounting, Wilkes University

Positions:

June 2020 – Present Regulatory Analyst, Pennsylvania Office of Consumer Advocate

2018 – 2020 Graduate Assistant, Office of Student Development,

Wilkes University

Experience:

I am currently employed by the Pennsylvania Office of Attorney General, Office of Consumer Advocate (OCA) as a Regulatory Analyst. In this position, my responsibilities of reviewing utility company filings with the Pennsylvania Public Utility Commission (Commission) and analyzing the financial, economic, rate of return, and policy issues that are relevant to the filings. Additionally, I am tasked with preparing recommendations for the OCA's involvement in utility filings with the PA PUC, writing testimony and presenting oral testimony on behalf of the OCA.

Relevant Training:

IPU Regulatory Studies - Intermediate Course, August 2020 IPU Accounting and Ratemaking Course, February 2021

Previous Cases where testimony was submitted:

- Petition of Twin Lakes Utilities, Inc., P-2020-3020914
- Application of Pennsylvania American Water Company, A-2020-3019634
- PaPUC v. UGI Utilities, Inc. Electric Division, R-2021-3023618
- PaPUC v. Pittsburgh Water and Sewer Authority, R-2021-3024773, R-2021,3024774, R-2021-3024779
- PaPUC v. Aqua Pennsylvania, Inc., Aqua Pennsylvania Wastewater, Inc., R-2021-3027285, R-2021-3027186
- PaPUC v. City of Lancaster Water Department, R-2021-3026682
- Application of Aqua Pennsylvania Wastewater, Inc., A-2021-3027268
- PaPUC v. Borough of Ambler Water, R-2022-3031704

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

: Docket Nos. R-2022-3031340 (Water)

R-2022-3032806 (Wastewater) v.

The York Water Company

VERIFICATION

I, Morgan N. DeAngelo, hereby state that the facts set forth in my Direct Testimony,

OCA Statement 2, are true and correct (or are true and correct to the best of my knowledge,

information, and belief) and that I expect to be able to prove the same at a hearing held in this

matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. §

4904 (relating to unsworn falsification to authorities).

DATED: August 19, 2022

*334091

Signature: *Morgan N. DeAngelo*Morgan N. DeAngelo

Consultant Address: Office of Consumer Advocate

555 Walnut Street 5th Floor, Forum Place Harrisburg, PA 17101-1923

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission:

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v. : Docket Nos. R-2022-3031340 (Water)

: R-2022-3032806 (WW)

York Water Company :

DR. DAVID S. HABR

ON BEHALF OF THE OFFICE OF CONSUMER ADVOCATE

August 19, 2022

1 Q: PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

- 2 A: David S. Habr, 213 Cornuta Way, Nipomo, CA.
- 3 Q: BY WHOM ARE YOU EMPLOYED?
- 4 A: I am the owner of Habr Economics, a consulting firm I founded in January 2009.
- 5 The firm focuses on cost of capital and mergers and acquisitions.
- 6 Q: PLEASE PROVIDE A BRIEF DESCRIPTION OF YOUR EDUCATION
- **AND EXPERIENCE.**

A: I received a Bachelor of Arts (1968) and a Master of Arts (1969) degree in
 economics from the University of Nebraska – Lincoln. I received a Ph.D. degree
 in economics from Washington State University in 1976.

I began my career in utility regulation when I joined the Iowa State

Commerce Commission (n/k/a the Iowa Utilities Board) in 1981. My first rate of return testimony was filed in a Northwestern Bell case in 1983 and I have continued to testify on rate of return since then. In 1987, I was hired by the Iowa Office of Consumer Advocate to establish and develop their testifying staff as well as continue to testify on rate of return and other financial and economic matters. I remained in that position until the end of 2008. Since starting Habr Economics, I have filed rate of return testimony in Hawaii, Maine, Maryland, and Pennsylvania and testimony in merger cases in Maine and Maryland. I also prepared rate of return testimony for the Utah Office of Consumer Services and filed testimony in Iowa on the impact of holding company strategic decisions on the efficiency of utility company operations.

Prior to joining the Iowa State Commerce Commission staff, I had a private 1 2 consulting practice, worked for a small consulting firm, and served six years as a 3 member of the economics faculty at Drake University. My vita, Exhibit DSH-1, contains a more detailed account of my previous activities. 4 5 Q: WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY IN THIS 6 **PROCEEDING?** 7 A: The purpose of my testimony is to determine the appropriate return on common 8 equity and overall cost of capital to use in this proceeding. I also have comments 9 on various aspects of Mr. Moul's testimony. 10 0: HAVE YOU PREPARED ANY EXHIBITS TO ACCOMPANY YOUR 11 **TESTIMONY?** Yes, I have prepared Exhibits DSH-1 through DSH-18. A brief description of 12 A: 13 each exhibit follows: 14 DSH-1 – Habr Vita. DSH-2 thru 4 – DCF costs based on analyst's forecasts only. 15 16 DSH-5 thru 7 – DCF costs including GDP growth, FERC method. DSH-8 thru 10 – DCF costs including GDP growth, 2-Stage DCF. 17 18 DSH-11 – Historical Risk Premium. DSH-12 thru 13 – CAPM results. 19

DSH-14 thru 15 – CAPM/Risk Premium results.

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1 Q: WHAT RECOMMENDATIONS CONCERNING THE COST OF CAPITAL

ARE YOU PROPOSING?

A: I am accepting York Water's 3.91% embedded cost of debt, recommending a hypothetical capital structure consisting of 52% common equity and 48% long term debt be used in this proceeding and recommending that York Water be given the opportunity to earn 7.94% on its common equity. Combining York Water's 3.91% embedded long-term debt with my recommended capital structure and 7.94% common equity cost will provide York Water to earn an overall rate of return of 6.01%.

My proposed adjustments are reflected in the table below.

	Ratio	Cost Rate	Weighted Cost
Common Equity	52.00%	7.94%	4.13%
Long Term Debt	48.00%	3.91%	1.88%
Total	100.00%		6.01%

The details supporting my proposed adjustments are discussed further in my testimony.

Q: HOW DO YOUR RECOMMENDATIONS COMPARE TO COMPANY

WITNESS MOUL'S RECOMMENDATIONS?

A: Mr. Moul proposes a return on equity of 11.00% and a management performance adder of 0.25%, for a total return on equity of 11.25% Mr. Moul's recommendation is based on his analysis of the Capital Asset Pricing Model (CAPM), Discounted Cash Flow (DCF) Model, and other models. A summary of Mr. Moul's positions are shown in figure below.²

	Ratios	Cost Rate	Weighted Cost Rate
Long-Term Debt	45.23%	3.91%	1.77%
Common Equity	54.77%	11.25%	6.16%
Total	100.00%		7.93%

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Q: WHY DO YOU DISAGREE WITH MR. MOUL'S ANALYSIS?

I outline my full DCF and CAPM analysis below to show why my inputs are more reasonable than those chosen by Mr. Moul. This is because several of Mr. Moul's key assumptions and inputs to these models violate fundamental, widely accepted tenets in finance and valuation. I find several aspects of Mr. Moul's approach and resulting recommendations to be problematic, including the growth rates used in his DCF models and his inflated estimate for the equity risk premium used in his

¹ Moul, St. No. 107, at 6-7.

² Moul, St. No. 107, at 2.

CAPM analysis. In addition, Mr. Moul adds a leverage adjustment to the results of his models, which inappropriately inflate the results. The Commission has previously rejected Mr. Moul's proposed leverage adjustment.³ Finally, Mr. Moul inappropriately adds a premium to his cost of equity estimate for management performance, which further inflates a figure that is already overestimated.

Regarding capital structure, Mr. Moul proposes a 45.23% long-term debt ratio when the Company had long-term debt ratios of 46% in 2020 and 49% in 2021.⁴ The Company's proposed capital structure should be rejected for several reasons as discussed more fully below.

I recommend that the Commission should also consider the burden on consumers if the Commission increased the ROE and implemented the Company's proposed capital structure and management performance bonus. As expressed in OCA witness Mark Garrett's testimony (OCA Statement 1), under my proposed 52% equity, the proposed water revenues would be decreased by \$1,171,648 for water and \$110,791 for wastewater.⁵

The inclusion of a 25-basis point increase to ROE is also not warranted for the reasons outlined by OCA Witness Barbara Alexander. Removing this

³ Pa. PUC v. PPL Elec. Util. Corp., Docket No. R-2012-2290597, Order at 52 (Dec. 28, 2012).

⁴ York Water 2021 Annual Report to Shareholder, page 8.

⁵ Mark Garrett Direct Testimony, OCA Statement 1, page 7. Assuming all else equal, a 25-basis point increase to ROE (7.93% Habr ROE + 0.25= 8.18%) would add approximately \$1,282,439 to the total water and wastewater revenue requirement. Impact on water and wastewater operations is \$689,689 and \$62,781, respectively.

1	unwarranted adder decreases York Water's overall revenue requirement by
2	\$683,689 for water and \$62,781 for wastewater. ⁶

3 Q: IS A MANAGEMENT PERFORMANCE BONUS INCLUDED IN YOUR

7.94% COMMON EQUITY COST?

A:

A: No, for the reasons set forth below in my testimony, it is not appropriate to include
a management performance bonus in the cost of common equity. In addition,

OCA witness Alexander (OCA Statement 5) presents evidence that the Company's

performance is not "superior" as concluded by York Water witnesses Hand and

Moul.⁷

Q: WHY IS IT NECESSARY TO DETERMINE THE COST OF COMMON EQUITY FOR A REGULATED UTILITY COMPANY?

Regulated prices are based on all the costs of producing utility services including borrowing costs and the money paid to common stockholders (the cost of common equity or fair profit rate) for the use of the funds they provide. All the products or services used in the production of utility services have an explicit cost associated with them, including the interest cost associated with borrowing money and the dividend rate for preferred stock. Common equity is the only resource used by a utility company that does not have a contractual or defined cost associated with it. Rather, the return available to common shareholders is the residual that remains after all of the company's financial obligations have been met.

⁶ Mark Garrett Direct Testimony, OCA Statement 1, page 7.

⁷ Hand, Statement 1, page 23; Moul, Statement 107, pages 6-7.

The cost of common equity is an important cost for utility companies and utility customers. It determines the amount of profit the utility will be allowed to earn. Profits for the provision of utility services are regulated because the services are produced under conditions that approximate a natural monopoly, a situation where the largest firm has the lowest cost and is able to produce enough for everyone at that cost. Of course, in the absence of regulation, a monopolistic utility is also big enough to keep out competitors, charge higher prices, and earn higher profits than it would be able to if it had viable competitors for all of its services. Thus, the role of regulation is to ensure that services that are most efficiently provided under a monopolistic structure – such as the provision or water and wastewater treatment and services – are provided in a manner that can reasonably be expected in a competitive environment. ARE THERE LEGAL STANDARDS REGARDING THE RATE OF RETURN ON EQUITY A UTILITY IS ALLOWED TO EARN?

Q:

A: Yes, there are two U. S. Supreme Court cases, *Bluefield Water Works* and *Hope*Natural Gas that provide general guidance for establishing the return on equity. In
Bluefield the court held, in part, that:

A public utility is entitled to such rates as will permit it to earn a return on the value of the property which it employs for the convenience of the public equal to that generally being made at the same time and in the same general part of the country on investments in other business undertakings which are attended by corresponding, risks and uncertainties, but it has no constitutional right to profits such as are realized or anticipated in highly profitable enterprises or speculative ventures. The return should be reasonably sufficient to assure confidence in the financial

soundness of the utility, and should be adequate, under efficient and economical management, to maintain and support its credit and enable it to raise the money necessary for the proper discharge of its public duties. A rate of return may be reasonable at one time and become too high or too low by changes affecting opportunities for investment, the money market, and business condition generally.⁸

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In *Hope*, the Court held, in part that:

The ratemaking process under the Act, [Federal Power Act] i.e., the fixing of 'just and reasonable' rates, involves a balancing of the investor and consumer interests. Thus, we stated in the *Natural Gas* Pipeline Co. case that 'regulation does not insure that the business shall produce net revenues.' [Cite omitted.] But, such considerations aside, the investor interest has a legitimate concern with the financial integrity of the company whose rates are being regulated. From the investor or company point of view, it is important that there be enough revenue not only for operating expenses, but also for the capital costs of the business. These include service on the debt and dividends on the stock. By that standard, the return to the equity owner should be commensurate with returns on investment in other enterprises having corresponding risks. That return, moreover, should be sufficient to assure confidence in the financial integrity of the enterprise, so as to maintain its credit and to attract capital.⁹

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In both cases, the Court indicated that utilities should be allowed to earn a return close to the returns on businesses with similar risks. Two analytical methods, the discounted cash flow (DCF) model and the capital asset pricing modeling (CAPM), were developed after these decisions were written that make it possible to use financial market data to estimate the return common stockholders expect to earn on their investment in utility common stock.

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⁸ <u>Bluefield Waterworks & Improvement Co. v. Public Service Comm'n. Of West Virginia</u>, 262 U.S. 679, 692-3, 43 S.Ct. 675,679 (1923) (emphasis added).

⁹ Federal Power Comm'n. v. Hope Natural Gas Co., 320 U.S. 591, 603, 64 S. Ct. 281, 288 (1944). (Citations omitted, emphasis added.)

1	Q:	ARE YOU AWARE OF ANY STATEMENTS THE UNITED STATES
2		SUPREME COURT HAS MADE CONCERNING THE IMPACT OF
3		RATEMAKING ON PROPERTY VALUES?
4	A:	Yes. In the above-mentioned <i>Hope</i> case, the Supreme Court stated that:
5 6 7 8 9 10 11 12 13		The fixing of prices, like other applications of the police power, may reduce the value of the property which is being regulated. But the fact that the value is reduced does not mean that the regulation is invalid. It does, however, indicate that 'fair value' is the end product of the process of ratemaking, not the starting point, as the Circuit Court of Appeals held. The heart of the matter is that rates cannot be made to depend upon 'fair value' when the value of the going enterprise depends on earnings under whatever rates may be anticipated. ¹⁰
15	Q:	WHAT RELATIONSHIP DOES THIS STATEMENT HAVE TO DO WITH
16		THE COST OF COMMON EQUITY FOR A UTILITY COMPANY
17		DETERMINED DURING A REGULATORY PROCEEDING?
18	A:	This statement recognizes that cost of common equity determined through the
19		regulatory process may have an impact on the value of the utility company's
20		property. In today's world, this change in value would be reflected in the market
21		value of the utility company's common stock or, in the case of a utility holding
22		company, the parent company's common stock.
23		

 $^{^{10}}$ $\underline{\text{Hope}}$, 320 U.S. at 601, 64 S. Ct. at 287. (Citations and footnote omitted; emphasis added.)

1 Q: WHAT PROXY GROUP DO YOU USE IN YOUR ANALYSIS?

- 2 A: Except for York Water, I have utilized Mr. Moul's proxy group.
- 3 Q: WHAT IS THE PURPOSE OF A PROXY GROUP?
- 4 A: The fact of the matter is that sufficient York Water information exists to estimate
- 5 York Water's cost of common equity on a stand-alone basis. The proxy group in
- 6 this case provides a range of individual company common equity cost rates that
- 7 provide a framework for establishing the reasonableness of York Water's common
- 8 equity cost.
- 9 Q: WHY ISN'T YORK WATER INCLUDED IN YOUR PROXY GROUP?
- 10 A: The purpose of the proxy group is to provide cost of common equity information
- about companies similar to York Water. Including York Water in the proxy group
- is effectively, in part, comparing York Water to itself and distorts the purpose of
- using the proxy group.
- 14 Q: DOES MR. MOUL'S METHODOLOGY ALLOW THIS COMPARISON
- 15 **TO TAKE PLACE?**
- 16 A: No. Mr. Moul combines the dividend yields, growth rates, betas for all the proxy
- group members into group averages thus losing the individual variation of each
- proxy group member including York Water.
- 19 Q: DID YOU ALSO CONSIDER YORK WATER IN YOUR ANALYSIS?
- 20 A: Yes. I performed a complete DCF and CAPM analysis on York Water.

Q: WHAT METHOD DO YOU USE TO DETERMINE THE COST OF

COMMON EQUITY?

A:

I rely primarily on the DCF model. This model is straight forward and provides reliable results when the growth rate used in the model is consistent with the model's assumptions.

The model begins with the proposition that the market price for a share of common stock that an investor is *willing to pay under any market conditions* is equal to the present value of the stock's expected dividend (income) stream. The present value of an expected income stream is determined by discounting the stream with a rate that reflects, among other items, the investor's perception of the asset's inherent and relative riskiness compared to similar or other companies the investor may be considering. In this manner, the economic principle of opportunity cost finds expression in the DCF method.

In my experience, the discount rate will also tend to track general capital market conditions. That is, the discount rate, being similar to an interest rate, will tend to move up when interest rates in general rise and it will tend to move down when interest rates in general decline.

From the investor's point of view, this discount rate reflects the rate of return the investor expects to earn on his or her investment in the asset. For an asset like a utility company common stock that is freely traded in the market, the market price conceptually represents the present value of the expected income

stream for investors who are willing and able to buy that asset instead of another asset.

If the expected dividend growth remains unchanged, the price an investor would be willing to pay for the stock is given by equation (1). The numerator reflects a perpetual dividend stream growing at the rate "g" and the denominator reflects the cost of equity (discount rate) "k" used to determine the present value of the dividend stream. This equation only has a finite solution if "k" is greater than "g." A value of "g" greater than "k" would imply a share price that is infinitely large.

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$$P_0 = \int_0^\infty \frac{D_0 e^{(g)t}}{e^{(k)t}} dt$$
 (1)

 P_0 = the current market price of the stock.

 D_0 = the current indicated annual dividend.

k =the cost of common equity.

g = the long-term sustainable growth rate.

e =the base for natural logarithms.

t = time.

dt = the differential of time

The solution to equation (1) is:

$$P_0 = \frac{D_0}{k - g} \tag{2}$$

Equation (2) can be rearranged to the familiar dividend yield plus growth format used to find the implied value of k based on observed values of D_0 , P_0 , and g:

$$k = \frac{D_o}{P_o} + g \tag{3}$$

In the constant growth version of the model, the expected growth rate is a rate that could be economically/financially sustained by the company "forever" (or infinitely from the mathematical point of view). This constant growth assumption puts an implicit upper limit on the magnitude of the dividend growth rate.

O:

A:

If the magnitude of the dividend growth rate used exceeds the magnitude of the expected long-term growth in Gross Domestic Product (GDP), the results of the model become unrealistic. A company with a perpetual, sustainable growth rate greater than the economy will eventually exceed the economy as a whole in size. That is, the company would become the economy, a quite unlikely real-world outcome. For this reason, one must be very careful when using analysts' growth forecasts that exceed GDP growth forecasts because the use of these forecasts results in an overestimate of a given utility's cost of common equity.

The forecasts reported by Yahoo and Zack's are 5-year forecasts while *Value Line*'s forecasts are 3- to 5-year forecasts. By definition, they do not match the time horizon contemplated in the constant growth version of the DCF model and may or may not reflect a company's sustainable long-term growth rate.

IS THERE ANY WAY THE DCF MODEL CAN BE MODIFIED TO TAKE INTO ACCOUNT THE FACT THAT AN INDIVIDUAL COMPANY CANNOT GROW FASTER THAN THE ECONOMY AS A WHOLE IN PERPETUITY?

Yes. A weighted average of the analysts' growth forecasts and the long-term GDP growth rate forecast can be used for "g" in the standard dividend yield plus growth

DCF model to temper the impact of short-term growth rate forecasts that are not sustainable in the long run.

FERC has been using a weighted average growth rate in the DCF model in natural gas and oil pipeline cases since the mid-1990's and has adopted the same methodology in regulated utility cases. (See FERC Opinions 569 and 569-A). FERC currently gives 80% weight to the earnings growth forecasts and 20% weight to the GDP growth forecast. This tempers the impact of unsustainably high earnings growth forecasts on DCF cost estimates. A DCF model with two growth periods or stages can also be used to estimate a weighted average growth rate.

Q: WHAT DOES A DCF MODEL WITH TWO GROWTH STAGES LOOK LIKE?

A: The following equation is a general version for two-stage DCF model. Basically, the constant growth version of the model shown in equation (1) is divided into two parts, a high growth initial period followed by the long-term sustainable growth period.

$$P_0 = \int_0^a \frac{D_0 e^{(g_1)t}}{e^k} dt + \int_a^\infty \frac{D_0 e^{(g_2)}}{e^k} dt$$
 (4)

In this model, g_1 is the growth rate for the first "a" years and g_2 is the sustainable growth rate for the remaining time. For analysts' 5-year forecasts, "a" takes a value of "5." In my application of this model, I allowed the analysts' forecasts to

¹¹ Association of Businesses advocating Tariff Equity, et al. v. Midcontinent Independent System Operator, Inc., et al., 169 FERC ¶ 61,129 and 171 FERC ¶ 61,154 respectively.

- 1 continue for 20 years ("a" = 20) to make sure the analysts' forecasts had time to 2 run their course. To obtain the average growth rate estimate, it is first necessary to
- 3 estimate the cost of equity.¹²
- 4 Q: HOW IS THE TWO-STAGE GROWTH MODEL COST OF COMMON
- 5 **EQUITY CALCULATED?**
- 6 A: It is calculated through an iterative process using the following solution to the
- 7 above equation.

$$P_0 = D_0 \left(\frac{1}{g_1 - k} \right) \left(e^{(g_1 - k)a} - 1 \right) - D_0 \left(\frac{1}{g_2 - k} \right) e^{(g_2 - k)a}$$
 (5)

- 9 Different values for "k" are inserted in the righthand side of the equation until the
- 10 calculated value of P_0 is equal to the current observed value of the stock price.
- 11 Q: HOW IS THE WEIGHTED AVERAGE GROWTH RATE FOUND ONCE
- 12 THE COST OF COMMON EQUITY HAS BEEN ESTIMATED?
- 13 A: The weighted average growth rate is found by first subtracting the dividend yield
- from the cost of common equity estimate. Because the resulting growth is a
- 15 continuously compounded growth rate, it next needs to be converted to an
- annually compounded growth rate for use in the standard "dividend yield plus
- growth model."

¹² It should be noted that all the growth rates in equation (4) are continuously compounding growth rates as opposed to the annually compounding growth rates reported by Yahoo!, Zack's, and *Value Line*. Annually compounding growth rates can be converted to continuously compounding growth rates and vice versa.

1 Q: WHAT TIME PERIOD DID YOU USE IN YOUR ANALYSIS?

A: I used period May 2, 2022 through July 19, 2022. This period reflects any impact the recent Federal Reserve interest rate increases have had on York Water's and the proxy groups common stock prices.

5 Q: HOW DID YOU ARRIVE AT THE GDP GROWTH VALUE USED IN

YOUR DCF ANALYSIS?

A: I reviewed three growth rates, two based on forecast information in the 2022

Annual Report of the Board of Trustees of the Federal Old-Age and Survivors

Insurance and Federal Disability Insurance Trust Funds (OSAID Annual Trustees' Report)¹³ and EIA's 2022 Annual Outlook while the third is based on historical

GDP growth. The growth rates are presented in Table – 1 below. The OASID and

EIA growth rates are based on information released this spring prior to the Federal

Reserve interest rate increases. While I do not expect that those interest rate increases would have an impact on the content of those reports, out of an abundance of caution, I chose to rely on the 5.07% GDP growth rate in my DCF analysis.

TABLE 1 GDP FUTURE GROWTH RATES	
Historical Compound GDP Growth, 1983 2021	5.07%
OASDI Trustee's Report Intermediate Forecast Growth, 20282096	4.10%
EIA Annual Outlook Forecast Growth, 20282050	4.35%
A	4.510/

Average: 4.51%

¹³ This report assesses the costs various Social Security program need. See, https://www.ssa.gov/OACT/TR/2022/

1 Q: WHAT ARE THE RESULTS OF YOUR PROXY GROUP DCF

2 **ANALYSIS?**

3 A: The overall results of my DCF are presented in Table 2 below.

TABLE 2 -- PROXY GROUP DCF METHODS COST OF COMMON EQUITY RESULTS14

	1	DCF		FE	RC 2-Step D	OCF	Т	wo-Stage D	CF	1	
Company	Yahoo! Growth Rates	Zacks Growth Rates	Value Line Growth Rates	Yahoo! Growth Rates	Zacks Growth Rates	Value Line Growth Rates	Yahoo! Growth Rates	Zacks Growth Rates	Value Line Growth Rates	Individual Company Average	Individual Company Median
American States Water	6.30%		7.41%	6.43%		7.32%	6.93%		6.99%	6.90%	6.96%
American Water Works Co.	10.16%	9.93%	4.81%	9.51%	9.33%	5.22%	7.11%	7.09%	6.80%	8.14%	8.22%
Artesian Resources Corp.	6.34%			6.55%			7.34%			6.74%	6.55%
California Water Service Group	13.69%		8.44%	12.36%		8.15%	7.67%		7.08%	9.56%	8.29%
Essential Utilities, Inc.	9.25%	8.58%	12.49%	8.90%	8.37%	11.50%	7.66%	7.59%	8.13%	9.16%	8.58%
Middlesex Water Company	4.06%		5.87%	4.53%		5.98%	6.38%		6.42%	6.16%	6.18%
SJW Corporation	12.28%		16.53%	11.34%		14.75%	8.09%		9.27%	11.15%	11.34%
Proxy Group Average	9.67%	9.26%	8.55%	9.18%	8.85%	8.82%	7.31%	7.34%	7.45%		
Proxy Group Median	9.70%	9.26%	7.92%	9.21%	8.85%	7.74%	7.34%	7.34%	7.03%		

Combined P	Combined Proxy Group DCF		Group FERC 2-Step wth DCF	Combined Proxy Group Two-Stage Growth DCF		
Maximum:	13.69%	Maximum:	14.75%	Maximum:	9.27%	
Minimum:	5.87%	Minimum:	5.22%	Minimum:	6.38%	
Median:	8.91%	Median:	8.63%	Median:	7.11%	
Average:	9.23%	Average:	8.98%	Average:	7.37%	

Combined DCF, FERC 2-Step, and 2-Stage Median: 7.67%

Combined DCF, FERC 2-Step, and 2-Stage Average: 8.26%

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- 5 The common equity cost estimates clearly decline when the unsustainable analysts'
- 6 forecasts are tempered by forecast GDP growth. The DCF results based on
- 7 weighted average growth from the 2-Stage growth are the lowest even though the
- 8 analysts' forecast growth was assumed to last 20 years rather than five.

¹⁴ Three extremely low and one extremely high DCF values (in red) have been eliminated from consideration.

1 Q: DO YOU INCLUDE INDIVIDUAL PROXY GROUP COMPANY RESULTS 2 IN YOUR EXHIBITS?

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A:

A:

only are in Exhibits DSH-2 through DSH-4. The results based on the FERC weighting of analysts' forecasts and GDP growth are found in DSH-5 through DSH-7. Results based on the 2-stage growth model are found in Exhibits DSH-8 through DSH-10. Each of these exhibits also includes the results for York Water. **HOW DO YOU INTERPRET THE RESULTS OF YOUR DCF ANALYSIS?**

Yes. The individual proxy group company results based on analysts' forecasts

Of the three DCF models, the two-stage growth model results are most reflective of the impact of stable growth over the DCF model's infinite time horizon. For example, the impact of *Value Line*'s SJW Corporation's 14% earnings growth forecast that generated 16.53% DCF result is reduced enough in the two-stage growth to yield a 9.27% equity cost estimate.

In this case, the DCF model using only analysts' forecasts provides extreme DCF estimates¹⁵, some of which are not consistent with the model's infinite time horizon. The results, at best, can be looked at as providing a ceiling above which the allowed common equity should not go.

The FERC 2-step method falls in between the DCF model and the 2-stage growth model. It provides a consistent means of giving less weight to GDP growth than does the 2-stage growth model. As I see it, the FERC 2-step model

¹⁵ Two extremely low and one extremely high DCF values (in red) in the DCF category have been eliminated from consideration.

- provides some "give" in the full impact of long-term growth demonstrated in the
- 2 two-stage growth model. Both the FERC 2-step and the two-stage growth model
- 3 clearly demonstrate why unsustainable analysts' forecasts need to be restrained to
- 4 obtain meaningful common equity cost estimates.

5 Q: WHAT ARE THE RESULTS THE DCF ANALYSIS YOU CONDUCTED

- 6 **ON YORK WATER?**
- 7 A: York Water's DCF results based on analysists' forecasts are as follows:
- 8 Yahoo! 4.9% Growth; DCF 6.89%, FERC 6.93%, 2-Stage 7.05%.
- 9 Zack's 5.0% Growth; DCF 6.99%, FERC 7.01%, 2-Stage 7.06%. 16

¹⁶ The calculations that generate these results are found on exhibits DSH-2 through DSH-10.

1	Q:	DID YOU PERFORM ANY OTHER DCF ANALYSIS OF YORK WATER?
2	A:	Yes, I did. I reviewed York Water's historical performance to see how historical
3		earnings growth compared to the analysts' forecasts. Specifically, I reviewed
4		York Water's earnings, dividend, and book value growth for the period 2003 -
5		2021. I found earnings growth of 5.94%, dividend growth of 4.10%, and book
6		value of 6.04% ¹⁷ . Using the 5.94% earnings growth in the DCF model yields a
7		7.94% common equity cost for York water. 18
8	Q:	HOW DOES THIS 7.94% COMMON EQUITY COST FIT IN WITH THE
9		OVERALL RESULTS OF YOUR PROXY GROUP RESULTS?
10	A:	The 7.94% is 27 basis points above the 7.67% median of the combined DCF
11		results and 32 basis points below the 8.26% average of the combined DCF results
12		so the 7.94% is higher than half of the observations but lower than the average of
13		the observations. Roughly, it is somewhere in the middle of all the observations.
14	Q:	MR. MOUL'S DCF ANALYSIS YIELDED A NOTABLY HIGHER
15		RESULT. DID YOU FIND ANY PROBLEMS WITH HIS ANALYSIS?
16	A:	Yes. Mr. Moul's DCF Model produced a cost equity result of 10.77%, which
17		includes a "leverage adjustment" of 1.46%. 19 As stated earlier, the results of Mr.
18		Moul's DCF are overstated primarily because of a fundamental error regarding his
19		growth rate inputs and the inappropriate "leverage adjustment" he included in both
20		his DCF model and his Capital Asset Pricing Model (CAPM).

¹⁷ See Habr Electronic workpapers Habr York Water Company Rate of Return, Tab York DCF. 18 7.94% = (1+.5x5.94)/40.07 +5.94 Moul, Statement 107, at 32.

1	Q:	WHAT COMMENTS DO YOU HAVE ABOUT HIS DISCUSSION OF THE
2		GORDON, GORDON, AND GOULD ARTICLE ON PAGE 27 OF HIS
3		TESTIMONY?
4	A:	Mr. Moul is trying to use this article to support the contention that analysts'
5		earnings forecasts are the "best" earnings forecasts. After careful review of the
6		entire article, I believe that Mr. Moul's statement at lines 2-3 that Professor
7		Gordon "concluded that the best measure of growth in the DCF model is a forecast
8		of earnings per share growth" (emphasis added) is completely incorrect. The
9		following quote summarizes the authors' view concerning analysts' forecasts.
10 11 12 13 14 15 16 17 18 19 20 21		Before closing, we have three observations to make. First, the superior performance by KFRG [analysts forecasts] should come as no surprise. All four estimates of growth rely upon past data, but in the case of KFRG a larger body of past data is used, filtered through a group of security analysts who adjust for abnormalities that are not considered relevant for future growth. We assume this is done by any analyst who develops retention growth estimates of yield for a firm. If we had done this for all seventy-five firms in our utility sample, it is likely that the correlations would have been as good or better than those obtained with the analyst forecasts of growth. ²⁰ Basically, the authors say two things. First, the analysts' forecasts had superior
22		performance compared to the three other growth rates used in the study. ²¹ Second,
23		the authors believe they can develop growth estimates that are just as good, or
24		better than the analysts' forecasts. Hence, they were not saying the analysts'
25		forecasts were "best" as Mr. Moul claims.

 ²⁰ Gordon, David A., Myron J. Gordon, and Lawrence I. Gould, "Choice among methods of estimating share yield," *The Journal of Portfolio Management*, Spring, 1989, pp. 54-55.
 ²¹ The three other growth rates were 5-year historical earning, dividend, and book value growth. *Id.*, p. 51.

Q: WHAT OTHER METHODS HAVE YOU USED TO ESTIMATE THE

COST OF COMMON EQUITY?

- 3 A: I use the CAPM and a risk premium method that is based on the CAPM as checks
- 4 to my DCF analysis. The basic CAPM is represented by the equation:

$$k_e = R_f + \beta_e (R_m - R_f)$$

6 where:

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 $k_e = \text{company's market cost of common equity.}$

8 $R_f = \text{risk}$ free rate of return.

 $R_m = \text{market rate of return.}$

 β_e = the company's common stock beta.

The CAPM, like the DCF, is a market-based model. Beta, a measure of risk, reflects the principle that rational investors expect higher returns for incurring higher risk. The core problem with the basic CAPM is that the closest measure there is for a "true" risk free rate, ²² the rate on short duration T-bills, is highly influenced by Federal Reserve monetary policy and thus does not reflect a market determined risk free rate.

The basic risk premium model consists of a bond yield plus a risk premium, that is:

$$k_e = k_b + (k_e - k_b)$$

The core problem with the risk premium model is obvious; the cost of common equity must be estimated somehow to come up with the risk premium to be added to the bond yield, k_b , to determine the cost of common equity. Going

²² The "true" risk free rate has neither default risk nor interest rate risk.

through this process adds nothing to the information already contained in the 2 original common equity cost estimate.

> These two problems can be solved recognizing that it is conceptually possible to estimate bond yields using the CAPM. That is:

$$k_b = R_f + \beta_b (R_m - R_f)$$

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where k_b is the bond yield and β_b is the company's bond beta. A risk premium that can be added to the company's bond yield can now be calculated as:

$$k_e - k_b = (\beta_e - \beta_b)(R_m - R_f)$$

That is, the equity risk premium to be added to the company's bond yield is equal to difference between equity and bond betas times the market risk premium. The risk premium model now takes the form:

$$k_e = k_b + (\beta_e - \beta_b)(R_m - R_f)$$

Thus, we have a model that combines positive aspects of the risk premium model and the CAPM. From the risk premium model, we have the observable bond yield, k_b , and, from the CAPM we have empirically estimated values for the betas and the market risk premium. Even if bond betas are not available, this model can be used to estimate maximum values for CAPM common equity costs by assigning a value of zero to the bond beta. That is what I have done in the current analysis.

Q: PLEASE DESCRIBE THE INPUTS YOU USE IN YOUR CAPM

ANALYSIS?

A: I wanted to match my CAPM analysis time frame with the time frame I used in my

DCF analysis. To that end, I calculated betas for the Proxy Group companies and

York Water based on the New York Stock Exchange Index using daily holding

period returns for the period May 2, 2022 through July 19, 2022. The calculated

betas where then adjusted using *Value Line's* adjustment formula: adjusted beta =

0.35 = 0.67(calculated beta).

Likewise, the interest rates in the analysis, the one month and 30-year constant maturity treasuries along with Moody's "A" and "Baa" rated utility bonds, covered that same period. Companies with split ratings were given bond yields equal to the average of the "A" and "Baa" yields.

13 Q: WHAT MARKET RISK PREMIUM DID YOU USE IN YOUR CAPM

ANALYSIS?

A: I used two different estimates of the market risk premium. The first, 6.98%, is a historical risk premium based on total return data for Large Capitalization Stocks and U.S. Treasury Bills found in Appendices B-1 and B-9 in the 2022 edition of the *SBBI Yearbook*. The second, 7.92%, is based on a DCF cost estimate for the S&P 500.

1 **O**: HOW IS YOUR HISTORICAL RISK PREMIUM CALCULATED? 2 A: My historical risk premium is the average of the annual difference between annual holding period returns (continuously compounded) for Large Capitalization Stock 3 and the annual holding period returns (continuously compounded) for U.S. 4 5 Treasury Bills. For the period 1926 through 2022, that average is 6.74%, which I converted to the annual compounding equivalent, 6.98%, for use in the CAPM 6 7 models. (See Exhibit DSH-12.) 8 **O**: WHY DO YOU INCLUDE AN HISTORICAL RISK PREMIUM IN YOUR 9 **ANALYSIS?** 10 A: Whether making a hiring decision or a decision to buy a common stock, the 11 rational decision maker will look at past accomplishments as well as current and 12 future potentials. Past performance provides a reality check; it tells us what the 13 experience has been relative to the expectations for the future. HOW DID YOU ARRIVE AT THE 7.92% S&P 500 RISK PREMIUM? 14 Q: A: The 7.92% S&P 500 risk premium was calculated by first estimating the DCF cost 15 16 for S&P 500 index. The June 2022 annualized dividend paid was \$61.02 per share. Combining that dividend with average S&P 500 closing price for the May 17 2, 2022 through July 19, 2022 period, \$3,943.06 gives a 1.62% dividend yield. 18 My S&P earnings growth rate is based on the historical S&P earnings 19 record developed by Professor Robert Shiller of Yale University. Table 3 below 20

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shows S&P loglinear growth rates over various time periods.

Table 3
S&P 500 Earnings Growth; Shiller Data

Average Growth 1871 – 2022	4.31%
Average Growth 1929 - 2022	6.18%
Average Growth 1950 – 2022	6.04%
Average Growth 1982 – 2022	6.24%
Average Growth 2002 – 2022	7.24%

I have used the more recent 7.24 growth to arrive at my 8.93% DCF cost rate for the S&P 500.²³ I then subtracted the May 2, 2022 through July 19, 2022 average one-month constant maturity yield, 1.01%, to arrive at my 7.92% risk premium.

5 Q: WHAT ARE THE RESULTS OF YOUR PROXY GROUP CAPM

6 **ANALYSIS?**

7 A: The overall results of my CAPM analysis are presented in Table 4 below.

TABLE 4 -- PROXY GROUP CAPM RESULTS SUMMARIZED BY ESTIMATION METHOD

		sk Premium		CAPM				
Risk Premium	High	Low	Median	Avg.	High	Low	Median	Avg.
Historical	11.28%	9.12%	9.57%	9.94%	9.59%	7.08%	7.87%	8.16%
S&P 500 Index	12.15%	9.69%	10.21%	10.62%	10.45%	7.61%	8.51%	8.84%
Combined	12.15%	9.12%	9.97%	10.28%	10.45%	7.08%	8.27%	8.50%

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 $^{^{23}}$ 8.93% = 1.62% x (1+7.24 x 0.5) + 7.24%

1	Q:	WHAT DO THE RESULTS OF YOUR CAPM ANALYSIS SHOW?
2	A:	These results show two important points. First, as I noted earlier, the 10.28%
3		combined average CAPM/Risk Premium is an extreme estimate of equity because
4		bond betas have been assumed to be zero in its calculation. This suggests that Mr.
5		Moul's 14.36% average CAPM cost of equity estimate is completely out of line
6		for the reasons set forth below.
7		Second, the 8.50% combined average CAPM cost rate shown in Table 4
8		above is in very close proximity to the 8.26% combined average DCF rate shown
9		at the very bottom of my Table 2.
10	Q:	WHAT ARE THE RESULTS OF YOUR YORK CAPM ANALYSIS?
11	A:	The CAPM result using the historical risk premium is 7.10% while the CAPM
12		result using the S&P 500 risk premium is 7.63%. Both results are at the lower end
13		of the corresponding proxy group CAPM range and fall in the Two-Stage DCF
14		range.
15	Q:	WHAT ARE THE RESULTS OF YOUR YORK CAPM/RISK PREMIUM
16		ANALYSIS?
17	A:	The CAPM/Risk Premium result using the historical risk premium 8.80% while
18		the CAPM/Risk Premium result using the S&P 500 risk premium is 9.33%. Both
19		results are lower than the low end of the respective proxy group range and fall in
20		the FERC 2-Step range.

- 1 Q: MR. MOUL'S CAPM ANALYSIS YIELDS NOTABLY HIGHER RESULTS.
- 2 DID YOU FIND SPECIFIC PROBLEMS WITH MR. MOUL'S CAPM
- 3 **ASSUMPTIONS AND INPUTS?**
- 4 A: Yes, I did. Mr. Moul's estimated 14.36% CAPM cost of equity is driven by
- 5 leverage and size adjustments he used in his CAPM analysis. Specifically, Mr.
- Moul's leverage adjustment increased the proxy group's average beta from 0.77 to
- 7 1.01. Multiplying the 0.24 beta difference by his 10.24% risk premium yields a
- 8 2.46% adder to the unadjusted proxy group 10.87% ²⁴ CAPM cost of equity. His
- 9 size adjustment added another 1.02% to his CAPM cost of equity.
- 10 Q: WHAT IS THE REVENUE IMPACT OF ADDING 2.46% TO THE COST
- 11 **OF COMMON EQITY IN THIS PROCEEDING?**
- 12 A: Mr. Garrett has informed me that the 2.46% adder would increase the water
- revenue requirement by \$6.727 million and the waste water revenue requirement
- by \$619 thousand.
- 15 Q: DID MR. GARRETT INFORM YOU WHAT THE 1.02% SIZE
- 16 ADJUSTMENT WOULD ADD TO THE REVENUE REQUIREMENT?
- 17 A: Yes, he did. This adjustment adds \$2.789 million the water revenue requirement
- and \$257 thousand to the waste water revenue requirement.

 $^{^{24}}$ 10.87% = 3.0% + 0.77 x 10.24%.

- 1 Q: MR. MOUL MADE WHAT HE CALLED LEVERAGE ADJUSTMENTS
- 2 TO HIS DCF AND CAPM COST ESTIMATES TO REFLECT THE
- 3 DIVERGENCE BETWEEN MARKET VALUE AND BOOK VALUE
- 4 CAPITAL STRUCTURES. HAS THIS DIVERGENCE LED YOU TO
- 5 MAKE ANY ADJUSTMENTS TO YOUR DCF AND CAPM COSTS?
- 6 A: No. Even if leverage adjustments may be relevant to studies of non-regulated
- 7 industries, they are not relevant to the regulated utility industry; their use in the
- 8 regulated utility industry results in double counting an existing risk.
- 9 Q: WHY DO YOU SAY THEIR USE RESULTS IN DOUBLE COUNTING AN
- 10 **EXISTING RISK?**
- 11 A: When we talk about the market value capital structure exceeding the book value
- capital structure, we are really talking about situations where the market price of a
- share of a utility's common stock exceeds the book value per share of common
- stock. This divergence is the result of expected earnings exceeding the cost of
- common equity. The equation below which is derived from the standard DCF
- demonstrates this relationship.

$$\frac{P}{B} = \frac{r - br}{k - br}$$

- In this equation, "r" is the expected earned return, "k" is the cost of
- common equity, and "br" is the growth rate. For the unregulated firm, "r" is
- related to its competitive position in the markets in which it operates. For the
- regulated firm, "r" is ultimately related to the prices established by the regulatory

authority. Sustained earned returns that exceed the cost of common equity can be reduced or eliminated at any time through regulatory action.

Thus, in the regulatory arena, any divergence between the market value capital structure and the book value capital structure is ultimately related to regulatory risk. That regulatory risk is already reflected in the price investors are willing to pay for the utility's common stock. Mr. Moul's proposed adjustments would result in investors being compensated twice for the same risk and therefore must be rejected.

9 Q: HAS THE COMMISSION REJECTED MR. MOUL'S LEVERAGE

ADJUSTMENT IN PRIOR CASES?

Yes. 25 In PPL's 2012 rate case, Mr. Moul proposed a substantially similar leverage 11 A. adjustment. The Commission found that "[f]or the reasons developed by the OCA 12 and I&E, the Company's leverage adjustment should be denied."²⁶ In Columbia's 13 14 2020 base rate case and PECO Gas's 2020 base rate case, the Commission allowed ROEs based upon dividend yield and growth inputs, without leverage 15 adjustments.²⁷ In Aqua PA's most recent base rate case, the Commission denied 16 Agua PA's request to include a leverage adjustment as contrary to the public 17 interest.²⁸ 18

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²⁵ Pa. PUC v. PPL Elec. Util. Corp., Docket No. R-2012-2290597, Order at 52 (Dec. 28, 2012).

²⁶ *Id.* at 52.

²⁷ Pa. PUC v. Columbia Gas of Pennsylvania, Inc., Docket No. R-2020-3018835, Order at 141 (Feb. 19, 2021)(Columbia 2020 Order); Pa. PUC v. PECO Energy Co. – Gas Div., Docket No. R-2020-3018929, Order at 160-161 (June 22, 2021) (PECO Gas 2020 Order).

²⁸ Pa. PUC v. Aqua Pennsylvania, Inc., et al., Docket Nos. R-2021-3027385, R-2021-3027386, Order at 166-167 (May 16, 2022)(Aqua 2021 Order).

1	Q:	MR. MOUL MADE A SIZE ADJUSTMENT IN HIS CAPM ANALYSIS; DO
2		YOU AGREE WITH THIS ADJUSTMENT?
3	A:	No, I do not. The 1.02% size adjustment shown on his Schedule 1, page 2 comes
4		from Schedule 13, page 3. The 1.02% size premium is associated with a size
5		group that has a beta of 1.12. All the firms in Mr. Moul's proxy group have Value
6		Line betas less than one as do the vast majority of utility companies. Thus, I do
7		not believe that the size premium scale applies to regulated utility companies.
8		Given their less than one betas, if any value in the size applies to them, it is the -
9		0.35% associated with the largest decile, the only group that has a beta less than
10		one.
11	Q:	WHAT FURTHER COMMENTS DO YOU HAVE ON MR. MOUL'S
12		LEVERAGE AND SIZE ADJUSTMENTS?
13	A:	I want to point out the impact of his leverage adjustment on his DCF equity cost
14		range and his leverage and size adjustments on his CAPM range. On page 32 of
15		Mr. Moul's testimony, he shows a 10.77% DCF cost rate. Without the leverage
16		adjustment, his DCF cost rate would be 9.31% (=1.81% + 7.50%).
17		On that same page, he shows a 14.36% CAPM cost rate. Without his
18		leverage and size adjustments, his CAPM cost rate would be 10.87%
19		(=3.00%+.769 x 10.24%). Without the leverage adjustment, Mr. Moul must rely
20		on his risk premium and comparable earnings analysis to justify his 11.00%
21		recommended cost of common equity. As noted below, neither of those two

methods provides information as to the market cost of common equity for a utility company.

3 Q: DOES MR. MOUL ALSO UTILIZE A RISK PREMIUM ANALYSIS?

4 A: Yes. Mr. Moul describes the Risk Premium approach as follows: "the cost of equity capital is determined by corporate bond yields plus a premium to account for the fact that common equity is exposed to greater investment risk than debt capital." The result of his Risk Premium analysis is 11.00%.²⁹

8 Q; WHAT COMMENTS DO YOU HAVE CONCERNING MR. MOUL'S RISK

PREMIUM METHOD?

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A:

I have reviewed Mr. Moul's risk premium method and have found that the risk premium he uses does not reflect the difference between government bond returns and the returns on utility common stock. Rather, his equity risk premium is based on the large corporate stocks returns shown on Schedule 12, page 1 of his Exhibit No. FYII. Hence, his presentation contains no credible information about the cost of common equity for a utility company because there is no company information in his analysis.

17 Q: DOES MR. MOUL ALSO PRESENT A COMPARABLE EARNINGS

ANALYSIS?

19 A: Yes. Mr. Moul describes the comparable earnings analysis as an estimate of "a fair rate of return on equity by comparing returns realized by non-regulated companies

²⁹ Moul, Statement 107, at 32.

to returns that a public utility with similar risk characters would need to realize in order to compete for capital." Mr. Moul calculates a Comparable Earnings result 2 3 of 12.15%.³¹

Q: WHAT COMMENTS DO YOU HAVE CONCERNING MR. MOUL'S

COMPARABLE EARNINGS ANALYSIS?

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A: Without saying it directly, Mr., Moul's comparable earnings analysis appears to be based on the comparable earnings language in *Bluefield* and *Hope*. As an economist, I believe the comparable earnings language in *Bluefield* and *Hope* is best met using market based common equity cost estimation methods such as the DCF model. In making their purchase decisions, knowledgeable investors compare the earnings potential of all the companies they consider purchasing and reflect any important differentials in the price they are willing to pay for the company's common stock. In other words, investors perform their own comparable earnings standard when they purchase a utility company's common stock. Mr. Moul's comparable earnings analysis provides no substantive information as to the proper cost of common equity to use in this proceeding. Nor, do the earned returns that Mr. Moul refers to provide any indication of what investors expect to earn on their investment in the utility company's common stock.

³⁰ Moul, Statement 107, at 40.

Moul, Statement 107, at 43, Sch. 1, page 2.

1	Q:	WHAT RETURN ON COMMON EQUITY ARE YOU RECOMMENDING
2		YORK WATER BE GIVEN AN OPPORTUNITY TO EARN?
3	A:	I am recommending York Water be given the opportunity to earn 7.94% on its
4		common equity. This recommendation is based on my DCF analysis of York
5		Water and is consistent with the results of my York Water CAPM analysis.
6	Q:	TURNING NOW TO YORK WATER'S CAPITAL STRUCTURE, WHAT
7		CAPITAL STRUCTURE ARE YOU RECOMMENDING FOR USE IN
8		THIS PROCEEEDING?
9	A:	I am recommending hypothetical capital consisting of 52.0% common equity and
10		48.0% long-term debt.
11	Q:	WHY ARE YOU PROPOSING A HYPOTHETICAL CAPITLAL
12		STRUCTURE?
13	A:	York Water's capital structure is quite fluid at this time. In April 2022 York
14		Water issued 1,121,940 common shares with net proceeds of \$43.97 million of
15		which \$29.32 million was used to pay down long-term debt. This resulted York
16		Water's long-term debt ratio falling from 49.0% on 12-31-2021 to 36.8% on 6-30-
17		2022. ³² Company also indicated it expects to issue additional long-term debt for its
18		future financing needs which will allow the debt percentage to "trend upward." 33
19		In this environment, Mr. Moul is proposing a 45.23% long-term debt ratio when
20		Company had long-term debt ratios of 46% in 2020 and 49% in 2021. ³⁴

York Water 2021 Annual Report to Shareholder, page 8.
 York Water 2021 Annual Report to Shareholder, page 8.
 York Water 2021 Annual Report to Shareholder, page 8.

1		There is no reason for customers to bear the burden of an equity heavy capital
2		structure while waiting for the debt ratio to trend upward. My recommended 48%
3		debt ratio lifts this burden. and is consistent with York Water's year-end long-term
4		debt ratios of 46% in 2020 and 49% in 2021.35
5	Q:	WHAT IS THE DOLLAR VALUE OF THE IMPACT OF YOUR
6		PROPOSED 48% DEBT RATIO?
7	A:	Mr. Garrett has indicated that my proposed 48% debt ratio lowers the water
8		revenue requirement by \$1,171,648 and the wastewater revenue requirement by
9		\$110,791.
10	Q:	WHAT LONG-TERM DEBT COST ARE YOUR PROPOSING IN THIS
11		PROCEEDING?
12	A:	I am accepting Mr. Moul's 3.91% long-term debt cost. As is shown in in Table 5
13		below, combining Mr. Moul's 3.91% long-term debt cost with my 7.94%
14		recommended allowed return on common equity yields a 6.01% overall rate of return.

³⁵ York Water 2021 Annual Report to Shareholder, page 8.

1	TABLE 5 OVERALL RATE OF RETURN					
2		Ratio	Cost Rate	Weighted Cost		
3	Common					
4	Equity	52.00%	7.94%	4.13%		
5	Long Term Debt	48.00%	3.91%	1.88%		
6	Total					
7		100.00%		6.01%		

A:

Q: AT PAGE SEVEN, LINES 2 THROUGH 4 OF HIS TESTIMONY, MR. MOUL OPINES THAT YORK WATER SHOULD BE GIVEN A 25 BASIS POINT ADDITION TO COST OF COMMON EQUITY IN "RECOGNITION OFNTHE EXEMPLARY PERFORMANCE OF THE COMPANY'S

MANAGEMENT."

For several reasons, no. First, "recognition" does not have a dollar value. In the regulatory process, customers are not required to pay for something whose value is unknown. Second, neither Mr. Moul nor any other Company witness has offered evidence as to what the value is. Third, regulated utilities are expected to operate efficiently and should not be given a reward for doing what is expected. Fourth, OCA witness Barbara Alexander has found customer service deficiencies such as declining call center performance and identification of disputes and complaints. Fifth, the allowed rate of return should reflect the cost of common equity only.

1	Q:	IS IT APPROPRIATE TO INCLUDE A MANAGEMENT PERFORMANCE	
2		BONUS IN YOUR 7.94% COMMON EQUITY COST?	
3	A:	No. Mr. Moul inappropriately adds a premium to his cost of equity estimate for	
4		management performance, which further inflates a figure that is already	
5		overestimated for the reasons I set forth below. Such a premium is completely	
6		unrelated to York Water's cost of equity estimate.	
7	Q:	HAVE YOU QUANTIFIED THE FINANCIAL IMPACT TO	
8		RATEPAYERS THAT MR. MOUL'S PERFORMANCE PREMIUM	
9		WOULD HAVE?	
10	A:	Yes. As addressed in the Direct Testimony of Mark Garrett (OCA Statement 1), an	
11		increase of 0.25% to the ROE for Mr. Moul's management performance premium	
12		would increase the water and wastewater revenue requirements by \$746,560.	
13	Q:	PLEASE DESCRIBE YOUR OVERALL COST OF CAPITAL	
14		RECOMMENDATION TO THE COMMISSION.	
15	A:	I recommend the Commission reject the Company's proposed ROE and capital	
16		structure. Instead, the Commission should award York Water with a 7.94% cost of	
17		common equity. The Commission should also impute a ratemaking capital	
18		structure consisting of 52.0% common equity and 48.0% long-term debt. The	
19		Commission should reject the Company's request for a 25-basis point	
20		management performance bonus. My overall weighted average awarded return	
21		recommendation is 6.01%.	

1 Q: DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

- 2 A: Yes. I reserve the right to supplement this testimony should additional
- 3 information become available.

DAVID S. HABR

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SUMMARY

Ph.D. economist with over thirty five years of applied economic and financial experience in utility regulation. Has special expertise in rate of return, mergers, and asset transactions. Was instrumental in determining the methodology used in class cost of service and rate design. Solid technical background with testimony that is very clear and defendable under cross examination. Recognized by the Governor of Iowa for his knowledge and understanding of public utilities' operations and his fair and balanced judgment.

PROFESSIONAL EXPERIENCE

Habr Economics January 2009 – Preser
Habr Economics established in January 2009 after a successful career in public utility regulation. The firm specializes in rate of return, mergers, asset transactions, and general policy issues.
Consumer Advocate Division, Iowa Department of Justice
Chief, Technical Bureau

- Testified as an expert witness in over 45 cases on the cost of common equity, the overall cost of
 capital, and other economic and financial matters including utility mergers, asset acquisitions, and
 competitive market analysis. Testimony successfully defended under strenuous cross
 examination.
- Initiated studies on electric restructuring which demonstrated that electric deregulation could cost Iowa customers a minimum of \$200 million per year. These un-refuted results helped the efforts which lead to restructuring being rejected in Iowa.
- Achieved consensus in settlement negotiations, represented the Office in public forums, Public Consumer Advocate Sector representative on Midwest Independent System Operator Advisory Committee, drafted legislation, and prepared and managed the OCA's \$3 million annual budget.
- Identified and hired the professional staff needed to expand from a six to a 17 person technical staff in 1989. Staff educational level ranges from B.A.'s to Ph.D.'s. At December 31, 2008 staff's average time with the Office was 19 years.

- Testified as an expert witness on the cost of common equity, the overall cost of capital, and other economic or financial matters.
- Integrated the use of bond betas to develop a "risk premium" method of estimating common equity cost rates based on the Capital Asset Pricing Model.

Utilities Division, Iowa Department of Commerce September 1981 – November 1987 Utility Specialist September 1981 – November 1987

- Determined cost of common equity and overall cost of capital for various utility companies. Presented the analysis as written testimony and was subject to cross-examination on the testimony.
- Completed article integrating brokerage fees and flotation cost in the discounted cash flow model which was accepted for publication in the January 1988 issue of the National Regulatory Research Institute Quarterly Bulletin. Presented a paper on the use of double leverage in determining the cost of capital for utility subsidiaries of a holding company to the Economics and Finance Subcommittee at the 1987 Winter Meeting of the National Association of Regulatory Utility Commissioners.
- Refined and improved the accuracy of the computer program used to calculate the weighted cost of capital for rate case presentation.

Private Consulting Practice September 1980 – September 1981

- Estimated damages in two antitrust cases; helped develop a brief in a third antitrust case.
- Testified on a telephone rate design issue before the Iowa State Commerce Commission and on alternative benefit payment methods before the Iowa Industrial Commission.

Mitchell & Mitchell Economists, Ltd. October 1979 – August 1980

 Organized and developed the economics group. Secured and completed contract with Northwestern Bell to develop a revenue forecasting model. Secured and completed contract with City of Des Moines to conduct a feasibility study for the Neighborhood Business Revitalization Program.

- Taught graduate and undergraduate courses in the economics program. Courses included Managerial Economics (M.B.A. Program), Government Regulation of Business, Public Utilities, and Transportation.
- Served on University Business Affairs Committee for four years; committee chair 1978-79. Faculty advisor, local chapter of Omicron Delta Epsilon (economics honor society) 1973-79.

EDUCATION

Ph.D. (Economics)				
Dissertation:	"The Returns to Advertising: An Analysis of the Relationship Between Advertising and Liquor Sales in the State of Washington"			
M.A. (Economics)				
B.A. (Economics)				

PROFESSIONAL ACTIVITIES

Activities and Memberships: Developed and taught an antitrust economics class at the Drake Law School Fall 1981 and taught the macroeconomics class in the Drake M.B.A. program Spring and Fall 1987. Member of the National Association of State Utility Consumer Advocates' Economics and Finance Committee 1990 – 2008 and the NARUC Ad Hoc Committee on Diversification (1986 – 1987).

Regulatory Proceedings in Which Dr. Habr Has Filed Testimony

- 1. Northwestern Bell Telephone Company (Iowa State Commerce Commission Docket No. RPU-81-40, Direct January 1982), Cost of equity issues.
- 2. Northwestern Bell Telephone Company (Iowa State Commerce Commission Docket No. RPU-82-49, Direct March 1983), Rate of Return.
- 3. MCI Telecommunications Corporation (Iowa State Commerce Commission Docket No. RPU-84-2, Direct 1984), Competitiveness of Long Distance Markets.
- 4. Northwestern Bell Telephone Company (Iowa State Commerce Commission Docket No. RPU-84-7, Direct June 1984), Rate of Return.
- 5. INVESTIGATION INTO COMPETITION IN COMMUNICATIONS SERVICES AND FACILITIES (Iowa State Commerce Commission Docket No. INU-84-6, October 1984), Workable Competition and Cost Allocation.
- 6. Peoples Natural Gas Company (Iowa State Commerce Commission Docket No. RPU-84-42, Direct December 1984), Capital Structure.
- 7. Union Electric Company (Iowa State Commerce Commission Docket No. RPU-85-9, Direct August 1985), Flotation Costs.
- 8. Iowa Public Service Company -- Gas (Iowa State Commerce Commission Docket No. RPU-85-14, Direct September 1985), Rate of Return.
- 9. INVESTIGATION INTO COMPETITION IN MTS, WATS, AND PL SERVICES (Iowa State Commerce Commission Docket No. INU-83-3, October 1985), Workable Competition.
- 10. Iowa Electric Light and Power Company Gas (Iowa State Commerce Commission Docket No. RPU-85-31, Direct February 1986), Rate of Return.
- 11. Iowa Electric Light and Power Company Electric (Iowa Utilities Board Docket No. RPU-86-7, Direct July 1986), Capital Structure.
- 12. Peoples Natural Gas Company, A Division of Utilicorp United, Inc. (Iowa Utilities Board Docket No. RPU-86-11, Direct September 1986), Rate of Return.
- 13. Great River Gas Company (Iowa Utilities Board Docket No. RPU-86-12, Direct September 1986), Rate of Return.
- 14. Iowa Power and Light Company Electric (Iowa Utilities Board Docket No. RPU-87-2, Direct, June 1987, Rebuttal, October 1987), Capital Structure.

- 15. Iowa Public Service Company Gas (Iowa Utilities Board Docket No. RPU-87-3, Direct December 1987), Rate of Return.
- 16. Iowa Public Service Company Electric (Iowa Utilities Board Docket No. RPU-87-6, Direct April 1988, Rebuttal August 1988), Rate of Return, Weather Normalization.
- 17. Iowa Southern Utilities Company and Ottumwa Water Works (Iowa Utilities Board Docket No. AEP-88-1, Direct May 1989, Rebuttal May 1989), Capacity and Energy Rates for a Small Hydro.
- 18. DEREGULATION OF INTERLATA INTEREXCHANGE MESSAGE TELECOMMUNICATIONS SERVICES (MTS), WIDE AREA TRELECOMMUNICATIONS SERVICE (WATS), CHANNEL SERVICE (PRIVATE LINE), AND CUSTOM NETWORK SERVICE (Iowa Utilities Board Docket No. INU-88-2, September 1988), Strength of Competitive Market Forces.
- 19. Iowa Southern Utilities Company (Iowa Utilities Board Docket No. RPU-89-7, Direct February 1990, Rebuttal April 1990), Rate of Return.
- 20. Iowa Electric Light and Power Company Electric (Iowa Utilities Board Docket No. RPU-89-9, Direct April 1990, Rebuttal May 1990), Cost of Common equity, Double Leverage.
- 21. Iowa Resources, Inc. and Midwest Energy Company (Iowa Utilities Board Docket No. SPU-90-5, Direct June 1990, Rebuttal June 1990), Utility Holding Company Merger.
- 22. Iowa Electric Light and Power Company Gas (Iowa Utilities Board Docket No. RPU-90-7, November 1990), Cost of Common Equity, Double Leverage.
- 23. Iowa Southern Utilities Company Electric (Iowa Utilities Board Docket No. RPU-90-8, Direct August 1990, Rebuttal January 1991), Rate of Return.
- 24. Rochester Telephone Co. et al (Iowa Utilities Board Docket No. SPU-91-3, Direct June 1991, Rebuttal June 1991), Merger Analysis.
- 25. Midwest Gas, a Division of Iowa Public Service Company (Iowa Utilities Board Docket No. RPU-91-5, Direct October 1995, Rebuttal of Intervenor November 1991, Rebuttal December 1991), Cost of Common Equity, Acquisition Adjustment.
- 26. Iowa Public Service Company Electric (Iowa Utilities Board Docket No. RPU-91-6, Direct August 1991, Rebuttal January 1992), Cost of Common Equity.
- 27. Iowa Southern Utilities Company Electric (Iowa Utilities Board Docket No. RPU-91-8, Direct September 1991, Rebuttal February 1992, Additional Rebuttal April 1992), Cost of Common Equity.

- 28. Iowa Electric Light and Power Company Electric (Iowa Utilities Board Docket No. RPU-91-9, Direct January 1992, Rebuttal of Intervenor February 1992, Rebuttal March 1992), Cost of Common Equity.
- 29. Iowa Electric Light and Power Company and Union Electric Company (Iowa Utilities Board Docket No. SPU-92-7, Direct April 1992), Asset Purchase Analysis.
- 30. Iowa Power, Inc. Electric (Iowa Utilities Board Docket No. RPU-92-2, Direct June 1992, Direct June 1992, Rebuttal of Intervenor July 1992), Cost of Common Equity.
- 31. Peoples Natural Gas Company, A Division of UtiliCorp United, Inc. (Iowa Utilities Board Docket No. RPU-92-6, Direct August 1992), Cost of Common Equity.
- 32. Iowa Southern Utilities Company Gas (Iowa Utilities Board Docket No. RPU-92-8, Direct October 1992), Cost of Common Equity.
- 33. Iowa Electric Light and Power Company Gas (Iowa Utilities Board Docket No. RPU-92-9, Direct October 1992, Rebuttal of Intervenor November 1992), Cost of Common Equity.
- 34. ENERGY POLICY ACT OF 1992 (Iowa Utilities Board Docket No. INU-93-1, Rebuttal July 1993, Surrebuttal, July 1993), Purchase Power and the Cost of Capital, Financial Leverage Used by EWGs.
- 35. Interstate Power Company (Iowa Utilities Board Docket No. ECR-93-1, Direct September 1993, Rebuttal October 1993), Rate of Return for Unrecovered Energy Efficiency Expenditures, Cost of Capital for Avoided Cost Calculations.
- 36. Midwest Power Systems (Iowa Utilities Board Docket No. ECT-93-2, Direct November 1993, Rebuttal January 1994), Rate of Return for Unrecovered Energy Efficiency Expenditures, Appropriate Method for Determining the Annualized Recovery of the Expenditures.
- 37. Interstate Power Company Electric (Iowa Utilities Board Docket No. RPU-93-6, Direct November 1993, Rebuttal January 1994), Cost of Common Equity.
- 38. U S West Communications, Inc. (Iowa Utilities Board Docket No. RPU-93-9, Direct August 1993, Rebuttal February 1994), Rate of Return.
- 39. IES Utilities, Inc. Electric and Gas (Iowa Utilities Board Docket No. ECR-94-2, Direct October 1994), Rate of Return to Apply to Deferred Unamortized Energy Efficiency Balances.

- 40. IES Utilities, Inc. Electric (Iowa Utilities Board Docket No. RPU-94-2, Direct October 1994, Rebuttal of Intervenor, November 1994, Rebuttal December 1994, Rebuttal Related to Duane Arnold Depreciation, January 1995, Supplemental January 1995), Cost of Common Equity, Acquisition Adjustment, Economic Depreciation for Duane Arnold, Decommissioning Expenditures for Duane Arnold.
- 41. Midwest Gas (Iowa Utilities Board Docket No. RPU-94-3, Direct November 1994, Rebuttal of Intervenor, December 1994, Rebuttal January 1995), Cost of Common Equity.
- 42. Midwest Power (Iowa Utilities Board Docket No. RPU-94-4, Direct January 1995, Rebuttal of Intervenor January 1995, Rebuttal March 1995), Cost of Common Equity.
- 43. Iowa-Illinois Gas & Electric –Gas (Iowa Utilities Board Docket No. TF-94-640, Direct February 1995), Proper Policy for Rates That are Less Than Full Cost.
- 44. MidAmerican Energy Company (Iowa Utilities Board Docket No. P-831, Direct July 1995), Cost/Benefit Analysis of Proposed Pipeline.
- 45. Midwest Wind Developers v. Iowa Electric Light and Power Company et al; and Windustries, Inc. v. Iowa Electric Light and Power Company et. al (Iowa Utilities Board Docket No. AEP-95-1 thru 4, Direct September 1995, Rebuttal December 1995), Develop Appropriate kW and kWh rates.
- 46. Windustries, Inc. v. MidAmerican Energy Company (Iowa Utilities Board Docket No. AEP-95-5, Direct November 1995, Rebuttal December 1995), Develop Appropriate kW and kWh rates.
- 47. McLeod Telemanagement v. U S WEST Communications, Inc. (Iowa Utilities Board Docket No. FCU-96-1/FCU-96-3, Direct April 1996), Competitive Impact of Not Offering Centrex Plus to New Customers.
- 48. MidAmerican Energy Company Electric (Iowa Utilities Board Docket No. RPU-96-8, Direct August 1996, Rebuttal November 1996), Cost of Common Equity.
- 49. Lost Nation-Elwood Telephone Company (Iowa Utilities Board Docket No. TCU-96-9, Direct August 1996), Facilities Based Competition.
- 50. GTE Midwest Incorporated (Iowa Utilities Board Docket No. RPU-96-6, Direct September 1996), Proper Cost Recovery for intraLATA Equal Access.
- 51. MidAmerican Energy Company (Iowa Utilities Board Docket No. APP-96-1, Direct September 1996, Rebuttal November 1996), Causes of High Payout Ratio and Stranded Costs.

David S. Habr, Page 8

- 52. South Slope Cooperative Telephone Company (Iowa Utilities Board Docket No. TCU-96-12, Direct September 1996), Facilities Based Competition.
- 53. IES Utilities (Iowa Utilities Board Docket No. ECR-96-3, Direct February 1997), Pretax Return for Levelized Recovery of Deferred Energy Efficiency Expenditures.
- 54. U S WEST Communications, Inc. (Iowa Utilities Board Docket No. RPU-96-9, Direct April 1997, Rebuttal July 1997), Rate of Return.
- 55. MidAmerican Energy Company Electric (Iowa Utilities Board Docket No. TF-97-229, Direct October 1997), Can Other Utility Companies be Forced to Join a Pilot Project.
- 56. CalEnergy Company and MidAmerican Energy Holdings Company (Iowa Utilities Board Docket No. SPU-98-8, Direct November 1998, Rebuttal December 1998), Merger Analysis.
- 57. MidAmerican Energy Holdings Company, MidAmerican Energy Company, Teton Formation L.L.C., and Teton Acquisition Corporation (Iowa Utilities Board Docket No. SPU-99-32, Direct January 2000), Merger Analysis.
- 58. Qwest Corporation (Iowa Utilities Board Docket No. TF-00-250, Direct February 2001), Price Plan Review.
- 59. MidAmerican Energy Company Electric (Iowa Utilities Board Docket No. RPU-01-9, Direct February 2002), Implicit Excess Return on Common Equity.
- 60. Interstate Power Company Electric (Iowa Utilities Board Docket No. RPU-02-3, Direct July 2002, Rebuttal of Intervenor August 2002, Rebuttal November 2002), Cost of Common Equity, Duane Arnold Decommissioning Cost, Nature and Purpose of Test Year.
- 61. Iowa Telecommunications Services, Inc. d/b/a Iowa Telecom (Iowa Utilities Board Docket No. RPU-02-4, Direct August 2002), Appropriateness of Using Forward Looking Cost Models to Establish Retail Rates.
- 62. Aquila, Inc. d/b/a Aquila Networks (Iowa Utilities Board Docket No. RPU-02-5, Direct September 2002, Rebuttal November 2002), Cost of Common Equity.
- 63. Interstate Power and Light Company Gas (Iowa Utilities Board Docket No. RPU-02-7, Direct October 2002, Rebuttal of Intervenor November 2002, Rebuttal January 2003), Cost of Common Equity.
- 64. MidAmerican Energy Company Electric (Iowa Utilities Board Docket No. RPU-02-10, Direct March 2003), Cost of Common Equity Issues.

David S. Habr, Page 9

- 65. Iowa Telecommunications Services, Inc. d/b/a Iowa Telecom (Iowa Utilities Board Docket No. SPU-04-10, Direct May 2006), Analysis of Proposed Initial Public Offering.
- 66. Qwest Communications Corporation (Iowa Utilities Board Docket No. TCU-03-13, Rebuttal August 2004), Appropriateness of a Telecommunications Company Competing with an Affiliate.
- 67. Interstate Power and Light Company and FPL Energy Duane Arnold, LLC (Iowa Utilities Board Docket No. SPU-05-15, Direct September 2005, Rebuttal October 2005), Analysis of Proposed Sale of Nuclear Power Plant.
- 68. Interstate Power and Light Company and ITC Midwest, LLC (Iowa Utilities Board Docket No. SPU-07-11, Direct June 2007, Rebuttal July 2007), Analysis of Proposed Sale of Electric Transmission System.
- 69. Interstate Power and Light Company (Iowa Utilities Board Docket No. RPU-08-1, Rebuttal October 2008, Additional Supplemental October 2008), Energy Forecast Analysis.
- 70. Interstate Power and Light Company (Iowa Utilities Board Docket No. RPU-2009-0002, Direct July 2009, Rebuttal September 2009), Impact of Strategic Decisions on Efficiency of Utility Operations.
- 71. Bangor Hydro Electric Company, Maine Public Service Company, et. al (Maine Public Utilities Commission Docket No. 2010-89, Direct June 2010, Surrebuttal August 2010), Analysis of the Impact of Proposed Merger on Retail Customers.
- 72. FirstEnergy Corporation and Allegheny Energy, Inc. (Maryland Public Service Commission Case No. 9233, Direct October 2010, Surrebuttal November 2010), Analysis of the Impact of Proposed Merger on Retail Customers.
- 73. Bangor Gas Company and Maine Public Service Company (Maine Public Utilities Commission Docket No. 2013-00443, Direct March 2014), Rate of Return.
- 74. Columbia Gas Maryland, Inc. (Maryland Public Service Commission Case No. 9417, Direct June 2016, Rebuttal and Surrebuttal July 2016), Rate of Return.
- 75. Philadelphia Gas Works (Pennsylvania Public Utility Commission Docket No. R-2017-2586783, Direct May 2017, Surrebuttal June 2017), Proper Margin for a Municipal Gas Utility.
- 76. The Gas Company, LLC d/b/a Hawai`i Gas (Hawaii Public Utilities Commission Docket No. 2017-0150), Direct March 2018, Rate of Return.

David S. Habr, Page 10

- 77. Duquesne Light Company (Pennsylvania Public Utility Commission Docket No. R-2018-3000124), Direct June 2018, Surrebuttal July 2018, Rate of Return.
- 78. PECO Energy Company (Pennsylvania Public Utility Commission Docket No. R-2018-3000164), Direct June 2018, Surrebuttal July 2018, Rate of Return.
- 79. PJM Interconnection, L.L.C. & PECO Energy Company (Federal Energy Regulatory Commission Docket No. ER17-1519-001), Direct & Answering August 2018, Return on Equity.
- 80. Hawai'i Electric Light Company (Hawaii Public Utilities Commission Docket No. 2019-0368), Direct July 2019, Rate of Return.
- 81. Citizens' Electric Company, Wellsboro Electric Company, and Valley Energy Company (Pennsylvania Public Utility Commission Docket Nos. R-2019-3008212, R-2019-3008208, and R-2019-3008209 respectively), Direct October 2019, Surrebuttal December 2019, Rate of Return.
- 82. Philadelphia Gas Works (Pennsylvania Public Utility Commission Docket No. R-2020-30172060), Direct June 2020, Surrebuttal July 2020, Proper Margin for a Municipal Gas Utility.
- 83. Pittsburg Water and Sewer Authority (Pennsylvania Public Utility Commission Docket Nos. R-2020-3017951 and R-2020-3017970), Direct July 2020, Surrebuttal September 2020, Proper Margin for a Municipal Water and Waste Water Utility.
- 84. Bangor Natural Gas Company (Maine Public Utilities Commission, Docket No. 2021-00024) Direct June 2021, Surrebuttal October 2021, Rate of Return.
- 85. Pittsburg Water and Sewer Authority (Pennsylvania Public Utility Commission Docket Nos. R-2021-3024773, R-2021-3024774, and R-2021-3024779), Direct July 2021, Surrebuttal August 2021, Proper Margin for a Municipal Water and Waste Water Utility.

PROXY GROUP DCF -- YAHOO GROWTH FORECASTS

						Adjusted	l Yahoo	
					Dividend	Dividend	l (IBES)	DCF Cost
Number	Company	SYM	Price	Dividend	Yield	Yield	Growth	Rate
1	American States Water	AWR	78.65	1.46	1.86%	1.90%	4.40%	6.30%
2	American Water Works Co.	AWK	146.97	2.62	1.78%	1.86%	8.30%	10.16%
3	Artesian Resources Corp.	ARTNA	47.57	1.09	2.29%	2.34%	4.00%	6.34%
4	California Water Service Group	CWT	53.32	1.00	1.88%	1.99%	11.70%	13.69%
5	Essential Utilities, Inc.	WTRG	45.31	1.07	2.37%	2.45%	6.80%	9.25%
6	Middlesex Water Company	MSEX	86.59	1.16	1.34%	1.36%	2.70%	4.06%
7	SJW Corporation	SJW	60.81	1.44	2.37%	2.48%	9.80%	12.28%
	IBES Average Growth	6.81%					Maximum: Median: Mean: Minimum:	13.69% 9.70% 9.67% 6.30%
	York Water Company	YORW	40.07	0.78	1.95%	1.99%	4.90%	6.89%

PROXY GROUP DCF -- ZACKS GROWTH FORECASTS

						Adjusted		
					Dividend	Dividend	Zacks	DCF Cost
Number	Company	SYM	Price	Dividend	Yield	Yield	Growth	Rate
1	American States Water	AWR	78.65	1.46	1.86%		N.A,	
2	American Water Works Co.	AWK	146.97	2.62	1.78%	1.85%	8.08%	9.93%
3	Artesian Resources Corp.	ARTNA	47.57	1.09	2.29%		N.A.	
4	California Water Service Group	CWT	53.32	1.00	1.88%		N.A.	
5	Essential Utilities, Inc.	WTRG	45.31	1.07	2.37%	2.44%	6.14%	8.58%
6	Middlesex Water Company	MSEX	86.59	1.16	1.34%		N.A.	
7	SJW Corporation	SJW	60.81	1.44	2.37%		N.A.	

Zacks Average Growth 7.11% Maximum: 9.93%

Median: 9.26% Mean: 9.26%

Minimum: 8.58%

PROXY GROUP DCF -- VALUE LINE GROWTH FORECASTS

Number	Company	SYM	Price	Dividend	Dividend Yield	Adjusted Dividend Yield	<i>Value</i> <i>Line</i> Growth	DCF Cost Rate
1	American States Water	AWR	78.65	1.46	1.86%	1.91%	5.50%	7.41%
2	American Water Works Co.	AWK	146.97	2.62	1.78%	1.81%	3.00%	4. 81%
3	Artesian Resources Corp.	ARTNA	47.57	1.09	2.29%		N.A.	
4	California Water Service Group	CWT	53.32	1.00	1.88%	1.94%	6.50%	8.44%
5	Essential Utilities, Inc.	WTRG	45.31	1.07	2.37%	2.49%	10.00%	12.49%
6	Middlesex Water Company	MSEX	86.59	1.16	1.34%	1.37%	4.50%	5.87%
7	SJW Corporation	SJW	60.81	1.44	2.37%	2.53%	14.00%	16.53%
	VL Average Growth	7.25%					Maximum: Median: Mean: Minimum:	12.49% 7.92% 8.55% 5.87%
	York Water Company	YORW	40.07	0.78	1.95%	1.99%	5.00%	6.99%

PROXY GROUP FERC 2-STEP DCF CALCULATION -- YAHOO GROWTH

Adjusted

1.99%

4.90%

5.07%

4.93%

6.93%

Yahoo Long-term

					Dividend	Dividend	(IBES)	GDP	Combined	DCF Cost
Number	Company	SYM	Price	Dividend	Yield	Yield	Growth	Growth	Growth	Rate
1	American States Water	AWR	78.65	1.46	1.86%	1.90%	4.40%	5.07%	4.53%	6.43%
2	American Water Works Co.	AWK	146.97	2.62	1.78%	1.86%	8.30%	5.07%	7.65%	9.51%
3	Artesian Resources Corp.	ARTNA	47.57	1.09	2.29%	2.34%	4.00%	5.07%	4.21%	6.55%
4	California Water Service Group	CWT	53.32	1.00	1.88%	1.99%	11.70%	5.07%	10.37%	12.36%
5	Essential Utilities, Inc.	WTRG	45.31	1.07	2.37%	2.45%	6.80%	5.07%	6.45%	8.90%
6	Middlesex Water Company	MSEX	86.59	1.16	1.34%	1.36%	2.70%	5.07%	3.17%	4 .53%
7	SJW Corporation	SJW	60.81	1.44	2.37%	2.48%	9.80%	5.07%	8.85%	11.34%
									Maximum:	12.36%
									Median:	8.90%
									Mean:	8.52%
									Minimum:	6.43%

0.78

1.95%

YORW

40.07

York Water Company

PROXY GROUP FERC 2-STEP DCF CALCULATION -- ZACKS GROWTH

						Adjusted		Long-term		
					Dividend	Dividend	Zacks	GDP	Combined	DCF Cost
Number	Company	SYM	Price	Dividend	Yield	Yield	Growth	Growth	Growth	Rate
1	American States Water	AWR	78.65	1.46	1.86%		N.A,	5.07%		
2	American Water Works Co.	AWK	146.97	2.62	1.78%	1.85%	8.08%	5.07%	7.48%	9.33%
3	Artesian Resources Corp.	ARTNA	47.57	1.09	2.29%		N.A.	5.07%		
4	California Water Service Group	CWT	53.32	1.00	1.88%		N.A.	5.07%		
5	Essential Utilities, Inc.	WTRG	45.31	1.07	2.37%	2.44%	6.14%	5.07%	5.93%	8.37%
6	Middlesex Water Company	MSEX	86.59	1.16	1.34%		N.A.	5.07%		
7	SJW Corporation	SJW	60.81	1.44	2.37%		N.A.	5.07%		

Maximum: 9.33% Median: 8.85%

Mean: 8.85%

Minimum: 8.37%

PROXY GROUP FERC 2-STEP DCF CALCULATION -- VALUE LINE GROWTH

						Adjusted	Value	Long-term		
					Dividend	Dividend	Line	GDP	Combined	DCF Cost
Number	Company	SYM	Price	Dividend	Yield	Yield	Growth	Growth	Growth	Rate
1	American States Water	AWR	78.65	1.46	1.86%	1.91%	5.50%	5.07%	5.41%	7.32%
2	American Water Works Co.	AWK	146.97	2.62	1.78%	1.81%	3.00%	5.07%	3.41%	5.22%
3	Artesian Resources Corp.	ARTNA	47.57	1.09	2.29%		N.A.	5.07%		
4	California Water Service Group	CWT	53.32	1.00	1.88%	1.94%	6.50%	5.07%	6.21%	8.15%
5	Essential Utilities, Inc.	WTRG	45.31	1.07	2.37%	2.49%	10.00%	5.07%	9.01%	11.50%
6	Middlesex Water Company	MSEX	86.59	1.16	1.34%	1.37%	4.50%	5.07%	4.61%	5.98%
7	SJW Corporation	SJW	60.81	1.44	2.37%	2.53%	14.00%	5.07%	12.21%	14.75%

Maximum: 14.75%
Median: 7.74%
Mean: 8.82%
Minimum: 5.22%

York Water Company YORW 40.07 0.78 1.95% 1.99% 5.00% 5.07% 5.01% 7.01%

PROXY GROUP DCF COST BASED ON TWO STAGE DCF WEIGHTED AVERAGE OF YAHOO! EARNINGS

										Weighted	Weighted	Adjusted	
						Continuou	S			Average	Average	Dividend	
						Yahoo!	Continuous	Years in	Continous	Continuous	Annual	Yield	Discrete
			Calculated	Annualized	Dividend	Growth	g-GDP Growth	Stage One	Two-Stage	Growth	Compound	(4)x((1+.0	DCF Cost
		Price	Price	Dividend	Yield	1	g-2	"a"	DCF "k"	(8) - (4)	Growth	5)x(10))	(10) + (11)
No.	Company	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1	American States Water	\$78.65	\$78.65	\$1.46	1.86%	4.31%	4.94%	20	6.76%	4.91%	5.03%	1.90%	6.93%
2	American Water Works Co.	\$146.97	\$146.97	\$2.62	1.78%	7.97%	4.94%	20	6.93%	5.14%	5.28%	1.83%	7.11%
3	Artesian Resources Corp.	\$47.57	\$47.57	\$1.09	2.29%	3.92%	4.94%	20	7.16%	4.87%	4.99%	2.35%	7.34%
4	California Water Service Group	\$53.32	\$53.32	\$1.00	1.88%	11.06%	4.94%	20	7.46%	5.58%	5.74%	1.93%	7.67%
5	Essential Utilities, Inc.	\$45.31	\$45.31	\$1.07	2.37%	6.58%	4.94%	20	7.46%	5.10%	5.23%	2.43%	7.66%
6	Middlesex Water Company	\$86.59	\$86.59	\$1.16	1.34%	2.66%	4.94%	20	6.22%	4.88%	5.00%	1.37%	6.38%
7	SJW Corporation	\$60.81	\$60.81	\$1.44	2.37%	9.35%	4.94%	20	7.87%	5.51%	5.66%	2.43%	8.09%

York Water Company

\$40.07

\$40.07

\$0.78

1.95%

4.78%

4.94%

20

6.88%

4.93%

Maximum: 8.09%
Median: 7.34%
Mean: 7.31%
Minimum: 6.38%

5.05% 1.99% 7.05%

PROXY GROUP DCF COST BASED ON TWO STAGE DCF WEIGHTED AVERAGE OF ZACKS EARNINGS

										Weighted Average	Weighted Average	Adjusted Dividend	
						Continuous	Continuous	Years in	Continous	Continuous	Annual	Yield	Discrete
			Calculated	Annualized	Dividend	Zacks Growth	GDP Growth	Stage One	Two-Stage	Growth	Compound	(4)x((1+.0	DCF Cost
		Price	Price	Dividend	Yield	g-1	g-2	"a"	DCF "k"	(8) - (4)	Growth	5)x(10))	(10) + (11)
No.	Company	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1	American States Water	\$78.65	#VALUE!	\$1.46	1.86%	N.A.	4.94%	20	7.18%	5.32%	5.47%	1.91%	
2	American Water Works Co.	\$146.97	\$146.97	\$2.62	1.78%	7.77%	4.94%	20	6.91%	5.13%	5.26%	1.83%	7.09%
3	Artesian Resources Corp.	\$47.57	#VALUE!	\$1.09	2.29%	N.A.	4.94%	20	8.07%	5.77%	5.94%	2.36%	
4	California Water Service Group	\$53.32	#VALUE!	\$1.00	1.88%	N.A.	4.94%	20	8.14%	6.26%	6.47%	1.94%	
5	Essential Utilities, Inc.	\$45.31	\$45.31	\$1.07	2.37%	5.96%	4.94%	20	7.40%	5.03%	5.16%	2.43%	7.59%
6	Middlesex Water Company	\$86.59	#VALUE!	\$1.16	1.34%	N.A.	4.94%	20	6.37%	5.03%	5.16%	1.37%	
7	SJW Corporation	\$60.81	#VALUE!	\$1.44	2.37%	N.A.	4.94%	20	8.59%	6.23%	6.42%	2.44%	

Maximum: 7.59%
Median: 7.34%
Mean: 7.34%
Minimum: 7.09%

PROXY GROUP DCF COST BASED ON TWO STAGE DCF WEIGHTED AVERAGE OF VALUE LINE

		Price	Calculated Price	Annualized Dividend	Dividend Yield	1	Continuous g-GDP Growth g-2	Stage One "a"	DCF "k"	Weighted Average Continuous Growth (8) - (4)	Weighted Average Annual Compound Growth	5)x(10))	(10) + (11)
No.	Company	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1	American States Water	\$78.65	\$78.65	\$1.46	1.86%	5.35%	4.94%	20	6.82%	4.96%	5.09%	1.90%	6.99%
2	American Water Works Co.	\$146.97	\$146.97	\$2.62	1.78%	2.96%	4.94%	20	6.64%	4.86%	4.97%	1.83%	6.80%
3	Artesian Resources Corp.	\$47.57		\$1.09	2.29%	N.A.	4.94%	20	7.53%	5.23%	5.37%	2.36%	
4	California Water Service Group	\$53.32	\$53.32	\$1.00	1.88%	6.30%	4.94%	20	6.90%	5.02%	5.15%	1.92%	7.08%
5	Essential Utilities, Inc.	\$45.31	\$45.31	\$1.07	2.37%	9.53%	4.94%	20	7.91%	5.54%	5.70%	2.43%	8.13%
6	Middlesex Water Company	\$86.59	\$86.59	\$1.16	1.34%	4.40%	4.94%	20	6.26%	4.92%	5.05%	1.37%	6.42%
7	SJW Corporation	\$60.81	\$60.81	\$1.44	2.37%	13.10%	4.94%	20	8.97%	6.60%	6.82%	2.45%	9.27%
												Maximum: Median: Mean: Minimum:	9.27% 7.03% 7.45% 6.42%
	York Water Company	\$40.07	\$40.07	\$0.78	1.95%	4.88%	4.94%	20	6.88%	4.94%	5.06%	1.99%	7.06%

<u>Year</u>	Common Stock Total Return Index For Year Ended	Discrete Common Stock <u>Annual Return</u>	Continuous Common Stock <u>Annual Return</u>	T-Bill Total Return Index For Year Ended	Discrete T-Bill <u>Annual Return</u>	Continuous T-Bill <u>Annual Return</u>	T-Bill Realized Discrete Risk <u>Premium</u>	T-Bill Realized Continuous Risk <u>Premium</u>
1925	1.000			1.000				
1926	1.116	11.600%	10.975%	1.033	3.300%	3.247%	8.300%	7.728%
1927	1.535	37.545%	31.878%	1.065	3.098%	3.051%	34.447%	28.827%
1928	2.204	43.583%	36.174%	1.103	3.568%	3.506%	40.015%	32.668%
1929	2.018	-8.439%	-8.817%	1.155	4.714%	4.607%	-13.154%	-13.423%
1930	1.516	-24.876%	-28.603%	1.183	2.424%	2.395%	-27.300%	-30.998%
1931	0.859	-43.338%	-56.806%	1.196	1.099%	1.093%	-44.437%	-57.899%
1932	0.789	-8.149%	-8.500%	1.207	0.920%	0.916%	-9.069%	-9.416%
1933	1.214	53.866%	43.091%	1.211	0.331%	0.331%	53.534%	42.760%
1934	1.197	-1.400%	-1.410%	1.213	0.165%	0.165%	-1.565%	-1.575%
1935	1.767	47.619%	38.946%	1.215	0.165%	0.165%	47.454%	38.782%
1936	2.367	33.956%	29.234%	1.217	0.165%	0.164%	33.791%	29.070%
1937	1.538	-35.023%	-43.114%	1.221	0.329%	0.328%	-35.352%	-43.442%
1938	2.016	31.079%	27.063%	1.221	0.000%	0.000%	31.079%	27.063%
1939	2.008	-0.397%	-0.398%	1.221	0.000%	0.000%	-0.397%	-0.398%
1940	1.812	-9.761%	-10.271%	1.221	0.000%	0.000%	-9.761%	-10.271%
1941	1.602	-11.589%	-12.318%	1.222	0.082%	0.082%	-11.671%	-12.400%
1942	1.927	20.287%	18.471%	1.225	0.245%	0.245%	20.042%	18.226%
1943	2.427	25.947%	23.069%	1.229	0.327%	0.326%	25.621%	22.743%
1944	2.906	19.736%	18.012%	1.233	0.325%	0.325%	19.411%	17.687%
1945	3.965	36.442%	31.073%	1.237	0.324%	0.324%	36.117%	30.749%
1946	3.645	-8.071%	-8.415%	1.242	0.404%	0.403%	-8.475%	-8.818%
1947	3.853	5.706%	5.550%	1.248	0.483%	0.482%	5.223%	5.068%
1948	4.065	5.502%	5.356%	1.258	0.801%	0.798%	4.701%	4.558%
1949	4.829	18.795%	17.223%	1.272	1.113%	1.107%	17.682%	16.116%
1950	6.360	31.704%	27.539%	1.287	1.179%	1.172%	30.525%	26.367%
1951	7.888	24.025%	21.531%	1.306	1.476%	1.466%	22.549%	20.066%
1952	9.336	18.357%	16.854%	1.328	1.685%	1.671%	16.672%	15.183%
1953	9.244	-0.985%	-0.990%	1.352	1.807%	1.791%	-2.793%	-2.781%
1954	14.108	52.618%	42.277%	1.364	0.888%	0.884%	51.730%	41.393%
1955	18.561	31.564%	27.432%	1.385	1.540%	1.528%	30.024%	25.904%
1956	19.778	6.557%	6.351%	1.419	2.455%	2.425%	4.102%	3.926%
1957	17.646	-10.780%	-11.406%	1.464	3.171%	3.122%	-13.951%	-14.528%
1958	25.298	43.364%	36.022%	1.486	1.503%	1.492%	41.861%	34.530%
1959	28.322	11.954%	11.291%	1.530	2.961%	2.918%	8.993%	8.373%
1960	28.455	0.470%	0.469%	1.571	2.680%	2.644%	-2.210%	-2.176%
1961	36.106	26.888%	23.814%	1.604	2.101%	2.079%	24.787%	21.735%

							T-Bill	T-Bill
		Discrete	Continuous	- D'II I	5		Realized	Realized
	Common Stock Total Return Index	Common Stock	Common Stock	T-Bill Total Return Index	Discrete T-Bill	Continuous T-Bill	Discrete Risk	Continuous Risk
<u>Year</u>	For Year Ended	Annual Return	Annual Return	For Year Ended	Annual Return	Annual Return	Premium	Premium
<u>rcur</u>	ror rear Enaca	Amadrictani	Amaaricean	TOT TEAT EHACA	Amidai Netam	Amadrictani	<u>r remium</u>	reman
1962	32.954	-8.730%	-9.135%	1.648	2.743%	2.706%	-11.473%	-11.841%
1963	40.469	22.805%	20.542%	1.700	3.155%	3.107%	19.649%	17.436%
1964	47.139	16.482%	15.256%	1.760	3.529%	3.469%	12.952%	11.788%
1965	53.008	12.450%	11.734%	1.829	3.920%	3.846%	8.530%	7.889%
1966	47.674	-10.063%	-10.606%	1.916	4.757%	4.647%	-14.819%	-15.253%
1967	59.104	23.975%	21.491%	1.997	4.228%	4.141%	19.748%	17.351%
1968	65.642	11.062%	10.492%	2.101	5.208%	5.077%	5.854%	5.415%
1969	60.059	-8.505%	-8.889%	2.239	6.568%	6.362%	-15.074%	-15.250%
1970	62.375	3.856%	3.784%	2.385	6.521%	6.317%	-2.665%	-2.533%
1971	71.295	14.301%	13.366%	2.490	4.403%	4.308%	9.898%	9.058%
1972	84.838	18.996%	17.392%	2.585	3.815%	3.744%	15.180%	13.647%
1973	72.376	-14.689%	-15.887%	2.764	6.925%	6.695%	-21.614%	-22.582%
1974	53.220	-26.467%	-30.744%	2.986	8.032%	7.726%	-34.499%	-38.470%
1975	73.033	37.228%	31.648%	3.159	5.794%	5.632%	31.435%	26.016%
1976	90.508	23.928%	21.453%	3.319	5.065%	4.941%	18.863%	16.512%
1977	84.029	-7.158%	-7.428%	3.489	5.122%	4.995%	-12.281%	-12.423%
1978	89.551	6.572%	6.365%	3.740	7.194%	6.947%	-0.622%	-0.582%
1979	106.216	18.610%	17.067%	4.128	10.374%	9.871%	8.235%	7.196%
1980	140.741	32.505%	28.145%	4.592	11.240%	10.652%	21.264%	17.492%
1981	133.812	-4.923%	-5.049%	5.267	14.699%	13.715%	-19.623%	-18.763%
1982	162.643	21.546%	19.512%	5.822	10.537%	10.018%	11.009%	9.494%
1983	199.328	22.556%	20.339%	6.335	8.811%	8.445%	13.744%	11.895%
1984	211.833	6.274%	6.085%	6.959	9.850%	9.395%	-3.576%	-3.310%
1985	279.041	31.727%	27.556%	7.496	7.717%	7.433%	24.010%	20.123%
1986	330.124	18.307%	16.811%	7.958	6.163%	5.981%	12.143%	10.830%
1987	348.511	5.570%	5.420%	8.393	5.466%	5.322%	0.104%	0.098%
1988	406.392	16.608%	15.365%	8.926	6.351%	6.157%	10.258%	9.208%
1989	535.162	31.686%	27.525%	9.673	8.369%	8.037%	23.317%	19.488%
1990	518.549	-3.104%	-3.153%	10.429	7.816%	7.525%	-10.920%	-10.679%
1991	676.529	30.466%	26.594%	11.012	5.590%	5.440%	24.876%	21.155%
1992	728.077	7.619%	7.343%	11.398	3.505%	3.445%	4.114%	3.898%
1993	801.457	10.079%	9.602%	11.728	2.895%	2.854%	7.183%	6.748%
1994	812.040	1.320%	1.312%	12.186	3.905%	3.831%	-2.585%	-2.519%
1995	1,117.187	37.578%	31.902%	12.868	5.597%	5.446%	31.981%	26.456%
1996	1,373.695	22.960%	20.669%	13.538	5.207%	5.076%	17.753%	15.593%
1997	1,832.006	33.363%	28.791%	14.25	5.259%	5.126%	28.104%	23.665%
1998	2,355.568	28.579%	25.137%	14.942	4.856%	4.742%	23.722%	20.395%

							T-Bill	T-Bill
		Discrete	Continuous				Realized	Realized
	Common Stock	Common	Common	T-Bill Total	Discrete	Continuous	Discrete	Continuous
	Total Return Index	Stock	Stock	Return Index	T-Bill	T-Bill	Risk	Risk
<u>Year</u>	For Year Ended	Annual Return	Annual Return	For Year Ended	Annual Return	Annual Return	<u>Premium</u>	<u>Premium</u>
1999	2,851.215	21.042%	19.096%	15.641	4.678%	4.572%	16.363%	14.524%
2000	2,591.629	-9.104%	-9.546%	16.563	5.895%	5.728%	-14.999%	-15.273%
2001	2,283.593	-11.886%	-12.654%	17.197	3.828%	3.756%	-15.714%	-16.410%
2002	1,778.907	-22.101%	-24.975%	17.480	1.646%	1.632%	-23.746%	-26.607%
2003	2,289.178	28.685%	25.219%	17.659	1.024%	1.019%	27.660%	24.201%
2004	2,538.287	10.882%	10.330%	17.871	1.201%	1.193%	9.682%	9.136%
2005	2,662.966	4.912%	4.795%	18.403	2.977%	2.933%	1.935%	1.862%
2006	3,083.563	15.794%	14.665%	19.287	4.804%	4.692%	10.991%	9.973%
2007	3,252.973	5.494%	5.348%	20.186	4.661%	4.556%	0.833%	0.793%
2008	2,049.443	-36.998%	-46.200%	20.509	1.600%	1.587%	-38.598%	-47.788%
2009	2,591.818	26.465%	23.479%	20.529	0.098%	0.097%	26.367%	23.382%
2010	2,982.233	15.063%	14.031%	20.553	0.117%	0.117%	14.946%	13.914%
2011	3,045.211	2.112%	2.090%	20.562	0.044%	0.044%	2.068%	2.046%
2012	3,532.551	16.003%	14.845%	20.574	0.058%	0.058%	15.945%	14.787%
2013	4,676.679	32.388%	28.057%	20.579	0.024%	0.024%	32.364%	28.032%
2014	5,316.847	13.689%	12.829%	20.583	0.019%	0.019%	13.669%	12.810%
2015	5,390.422	1.384%	1.374%	20.586	0.015%	0.015%	1.369%	1.360%
2016	6,035.113	11.960%	11.297%	20.628	0.204%	0.204%	11.756%	11.093%
2017	7,352.672	21.832%	19.747%	20.792	0.795%	0.792%	21.037%	18.955%
2018	7,030.306	-4.384%	-4.483%	21.173	1.832%	1.816%	-6.217%	-6.299%
2019	9,243.896	31.486%	27.373%	21.629	2.154%	2.131%	29.333%	25.242%
2020	10,944.659	18.399%	16.889%	21.726	0.448%	0.447%	17.950%	16.441%
2021	14,086.369	28.705%	25.236%	21.735	0.041%	0.041%	28.664%	25.194%
Average 1926								
2021:	Common Stock Return		9.951%		3.304%	3.207%	9.025%	6.744%
	Less T-Bill Return	<u>3.304%</u>	<u>3.207%</u>				19.974%	19.239%
	Risk Premium	9.025%	6.744%		Annual Com	pounding T-Bill Ris	sk Premium:	6.98%

Minimum:

7.92%

7.61%

7.63%

PROXY GROUP CAPM -- S&P 500 INDEX RISK PREMIUM

			Risk Free Rate 30-Yr Constant		S&P Index Risk	CAPM Common Equity
Number	Company	SYM	Maturity	Habr Beta	Premium	Cost
1	American States Water	AWR	3.15%	0.637	7.92%	8.19%
2	American Water Works Co.	AWK	3.15%	0.922	7.92%	10.45%
3	Artesian Resources Corp.	ARTNA	3.15%	0.563	7.92%	7.61%
4	California Water Service Group	CWT	3.15%	0.677	7.92%	8.51%
5	Essential Utilities, Inc.	WTRG	3.15%	0.873	7.92%	10.06%
6	Middlesex Water Company	MSEX	3.15%	0.744	7.92%	9.04%
7	SJW Corporation	SJW	3.15%	0.612	7.92%	7.99%
				ľ	Maximum: Median: Mean:	10.45% 8.51% 8.84%

YORW

3.15%

0.566

York Water Company

PROXY GROUP CAPM -- HISTORICAL RISK PREMIUM

			Risk Free Rate 30-Yr		Historical	CAPM Common
Number	Company	SYM	Constant Maturity	Habr Betas	Risk Premium	Equity Cost
1	American States Water	AWR	3.15%	0.637	6.98%	7.60%
2	American Water Works Co.	AWK	3.15%	0.922	6.98%	9.59%
3	Artesian Resources Corp.	ARTNA	3.15%	0.563	6.98%	7.08%
4	California Water Service Group	CWT	3.15%	0.677	6.98%	7.87%
5	Essential Utilities, Inc.	WTRG	3.15%	0.873	6.98%	9.24%
6	Middlesex Water Company	MSEX	3.15%	0.744	6.98%	8.34%
7	SJW Corporation	SJW	3.15%	0.612	6.98%	7.42%

York Water Company

Maximum: 9.59%
Median: 7.87%
Mean: 8.16%
Minimum: 7.08%

YORW 3.15% 0.566 6.98% 7.10%

PROXY GROUP CAPM/ RISK PREMIUM -- S&P 500 INDEX RISK PREMIUM

						S&P	CAPM/Risk
				Utility		Dividend	Premium
			Moody's/S	Bond	Habr	Index Risk	Common
Number	Company	SYM	&P Rating	Yield	Betas	Premium	Equity Cost
1	American States Water	AWR	A2/A+	4.85%	0.637	7.92%	9.89%
2	American Water Works Co.	AWK	A3/A	4.85%	0.922	7.92%	12.15%
3	Artesian Resources Corp.	ARTNA		5.23%	0.563	7.92%	9.69%
4	California Water Service Group	CWT	A+	4.85%	0.677	7.92%	10.21%
5	Essential Utilities, Inc.	WTRG	Baa2/A	5.04%	0.873	7.92%	11.95%
6	Middlesex Water Company	MSEX	A2/A	4.85%	0.744	7.92%	10.74%
7	SJW Corporation	SJW	A-	4.85%	0.612	7.92%	9.69%
						Maximum:	12 150/
							12.15%
						Median:	10.21%
						Mean:	10.62%
						Minimum:	9.69%
	York Water Company	YORW	A-	4.85%	0.566	7.92%	9.33%

PROXY GROUP CAPM/ RISK PREMIUM -- HISTORICAL RISK PREMIUM

							CAPM/Risk
			Moody's/	Utility		Historical	Premium
			S&P	Bond	Habr	Risk	Common
Number	Company	SYM	Rating	Yield	Betas	Premium	Equity Cost
1	American States Water	AWR	A2/A+	4.85%	0.637	6.98%	9.29%
2	American Water Works Co.	AWK	A3/A	4.85%	0.922	6.98%	11.28%
3	Artesian Resources Corp.	ARTNA		5.23%	0.563	6.98%	9.16%
4	California Water Service Group	CWT	A+	4.85%	0.677	6.98%	9.57%
5	Essential Utilities, Inc.	WTRG	Baa2/A	5.04%	0.873	6.98%	11.13%
6	Middlesex Water Company	MSEX	A2/A	4.85%	0.744	6.98%	10.04%
7	SJW Corporation	SJW	A-	4.85%	0.612	6.98%	9.12%
						Maximum:	11.28%
						Median:	9.57%
						Mean:	9.94%
						Minimum:	9.12%
	York Water Company	YORW	A-	4.85%	0.566	6.98%	8.80%

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

: Docket Nos. R-2022-3031340 (Water)

R-2022-3032806 (Wastewater)

The York Water Company

v.

VERIFICATION

I, David S. Habr, hereby state that the facts set forth in my Direct Testimony, OCA Statement 3, are true and correct (or are true and correct to the best of my knowledge, information, and belief) and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: August 19, 2022

*334092

Signature:

Consultant Address: Habr Economics 213 Cornuta Way

Nipomo, CA 93444-5020

1. The

OCA STATEMENT 4

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION)	
)	DOCKET NOS. R-2022-3031340 (WATER)
v.)	R-2022-3032806 (WASTEWATER)
)	
THE YORK WATER COMPANY)	

DIRECT TESTIMONY OF JEROME D. MIERZWA

ON BEHALF OF THE PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

AUGUST 19, 2022

ASSOCIATES, INC.
10480 Little Patuxent Parkway
Suite 300
Columbia, Maryland 21044

I. INTRODUCTION

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2	Q.	WOULD YOU PLEASE STATE YOUR NAME AND BUSINESS
3		ADDRESS?
4	A.	My name is Jerome D. Mierzwa. I am a Principal and Vice President of Exeter
5		Associates, Inc ("Exeter"). My business address is 10480 Little Patuxent Parkway,
6		Suite 300, Columbia, Maryland 21044. Exeter specializes in providing public utility-
7		related consulting services.
8	Q.	PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND
9		EXPERIENCE.
10	A.	I graduated from Canisius College in Buffalo, New York, in 1981 with a Bachelor of
11		Science Degree in Marketing. In 1985, I received a Master's Degree in Business
12		Administration with a concentration in finance, also from Canisius College. In July
13		1986, I joined National Fuel Gas Distribution Corporation ("NFG Distribution") as a
14		Management Trainee in the Research and Statistical Services Department ("RSS").
15		I was promoted to Supervisor RSS in January 1987. While employed with NFG
16		Distribution, I conducted various financial and statistical analyses related to the
17		Company's market research activity and state regulatory affairs. In April 1987, as part
18		of a corporate reorganization, I was transferred to National Fuel Gas Supply

Corporation's ("NFG Supply") rate department where my responsibilities included

utility cost of service and rate design analysis, expense and revenue requirement

supply gas price projections. These forecasts were utilized for internal planning

purposes	as	well	as	in	NFG	Distribution's	Section	1307(f)	purchased	gas	cost
proceedin	ıgs.										

A.

Q.

A.

In April 1990, I accepted a position as a Utility Analyst with Exeter. In December 1992, I was promoted to Senior Regulatory Analyst. Effective April 1, 1996, I became a principal of Exeter. Since joining Exeter, I have specialized in utility class cost of service and rate design analysis, evaluating the gas purchasing practices and policies of natural gas utilities, sales and rate forecasting, performance-based incentive regulation, revenue requirement analysis, the unbundling of utility services, and the evaluation of customer choice natural gas transportation programs.

HAVE YOU PREVIOUSLY TESTIFIED IN REGULATORY

PROCEEDINGS ON UTILITY RATES?

Yes. I have provided testimony on approximately 400 occasions in proceedings before FERC, utility regulatory commissions in Arkansas, Delaware, Georgia, Illinois, Indiana, Louisiana, Maine, Maryland, Massachusetts, Montana, Nevada, New Hampshire, New Jersey, Ohio, Pennsylvania, Rhode Island, South Carolina, Texas, Utah, and Virginia, as well as before the Pennsylvania Public Utility Commission ("Commission").

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

On May 27, 2022, The York Water Company ("York" or "the Company") filed an application to increase rates for water utility service by \$18.9 million, or 35.1%, and to increase rates for wastewater service by \$1.5 million, or 35.0%. Exeter was retained by the Pennsylvania Office of Consumer Advocate ("OCA") to review and analyze the Company's water and wastewater cost of service ("COS") studies and the rate design proposals included in York's application. My testimony addresses the Company's COS studies and rate design proposals.

1	Q.	HAVE YOU PREPARED EXHIBITS TO ACCOMPANY YOUR
2		TESTIMONY?
3	A.	Yes, I have. Schedules JDM-1 through JDM-3 are attached to my testimony.
4	Q.	PLEASE SUMMARIZE YOUR FINDINGS AND RECOMMENDATIONS.
5 6 7		 The systemwide and customer class specific base-extra capacity factors utilized in the Company's water COS study are out of date, unreasonable and should be modified;
8 9 10		 The water revenue increase authorized by the Commission in this proceeding should be distributed to the various customer classifications based on the OCA's COS study results;
11 12 13 14		• The monthly water service Residential customer charge for a customer with a 5/8-inch meter should remain at \$16.25 unless based on an analysis of direct customer costs, the increase authorized by the Commission is sufficient to justify a higher charge; and
15 16 17 18 19 20 21		• York's proposal pursuant to Section 1311(c) of the Public Utility Code to collect \$2.67 million of the costs associated with providing wastewater service through the rates for water utility service should be revised and reduced to \$2.05 million, and subsequently scaled-back to reflect the wastewater revenue requirement authorized by the Commission in this proceeding. The allocation of the wastewater costs to the various water customer classes should also be modified.
22	Q.	HOW IS THE REMAINDER OF YOUR TESTIMONY ORGANIZED?
23	A.	The remainder of my testimony is divided into six additional sections. The second
24		section of my testimony describes and evaluates the Company's water COS study. The
25		third section presents my recommended distribution of the water revenue increase
26		authorized by the Commission in this proceeding. The next section addresses York's
27		proposed water service Residential customer charge. The fifth section of my testimony
28		addresses York's proposal to recover \$2.67 million of the costs associated with
29		providing wastewater service through the rates for water utility service pursuant to
30		Section 1311(c) of the Public Utility Code. The final section of my testimony address
31		York's wastewater COS study revenue allocation, and rate design proposals

II. WATER COST OF SERVICE STUDY

2	Q.	WHAT IS THE OBJECTIVE OF A COST OF SERVICE STUDY?
3	A.	A cost of service study is conducted to assist a utility or commission in determining the
4		level of costs properly recoverable from each of the various classes of customers to
5		which the utility provides service. Allocation of recoverable costs to each class of
6		service is generally based on cost causation principles.
7	Q.	WHAT ARE THE PRIMARY COST OF SERVICE STUDY
8		METHODOLOGIES UTILIZED FOR WATER UTILITIES?
9	A.	The two most commonly used and widely recognized methods of allocating costs
10		to customer classes for water utilities are the base-extra capacity method and the
11		commodity-demand method. Both of these methods are set forth in the American Water
12		Works Association's ("AWWA") Manual, M1, Principles of Water Rates, Fees, and
13		Charges ("AWWA Manual").
14	Q.	WHAT METHODOLOGY HAS THE COMPANY UTILIZED FOR ITS
15		WATER COST OF SERVICE STUDY?
16	A.	York has utilized the base-extra capacity method in preparing its water cost of service
17		studies. Under the base-extra capacity method, investment and costs are first classified
18		into four primary functional cost categories: base or average capacity, extra capacity
19		customer, and fire protection. Once investment and costs are classified to these
20		functional categories, they are allocated to the various customer classes. York's water
21		cost of service study and subsequently discussed wastewater cost of service studies are
22		sponsored by Constance E. Heppenstall of Garnett Fleming Valuation and Rate
23		Consultants, LLC.

1	Q.	PLEASE DESCRIBE IN GREATER DETAIL THE FOUR PRIMARY
2		FUNCTIONAL COST CATEGORIES AND HOW THEY ARE
3		ALLOCATED TO THE VARIOUS CUSTOMER CLASSES UNDER THE
4		BASE-EXTRA CAPACITY METHOD.
5	A.	Base or Average Costs are costs that tend to vary with the quantity of water used, plus
6		costs associated with supplying, treating, pumping, and distributing water to customers
7		under average load conditions. Base costs were allocated to customer class on the basis
8		of average daily usage in York's cost of service study.
9		Extra Capacity Costs are costs associated with meeting usage requirements in
10		excess of base or average usage. This includes operating and capital costs for additional
11		plant and system capacity beyond that required for average usage. Extra capacity costs
12		in the Company's study have been subdivided into costs necessary to meet maximum
13		day extra demand and maximum hour extra demand. These extra capacity costs were
14		allocated to customer class on the basis of each class's maximum day and maximum
15		hour usage in excess of average usage. Extra capacity costs related to fire protection
16		service are allocated directly to the fire protection classifications.
17		Customer Costs are costs associated with serving customers regardless of their
18		usage or demand characteristics. Customer costs include the operating costs related to
19		meters and services, meter reading costs, and billing and collection costs. Customer
20		costs were allocated on the basis of capital cost of meters and services and the number
21		of customer bills.
22		Fire Protection Costs are costs associated with providing the facilities to mee
23		the potential peak demand of fire protection service. In the Company's study, fire
24		protection costs have been subdivided into the costs associated with meeting Public

Fire Protection and Private Fire Protection demands. The extra capacity costs assigned

1		to fire protection were allocated to Public and Private Fire Protection on the basis of
2		the total relative demands of hydrants and fire service lines. In accordance with 66 Pa.
3		C.S. § 1328(b) of the Public Utility Code, public fire costs exceeding 25% of the public
4		fire cost of service were reallocated to other classifications.
5	Q.	WHAT CUSTOMER CLASSES HAS THE COMPANY IDENTIFIED IN
6		ITS WATER COST OF SERVICE STUDY?
7	A.	The Company has separately identified the cost of serving five customer classes in its
8		study: Residential; Commercial; Industrial; Private Fire Protection; and Public Fire
9		Protection. Within each of these classes a separate cost of service has been determined
10		for the gravity and re-pumped service areas.
11	Q.	DO YOU AGREE WITH THE FUNCTIONALIZATION AND
12		ALLOCATION OF COSTS IN YORK'S WATER COST OF SERVICE
13		STUDY?
14	A.	I generally agree with York's use of the base-extra capacity methodology. However, I
15		believe that modifications to the systemwide and customer class specific maximum day
16		and maximum hour extra capacity factors utilized to allocate functionalized costs to the
17		various customer classifications are necessary.
18	Q.	PLEASE DESCRIBE IN GREATER DETAIL YORK'S ALLOCATION OF
19		MAXIMUM DAY AND MAXIMUM HOUR EXTRA CAPACITY COSTS
20		UNDER THE BASE-EXTRA CAPACITY METHOD TO THE VARIOUS
21		CUSTOMER CLASSES.
22	A.	Under the method set forth in the AWWA Manual, maximum day and maximum hour
23		extra capacity costs are allocated to customer class based on the excess of each class's
24		non-coincident maximum day and maximum hour demands over average day and
25		average hour demands, respectively.

For example, in York's cost of service study, the average daily demand of Residential customers in the gravity and re-pumped service areas is 84,206,000 gallons and the non-coincident maximum day demand of Residential customers is estimated to be 210,515,000 gallons (Exhibit No. FVIII, Schedule E, page 3). Thus, the maximum day extra capacity demand of Residential customers is estimated to be 126,309,000 gallons (210,515,000 minus 84,206,000) and this serves as the basis to allocate maximum day extra capacity costs to Residential customers. The maximum day extra capacity factor, which I discuss later in my testimony, is the ratio obtained by dividing maximum day extra capacity demands by average daily demands. In this instance, the maximum day extra capacity factor for Residential customers 2.5 (210,515,000/84,206,000).

In the Company's water cost of service study, the average hourly demand of Residential customers in the gravity and re-pumped service areas is 3,508,600 gallons, and the non-coincident maximum hour demand of Residential customers is estimated to be 15,788,700 gallons (Exhibit No. FVIII, Schedule E, pages 7 and 9). Thus, the maximum hour extra capacity demand of Residential customers is estimated to be 12,280,100 gallons (15,788,700 minus 3,508,600), and this serves as the basis for allocating maximum hour extra capacity costs to Residential customers. In this instance, the maximum hour extra capacity factor of Residential customers is 4.5 (15,788,700/3,508,600).

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¹ Average demands of the various customer classes are based on actual meter readings and, therefore, known with relative certainty. Maximum day and maximum hour demands must be estimated because consumption meters are not read on a daily or hourly basis.

1	Q.	THE BASE-EXTRA CAPACITY UTILIZES NON-COINCIDENT PEAK
2		DEMANDS TO ALLOCATE EXTRA CAPACITY COSTS TO THE
3		VARIOUS CUSTOMER CLASSES. IS THIS SIMPLY THE DEMANDS OF
4		EACH CUSTOMER CLASSIFICATION AT THE TIME OF SYSTEM
5		PEAK DAY AND PEAK HOUR DEMANDS?
6	A.	No. Non-coincident peak demands represent the maximum demands of the individua
7		customer classifications regardless of when those demands occur. Thus, the sum of
8		each customer class's non-coincident demands will exceed the system coincident peak
9		demand. The ratio obtained by dividing non-coincident demands by coinciden
10		demands is referred to as the system diversity ratio in the AWWA Manual.
11	Q.	WHY ARE NON-COINCIDENT DEMANDS UTILIZED UNDER THE
12		BASE-EXTRA CAPACITY METHOD?
13	A.	The basis for using non-coincident maximum day and minimum hour demands is se
14		forth in the AWWA Manual:
15		It is important that the reader understand the rationale
16		of using the non-coincident demands in distributing
17		the functionally allocated costs to each class. The
18		rationale for supporting the use of non-coincident
19		peaking factors is that the benefits of diversity in
20		customer class consumption patterns should accrue
21		to all classes in proportion to their use of the system,
22		and not be allocated primarily to a particular class
23		that happens to peak at a time different from other
22 23 24 25 26 27 28		users of the system. The concept is illustrated
25 26		through the following example: Assume that a utility was going to build a <i>separate system</i> (source of
20 27		supply, treatment, pumping, transmission and
27		distribution, etc.) for each of the customer classes
29		served by the utility. These separate water systems
30		would need to be sized to meet the base, maximum-
31		day extra capacity, and maximum-hour extra
32		capacity demands related to each class. The sum of
33		those systems would compose the overall water
34		system, and the costs associated with each of the

1 individual systems would be allocable to each class 2 (based on their respective non-coincidental demands 3 that were the basis for sizing the individual 4 components of the system). 5 Assume that a concept is developed that efficiencies, economies of scale, and reduction in the overall size 6 7 of the "system" could be achieved if the system is an 8 integrated, diversified system. With this concept in 9 mind, recognizing the diversities of demands of the various classes and using the coincidental demands 10 11 of all classes to size the plant, a smaller system could be built. Total fixed capital costs and most operation 12 and maintenance expenses, except perhaps for power 13 14 and chemical costs, would be reduced in sizing the overall system facilities on the basis of the 15 coincidental demands of all the classes of customers. 16 17 The question at hand is, considering that there is a 18 smaller, more efficient, and less costly system, how 19 should the cost savings of that system be allocated among the individual customer classes? One 20 21 appropriate manner to allocate these costs, and have 22 each customer class share equitably in the overall 23 cost savings, is to allocate the total new, smaller 24 system costs on the basis of the non-coincidental 25 demands of each customer class. In this manner, all 26 classes share proportionately in the economies of 27 scale and cost savings of this smaller, integrated, and 28 diverse system. AWWA Manual, Appendix A, pages 374 - 375, 7th 29 30 Edition (2017). 31 HOW DID THE COMPANY DETERMINE THE MAXIMUM DAY AND Q. MAXIMUM HOUR DEMANDS OF THE VARIOUS CUSTOMER CLASS 32 33 REFLECTED IN ITS COST OF SERVICE STUDY? 34 A. The maximum day and maximum hour demands reflected in the Company's water cost 35 of service study were developed based on a combination of judgment, a customer 36 demand study conducted on the York system during 1976 and 1977, and studies by 37 other Pennsylvania water utilities.

Page 9

Direct Testimony of Jerome D. Mierzwa

1	Q.	WHAT ARE YOUR CONCERNS WITH THE SYSTEMWIDE AND
2		CUSTOMER CLASS SPECIFIC MAXIMUM DAY AND MAXIMUM
3		HOUR DEMAND FACTORS USED IN THE COMPANY'S STUDY?
4		My concern with the systemwide and customer specific demand factors used by the
5		Company is that they are outdated. The systemwide maximum day extra capacity factor
6		used in York's cost of service study was experienced in 2010, and the systemwide
7		maximum day extra capacity factor was experienced in 2006. The customer demand
8		study conducted by York relied upon for the customer class specific demand factors is
9		45 years old. Thus, changes in customer demands and/or mix are not reflected in the
10		Company's systemwide and customer specific demand factors. For example, Exhibit
11		No. FVIII. RS1-c Attachment, page 9 of the Company's filing identified the Industrial
12		customers included in the Company's 1976 – 1977 customer demand study. Of the 19
13		customer accounts identified there, York no longer provides water utility service to five
14		of those locations. In the 1976 – 1977 customer demand study, of the 14 accounts still
15		served by York, the average daily consumption of those customers was 1,649,989
16		gallons. The average daily consumption of those 14 customers during 2021 was only
17		321,008 gallons, a decline of over 80%. Clearly, customer demands have changed
18		significantly since the 1976 – 1977 demand study.
19	Q.	WHAT DO YOU RECOMMEND WITH RESPECT TO THE
20		SYSTEMWIDE AND CLASS SPECIFIC CUSTOMER DEMAND
21		FACTORS WHICH SHOULD BE USED IN THE COMPANY'S COST OF
22		SERVICE STUDY?
23	A.	Based on the maximum day and maximum hour usage ratio to average day usage ratio
24		recently experienced by York which are presented on Exhibit No. FVIII, Schedule F, I
25		recommend that a systemwide maximum day demand factor of 1.35 be utilized in the

1	Company's cost-of-service study, and that a maximum hour demand factor of 1.65 be
2	utilized.

A.

For customer class specific demand factors, Appendix A of the AWWA Manual presents a procedure that can be used to develop customer demand factors from system demand data and customer billing records. I recommend that this procedure be used to develop customer demand factors. This will provide for the development of customer demand factors which are based on recent data and the current usage characteristics of York's customers.

Q. HAVE YOU DEVELOPED CUSTOMER DEMAND FACTORS BASED

ON THE PROCEDURES DESCRIBED IN THE AWWA MANUAL?

Yes. I have calculated customer demand factors using the procedures described in the AWWA Manual. These demand factors are developed on Schedule JDM-1. To develop these factors, I examined annual system demand and monthly customer billing records for the most recent three year period for which data was available and provided by York, and developed customer demand factors for each of those years. I selected to utilize the demand factors calculated for the most recent annual period (June 2021 – May 2022) because the AWWA Manual prescribes that the year with the highest ratio of system maximum day to system average day demand for a representative number of recent years should be used in the analysis. I would note that, however, the resulting customer demand factors would not vary significantly if data from any of the past three years had been utilized.

Q. HOW DO YOUR RECOMMENDED SYSTEMWIDE EXTRA CAPACITY FACTORS COMPARE TO THOSE USED BY YORK?

A. York has used a systemwide maximum day demand factor of 1.52, and a maximum hour demand factor of 1.84 in its cost of service study. I recommended that, based on

- more recent usage characteristics of York's customers, a maximum day demand factor of 1.35 and a maximum hour demand factor of 1.65 should be utilized.
- 3 Q. HOW DO THE CUSTOMER CLASS SPECIFIC DEMAND FACTORS
- 4 WHICH YOU DEVELOPED BASED ON THE PROCEDURES
- 5 RECOMMENDED IN THE AWWA MANUAL COMPARE TO THOSE
- 6 USED BY THE COMPANY?

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7 A. A comparison of the customer demand factors which I developed and those used by the Company is presented in Table 1.

Table 1. Comparison of Customer Extra Capacity Demand Factors							
	Maxim	um Day	Maximum Hour				
Class	AWWA	Company	AWWA	Company			
Residential	1.70	2.50	2.80	4.50			
Commercial	1.50	1.60	2.50	3.30			
Industrial	1.45	1.50	1.95	2.70			

9 Q. HAVE YOU PREPARED A WATER COST OF SERVICE STUDY THAT 10 INCORPORATES YOUR RECOMMENDED DEMAND FACTORS?

Yes. Schedule JDM-2 presents a summary of a cost of service study incorporating my recommended systemwide and customer class specific demand factors. The study presented in Schedule JDM-2 also reflects my recommendation to reduce the wastewater revenue requirement to be recovered from water service customers by \$625,000, from \$2,670,856 to \$2,045,856, and my proposed modifications to the allocation of the wastewater revenue requirement to the various customer classes. These recommendations and modifications to the wastewater revenue requirement to be recovered from water service customers are addressed in Section V of my testimony.

Q. HOW DO THE RESULTS OF YOUR STUDY COMPARE WITH THE

RESULTS OF THE COMPANY'S STUDY?

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A. A comparison of the unitized rates of return² at the Company's proposed rates based on the Company's and my cost-of-service studies is presented in Table 2. I would note that the OCA unitized rates of return reflected in Table 2 are the same with and without my proposed recommendations and modifications to the assignment and allocation of

a portion of the wastewater revenue requirement to water service.

Table 2. Unitized Rates of Return at Proposed Rates						
Customer Class	Company	OCA				
Gravity System						
Residential	1.00	1.08				
Commercial	1.00	0.90				
Industrial	1.00	0.89				
Private Fire	1.00	0.92				
Public Fire	1.00	0.98				
Repumped System						
Residential	1.00	1.08				
Commercial	1.00	0.90				
Industrial	1.00	0.91				
Private Fire	1.00	0.91				
Public Fire	1.00	0.98				

As shown above in Table 2, at the revenue increase proposed by the Company for each class, my study indicates the Residential class would be paying more than its indicated cost of service, while the Commercial, Industrial, and Private Fire classes would be paying modestly less than their indicated cost of service. In contrast, under

² The unitized rate of return is calculated by dividing the rate of return of a particular customer class by the Company's overall rate of return. A unitized rate of return of 1.0 would indicate that a customer class is contributing revenues equal to its cost of service. Unitized rates of return greater than 1.0 indicate that a customer class is contributing revenues in excess of its cost of service, while unitized rates of return less than 1.0 indicate that a customer class is contributing revenues insufficient to cover that class's cost of service.

- 1 the OCA's proposed revenue distribution discussed in the next section of my testimony
- 2 has been allocated so that the unitized rate of return for each class would be 1.00.

- Q. PLEASE SUMMARIZE THE COMPANY'S PROPOSED DISTRIBUTION
 OF THE RATE INCREASE IT IS REQUESTING IN THIS PROCEEDING.
- 4 A. York's proposed distribution of the water revenue increase is presented in Table 3.

Table 3. Company Proposed Distribution of Water Revenue Increase							
	Present	Proposed					
Class	Rates	Rates	Increase	Percent			
Residential							
Gravity	\$9,781,992	\$13,311,230	\$3,529,238	36.1%			
Repumped	\$24,687,304	\$32,762,201	\$8,074,897	32.7%			
Total:	\$34,469,296	\$46,073,431	\$11,604,135	33.7%			
Commercial							
Gravity	\$3,610,022	\$5,264,408	\$1,654,386	45.8%			
Repumped	\$6,957,041	\$9,997,650	\$3,040,609	43.7%			
Total:	\$10,567,063	\$15,262,058	\$4,694,995	44.4%			
<u>Industrial</u>							
Gravity	\$851,750	\$1,238,985	\$387,235	45.5%			
Repumped	\$3,223,353	\$4,528,700	\$1,305,347	40.5%			
Total:	\$4,075,104	\$5,767,685	\$1,692,581	41.5%			
<u>Private Fire</u>							
Gravity	\$673,909	\$914,517	\$240,608	35.7%			
Repumped	\$1,345,427	\$1,683,139	\$337,712	25.1%			
Total:	\$2,019,336	\$2,597,656	\$578,320	28.6%			
<u>Public Fire</u>							
Gravity	\$268,062	\$323,794	\$55,732	20.8%			
Repumped	\$1,124,463	\$1,329,176	\$204,713	18.2%			
Total:	\$1,392,525	\$1,652,970	\$260,445	18.7%			
Grand							
Total:	\$52,523,324	\$71,353,800	\$18,830,476	35.9%			

1	Q.	HOW DID THE COMPANY DISTRIBUTE THE PROPOSED INCREASE
2		TO THE VARIOUS CUSTOMER CLASSES?
3	A.	York has proposed rates for each customer class equal to the indicated cost of service.
4	Q.	WHAT IS YOUR PROPOSAL WITH RESPECT TO THE DISTRIBUTION
5		OF THE WATER REVENUE INCREASE AWARDED IN THIS
6		PROCEEDING?
7	A.	I recommend that the increase authorized in this proceeding be distributed based on the
8		cost of service indicated by my study. A distribution based on the Company's requested
9		increase is presented in Table 4. To the extent the Commission awards York less than
10		the amount of the revenue increase requested, rates for each class should be scaled back
11		proportionately.

OCA P	roposed Distribu	Table 4. tion of Water R	evenue Increa	se
Class	Present Rates	Proposed Rates	Increase	Percent
Residential				
Gravity	\$9,781,992	\$12,744,179	\$2,962,187	30.3%
Repumped	\$24,687,304	\$31,383,981	\$6,696,677	27.1%
Total:	\$34,469,296	\$44,128,160	\$9,658,863	28.0%
Commercial				
Gravity	\$3,610,022	\$5,435,061	\$1,825,039	50.6%
Repumped	\$6,957,041	\$10,358,665	\$3,401,624	48.9%
Total:	\$10,567,063	\$15,793,726	\$5,226,663	49.5%
<u>Industrial</u>				
Gravity	\$851,750	\$1,345,427	\$493,677	58.0%
Repumped	\$3,223,353	\$4,893,536	\$1,670,182	51.8%
Total:	\$4,075,104	\$6,238,963	\$2,163,859	53.1%
<u>Private Fire</u>				
Gravity	\$673,909	\$985,430	\$311,521	46.2%
Repumped	\$1,345,427	\$1,834,049	\$488,622	36.3%
Total:	\$2,019,336	\$2,819,479	\$800,143	39.6%
Public Fire				
Gravity	\$268,062	\$340,696	\$72,634	27.1%
Repumped	\$1,124,463	\$1,404,746	\$280,283	24.9%
Total:	\$1,392,525	\$1,745,442	\$352,917	25.3%
Grand Total:	\$52,523,324	\$70,725,769	\$18,202,445	34.7%

1		IV. <u>RESIDENTIAL WATER CUSTOMER CHARGE</u>
2	Q.	WHAT IS YORK PROPOSING WITH RESPECT TO THE RESIDENTIAL
3		CUSTOMER CHARGE FOR WATER CUSTOMERS?
4	A.	York is proposing to increase the current customer charge for a Residential customer
5		with a 5/8-inch meter from \$16.25 to \$20.71. Similar percentage increases are proposed
6		for customers with larger meters. The \$20.71 is based on analysis of what the Company
7		claims are direct customer costs presented in RS1-J Attachment.
8	Q.	WHAT COSTS HAS YORK INCLUDED IN ITS CALCULATION OF
9		DIRECT CUSTOMER COSTS?
10	A.	York has included operation and maintenance ("O&M") expenses, depreciation
11		expense and the return and taxes associated with meters and services and related
12		supplies, customer accounting O&M expenses and bad debt expense in its calculation
13		of direct customers. The Company has also included what it claims are directly related
14		O&M costs such as pensions and benefits.
15	Q.	IS YORK'S CALCULATION OF DIRECT CUSTOMER COSTS
16		REASONABLE?
17	A.	No. Only those costs that change directly with the addition or subtraction of a customer
18		should be included in the calculation of a customer charge. York has included bad debt
19		expense in its calculation which is not a direct customer cost, and office building and
20		furniture and equipment related investment costs which are also not direct customer
21		costs. Finally, York has included the investment costs associated with its Enterprise
22		Software which do not change with the addition or subtraction of a customer ³ .

Direct Testimony of Jerome D. Mierzwa

³ Per the response to OCA Set IX, No. 1, Enterprise Software is the software system which manages and integrates most accounting, billing, customer service, purchasing, human resource, and operational functions of the Company within a single system.

1	Q.	WHAT IS YOUR RECOMMENDATION WITH RESPECT TO YORK'S
2		MONTHLY RESIDENTIAL CUSTOMER CHARGES FOR WATER
3		CUSTOMERS?
4	A.	York claims that, based on the Company's requested increase, a cost-based customer
5		charge would be \$20.71. As discussed above, the Company's calculation improperly
6		includes bad debt expense, office building and furniture and equipment related
7		investment costs, Enterprise Software investment costs, and should be reduced
8		accordingly. Finally, at the revenue increase authorized by the Commission in this
9		proceeding, a cost-based charge would certainly be further reduced. For example,
10		adjusting York's overall requested pre-tax rate of return of 9.01% to reflect the OCA's
11		recommended pre-tax return of 7.94% would further reduce the calculated customer
12		charge. A calculation adjusting the Company's calculated direct customer charge to
13		remove the improperly included costs, eliminate bad debt expense, and to reflect the
14		OCA's recommended rate of return is presented on Schedule JDM-3. As shown there,
15		these adjustments reduce the calculated charge to \$19.30. Other adjustments to York's
16		revenue requirement claim are likely to further reduce the calculated customer charge.
17		Therefore, I recommend that the existing \$16.25 monthly charge for Residential
18		customers with a 5/8-inch meter be maintained, unless the increase authorized by the
19		Commission is sufficient to justify a higher charge.
20	V. <u>I</u>	RECOVERY OF WASTEWATER SERVICE COSTS FROM WATER SERVICE
21	Q.	PLEASE DESCRIBE YORK'S PROPOSAL IN THIS PROCEEDING WITH
22		RESPECT TO ITS WASTEWATER OPERATIONS.
23	A.	York is proposing to recover a portion of the revenue requirement associated with

wastewater operations from its water operations and is proposing to allocate a portion

of the wastewater revenue requirement to the water revenue requirement of Residential

24

1		and Commercial customers. Fork's proposal is pursuant to one of the amendments to
2		the Public Utility Code made by Act 11 of 2012. York is proposing to increase rates
3		for its average wastewater customer by 35%, or \$1.5 million. The unrecovered
4		wastewater revenue requirement to be allocated to water utility service is \$2,670,856
5		Absent an allocation of any portion of the wastewater revenue requirement to water
6		revenue requirement, rates to wastewater customers would need to be increased by
7		approximately 100%, based on York's filed-for claim.
8	Q.	ON WHAT PROVISION OF ACT 11 OF 2012 DOES YORK RELY ON TO
9		SUPPORT ITS REQUEST TO RECOVER A PORTION OF THE
10		WASTEWATER REVENUE REQUIREMENT THROUGH THE WATER
11		UTILITY REVENUE REQUIREMENT?
12	A.	The particular provision of Act 11 on which York relies is an amendment to Section
13		1311 of the Public Utility Code, 66 Pa. C.S. § 1311. The Act amended subsection (c)
14		and added a new subsection (e) of that section. The relevant portions of Section 1311
15		now read as follows:
16 17		§ 1311 Valuation of and return on the property of a public utility.
18		* * *
19 20 21 22 23 24 25 26 27 28		(c) Segregation of property. When any public utility furnishes more than one of the different types of utility service, the commission shall segregate the property used and useful in furnishing each type of such service, and shall not consider the property of such public utility as a unit in determining the value of the rate base of such public utility for the purpose of fixing base rates. A utility that provides water and wastewater service shall be exempt from this subsection upon petition of a utility to combine water
29 30 31		and wastewater revenue requirements. The commission, when setting base rates, after notice and an opportunity to be heard, may allocate a portion of

1 2 3		the wastewater revenue requirement to the combined water and wastewater customer base if in the public interest.
4		* * *
5 6 7 8 9		(e) Definition. As used in this section, the term "utility that provides both water and wastewater service" shall include separate companies that individually provide water and wastewater service so long as the companies are wholly owned by a common parent company.
11 12		66 Pa. C.S. § 1311 (effective April 16, 2012).
13	Q.	DOES YORK QUALIFY AS A UTILITY THAT PROVIDES BOTH
14		WATER AND WASTEWATER SERVICE?
15	A.	Yes.
16	Q.	HOW HAS YORK ALLOCATED THE WASTEWATER COSTS
17		ASSIGNED TO WATER CUSTOMERS TO EACH OF THE CUSTOMER
18		CLASSES INCLUDED IN THE COMPANY'S COST OF SERVICE
19		STUDY?
20	A.	York has assigned the wastewater costs to the Residential and Commercial classes
21		based on the cost of providing water service as indicated by its water study. None of
22		the costs have been assigned to the Industrial class. York has also not assigned any of
23		the wastewater revenue requirement to the Private or Public Fire Protection classes. For
24		Public Fire Protection, this is consistent with the requirement of Section 1328 of the
25		Public Utility Code which limits Public Fire Protection charges to 25% of the indicated
26		cost of service.

2		POLICY STATEMENTS OR OTHER GUIDANCE ON HOW IT SHOULD
3		BE DETERMINED WHETHER RECOVERING A PORTION OF THE
4		COSTS ASSOCIATED WITH PROVIDING WASTEWATER SERVICE
5		THROUGH RATES FOR WATER SERVICE IS IN THE PUBLIC
6		INTEREST?
7	A.	Yes. In Aqua Pennsylvania, Inc. ("Aqua") Docket No. R-2021-3027385, Aqua
8		proposed to recover approximately 30% of its wastewater revenue requirement from
9		water customers.4 In its Order in that proceeding, the Commission found Aqua's
10		proposal to assign 30% of its wastewater revenue requirement to water customers not
11		to be in the public interest. ⁵ In that proceeding, the Commission reduced the subsidy
12		based on a proposal presented by the Bureau of Investigation and Enforcement
13	Q.	IS YORK'S PROPOSAL TO ALLOCATE A PORTION OF THE
14		WASTEWATER REVENUE REQUIREMENT TO WATER CUSTOMERS
15		REASONABLE, AND IS THE PROPOSED ALLOCATION TO THE
16		WATER CUSTOMER CLASSES REASONABLE?
17	A.	For the reasons subsequently discussed, I recommend that York's proposed assignment
18		of the wastewater revenue requirement to water customers should be modified.
19		Wastewater service costs may only be assigned to water customers if doing so is in the
20		public interest. If the Commission determines in this proceeding that it is appropriate
21		to assign a portion of the wastewater revenue requirement to water customers, the
22		Company's proposed allocation to the various water customer classes based on the cost
23		of water service is generally reasonable with the exception that Industrial and Public
24		Fire Protection customers should be included in an allocation based on their indicated

HAS THE COMMISSION ISSUED ANY ORDERS, RULEMAKINGS,

1 Q.

⁴ Order entered May 16, 2022, at 226. ⁵ <u>Id.</u>, at 227.

1	cost of service. There is no basis to exclude Industrial and Private Fire Protection
2	customers from such an allocation.

Q. PLEASE EXPLAIN WHY AND HOW YOU ARE RECOMMENDING THAT YORK'S PROPOSED ASSIGNMENT OF THE WASTEWATER REVENUE REQUIRED TO WATER SERVICE BE MODIFIED.

A.

In this proceeding, York is proposing to increase both water and wastewater rates by 35%. Under this proposal, the rates assessed to water customers will be more than sufficient to recover the indicated cost of water service, but the rates assessed to wastewater customers will be less than sufficient to recover the indicated cost of wastewater service. Therefore, a larger percentage increase is warranted for wastewater service than is warranted for water service.

Any shift of wastewater revenue requirement to water customers should be a fact specific inquiry and a determination of how much, if any, is in the public interest to shift should be made on a case-by-case basis. However, we also know that in Aqua Docket No. R-2021-3027385, the Commission found Aqua's proposal to assign 30% of its wastewater revenue requirement to water customers not be in the public interest and reduced the shifted revenue. In this proceeding, where York is proposing to allocate 32% of its wastewater revenue requirement to water customers and the proposed shift would result in an equal increase to water and wastewater rates, the proposed subsidy is not reasonable. I recommend that the allocation of the wastewater revenue requirement assigned to water customers be reduced 25%, or \$625,000. This results in a shift of the wastewater revenue requirement to water customers of slightly less than 25%, increases the recovery of the wastewater revenue requirement from wastewater customers, and continues to provide for mitigation of the rate increase which would otherwise be experienced by wastewater customers absent any revenue requirement

- shift to water customers. The Company's proposal as well as my recommended
- 2 adjustments to that proposal are presented in Table 5.

Direct Testimony of Jerome D. Mierzwa

1

Table 5. OCA A	Adjustment t	o Company	Assignment	of Wastewat	ter Revenue	Requiremen	nt to Water	Service
			equirement As Water Service	~				
	Cost of		OCA	OCA	Present	Proposed		
Class	Service	Company	Adjustment	Assignment	Revenues	Revenues	Increase	Percent
Residential	\$6,934,645	\$1,978,386	(\$462,957)	\$1,515,429	\$3,713,704	\$5,419,216	\$1,705,512	45.9%
Non-Residential	\$1,350,380	\$692,470	(\$162,043)	\$530,427	\$443,699	\$819,953	\$376,254	84.8%
Total Sales	\$8,285,025	\$2,670,856	(\$625,000)	\$2,045,856	\$4,157,403	\$6,239,169	\$2,081,766	50.1%

3 4	VI	. WASTEWATER COST OF SERVICE STUDIES, REVENUE ALLOCATION, AND RATE DESIGN
5	Q.	HOW MANY WASTEWATER COST OF SERVICE STUDIES DID THE
6		COMPANY PRESENT?
7	A.	York presented two wastewater studies. York prepared one study for its total
8		wastewater operations (Exhibit No. FVIII-WA) and prepared a separate study for its
9		total wastewater operations exclusive of its West Manheim acquisition (Exhibit No.
10		FVIII-WB). The study exclusive of West Manheim was prepared in compliance with
11		the Company's West Manheim acquisition Order in Docket No. A-2021-3025720.
12	Q.	WHICH WASTEWATER COST OF SERVICE STUDY DOES YORK
13		UTILIZE TO DEVELOP ITS PROPOSED ALLOCATION OF ITS
14		REQUESTED REVENUE INCREASE?
15	A.	York utilizes the cost of service study for its total wastewater operations inclusive of
16		West Manheim to develop its proposed revenue distribution.
17	Q.	WHAT METHODOLOGY DID THE COMPANY UTILIZE IN
18		PREPARING ITS WASTEWATER COST OF SERVICE STUDIES?
19	A.	Ms. Heppenstall used the functional cost allocation methodology described in
20		Financing and Charges for Wastewater Systems; Manual of Practice No. 27 published

Page 24

1		by the Water Environment Federation ("Manual of Practice No. 27"). This method
2		allocates the cost of providing wastewater service to customer classifications in
3		proportion to each classification's use of the service provider's facilities and services.
4		Costs are assigned to cost components using predominant operational purposes as cost-
5		causative factors. The functional cost allocation method is generally accepted as a
6		sound method for allocating the cost of wastewater service.
7	Q.	PLEASE IDENTIFY THE CUSTOMER CLASSES INCLUDED IN YORK'S
8		WASTEWATER STUDIES.
9	A.	Each wastewater cost of service study includes two customer classes: Residential and
10		Non-Residential.
11	Q.	ARE YOU RECOMMENDING ANY ADJUSTMENTS TO THE
12		WASTEWATER COST OF SERVICE STUDIES PREPARED BY YORK?
13	A.	I am not recommending any adjustments directly to the Company's wastewater studies.
14		However, as previously explained, I am proposing to modify the Company's proposal
15		to recover 32% of its wastewater cost of service, or revenue requirement, from water
16		service customers.
17	Q.	OTHER THAN REDUCING THE WASTEWATER REVENUE
18		REQUIREMENT ASSIGNED TO WATER SERVICE, ARE YOU
19		PROPOSING ANY CHANGES TO YORK'S PROPOSED REVENUE
20		ALLOCATIONS?
21	A.	No.

2 3	ADJUSTED TO REFLECT YOUR PROPOSED REVENUE
3	
	ALLOCATION?
A.	I recommend that the rates proposed by York for each class be proportionately
	increased to reflect the reduction in the wastewater revenue requirement assigned to
	water customers.
4 Q.	IF THE COMMISSION AUTHORIZES A TOTAL WASTEWATER
5	REVENUE REQUIREMENT THAT IS LESS THAN THE \$8.3 MILLION
6	REVENUE REQUIREMENT REQUESTED BY YORK, HOW SHOULD
7	THAT REDUCTION BE ALLOCATED AND REFLECTED IN THE
8	DESIGN OF RATES?
9 A.	If the Commission authorizes a total wastewater revenue requirement that is less than
10	the revenue requirement requested by York, I recommend that the reduction first be
11	applied to proportionately reduce by class the wastewater revenue requirement
12	assigned to water customers, and only if there is an amount remaining should it then be
13	proportionately applied to reduce the wastewater revenue requirement not assigned to
14	water customers. I also recommend that the rates proposed by York be proportionately
15	scaled back to reflect the final revenue requirement of each class.
16 Q.	DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

Yes, it does; however, I reserve the right to update this testimony as may be necessary.

OCA STATEMENT 4

BEFORE THE

PENNSYLVANIA PUBLIC UTILITIES COMMISSION

PENNSYLVANIA PUBLIC UTILITY	
COMMISSION)
) DOCKET NOS. R-2022-3031340 (WATER)
v.) R-2022-3032806 (WASTEWATER)
)
THE YORK WATER COMPANY)

SCHEDULES ACCOMPANYING THE DIRECT TESTIMONY OF

JEROME D. MIERZWA

ON BEHALF OF THE

PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

AUGUST 19, 2022

Schedule JDM-1 Page 1 of 4

THE YORK WATER COMPANY
Calculation of Class Maximum Day and Maximum Hour Extra Capacity Factors
Period June 2019 through May 2022

	Period	Residential	Commercial & Wholesale	Industrial
MAXIMUM DAY SUMMARY	June 2019 - May 2020	1.49	1.48	1.37
	June 2020 - May 2021	1.68	1.41	1.44
	June 2021 - May 2022	1.68	1.51	1.46
	Period Maximum	1.68	1.51	1.46
	Use	1.70	1.50	1.45
	Company	2.50	1.60	1.50
MAXIMUM HOUR SUMMARY				
	June 2019 - May 2020	2.48	2.46	1.83
	June 2020 - May 2021	2.78	2.33	1.91
	June 2021 - May 2022	2.79	2.50	1.94
	Period Maximum	2.79	2.50	1.94
	Use	2.80	2.50	1.95
	Company	4.50	3.30	2.70

THE YORK WATER COMPANY
Calculation of Class Maximum Day and Maximum Hour Extra Capacity Factors
Period June 2019 through May 2020

				J	Commercial &				
MONTHLY SALES			Residential	U	Wholesale		Industrial	В	Total
May 2020	Q		261,683,300		127,355,800		68,031,400		457,070,500
Apr 2020	O.		237,226,000		117,126,100		57,726,800		412,078,900
Mar 2020	0.		228,693,100		139,979,400		63,144,500		431,817,000
Feb 2020	0;		217,779,100		142,550,900		66,324,800		426,654,800
	0;		235,422,900		145,234,800		70,774,600		451,432,300
	6		236,136,500		150,155,900		72,231,600		458,524,000
	6		231,008,900		152,393,000		73,693,200		457,095,100
Oct 2019	6		241,863,700		157,976,400		77,834,400		477,674,500
Sep 2019	6		259,746,600		182,246,300		80,468,800		522,461,700
Aug 2019	6		256,464,900		180,210,700		83,409,800		520,085,400
Jul 2019	6		247,439,200		169,011,600		81,831,900		498,282,700
Jun 2019	6]		251,510,400		164,254,100		76,921,500		492,686,000
Total			2,904,974,600	,	1,828,495,000	-	872,393,300		5,605,862,900
MAXIMUM DAY EXT	MAXIMUM DAY EXTRA CAPACITY FACTOR								
Annual Da	Annual Daily Average		7,958,835		5,009,575		2,390,119		15,358,528
Maximum Month) Month	Мау	261,683,300	September	182,246,300	August	83,409,800		527,339,400
Average	Average Day Maximum Month	Мау	8,441,397	September	6,074,877	August	2,690,639		17,206,912
Maximum	Maximum Month/Average Day Factor		1.06		1.21		1.13		
System M System A Non-Reve Adjusted Actual Ms	System Maximum Month System Average Day in Maximum Month Non-Revenue Producing Water Adjustment Adjusted Average Day in Maximum Month Actual Maximum Day							September 30	522,461,700 17,415,390 24% 23,002,361 24,000,000
System M	System Maximum Day/Maximum Month Day Ratio		1.04		1.04		1.04		1.04
Weekly L	Weekly Usage Adjustment		1.35		1.17		1.17		
Calculate	Calculated Maximum Day Extra Capacity Factor		1.49		1.48		1.37		
MAXIMUM HOUR EX	MAXIMUM HOUR EXTRA CAPACITY FACTOR								
Estimated	Estimated Maximum Hour to Maximum Day Ratio		1.66		1.66		1.33		
Calculate	Calculated Maximum Hour Extra Capacity Factor		2.48		2.46		1.83		

THE YORK WATER COMPANY Calculation of Class Maximum Day and Maximum Hour Extra Capacity Factors Period June 2020 through May 2021

					Commercial &				
MONTHLY SALES	ALES		Residential		Wholesale		Industrial	,J	Total
May	2021		255,454,800		165,411,400		76,810,200		497,676,400
Apr	2021		255,728,400		161,570,600		78,117,100		495,416,100
Mar	2021		223,128,000		138,281,500		64,457,700		425,867,200
Feb	2021		247,390,900		148,249,200		71,293,600		466,933,700
Jan	2021		241,150,100		130,302,000		70,012,200		441,464,300
Dec	2020		244,371,600		138,449,001		65,698,300		448,518,901
Nov	2020		242,755,200		147,925,100		72,738,200		463,418,500
Oct	2020		246,084,800		155,675,900		75,150,600		476,911,300
Sep	2020		251,931,400		158,809,900		69,495,300		480,236,600
Aug	2020		277,482,800		169,408,400		82,462,000		529,353,200
In	2020		288,922,400		174,956,400		86,312,400		550,191,200
Jun	2020		290,835,000		154,244,200		77,648,600		522,727,800
۴	Total		3,065,235,400		1,843,283,601		890,196,200		5,798,715,201
MAXIMUM	MAXIMUM DAY EXTRA CAPACITY FACTOR								
V	Annual Daily Average		8,397,905		5,050,092		2,438,894		15,886,891
2	Maximum Month	June	290,835,000	July	174,956,400	ylut	86,312,400		552,103,800
۷	Average Day Maximum Month	June	9,694,500	ylul	5,643,755	ylut	2,784,271		18,122,526
2	Maximum Month/Average Day Factor		1.15		1.12		1.14		
υυΣ ζ ζ ζ	System Maximum Month System Average Day in Maximum Month Non-Revenue Producing Water Adjustment Adjusted Average Day in Maximum Month Actual Maximum Day							July 31	550,191,200 17,748,103 23% 23,002,700 24,730,000
ν'n	System Maximum Day/Maximum Month Day Ratio		1.08		1.08		1.08		1.08
_	Weekly Usage Adjustment		1.35		1.17		1.17		
J	Calculated Maximum Day Extra Capacity Factor		1.68		1.41		1.44		
MAXIMUM H	MAXIMUM HOUR EXTRA CAPACITY FACTOR								
ш́	Estimated Maximum Hour to Maximum Day Ratio		1.66		1.66		1.33		
5	Calculated Maximum HourDay Extra Capacity Factor		2.78		2.33		1.91		

THE YORK WATER COMPANY Calculation of Class Maximum Day and Maximum Hour Extra Capacity Factors Period June 2021 through May 2022

					Commercial &				
MONTHLY SALES	.Y SALES	1	Residential	1	Wholesale		Industrial	1	Total
May	2022		234,287,604		155,431,400		75,726,200		465,445,204
Apr	2022		248,006,200		164,664,800		76,620,000		489,291,000
Mar	2022		236,058,320		155,787,689		72,340,300		464,186,309
Feb	2022		227,646,958		145,024,100		66,906,000		439,577,058
Jan	2022		245,606,222		145,217,911		69,778,100		460,602,233
Dec	2021		252,801,700		164,009,200		78,074,600		494,885,500
Nov	2021		237,187,000		154,527,000		73,135,100		464,849,100
oct	2021		249,876,200		169,562,900		84,177,000		503,616,100
Sep	2021		235,057,700		157,315,900		73,910,100		466,283,700
Aug	2021		277,729,400		186,786,400		84,551,300		549,067,100
'n	2021		269,508,400		176,836,000		85,959,100		532,303,500
Jun	2021		261,777,400		162,089,000		77,344,601		501,211,001
	Total		2,975,543,104		1,937,252,300		918,522,401		5,831,317,805
MAXIMU	MAXIMUM DAY EXTRA CAPACITY FACTOR								
	Annual Daily Average		8,152,173		5,307,541		2,516,500		15,976,213
	Maximum Month	August	277,729,400	August	186,786,400	ylul	85,959,100		550,474,900
	Average Day Maximum Month	August	8,959,013	August	6,025,368	July	2,772,874		17,757,255
	Maximum Month/Average Day Factor		1.10		1.14		1.10		
	System Maximum Month System Average Day in Maximum Month Non-Revenue Producing Water Adjustment Adjusted Average Day in Maximum Month Actual Maximum Day System Maximum Day/Maximum Month Day Ratio		1.13		1.13		1.13	August 31	549,067,100 17,711,842 21% 22,480,348 25,500,000 1.13
	Weekly Usage Adjustment		1.35		1.17		1.17		
	Calculated Maximum Day Extra Capacity Factor		1.68		1.51		1.46		
MAXIMU	MAXIMUM HOUR EXTRA CAPACITY FACTOR								
	Estimated Maximum Hour to Maximum Day Ratio		1.66		1.66		1.33		

1.94

2.50

2.79

Calculated Maximum Hour Extra Capacity Factor

THE YORK WATER COMPANY
WATER OPERATIONS
DEVELOPMENT OF RATE OF RETURN BY CUSTOMER CLASSIFICATION
UNDER PROPOSED RATES

				Gravity System					Repumping System	System	
	Cost of				Fire F	Fire Protection				Fire Protection	tection
Item	Service	Residential	Commercial	Industrial	Private	Public	Residential	Commercial	Industrial	Private	Public
(1)	(2)	(3)	(4)	(2)	(9)	(7)	(8)	(6)	(10)	(11)	(12)
Revenues From Sales Other Revenues	\$70,728,799 1,142,025	\$13,115,410	\$ 5,189,388 83,025	\$ 1,278,888 20,899	\$ 943,743	\$ 323,794 22,612	\$32,280,691	\$ 9,856,339	\$ 4,673,835	\$1,737,534 29,578	\$1,329,176 93,418
3. Total Operating Revenues	71,870,824	13,309,554	5,272,413	1,299,787	959,618	346,406	32,730,763	10,011,540	4,751,036	1,767,113	1,422,594
4. Less: Operating Expenses	40,280,974	8,484,101	3,243,590	769,271	476,906	(505,423)	20,742,725	5,810,083	2,566,720	795,878	(2,103,122)
5. Return And Income Taxes (Ln 3 - Ln 4)	31,589,850	4,825,453	2,028,823	530,517	482,712	851,829	11,988,038	4,201,458	2,184,316	971,234	3,525,716
6. Less: Taxable Exclusions (Factor 24)	6,200,718	874,301	446,452	117,194	102,932	170,520	2,177,072	923,287	471,875	209,584	706,882
7. Taxable Income	25,389,132	3,951,152	1,582,372	413,323	379,780	681,309	9,810,966	3,278,171	1,712,441	761,650	2,818,834
8. Less: Income Taxes (Tax. Inc.)	3,769,035	586,551	234,904	61,358	56,379	101,141	1,456,445	486,647	254,213	113,068	418,458
9. Net Return (Line 5 - Line 8)	27,820,815	4,238,902	1,793,919	469,159	426,333	750,688	10,531,593	3,714,811	1,930,103	858,166	3,107,258
10. Original Cost Measure Of Value	350,621,588	49,427,873	25,228,634	6,614,842	5,831,852	9,639,712	123,119,063	52,216,339	26,690,145	11,866,115	39,987,732
11. Rate Of Return, Percent	7.93	8.58	7.11	7.09	7.31	7.79	8.55	7.11	7.23	7.23	77.7
12. Relative Rate Of Return	1.00	1.08	0.90	0.89	0.92	0.98	1.08	0.90	0.91	0.91	0.98

THE YORK WATER COMPANY WATER OPERATIONS

CALCULATION OF DIRECT CUSTOMER COSTS FOR A 5/8-INCH METER PER MONTH

Cost Function (1)	Di ——	rect Cost of Service* (2)	Num	ber of Units (3)	Direct Cost er Unit (4)	Co Ui	Direct pst Per nit Per Month (5)
Meters	\$	2,650,167	88,340	5/8-inch Equivalents	\$ 30.00	\$	2.50
Services		7,768,312	75,193	3/4-inch Equivalents	103.31		8.61
Billing and Collecting & Meter Reading	9-	2,779,080	854,579	Bills	3.25		3.25
Subtotal		13,197,559					14.36
Unrecovered Public Fire	8	5,236,326	88,340	5/8-inch Equivalents	59.27	_	4.94
Total	\$	18,433,885				\$	19.30

THE YORK WATER COMPANY WATER OPERATIONS ANALYSIS OF DIRECT CUSTOMER COSTS

				Alloc	ated	to Customer	Cost	s
			_	Alloc	ateu	to oustorner	0031	Billing,
		Total					C	collecting &
Description		Account		Meters	_ ;	Services	Me	ter Reading
(1)		(2)		(3)	8	(4)		(5)
Operation and Maintenance Expenses Direct Labor:								
Operation of Meters	\$	135,526	\$	135,526				
Operation of Meters Operation of Services	Ψ	344,635	Ψ	133,320		344,635		
Maintenance of Meters		58,737		58,737		344,033		
Maintenance of Meters Maintenance of Services		137,734		30,737	\$	137,734		
Maintenance of Convices		101,704			Ψ	107,704		
Supplies and Expenses								
Operation of Meters		38,021		38,021				
Operation of Services		98,856				98,856		
Maintenance of Meters		38,020		38,020				
Maintenance of Services		989,253				989,253		
A								
Customer Accounting		4 407 604					•	4 407 604
Billing and Collecting Labor		1,107,624					\$	1,107,624
Meter Reading Labor		67,137						67,137
Billing and Collecting Supplies		897,385						897,385
Meter Reading Supplies		44,833						44,833
Bad Debt Expense		358,011						
Other Directly Realted O&M Costs								
T & D Operations & Supervision		682,399		195,972		486,427		
T & D Maintenance Supervision		176,811		50,777		126,034		
Pensions and Benefits		362,247		49,883		145,890		166,475
Worker's Compensation		63,345		8,723		25,511		29,111
Load Growth Adjustment - Customer		42,330		0,720		20,011		42,330
General Price Level Adj.		452,302		48,505		204,968		198,829
		.02,002		10,000		201,000		100,020
Subtotal O & M Expenses		6,095,206		624,163		2,559,309		2,553,724
Department of the Control								
Depreciation Expense		055.004		055 004				
Meters		955,891		955,891		4 700 007		
Services		1,790,837				1,790,837		
Other Directly Related Facilities								
Office Buildings		-						
Stores, Shop & Garage		_						
Furniture & Equipment		-						
Enterprise Software Transportation Equipment		141,417		15,166		64,086		62,166
Subtotal Depreciation	_	2,888,145	_	971,057	_	1,854,922	_	62,166
		_,000,110		01 1,001		1,001,022		02,100
Taxes, Other Than Income								
PUC & OCA Assessments		122,429		21,725		67,031		33,674
Payroll Taxes		284,754	_	39,212		114,681		130,862
Total Taxes, Other Than Income		407,184		60,937		181,711		164,536
Rate Base:								
Meters		13,891,033	1	3,891,033				
Services		14,384,467	'	0,001,000	4	4,384,467		
Other Directly Related Facilities		17,007,707			7	4,004,407		
Office Buildings								
Stores, Shop & Garage								
Furniture & Equipment		-						
Enterprise Software		_						
Transportation Equipment		374,848		40,199		169,869		164,781
Deferred Taxes		(6,193,990)	1	1,412,199)	1	4,600,060)		(181,731)
Subtotal	$\overline{}$	52,456,358		2,519,032		9,954,276	B	
Return & Income Taxes,		2,400,000	- 1	2,010,002	3	0,004,210		(16,950)
as a Percent of Rate Base @ 7.94%		4,165,035		994,011		3,172,370		(1,346)
ac a resolution rate base to 7.3470		4,100,000	_	004,011	2	0,112,010	0	(1,040)
Total O & M, Depreciation, Return								
and Taxes	\$ 1	13,555,570	\$	2,650,167	\$	7,768,312	\$	2,779,080

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

Docket Nos. R-2022-3031340 (Water)

v. R-2022-3032806 (Wastewater)

•

The York Water Company

VERIFICATION

I, Jerome D. Mierzwa, hereby state that the facts set forth in my Direct Testimony, OCA Statement 4, are true and correct (or are true and correct to the best of my knowledge, information, and belief) and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: August 19, 2022

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ignature: Jume V

Consultant Address: Exeter Associates, Inc.

10480 Little Patuxent Parkway

Suite 300

Columbia, MD 21044-3575

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

: Docket Nos. R-2022-3031340 (Water)

v. : R-2022-3032806 (WW)

:

The York Water Company

DIRECT TESTIMONY

OF

BARBARA R. ALEXANDER

Barbara Alexander Consulting LLC

ON BEHALF OF THE

OFFICE OF CONSUMER ADVOCATE

August 22, 2022

1	I.	INTRODUCTION
2 3	Q.	PLEASE STATE YOUR NAME, ADDRESS AND OCCUPATION.
4	A.	My name is Barbara R. Alexander. I am the sole member of Barbara Alexander
5		Consulting LLC. My address is 83 Wedgewood Dr., Winthrop, ME 04364. I appear in
6		this case as a witness on behalf of the Office of Consumer Advocate (OCA).
7	Q.	PLEASE DESCRIBE YOUR BACKGROUND AND QUALIFICATIONS.
8	A.	I have a 30-year experience as an expert in consumer protection, service quality, and low
9		income programs for public utilities and the regulation of retail alternative energy
10		suppliers in markets that have adopted restructuring for electric and/or natural gas supply
11		service. I was the Director of the Consumer Assistance Division for the Maine Public
12		Utilities Commission from 1986-1996 and have operated my own consulting practice for
13		public advocates and consumers since that time. I have testified in over 30 U.S. and
14		Canadian jurisdictions, including testimony before the Pennsylvania Public Utility
15		Commission in many proceedings. My C.V. attached to this testimony as Exhibit BA-1
16		lists all my publications and testimony associated with my consulting practice.
17	Q.	HAVE YOU PREVIOUSLY FILED TESTIMONY BEFORE THE PENNSYLVANIA
18		PUBLIC UTILITY COMMISSION?
19	A.	Yes. I have filed testimony on behalf of the OCA in many investigations, base rate
20		proceedings, mergers and acquisitions, and default service proceedings on issues relating
21		to customer service, service quality and reliability of service, low income programs, and
22		retail market programs. In particular, I have filed testimony as an expert witness on

behalf of the OCA in many recent base rate and regulatory compliance proceedings by

1		Pennsylvania water and wastewater utilities, including Pittsburgh Water and Sewer
2		Authority, Aqua Pennsylvania, and Pennsylvania American Water Company.
3	Q.	HAVE YOU PREVIOUSLY FILED TESTIMONY REGARDING YORK WATER?
4	A.	No.
5	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
6	A.	I am filing Testimony on behalf of the OCA to address issues relating to the adequacy
7		and reasonableness of certain aspects of York Water Company's ("York Water")
8		customer service performance, compliance with the Commission's consumer protection
9		requirements, and its low income programs. My testimony addresses York Water's water
10		and wastewater services. These issues are important by themselves, but particularly so in
11		this case given the magnitude of York Water's proposed rate increases for water and
12		wastewater services.
13	Q.	PLEASE SUMMARIZE YORK WATER'S RATE INCREASE PROPOSALS.
14	A.	York Water provides water service to more than 70,440 customers and wastewater
15		service to 3,357 customers. The Company provides water service in parts of York and
16		Adams Counties and wastewater service in parts of York, Franklin, and Adams Counties.
17		Under the Company's rate proposal, the typical monthly water bill for residential gravity
18		customers using 4,525 gallons per month would increase from \$40.54 to \$53.02 per
19		month, or by 30.8%. The typical water bill for residential repumped customers using
20		3,784 gallons of water per month would increase from \$48.89 to \$62.27 per month, or by
21		27.4%. According to the customer notices included in York's filing, under the
22		Company's proposal, the typical wastewater bill for residential customers would increase
23		as follows:

Area	Usage	Present Rate	Proposed Rate	\$ Increase	% Increase
Asbury Pointe Subdivision, East Prospect Borough, and Lower Windsor Area	3,586 gallons per month	\$62.50	\$80.55	\$18.05	28.9%
Felton Borough	Per month per dwelling unit	\$79.50	\$80.55	\$1.05	1.3%
Jacobus Borough	3,570 gallons per month	\$55.00	\$80.55	\$25.55	46.5%
Letterkenny Township	Per month per dwelling unit	\$45.00	\$80.55	\$35.55	79.0%
Straban Township Area	3,465 gallons per month	\$62.50	\$80.55	\$18.05	28.9%
West Manheim Township	3,333 gallons per month	\$61.67	\$75.87	\$14.20	23.0%
West York Borough	Per month per dwelling unit	\$32.71	\$55.61	\$22.90	70.0%

- York also proposes to increase the 5/8-inch water customer charge (for gravity and repumped customers) from \$16.25 to \$20.71 per month, which is an increase of 27.4%.
- 6 Q. DID YORK WATER PROPOSE ANY CUSTOMER SERVICE PERFORMANCE
- 7 STANDARDS AS PART OF ITS BASE RATE CASE?
- 8 A. No. York Water did not propose any specific performance standards for customer service
- 9 with its proposed rate increase. Nor did York Water link its proposal for a higher rate of
- return to any specific customer service performance measurement.

1	Q.	DID YORK WATER DESCRIBE OR DISCUSS ITS CUSTOMER SERVICE
2		PERFORMANCE IN ITS BASE RATE FILING?
3	A.	Yes. Mr. Hand's testimony referred to "exceptional customer service" in support of York
4		Water's base rate filing. ¹ Mr. Hand justified this description based on the customer
5		complaint rates published by the Commission's Bureau of Consumer Services as
6		compared to other water utilities, the low rates charged by York Water compared to other
7		water utilities, and its acquisition of troubled water and wastewater utilities. In addition,
8		Mr. Hand referenced a Customer Attitude Survey that measures customer satisfaction and
9		other metrics. ²
10	Q.	DOES YORK WATER SEEK A HIGHER RATE OF RETURN AS A REWARD FOR
11		"EXEMPLARY PERFORMANCE?"
12	A.	Yes. The Company's proposed rate of return includes 0.25% in recognition of the
13		performance of its management. ³
14	Q.	PLEASE DESCRIBE HOW YOUR TESTIMONY IS ORGANIZED.
15	A.	My testimony will examine certain aspects of York Water's quality of service and
16		customer service performance as part of the Company's proposed rate increase. ⁴ My
17		review and testimony also address the program design and implementation of York
18		Water's low income bill payment assistance programs. I will then make
19		recommendations for improvement and reforms in several areas that should be ordered as

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part of this base rate case. I recommend that the Commission require York Water to meet

¹ York Water Statement No. 1, page 8, lines 3-4 and page 23, lines 9-10.

² York Water Response to OCA-III-2.

³ York Water Response to OCA-III-28.

⁴ My testimony does not address issues relating to York Water's water quality regulated by Pennsylvania's Department of Environmental Protection or the design and operation of the water distribution and sewer collection system and whether the water and wastewater service meet the technical and operational standards required by the Commission.

1		and/or gradually improve its quality of service and customer service performance by		
2		establishing specific expectations and reporting requirements. I also provide my review		
3		of compliance with the Commission's customer service regulations found at 52 Pa. Code		
4		§ 56.1 et seq. ("Chapter 56") and consumer protection issues as reflected in customer		
5		complaint records and York Water's internal training materials, and give my opinion as		
6		to how these conclusions and recommendations should be considered in light of York		
7		Water's request for a reward component for its rate of return. Finally, I will recommend		
8		program design reforms and increased participation metrics for York Water's low income		
9		programs.		
10 11	II.	YORK WATER'S CUSTOMER SERVICE PERFORMANCE		
12	Q.	WHAT ISSUES WILL YOU EXAMINE WITH RESPECT TO YORK WATER'S		
13		QUALITY OF SERVICE AND CUSTOMER SERVICE PERFORMANCE?		
14	A.	I will present information on York Water's performance in the following areas:		
15		 Call Center Performance 		
16		 Customer Complaint Response 		
17		 Compliance with Chapter 56's Payment Arrangement policies 		
18		 Compliance with Chapter 56's Termination of Service policies 		
19		 Low Income program design and expenditures 		
20		 York Water's Current Tariffs 		
21	Q.	WHAT IS THE SOURCE OF YOUR DATA ON THE ABOVE INDICATORS FOR		
22		CUSTOMER SERVICE PERFORMANCE?		
23	A.	My information concerning York Water's low income programs, and customer service		
24		performance is based on York Water's base rate case filing, its responses to data requests Direct Testimony of Barbara R. Alexander On Behalf of the Office of Consumer Advocate		

1		in this proceeding, and the Commission's publications on customer service performance
2		and compliance with the applicable credit and collection regulations found in Chapter 56.
3	Q.	PLEASE DISCUSS THE PERFORMANCE OF YORK WATER'S CUSTOMER CALL
4		CENTER.
5	A.	The operation of its call center is crucial to the Company's ability to deliver a reasonable
6		level of customer service and to offer the consumer protections and complaint handling
7		requirements reflected in the Commission's regulations. York Water relies on a small
8		customer call center as the main method by which customers can communicate
9		individually with York Water. There is only one office, located in downtown York,
10		where customers can conduct business in person. ⁵ Customers can pay bills via the U.S.
11		Mail, the York Water online web portal, or via the interactive voice response system, ⁶
12		however, only 14% of its customers are enrolled in automatic bill pay. ⁷ The staffing
13		level consists of 10 full time customer service representatives. ⁸
14	Q.	PLEASE DISCUSS THE PERFORMANCE RESULTS OF THE YORK WATER CALL
15		CENTER FOR PENNSYLVANIA CUSTOMERS.
16	A.	I attach the York Water customer call center data with York Water's calculations of the
17		annual average results as Exhibit BA-2.9
18		These results reflect extremely poor performance in terms of the Company's
19		ability to answer calls in a timely manner and avoid a significant abandonment rate (the
20		percentage of calls in the queue to be answered by a customer service representative that

York Water Response to OCA-III-27.
 York Water Response to OCA-III-26 states that customers are not charged additional fees when paying their bills in any manner.

York Water Response to OCA-III-24.
 York Water Response to OCA-III-11.
 York Water Response to OCA-III-10 and attachments.

are abandoned due to a long wait time). This level of performance has generally deteriorated in recent years. The following is a summary of the key indicators:

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Year	Percent Calls	Abandonment	Average Speed
	Answered in 30	Rate	of Answer
	Seconds		(minutes)
2020	66.83%	4.94%	1:03
2021	29.47%	14.57%	4:28
2022 (Jan.	19.87%	18.13%	6:29
through May)			

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These results are not reasonable and significantly below what is reported by

Pennsylvania gas and electric utilities, where the typical performance is to answer 80% of

the calls within 30 seconds with an abandonment rate at or below 4%. 10 Most

importantly, these results reflect a continuing deterioration of service quality performance

beginning in 2021 and continuing through 2022 to date.

Furthermore, the annual averages mask a dramatic swing in call center performance. For example, in 2022 from January through May, 54% of the calls were not answered within 241 seconds (4 minutes). In September 2020 the abandonment rate was 10.80% of all calls. The same pattern was repeated in September 2021 when the abandonment rate was 20.62% and over 50% of the calls were not answered within 240 seconds.

The key variable in predicting reasonable versus unreasonable call center performance is the volume of calls and the number of available call center representatives

https://www.puc.pa.gov/media/1658/customer_service_performance_report2020.pdf

¹⁰ The Commission publishes an annual report on service quality performance by Pennsylvania gas and electric utilities. The typical performance is to answer over 80% of calls within 30 seconds and experience an annual abandonment rate of 4% or less as reflected in the data for 2020. This data is not published for water utilities regulated by the Commission. See,

1		on hand to answer the calls. Performance can be improved with better prediction of call
2		volume and ensuring sufficiently trained personnel are available to respond to call
3		volume at predicted high call volume days and times.
4	Q.	DOES YORK WATER HAVE INTERNAL PERFORMANCE OBJECTIVES FOR ITS
5		CALL CENTER?
6	A.	No. When asked how the Company monitors call center performance with internal
7		performance standards or targets, the response stated that the utility "strives to answer all
8		customer calls in a timely manner."11 Nor has York Water conducted an evaluation of its
9		call center performance. 12
10	Q.	HAS YORK WATER PROVIDED ANY REASON FOR THE POOR PERFORMANCE
11		OF ITS CALL CENTER?
12	A.	Yes. York Water blames this deterioration in performance "in part" on its agreement to
13		collect the City of York wastewater and refuse bills, a policy that was terminated as of
14		July 2022: "Therefore, the Company expects the call volume and hold time figures to
15		improve going forward."13 However, York Water did not provide any other explanation
16		beyond the stated reason for its poor call center performance. I attach York Water's
17		response to OCA-VII-13 as Exhibit BA-3.
18	Q.	IS THIS A REASONABLE RESPONSE TO THE DETERIORATION IN CALL
19		CENTER PERFORMANCE?
20	A.	No. While it is entirely possible that the call center performance reflects the Company's
21		decision to collect non-York Water bills (and I acknowledge a 1,500 increase in calls in

¹¹ York Water Response to OCA-VII-14. 12 York Water Response to OCA-III-14. 13 York Water Response to OCA-VII-13.

1		2021 compared to 2020), it is York Water's obligation to take the necessary steps to
2		ensure a reasonable level of service quality performance. Certainly, jurisdictional water
3		and wastewater customers should not suffer significant deterioration of customer service
4		because of the Company's decision to bill for and collect non-jurisdictional services.
5		Over the period of January 2021 through May 2022 there is no indication of the
6		necessary changes to halt the obvious trend in deterioration of performance. And, the
7		lack of any internal performance standards or measures of reasonable performance, I
8		cannot accept this response as sufficient.
9	Q.	WHAT DO YOU RECOMMEND?
10	A.	I recommend that York Water be required to significantly improve its call center
11		performance to meet the standard performance results of answering 80% of the calls with
12		30 seconds and meeting an abandonment rate of 4% or less. This improvement should be
13		monitored for compliance as a condition of any rate increase.

1	Q.	TURNING TO HOW YORK WATER HANDLES CUSTOMER COMPLAINTS,
2		PLEASE DISCUSS THE REGULATORY BASIS FOR YOUR ANALYSIS.
3	A.	Every Pennsylvania public utility is required to educate customers about how to register
4		informal and formal complaints filed with the Commission as a result of a customer's
5		dissatisfaction with the utility's response to billing and other customer service disputes. 14
6		Informal complaints are handled by the Commission's Bureau of Consumer Services
7		(BCS) and formal complaints are addressed by the Commission's Office of
8		Administrative Law Judge. Utilities also receive "disputes" directly from customers and
9		are obligated to investigate and respond to those issues or indications of dissatisfaction.
10		Customer complaints typically form a hierarchy or pyramid from a large volume of
11		disputes to a smaller group of informal complaints to the BCS and a relatively smaller
12		number of formal complaints filed with the Commission. Tracking and evaluating
13		disputes handled by the utility and informal or formal complaints handled by BCS are
14		key to ensuring ongoing improvements in customer service because that evaluation is
15		likely to spot the "red flag" that indicates a systemic issue or concern that requires
16		management's attention and, in some cases, a change in policy or procedure. In addition,

of course, this type of evaluation may also identify violations of the Commission's

regulations. Public utilities are required to keep records of customer disputes. 15

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¹⁴ York Water's Customer Rights and Responsibility Notice is available on its website and includes the required information about disputing bills or service:

You have the right to question or dispute any billing or service action of the company. You should tell the company of the problem as soon as it occurs. This gives the company the opportunity to resolve the matter with you. If you do not contact the company first, the Commission may instruct you to do so before accepting an informal complaint from you. See, https://www.yorkwater.com/wpcontent/uploads/knowyourrights.pdf

¹⁵ 52 Pa. Code § **56.432. Record maintenance.**

1		The Commission's Bureau of Consumer Services publishes a quarterly Consumer
2		Activities and Report Evaluation for Pennsylvania electric, gas, telephone, and water
3		utilities. 16 These reports typically include historical information to allow for a trend
4		analysis.
5	Q.	HOW DOES YORK WATER MONITOR AND RESPOND TO CUSTOMER
6		COMPLAINT TRENDS AND THESE BCS REPORTS?
7	A.	York Water does not keep a data base or log of customer disputes ¹⁷ and has never done a
8		root cause analysis of customer complaints. 18 When asked how customer disputes and
9		complaints are monitored or evaluated to determine trends or issues that need attention,
10		the Company states, "Trends in internal customer complaints and disputes are monitored
11		daily by management. Management reviews incoming customer emails and checks in
12		frequently with call center staff to identify and address potential issues." ¹⁹ However,
13		York Water is unable to identify any specific review process or action taken.
14	Q.	DO YORK WATER'S TRAINING MATERIALS INCLUDE ANY INFORMATION
15		ON HOW TO RECOGNIZE A CUSTOMER DISPUTE OR TAKE ACTION IN
16		RESPONSE TO A DISPUTE?
17	A.	No. These materials include a table of contents and an outline of the training topics that

available for examination by the Commission or its staff. Information to be maintained includes the following:

⁽¹⁾ The payment performance of each of its customers.

⁽²⁾ The number of payment agreements made by the public utility company and a synopsis of the terms, conditions and standards upon which agreements were made.

⁽³⁾ The number of service terminations and reconnections.

⁽⁴⁾ Communications to or from individual customers regarding interruptions, discontinuances, terminations and reconnections of service, including the name and address of the customer, the date and character of the dispute or complaint and the adjustment or disposal made of the matter.

¹⁶ http://www.puc.state.pa.us/filing resources/consumer activities report evaluation.aspx. This link provides access to the historical annual and quarterly reports cited in my testimony.

¹⁷ York Water Response to OCA-VII-25.

¹⁸ York Water Response to OCA-III-36.

¹⁹ York Water Response to OCA-III-6.

1	does not identify disputes or complaints as a training topic.	I attach these documents as

2 Exhibit BA-4.

3 Q. DOES YORK WATER HAVE ANY INTERNAL COMPLAINT (DISPUTE)

4 PERFORMANCE STANDARDS?

- 5 A. No. York Water relies on its low incidence of BCS complaints and violations as
- 6 compared to larger Pennsylvania water utilities.
- 7 Q. PLEASE DISCUSS YORK WATER'S COMMUNICATIONS FROM BCS.
- 8 A. York Water was the subject of a Final Order in response to a Formal Complaint filed by a
- 9 customer that resulted in a civil penalty of \$1,000 due to their failure to provide
- reasonable service in violation of Section 1501 of the Public Utility Code. ²¹ This
- 11 complaint found that York Water failed to provide adequate service in responding to a
- customer's leak report. In June 2022, York Water was notified by BCS of a verified
- infraction of Chapter 56.191(c)(2)(i) in which a customer was required to make payment
- in full as a condition of restoration without the criteria associated with prior payment
- plans being met to justify such a demand. 22 When asked to describe the internal actions
- undertaken in response to the BCS notice, York Water stated that it conducted a review
- of its internal policies and agreed to make certain reforms going forward with regard to
- implementing the criteria of Chapter 56 with regard to restoration of service and

²⁰ York Water Response to OCA=III-12, Attachments CS-01 CSR Training Binder Order of Contents and CS-01 Customer Service Training Outline. The other training materials provide specific information on Sewer, Payments (the Company's payment portal), Payment Agreements, Oracle (the database used to record customer information), Miscellaneous, Meter Info, How Tos, Collections, Billing, and Apps and Forms. None of these materials address how to identify a customer dispute or complaint.

²¹ York Water Response to OCA-III-8, Attachment A.

²² York Water Response to OCA-III-8, Attachment B.

- 1 communicate with customers about the reduced restoration terms.²³ York Water's 2 current training materials reflect this obligation for reduced restoration terms.
- 3 Q. WHAT IS YOUR RECOMMENDATION WITH RESPECT TO CUSTOMER
- 4 COMPLAINT HANDLING IN THIS RATE CASE?
- 5 A. I recommend that York Water be required to adopt revised and updated training materials 6 and revisions to its database to ensure that disputes and complaints are identified, tracked, 7 and evaluated on a regular basis. In addition to the Complaint Log that OCA witness 8 Terry Fought recommends, York Water should revise its current database system to 9 identify a dispute and track its resolution through the process of management review and 10 resolution. Customer service representatives should be trained to recognize a dispute and 11 identify it in the database for tracking and resolution. The fact that York Water's policies 12 are deficient in identifying customer disputes and complaints may explain why York Water's complaint ratio is lower compared to other Pennsylvania water utilities. 13
- Q. WHAT IS THE STATUS OF THE TRAINING OF CUSTOMER REPRESENTATIVES
 FOR PENNSYLVANIA-SPECIFIC REGULATIONS AND CUSTOMER
 PROTECTIONS?
 - A. York Water's training programs do not include many key details that are important to ensure that residential customers are provided with the rights and remedies set forth in Chapter 56. For example, the training materials for payment agreements are primarily aimed at filling in the proper fields in the database and lack any substantive discussion on engaging the customer in a discussion of the individual circumstances that would lead to a negotiated payment plan that is workable or affordable. While one page of the training

²³ York Water Response to OCA-VII-11.

includes a chart showing four "levels" of payment agreements based on income and other life circumstances, there is no training on how to solicit this information from customers or enter the information in the database. In fact, York Water is not able to distinguish the various type of payment plans it has granted and has never done an analysis of whether its payment plan policies are effective. ²⁴ I attach these data responses as Exhibit BA-5. Another example is that the training materials do not include any discussion of a customer's rights when they are covered by a Protection from Abuse Order even though the termination notices include this customer information.

- 1 O. WHAT IS YOUR RECOMMENDATION WITH REGARD TO YORK WATER'S
- 2 INTERNAL TRAINING MATERIALS AND OVERSIGHT RESPONSIBILITIES TO
- 3 ENSURE COMPLIANCE WITH CHAPTER 56?
- 4 A. I recommend that York Water undertake a review and reform of its training materials and
- 5 oversight policies to ensure a proper level of detail to inform customer service
- 6 representatives and customers about the rights, remedies, and responsibilities set forth in
- 7 Chapter 56. The current training program is insufficient and inadequate, particularly
- 8 when considered in light of the failure to properly identify, track and resolve customer
- 9 disputes and complaints.
- 10 O. HAVE YOU REVIEWED YORK WATER'S TERMINATION PROCEDURES?
- 11 A. Yes. The volume of termination notices by York Water increased dramatically in
- 2021 and again recorded a significant increase in 2022 compared to 2021. 25 I attach this
- data response as Exhibit BA-6. It is reasonable to assume that this trend in 2021 is due in
- part to the end of the COVID 19 pandemic protections. However, the Company alleges

²⁴ York Water Response to OCA-III-38 and OCA-III-40.

²⁵ York Water Response to OCA-III-21, Attachment.

that this increased trend toward terminations in late 2021 and early 2022 is due in part to
York Water's agreement to bill and collect charges for the City of York for wastewater
and refuse service. ²⁶ York Water states that the volume of termination notices did not
result in actual terminations due to the "direction of the City of York." I attach these
data responses as Exhibit BA-7. In fact, while over 4,500 notices were issued in January
through May 2022, less than 40 actual terminations of service occurred during this
timeframe. This pattern raises a number of serious concerns.

Q. PLEASE EXPLAIN YOUR CONCERNS ABOUT YORK WATER'S ISSUANCE OF
 TERMINATION NOTICES ON BEHALF OF THE CITY OF YORK.

I understand that the Pennsylvania Water Services Act allows a water utility to collect unpaid bills for wastewater or sewer service provided by a municipality.²⁸ This statute also requires the billing agent, York Water, to separately set forth the charges from the municipality on its bills, a requirement that is not clear that York Water has implemented. However, there is no authority for any water utility to collect "refuse" charges on behalf of a municipality,²⁹ and, critically, the Commission's regulations prohibit termination of service for non-basic charges such as these.³⁰ These potential legal matters should be investigated further by the Commission. Second, the pattern of issuing thousands of

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We are aware of the inactive account number message City of York refuse customers are receiving when attempting to pay their refuse bill online or over the phone. We are working to correct this for customers and we apologize for this inconvenience. If you would like to make a payment immediately, we are able to process checks in person and accept cash in person at our Downtown York headquarters at 130 East Market Street. City of York refuse customers can also be set up on automatic payments through our TAP program, which will use banking details to process the amount due on the due dates.

https://www.yorkwater.com/city-of-york-refuse-payments/ [Site visited 8/10/2022]

²⁶ York Water Response to OCA-VII-8.

²⁷ Ibid.

²⁸ Act of Apr. 14, 2006, P.L. 85, No. 28.

²⁹ York Water's website contains the following notice:

³⁰ 52 Pa Code § 56.83(3).

1		notices threatening termination of regulated water service every month and not pursuing
2		termination based on the "direction of the City of York," raises the potential for
3		noncompliance with a Chapter 56 directive that prohibits the issuance of termination
4		notices when termination is not intended to occur. ³¹
5	Q.	HAS YORK WATER HALTED ITS AGREEMENT TO BILL AND COLLECT FOR
6		CITY OF YORK WASTEWATER AND REFUSE CHARGES?
7	A.	Yes. York Water states that they terminated this arrangement as of July 2022. ³²
8		Although, York Water's website still references payment options for City of York refuse
9		service as noted above.
10	Q.	DOES YORK WATER ANALYZE ITS TERMINATION AND RECONNECTION
11		TRENDS?
12	A.	No. York Water does not track whether its termination notices are resolved with
13		payment or payment plan and does not track the notices not resolved but which remain
14		eligible for termination. ³³ I attach this data response as Exhibit BA-8.
15	Q.	HAVE YOU REVIEWED YORK WATER'S POLICIES TO IMPLEMENT THE
16		RIGHTS OF TENANTS WHEN THE PROPERTY OWNER OR LANDLORD FAILS
17		TO PAY THE BILL?
18	Q.	Yes. I have several concerns. First, when asked to document the policies and procedures
19		required to be implemented pursuant to the Discontinuance of Services to Leased
20		Premises Act and the Chapter 56 requirements governing termination of service to leased

³¹ 52 Pa. Code § **56.99.** Use of termination notice solely as collection device prohibited.

A public utility may not threaten to terminate service when it has no present intent to terminate service or when actual termination is prohibited under this chapter. Notice of the intent to terminate shall be used only as a warning that service will in fact be terminated in accordance with the procedures under this chapter, unless the customer or occupant remedies the situation which gave rise to the enforcement efforts of the public utility.

³² York Water Response to OCA-VII-8.

³³ York Water Response to OCA-III-21.

premises, York Water's responses generally reflect these requirements. ³⁴ However, there
are no training materials that summarize these requirements, 35 and thus no indication that
these policies are being properly implemented. Nor do the York Water tariffs reflect any
rules and regulations in this area. I attach York Water's response to this data request as
Exhibit BA-9. As a result, it is not clear how the responses to the data requests can be
verified as being implemented by the customer call center on a day-to-day basis. Second,
throughout these data responses York Water states that it "is in the process of reviewing
its existing practices," or states that revisions of its practices are being implemented. 36 I
attach these data responses as Exhibit BA-10. Finally, I am concerned about the policies
that are being implemented to determine if a property is vacant or not when a landlord
seeks to terminate service since, again, there is a lack of any explicit directive to
customer call center employees to require this information as a condition of pursuing
termination.
HAVE YOU REVIEWED YORK WATER'S TRAINING MATERIALS TO
IMPLEMENT THE OBLIGATION TO ATTEMPT PERSONAL CONTACT
"IMMEDIATELY PRIOR" TO TERMINATION OF SERVICE?
No. I am unable to do so since the request for this information directs me to the customer
service training materials that do not address field operations or how the technicians
handle personal contact with the customer or responsible adult prior to the termination of

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service.

 $^{^{34}}$ York Water Responses to OCA set XI included questions 1 through 16 relating to York Water's implementation of these requirements.

³⁵ York Water Response to OCA-XI-1.

³⁶ York Water Response to OCA-XI-5, XI-6, and XI-11.

1 Q		IN LIGHT (OF THE	DEFICIEN	NCIES IN	YORK	WATER'S	TRAINING	G MATERIALS
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2 WHAT DO YOU RECOMMEND?

- 3 A. I recommend that York Water develop training materials that correct these deficiencies
- 4 and submit updated and revised training materials as a condition of a rate increase
- 5 ordered in this proceeding.

6 III. YORK WATER'S ASSISTANCE PROGRAMS FOR LOW INCOME CUSTOMERS NEED SIGNIFICANT REFORM

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- 9 Q. PLEASE EXPLAIN YORK WATER'S LOW INCOME BILL PAYMENT
- 10 ASSISTANCE PROGRAMS.

11 A. York Water has operated a CARES program that consists of a one-time bill credit of up 12 to \$200 for eligible low income customers since 2019. Customers must apply through 13 one of two social service agencies who then evaluate the customer's unpaid and current 14 bill amounts and decides on a grant amount up to \$200. The current budget for this 15 program is \$20,000 and York Water has refused payments when the funding is exhausted as occurred in October 2021.³⁷ I attach this data response as Exhibit BA-11. The 16 17 Company has proposed an increased budget for this program in its rate case filing to 18 \$40,000. York Water states that it also operates a small arrears forgiveness program that is designed to reduce water usage.³⁸ However, there is no information about this program 19

on the Company's web portal where the CARES and other federally funded assistance

programs are referenced.

³⁷ York Water Response to OCA-VII-1.

³⁸ York Water Response to OCA-VII-2.

1	Q.	THE CARES PROGRAM WAS APPROVED AS A "PILOT." HAS YORK WATER
2		EVALUATED THE IMPACT OF THIS PROGRAM?
3	A.	No. York Water has not conducted any analysis of the sufficiency or this program or its
4		impact on bill payment or bill affordability. As a result, the nomenclature of this
5		program as a "pilot" is incorrect since normally a "pilot" is a program that is being
6		implemented to determine whether its impact contributes to the overall intent of the
7		program design. York Water does not track monthly enrollment, number of customers
8		denied enrollment, the number who successfully complete the program, the number who
9		fail to meet the program's terms for regular payments, or the arrears balances of
10		customers upon entering the program. ³⁹ I attach this data response as Exhibit BA-12.
11	Q.	HAS YORK WATER CONDUCTED ANY STUDIES OF ITS CUSTOMER BASE
12		CONCERNING AFFORDABILITY OF ESSENTIAL UTILITY SERVICES AND/OR
13		WATER AND SEWER SERVICE?
14	A.	No. York Water has not conducted any studies of the demographics of its customer base
15		or the affordability of water and sewer service based on household income or age. 40 I
16		attach these data responses as Exhibit BA-13.
17	Q.	IS THIS PROGRAM A REASONABLE APPROACH TO ADDRESS THE NEEDS OF
18		YORK'S LOW INCOME CUSTOMERS?
19	A.	Not entirely. The program does assist low income customers who have a large unpaid
20		bill and who are facing a shut-off. I do not object to a program that provides additional
21		assistance to such customers. This program, however, is limited to those individuals who
22		can appear in person at only one of two social service agencies in York Water's service

York Water Response to OCA-III-37.
 York Water Response to OCA-III-31 through OCA-III-35.

territory, thus creating a significant barrier to participation. Furthermore, this type of program does not respond to ongoing unaffordability of essential water and sewer services, particularly given the significant rate increase proposed in this proceeding. In other words, the CARES program would be a useful supplement to an ongoing program to reduce monthly bills, but it is not a substitute for a program that addresses the continuing mismatch between income and payments for essential water and sewer services. Programs that rely on "crisis" funding do not contribute to incentives to enable vulnerable customers to make regular affordable monthly payments.

Q. WHAT DO YOU RECOMMEND?

I recommend that York Water be required to implement a bill discount program similar to that in effect for Community Utilities of Pennsylvania. That program provides a 35% monthly discount on the rate for the metered consumption charge. This program is easily programmed into the utility's billing system. The applications for participation in this program should be available on York Water's website. Customers who can provide evidence of participation in existing means-tested income programs, such as Low Income Heating Assistance, Low Income Water Assistance, Medicaid, Food Stamps (SNAP), or participation in the applicable electric and natural gas Customer Assistance Programs should be automatically enrolled. My recommended approach to enrollment will reduce the barrier associated with in-person appointments and the eliminate the duplication required to show proof of income.

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⁴¹ Community Utilities of Pennsylvania tariffs, available at: https://www.uiwater.com/docs/default-source/pennsylvania/cupa-water-tariff-january-27-2022.pdf?sfvrsn=c2e52f5b_0

- 1 Q. HAVE YOU ESTIMATED THE COSTS FOR THIS PROGRAM?
- 2 Q. No. I am unable to do so given the lack of demographic information maintained by York
- Water. However, I recommend that York Water consult with the available agencies and
- 4 utilities with knowledge of its service territory and propose a budget for this program in
- 5 its Rebuttal Testimony.
- 6 Q. DOES YORK WATER PARTICIPATE AS AN AUTHORIZED VENDOR FOR ALL
- 7 AVAILBALE FEDERAL OR STATE FUNDED PROGRAMS THAT PROVIDE
- 8 GRANTS TO ELIGIBLE LOW INCOME CUSTOMERS?
- 9 A. I am not sure. While York Water has indicated that it participates in the Low Income 10 Water Assistance Program and the Emergency Rental Assistance Program, both of which 11 provide funding to help pay unpaid bills incurred by low income water and sewer 12 customers, it is not clear whether York Water participates as an authorized vendor in the 13 Pennsylvania Homeowners Assistance Program. All these programs are funded via the 14 American Rescue Plan Act and all of them provide potential assistance on unpaid water 15 and sewer bills. The Homeowners Assistance Program has only recently been initiated 16 and can provide homeowners who have trouble in paying their mortgage and utility bills a grant to the homeowner's utility companies.⁴² Payment of utility bills up to \$8,000 is 17 18 authorized by this program. York Water should take advantage of all available programs 19 to enable its customers to avoid unpaid debt, late fees, and termination of service, and 20 help all ratepayers from unpaid debt expense.

⁴² https://pahaf.org/whats-covered/

1 2 3 4	IV.	YORK WATER'S TARIFFS NEED REFORM TO COMPLY WITH CONSUMER PROTECTION REQUIREMENTS AND COMMISSION POLICY
5	Q.	HAVE YOU REVIEWED YORK WATER'S CURRENT WATER AND
6		WASTEWATER TARIFFS?
7	A.	Yes. York Water did not propose any changes to its tariffs with regard to consumer
8		protections addressed by Chapter 56. However, my review indicates that York Water's
9		water and wastewater tariffs are deficient in identifying essential consumer protections.
10		While the tariffs correctly state that Chapter 56 is incorporated by reference, the actual
11		tariff language concerning payments and termination of service contain language that
12		does not reference customer rights for payment arrangements, dispute resolution, medical
13		emergency, Protection from Abuse Orders, or any of the essential provisions of
14		applicable landlord/tenant law and policies. ⁴³ The lack of details on these same issues in
15		the Company's training materials also supports the need for including the rights and
16		remedies of Chapter 56 in the Company's tariffs.
17	Q.	WHAT DO YOU RECOMMEND?
18	A.	I recommend that York Water revise its tariffs to reflect the essential consumer
19		protections included in Chapter 56. York Water may find the tariff provisions of
20		Pennsylvania American Water Company a useful model in this regard.

⁴³ For example, York Water's Water Tariff at Section 10.2 does not reference any of the established rights to avoid termination and states:

^{10.2} The termination notice shall be mailed to the Customer and shall advise the Customer that payment of the Past-Due Amount must be made, in full, within the time period allowed by current P.U.C. regulations for such payment, or water service will be terminated. If the Past-Due Amount shall not be paid in full, at the principal office of the Company within the allotted time and following the prescribed steps per current P.U.C. regulations, the Company shall dispatch an employee either: (1) to collect the Past-Due Amount in full, or (2) to terminate water service. In default of payment of the Past-Due Amount, in full, water service will be terminated.

1 2 3	V.	YORK WATER'S CUSTOMER SERVICE PERFORMANCE IS DIRECTLY RELATED TO THIS RATE CASE AND THE REQUEST FOR A REWARD FACTOR IN THE RATE OF RETURN
4 5	Q.	WHAT IS THE CONNECTION BETWEEN YOUR DISCUSSION OF SERVICE
6		QUALITY AND CUSTOMER SERVICE PERFORMANCE, AND THE RATE
7		INCREASE PROPOSED BY YORK WATER?
8	A.	Any public utility must justify its rates in part based on its ability to perform its essential
9		quality of service and customer service functions at a reasonable performance level. It is
10		appropriate to compare the performance of the utility seeking a significant rate increase
11		to other Pennsylvania utilities.
12		My analysis and findings should inform the Commission on the reasonableness of
13		York Water's significant rate increase proposals. In other words, if York Water seeks a
14		rate increase but there are deficiencies in its customer service performance, the
15		Commission should order improvements in specific areas as a condition of any rate
16		increase or consider reducing the rate increase until reforms have been adopted. This
17		approach is mandated by the statutory guidelines governing public utility rate cases in
18		which the Commission must evaluate the "efficiency, effectiveness, and adequacy of
19		service."44
20	Q.	DOES YOUR ANALYSIS IMPACT YORK WATER'S PROPOSAL TO INCLUDE A
21		REWARD FOR EXEMPLARY MANAGEMENT PERFORMANCE IN ITS RATE
22		PROPOSAL?
23	Q.	Yes. I object to York Water's proposal to provide itself with a reward for outstanding
24		performance by its management, through the Commission approving a higher rate of

⁴⁴ 66 Pa. C.S. § 523.

return. The Company's proposal does not link its reward to any evidence of superior
customer service performance. In addition, the basis for my conclusion is the poor
performance of the York Water call center and certain findings I have made with respect
to York Water's training and consumer protection compliance, particularly with respect
to the Company's policies and training relating to disputes, payment arrangements,
landlord/tenant protections, and Protection from Abuse Orders. Finally, York Water's
questionable billing and termination practices for unpaid charges related to the City of
York's wastewater and refuse services also support my recommendation.

VI. CONDITIONS THAT SHOULD BE ATTACHED TO ANY RATE INCREASE

- Q. PLEASE SUMMARIZE YOUR RECOMMENDATIONS FOR YORK WATER'S CUSTOMER SERVICE PERFORMANCE AS A CONDITION OF ANY RATE INCREASE.
- 15 A. My analysis indicated that there are certain areas that need to be addressed as requiring

 16 improvement and reform as conditions for allowing York Water to increase its rates:
 - York Water should be required to take steps to improve the monthly performance of its call center. Specific performance standards should be implemented, which include objectives for Average Speed of Answer and Abandonment Rate that are designed to achieve (over a reasonable number of years) that 80% of the customer calls that enter the queue to speak to a customer service representative to be answered within 30 seconds and that the call abandonment rate be 4% or less. The Commission should mandate significant progress in quarterly reports from York Water as a condition of any rate increase.

-	York Water should take steps to identify, track, evaluate, and respond to customer
	disputes and complaints. The training materials are seriously deficient in identifying
	and responding to customer disputes and complaints. I recommend that York Water
	be required to submit a plan that adopts explicit training for identification, tracking,
	monitoring, and evaluating customer complaints. This complaint analysis should also
	include the payment arrangement disputes that are an essential component of
	adequate and reasonable service, particularly in light of my discussion of York
	Water's inadequate internal payment arrangement training and policies. The
	Commission should require quarterly reports that document improved complaint
	handling and analysis as a condition of any rate increase.

- York Water should be required to reform its customer training programs with regard to payment arrangement negotiations with customers to undertake a more individualized approach based on the customer's circumstances and needs. This reform should be undertaken immediately and documented in a compliance filing as a condition of any rate increase.
- York Water should be required to create and implement internal training programs relating to Landlord/Tenant rights, obligations and policies governing Protection from Abuse Orders, and the policies that will be implemented when personal contact is initiated immediately prior to termination of service. In addition, the training regime itself needs reform to document how training is conducted and how ongoing compliance is audited.
- In light of my findings concerning the poor performance of the call center, the lack of uniform and complete training of customer representatives on Pennsylvania rights and

	remedies, and the lack of connection between complaint analysis and changes to	
	address underlying root causes, I recommend that the Commission undertake an	audit
	of York Water's customer service operations. The Commission should establish	a
	timetable for this audit as a condition of any rate increase.	
	 York Water should implement a low income discount program similar to that 	
	implemented by Community Utilities of Pennsylvania. Such a program would	
	provide a modest discount on the consumption charge for eligible low income	
	customers, most of whom could be enrolled based on their participation in existing	ng
	means-tested social welfare programs. The CARES program should continue at	a
	proposed budget of \$40,000. York Water should document its participation in the	ie
	various programs funded through the American Rescue Plan Act and publicize the	ne
	available of funding to help pay for overdue water and sewer bills in order to obt	ain
	the maximum funding to assist its low income customers and avoid unnecessary	bad
	debt expense paid by all ratepayers.	
	 York Water's water and wastewater tariffs should be amended to include the essential. 	ential
	consumer protections set forth in Chapter 56, similar to, for example, the tariff	
	provisions of Pennsylvania American Water Co.	
Q.	WHAT SHOULD OCCUR IF YORK WATER FAILS TO SATISFY THESE	
	Q.	address underlying root causes, I recommend that the Commission undertake an of York Water's customer service operations. The Commission should establish timetable for this audit as a condition of any rate increase. • York Water should implement a low income discount program similar to that implemented by Community Utilities of Pennsylvania. Such a program would provide a modest discount on the consumption charge for eligible low income customers, most of whom could be enrolled based on their participation in existin means-tested social welfare programs. The CARES program should continue at proposed budget of \$40,000. York Water should document its participation in the various programs funded through the American Rescue Plan Act and publicize the available of funding to help pay for overdue water and sewer bills in order to obte the maximum funding to assist its low income customers and avoid unnecessary debt expense paid by all ratepayers. • York Water's water and wastewater tariffs should be amended to include the essential consumer protections set forth in Chapter 56, similar to, for example, the tariff provisions of Pennsylvania American Water Co.

CONDITIONS AND IMPROVE ITS CALL CENTER, TRAINING OBLIGATIONS,

I propose that while the rates established in this proceeding are in effect, York Water

submit quarterly reports to the Commission and the parties that include the progress in

AND COMPLAINT HANDLING PERFORMANCE?

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1 meeting my proposed commitments. At a minimum, the Commission should open an 2 investigation of persistent failure to meet reasonable performance standards.

- 1 Q. DO YOU HAVE AN ADDITIONAL RECOMMENDATION WITH RESPECT TO
- 2 YORK WATER'S USE OF ITS BILLING AND TERMINATION RIGHTS FOR
- 3 UNPAID CITY OF YORK WASTEWATER AND REFUSE CHARGES?
- 4 A. I recommend that this policy, which is no longer in effect, be separately investigated by
- 5 the Commission to determine the appropriate enforcement action, if any, that is
- 6 necessary.
- 7 Q. DOES THIS COMPLETE YOUR DIRECT TESTIMONY AT THIS TIME?
- 8 A. Yes.

EXHIBIT BA-1

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Delaware Division of Public Advocate
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- Default Service, Consumer Protection, Service Quality, and Universal Service policies and programs associated with the alternative rate plans and mergers;
- Consumer Protection and Service Quality policies and programs associated with the regulation of competitive energy and telecommunications providers;
- The regulatory policies associated with the regulation of Credit, Collection, Consumer Protection, Low Income, and Service Quality programs and policies for public utilities;
- Customer Education and Rate design and pricing policies applicable to residential customers;
 and
- Advanced Metering Infrastructure and Grid Modernization costs and benefits, time-based pricing proposals, and performance standards.

Prior Employment

DIRECTOR

1986-96

Maine Public Utilities Commission

Augusta, Maine

One of five division directors appointed by a three-member regulatory commission and part of commission management team. Direct supervision of 10 employees, oversight of public utility consumer complaint function, appearance as an expert witness on customer services, consumer protection, service quality and low income policy issues before the PUC. Chair, NARUC Staff Subcommittee on Consumer Affairs.

SUPERINTENDENT

1979-83

Bureau of Consumer Credit Protection Department of Professional and Financial Regulation

Augusta, Maine

Director of an independent regulatory agency charged with the implementation of Maine Consumer Credit Code and Truth in Lending Act. Investigations and audits of financial institutions and retail creditors, enforcement activities, testimony before Maine Legislature and U.S. Congress.

Education

JURIS DOCTOR

University of Maine School of Law

1973-76

Portland, Maine

Admitted to the Bar of the State of Maine, September 1976. Currently registered as "inactive."

B.A. (WITH DISTINCTION) IN POLITICAL SCIENCE University of Michigan

1964-68

University of Michigan Ann Arbor, Michigan

Publications and Testimony

"How to Construct a Service Quality Index in Performance-Based Ratemaking", The Electricity Journal, April, 1996

"The Consumer Protection Agenda in the Electric Restructuring Debate", William A. Spratley & Associates, May, 1996

Direct Testimony on behalf of the Telecommunications Workers Union, Telecom Public Notice 96-8, Price Cap Regulation and Related Issues, Canadian Radio-Television and Telecommunications Commission, September, 1996. [Analysis of and recommendations concerning the need to regulate service quality in move to price cap regulation]

Direct Testimony on behalf of Public Counsel Section, Office of Attorney General, Docket No. UE-960195, Application by Puget Sound Power and Light Co. And Washington Natural Gas Co. For Approval of Merger), Washington Utilities and Transportation Commission, September, 1996 [Need for and design of a Service Quality Index for both electric and gas business units as part of a multi-year rate plan]

Consumer Protection Proposals for Retail Electric Competition: Model Legislation and Regulations", Regulatory Assistance Project, Gardiner, ME, October, 1996

Direct and Rebuttal Testimony on behalf of the Citizens Utility Board (IL), Docket 96-0178, Illinois Commerce Commission, CUB v. Illinois Bell Telephone Co., January 22, 1997; July, 1997. [Analysis of recent service quality performance and recommendations for changes in current service quality performance plan]

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"The Transition to Local Telecommunications Competition: A New Challenge for Consumer Protection", Public Counsel Section, Washington Attorney General, October, 1997. [Reprinted in part in NRRI Quarterly Bulletin, Vol. 19, No.1, Spring, 1998]

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Oppenheim, Gerald (NCLC) and Alexander, Barbara, <u>Model Electricity Consumer Protection Disclosures</u>, A Report to the National Council on Competition and the Electric Industry, April 1998.

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Direct Testimony on behalf of the Maryland Office of People's Counsel, Universal Service Issues, Case No. 8745, before the Maryland Public Service Commission, November 20, 1998.

"Cramming is the Last Straw: A Proposal to Prevent and Discourage the Use of the Local Telephone Bill to Commit Fraud," NRRI Quarterly Bulletin, Fall. 1998.

Alexander, Barbara, <u>Retail Electric Competition:</u> A <u>Blueprint for Consumer Protection</u>, U.S. Department of Energy, Office of Energy and Renewable Energy, Washington, D.C., October 1998.

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Direct and Supplemental Testimony, Rebuttal Testimony, and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of PPL Electric Utilities Corporation for Approval of a Default Service Program for the Period of June 1, 2021 through May 31, 2025, Docket No. P-2020-3019356 (June-August 2020) [Standard Offer Program and low income shopping program for retail market programs]

Direct, Rebuttal, and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of PECO Energy for Approval of Default Service Program for the Period June 1, 2021 through May 31, 2025, Docket No. P-2020-3019290 (June-July 2020),) [Standard Offer Program and low income shopping program for retail market programs]

Direct, Rebuttal, and Surrebuttal Testimony, on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of Duquesne Light Co. for Approval of Default Service Program for the Period June 1, 2021 through May 31, 2025, Docket No. P-2020-3019522 (July-September 2020), [Standard Offer Program and low income shopping program for retail market programs]

Direct and Surrebuttal Testimony, on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Pennsylvania Public Utility Commission v. Pittsburgh Water and Sewer Authority, Docket Nos. R-2020-3017951 (water), C-2020-3019348, R-2020-3017970 (wastewater), C-2020-3019349 (July-September 2020) [Base rate case; analysis of customer service and consumer protection programs and policies]

Affidavit of Barbara R. Alexander, <u>Analysis of Washington Gas Light Co. Root Cause Analysis Report</u>, on behalf of the Office of the People's Counsel of the District of Columbia, submitted to the Public Service Commission in Formal Case No. 1142 (October 2020).

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission v. Pennsylvania American Water Co, Docket R-2020-3019369, et al., (September-October 2020) [Base rate case; analysis of customer service and consumer protection programs and policies]

Direct and Surrebuttal Testimony, on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Pennsylvania Public Utility Commission v. Pittsburgh Water and Sewer Authority, Docket Nos. R-2021-3024773, et al. (July-September 2021) [Base rate case; analysis of customer service and consumer protection programs and policies]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission v. Aqua Pennsylvania, Inc, Docket Nos. R-2021-3027385 et al. (November-December 2021) [Base rate case; analysis of customer service and consumer protection programs and policies]

Direct, Rebuttal, and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Joint Petition of Metropolitan Edison Co., Pennsylvania Electric Co., Pennsylvania Power Co. and West Penn Power Co. for Approval of their Default Service Programs, Docket Nos. P-2021-3030012 et al. (February, March, and April 2022) [Standard Offer program; retail market policies; Time of Use rate option; low income consumer protections]

Presentations and Training Programs:

- Presentation on Consumer Protection Policies for Solar Providers, New Mexico Public Regulatory Commission, Santa Fe, NM, January 2017
- Presentation on Residential Rate Design Policies, National Energy Affordability and Energy Conference, Denver, CO., June 2016
- Presentation on "Regulatory-Market Arbitrage: From Rate Base to Market and Back Again," before the Harvard Electricity Policy Group, Washington, D.C., March 2016.
- Presentation on Residential Rate Design and Demand Charges, NASUCA, November 2015.
- Alexander, Barbara, "Residential Demand Charges: A Consumer Perspective," presentation for Harvard Electricity Policy Group, Washington, D.C., June 2015.
- Presentation on "Future Utility Models: A Consumer Perspective," for Kleinman Center for Energy Policy, U. of Pennsylvania, August 2015.
- Presentation, EUCI Workshop on Demand Rates for Residential Customers, Denver, CO [May 2015]
- Presentation, Smart Grid Future, Brookings Institute, Washington, DC [July 2010]
- Participant, Fair Pricing Conference, Rutgers Business School, New Jersey [April 2010]
- Presentation on Smart Metering, National Regulatory Conference, Williamsburg, VA [May 2010]
- Presentation on Smart Metering, Energy Bar Association Annual Meeting, Washington, DC [November 2009]
- Presentation at Workshop on Smart Grid policies, California PUC [July 2009]
- National Energy Affordability and Energy Conference (NEAUC) Annual Conference
- NARUC annual and regional meetings
- NASUCA annual and regional meetings
- National Community Action Foundation's Annual Energy and Community Economic Development Partnerships Conference
- Testimony and Presentations to State Legislatures: Virginia, New Jersey, Texas, Kentucky, Illinois, and Maine
- Training Programs for State Regulatory Commissions: Pennsylvania, Georgia, Kentucky, Illinois, New Jersey
- DOE-NARUC National Electricity Forum
- AIC Conference on Reliability of Electric Service
- Institute of Public Utilities, MSU (Camp NARUC) [Instructor 1996-2006]
- Training Programs on customer service and service quality regulation for international regulators (India and Brazil) on behalf of Regulatory Assistance Project
- Georgia Natural Gas Deregulation Task Force [December 2001]
- Mid Atlantic Assoc. of Regulatory Utility Commissioners [July 2003]
- Illinois Commerce Commission's Post 2006 Initiative [April 2004]
- Delaware Public Service Commission's Workshop on Standard Offer Service [August 2004]

(YORK WATER COMPANY RESPONSE TO OCA SET III, NO. 10)

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set III

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET III, NO. 10

With regard to the York Water's customer call center(s) that serve Pennsylvania residential customers, provide the following monthly information in an Excel spreadsheet with formulas intact for the period January 2020 through the current month and update this information during the pendency of this proceeding:

- a. Volume of calls to the voice response menu;
- b. Volume of calls seeking to speak to a customer service representative (those who enter the queue);
- c. Percentage of calls in (b) answered within 30 seconds;
- d. Average Speed of Answer for (b);
- e. Abandonment rate for (b);
- f. Average talk time for (b); and
- g. Busy Rate for (a).

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

June 23, 2022

RESPONSE:

a.-g. See Attachment OCA III-10 for the requested phone statistics.

										Ti	me to Answ	er : Intervo	ıls
	# Inbound Calls	# Answered	# Abandone d	# Redirecte d	# Disc	% Answered	% Abandone d	To Vmail Total	% To Vmail	Avg. Time to Answer	< 24 sec.	25-120 sec.	> 120 sec.
January	5930	4815	596	512	4	81.20%	10.05%	460	7.76%	2:29	39.88%	21.43%	39.04%
February	4978	4204	470	302	2	84.45%	9.44%	300	6.03%	2:11	44.79%	21.29%	34.18%
March	4632	4250	261	120	1	91.75%	5.63%	119	2.57%	1:15	59.22%	20.80%	20.26%
April	3631	3352	179	100	0	92.32%	4.93%	100	2.75%	1:00	63.57%	20.97%	15.69%
May	5020	4717	200	103	0	93.96%	3.98%	103	2.05%	0:52	65.97%	20.71%	13.59%
June	5002	4739	172	91	0	94.74%	3.44%	91	1.82%	0:44	68.24%	20.85%	11.08%
July	5640	5006	411	223	0	88.76%	7.29%	223	3.95%	1:24	55.33%	22.03%	22.91%
August	5616	4983	403	230	0	88.73%	7.18%	230	4.10%	1:36	51.43%	21.29%	27.59%
September	4693	4108	377	208	0	87.53%	8.03%	208	4.43%	1:50	47.78%	21.23%	31.26%
October	5644	4843	502	299	0	85.81%	8.89%	299	5.30%	2:13	41.83%	20.71%	37.45%
November	4506	4274	166	66	0	94.85%	3.68%	64	1.42%	0:40	75.32%	14.86%	9.83%
December	3812	3628	138	46	0	95.17%	3.62%	46	1.21%	0:37	76.68%	14.39%	8.93%
TOTALS	59104	52919	3875	2300	7	89.94%	6.35%	2243	3.62%	1:24	57.50%	20.05%	22.65%

										Ti	me to Answ	ver : Interva	ıls	1
	# Inbound Calls	# Answered	# Abandone d	# Redirecte d	# Disc	% Answered	% Abandone d	To Vmail Total	% To Vmail	Avg. Time to Answer	< 24 sec.	25-120 sec.	121-240 sec.	> 241 sec
January	4878	4609	187	82	0	94.49%	3.83%	82	1.68%	0:43	76.31%	13.50%	5.47%	4.73%
February	3945	3623	235	87	0	91.84%	5.96%	87	2.21%	1:03	66.63%	16.59%	8.87%	7.90%
March	4542	4260	195	87	0	93.79%	4.29%	87	1.92%	0:55	68.78%	16.50%	8.26%	6.46%
April	4730	4388	235	107	0	92.77%	4.97%	107	2.26%	0:58	67.73%	15.95%	8.91%	7.41%
May	4795	4321	324	150	0	90.11%	6.76%	150	3.13%	1:21	60.73%	18.65%	10.04%	10.58%
June	4493	3997	343	153	0	88.96%	7.63%	153	3.41%	1:23	57.79%	20.24%	11.23%	10.73%
July	5168	4340	556	271	1	83.98%	10.76%	264	5.11%	2:15	44.22%	21.66%	13.43%	20.69%
August	5421	4492	603	325	1	82.86%	11.12%	325	6.00%	2:19	46.97%	18.86%	13.45%	20.73%
September	4852	4339	337	175	1	89.43%	6.95%	175	3.61%	1:27	57.52%	19.89%	10.49%	12.10%
October	5132	4629	347	122	0	90.20%	6.76%	156	3.04%	1:20	63.25%	17.87%	8.86%	10.93%
November	4311	4016	201	93	1	93.16%	4.66%	93	2.16%	0:55	66.14%	18.50%	9.64%	5.73%
December	4262	3885	248	129	0	91.15%	5.82%	129	3.03%	1:04	63.40%	19.05%	9.45%	8.11%
TOTALS	56529	50899	3811	1781	4	90.04%	6.63%	1808	3.13%	1:18	61.62%	18.11%	9.84%	10.51%

										Tim	e to Ansı	wer : Inte	rvals	!
	# Inbound Calls	# Answered	# Abandoned	# Redirected	# Disc	% Answered	% Abandoned	To Vmail Total	% To Vmail	Avg. Time to Answer	< 24 sec.	25-120 sec.	121-240 sec.	> 241 sec
January	3677	3442	154	80	1	93.61%	4.19%	80	2.18%	0:52	68.88%	17.20%	8.28%	5.64%
February	2999	2719	176	101	3	90.66%	5.87%	101	3.37%	1:13	61.09%	18.76%	10.89%	9.27%
March	3870	3421	304	143	2	88.40%	7.86%	143	3.70%	1:40	51.51%	21.02%	13.24%	14.26%
April	2667	2480	126	61	0	92.99%	4.72%	61	2.29%	1:01	66.57%	16.49%	9.44%	7.50%
May	2927	2814	85	26	2	96.14%	2.90%	26	0.89%	0:24	83.83%	11.80%	2.91%	1.46%
June	3266	3132	100	33	1	95.90%	3.06%	33	1.01%	0:25	83.11%	11.97%	3.35%	1.56%
July	3674	3475	139	58	2	94.58%	3.78%	58	1.58%	0:45	71.42%	16.98%	7.31%	4.29%
August	3639	3432	146	61	0	94.31%	4.01%	61	1.68%	0:50	69.14%	19.03%	6.47%	5.36%
September	5483	4481	592	409	1	81.73%	10.80%	409	7.46%	2:36	45.35%	20.15%	12.03%	22.49%
October	4254	3981	163	109	1	93.58%	3.83%	109	2.56%	1:00	66.79%	17.91%	7.96%	7.33%
November	3689	3507	126	56	0	95.07%	3.42%	56	1.52%	0:41	74.02%	16.54%	5.85%	3.59%
December	4093	3768	199	123	3	92.06%	4.86%	123	3.01%	1:09	60.30%	22.88%	8.12%	8.70%
TOTALS	44238	40652	2310	1260	16	91.89%	4.94%	1260	2.60%	1:03	66.83%	17.56%	7.99%	7.62%

										Tir	ne to Ansu	er : Interv	als	•
	# Inbound Calls	# Answered	# Abandoned	# Redirected	# Disc	% Answered	% Abandoned	To Vmail Total	% To Vmail	Avg. Time to Answer	< 30 sec.	31-120 sec.	121-240 sec.	> 241 sec
January	4735	4030	408	295	2	85.11%	8.62%	295	6.23%	2:31	41.02%	22.73%	15.58%	20.69%
February	5229	4097	665	463	4	78.35%	12.72%	463	8.85%	3:44	35.59%	17.79%	13.77%	32.85%
March	5081	4326	475	280	0	85.14%	9.35%	280	5.51%	2:25	44.06%	18.59%	14.82%	22.54%
April	5448	4096	827	524	1	75.18%	15.18%	524	9.62%	4:18	31.27%	17.77%	15.31%	35.64%
May	5207	3601	933	673	0	69.16%	17.92%	673	12.92%	5:57	24.47%	12.33%	14.38%	48.82%
June	5574	4189	812	571	2	75.15%	14.57%	569	10.21%	4:32	27.93%	15.73%	15.21%	41.13%
July	5319	3765	947	607	0	70.78%	17.80%	603	11.34%	5:25	24.44%	12.93%	15.14%	47.49%
August	4724	3915	488	320	1	82.87%	10.33%	315	6.67%	2:59	39.69%	17.88%	15.17%	27.25%
September	5398	3605	1113	680	0	66.78%	20.62%	678	12.56%	6:21	18.92%	12.18%	14.84%	54.06%
October	4887	3404	877	605	1	69.65%	17.95%	605	12.38%	6:01	19.71%	13.87%	14.95%	51.47%
November	4529	3401	664	463	1	75.09%	14.66%	463	10.22%	4:54	23.73%	15.20%	15.29%	45.78%
December	3995	3022	605	363	5	75.64%	15.14%	363	9.09%	4:34	22.80%	14.82%	18.46%	43.91%
TOTALS	60126	45451	8814	5844	17	75.59%	14.57%	5831	9.63%	4:28	29.47%	15.99%	15.24%	39.30%

										Ti	me to Ansv	ver : Intervo	ıls	•
	# Inbound Calls	# Answered	# Abandoned	# Redirected	# Disc	% Answered	% Abandoned	To Vmail Total	% To Vmail	Avg. Time to Answer	< 30 sec.	31-120 sec.	121-240 sec.	> 241 sec
January	4970	3709	740	508	13	74.63%	14.89%	508	10.22%	5:00	19.65%	14.69%	17.36%	48.29%
February	4476	3173	767	536	0	70.89%	17.14%	536	11.97%	6:05	17.46%	11.53%	16.01%	55.00%
March	4762	3586	697	477	2	75.30%	14.64%	476	10.00%	4:32	29.25%	15.20%	15.62%	39.93%
April	6392	3650	1608	1133	1	57.10%	25.16%	1133	17.73%	9:36	15.07%	7.84%	10.58%	66.52%
May	5402	3565	1017	818	2	65.99%	18.83%	817	15.12%	7:16	17.90%	8.53%	13.77%	59.80%
June														
July														
August														
September														
October														
November														
December														
TOTALS	26002	17683	4829	3472	18	68.78%	18.13%	3470	13.01%	6:29	19.87%	11.56%	14.67%	53.91%

(YORK WATER COMPANY RESPONSE TO OCA SET VII, NO. 13)

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set VII

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET VII, NO. 13

With regard to the phone center stats provided in response to OCA-III-10, please provide York Water's internal review of the trends reflected in this multi-year performance and what steps are being taken, if any, to improve performance.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

August 2, 2022

RESPONSE:

The Company recognized that the call volume and hold time increased since 2020 in part due to City of York wastewater and refuse customers. When appropriate, additional resources were used to address the increase in caller traffic. Further, as noted in response to OCA-VII-8, York Water stopped providing billing services for the City of York wastewater customers in July 2022. Therefore, the Company expects the call volume and hold time figures to improve going forward.

(YORK WATER COMPANY RESPONSE TO OCA SET VII, NO. 12)

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set III

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET III, NO. 12

Provide the training materials currently in effect for customer service representatives who serve Pennsylvania customers.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

June 23, 2022

RESPONSE:

The training materials currently in effect for customer service representatives who serve Pennsylvania customers is attached.

CSR TRAINING BINDER ORDER OF CONTENTS

- Customer service training outline
- Areas of Service
- Oracle
 - Basics of Oracle
 - Account search
 - Front page
 - Private fire
 - Customer Flags/Password accounts
 - Tap info (line material, etc.)
- Apps/Forms
 - Online app steps
 - Add new customer in Paymentus
 - o Paper app
 - Creating account from paper app
 - Moving customer from one address to another
 - Continuous service
- Billing/Pas
 - Billing history
 - Individual bill
 - Payment agreement info sheet
 - Fixed amount sheet
 - PA account

- PA page
 PA view activity
 TAP front page
 TAP form
 Rates
 Consumption Calls
 Meter info
 How To (steps)
 Creating a WO
 Editing a WO
 Debit/Credit
 Promise to Pay/Correspondence Notes
 Creating a PA
- Setting up paperless billing in Paymentus
 Paperless billing in Oracle
 Attaching Docs in Oracle account
 Verifying doc is attached
 Sewer
 Municipal Agreements
 Sanitary sewer Emergency (YWC owned)
 Jacobus smartsheet

o WY, EP, AP, Felton, & Letterkenny smartsheet

York City sewer info (FAQs, emails, etc.)

SGT smartsheet

		Sewer bill
	0	YWC owned and operated sewer acct
		 Flat rate (rental prop) vs on water bill
		Bills of each
•	Meters	
	0	Meter test form
	0	Meter reading info sheet
	0	How to read your meter
		 ARB vs ECODER (w/ pics)
•	Collect	ions/Past due
	0	Turn on fee
	0	YWC Cares
	0	Medical certificate
	0	CAP
•	Miscell	aneous
	0	SLPP form/app
	0	Lead service line?
	0	FAQs about water quality
•	Miscell	aneous (in front pouch)

o Who to call & when

o Municipality contact numbers

o Sewer acct in Oracle (YWC billing agent)

o WMT smartsheet

YNS smartsheet

- WO mapping
- o YWC employee contact info

Our Company

A. Intro to Customer Service

- a. Front Office Staff
 - CSR's (Ana, Colton, Elisabetta, Fabiola, Jocelyn, Lindsey, Lydia, Nancy, Susan, Valerie)
 - ii. Cashier (Jean)
 - iii. Customer Service Lead (Savannah)
- b. Meter Reading Department (Dean, Don, Luis, Michele, Colton, Lindsey, Lydia)
- c. Collections (Elisabetta, Jocelyn)
- d. Mail Room (Lona)
- e. Billing Department (Linda & Nancy)
- f. IT Department (Mark, Andy, Nadh, Chris)

B. Intro to Management

- a. Vice President of Human Resources (Natalee Colon)
- b. President and CEO (JT Hand)
- c. CFO (Matt Poff)
- d. Vice President of Customer Service (Vernon Bracey)
- e. COO (Mark Wheeler)

C. Quick Review and Exposure of Company

- a. Shadow Meter Reading/Collectors
 - i. Terminations, Postings, starts/finals, turn offs, complaint orders, etc.
- b. Shadow w/ Distribution
 - i. Meter exchanges, Turn on's, main cleaning-relining, Main extensions, etc.

Overview

A. Tools Training

- a. Overview of Oracle
- b. Overview of Paymentus
- c. Overview of Neptune Software
 - i. Fixed Collectors/On demand reads
- d. Overview of MXIE software/phone system

B. Rules & Regulations

a. Overview of Chapter 14 & 56 (will read in free time)

Department Specific Training

A. Main Duties

a. Phone calls

b. Emails, voicemails, applications – 1 day priority

B. Phone Calls

- a. Collections: extensions, amount due, shut off date
- b. Start/stop service: current customers, new customers (multi vs single; continuous service)
- c. Low pressure
- d. High consumption: leaks/toilets
- e. Refund checks
- f. Water quality
- g. Settlement companies

C. Payment Options

- a. Paymentus: One time & scheduled payments
- b. TAP (Timely Automatic Payments)
- c. Overnight Drop box
- d. Online banking/corner store payments

D. Work Orders

a. Service requests (all types of work orders)

E. Application Process

- a. Online & in person
- b. Oracle Entry
- c. ID & lease/deed verification
- d. Searching for previous accounts & balances

F. Email Training

- a. Online application process
- b. Voicemails
- c. Other customer service emails

G. Collections

- a. Multi vs single unit postings
- b. Terminations
- c. Promise to Pay
- d. User w/o contract
- e. Write offs
- f. In Collections
- g. Medical Certificates
- h. Social Services (St Matts, Salvation Army, etc.)

H. Payment Agreements

- a. One-time vs ongoing
- b. Eligibility
- c. CIC PA
- d. Delinquent PA customer

I. York Water Programs

- a. Service Line Protection Plan (SLPP)
- b. Customer Assistant Program (CAP)
- c. York Water Cares (w/ Salvation Army)

J. Sewer

a. Owned and Operated by YWC vs Billing agent

Where to find in My Computer

A. Customer Service (I) drive:

- a. Shut off list
- b. Scanned applications
- c. Blank applications
- d. Medical certificates
- e. Leases

B. Shared (W) drive:

- a. Turn on schedule
- b. Meter schedule

C. Payment Agreement (J) drive:

- a. If a PA customer has received a shut off notice
- b. How much their shut off notice is

Where do I go when a customer asks/says...

- A. What is my balance?
- B. What is the minimum I can pay?
- C. I would like to end my service.
- D. I would like to start service.

- E. I think my pipes are lead.
- F. I need to get my water turned on.

(YORK WATER COMPANY RESPONSE TO OCA SET III, NOS. 38 AND 40)

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set III

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET III, NO. 38

Please provide a the "pilot low income program" implementation plan and any analysis of this plan undertaken since its inception.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

June 23, 2022

RESPONSE:

The pilot low-income program implementation plan information is attached as Attachment OCA-III-38, A and B.

Guidelines

For agencies distributing York Water Cares funds for The York Water Company

- 1. The person receiving assistance must be a residential water or sewer customer of The York Water Company.
- 2. The assistance must be for the customer's primary residence (may be rented or owned).
- 3. The customer must provide a current shut-off notice from York Water when applying for York Water Cares funds. Exceptions to this guideline need to be approved by York Water.
- 4. The customer needs to show the agency proof (recent bill, cashed check, or receipt) that they have made a payment of at least 25% of the amount due in the past 90 days and may also be required to have a payment arrangement on the balance past due <u>before</u> York Water Cares funds will be released by the agency.

Customers may receive a maximum of \$200 per calendar year and must receive the total amount at one time. Distribution of York Water Cares funds to a customer will be one time during the calendar year.

- 5. There will be no carryover of funds for an account from one year to the next.
- 6. York Water Cares funds are not to be used for security deposits, connection fees, and prior uncollectibles from a previous address. The funds are for water or sewer use only.
- 7. The distribution of York Water Cares funds should not be based strictly on income level of the customer, however, proof of income for all adults in the household for a minimum of the past 60 days should be provided. Other factors the agency could include:
 - 55 years of age or older
 - Resident who does not exceed 200% poverty level
 - On a disabled or handicapped income
 - Veteran with a verified need
 - Able to demonstrate a certified medical emergency
 - Experienced a verifiable, recent loss of income
 - Receiving unemployment benefits
- 8. Customers may only receive York Water Cares funds from an agency serving the county in which they live.
- 9. The agency distributing York Water Cares funds will determine the need of each customer, since it specializes in these decisions.
- 10. The agency will track the amount of York Water Cares funds given to each customer during the calendar year.
- 11. When sending the check from your agency to York Water, please include the following information:
 - Name of customer
 - York Water account number
 - Amount of assistance per customer
- 12. The agency will send a monthly report to The York Water Customer Service Department by the end of the first week of the next month. The information should include:
 - Name of the agency
 - Address of the agency
 - Month the activity occurred
 - Beginning balance
 - Check amount deposited by The York Water Company
 - Amount paid out to customers that month
 - Ending balance

- Number of applicants granted assistance and number of requests that could not be fulfilled because the agency did not have sufficient funds.
- List of customers receiving help, including:
 - Date assistance was approved
 - Name of customer
 - Customer's estimated household income and # of residents (if that is used to determine eligibility)
 - Customer's York Water account number
 - Total amount of assistance per customer (all assistance given by the agency from any funding source)
 - Amount of assistance per customer that came from York Water Cares funds
- 13. When the agency's monthly report shows an ending balance of \$2,000 or less, York Water will send a check to the agency only if funds are available to replenish the fund. Agencies should be careful not to draw funds down below a zero balance, in the event that funds are not available to replenish an overdrawn amount.

These are guidelines. Leniency is encouraged in specific extraordinary circumstances upon the recommendation of the agency or the recommendation of York Water. If you have any questions or feel a need to deviate from the guidelines in special cases, please call the VP of Customer Service, Vernon Bracey at 717-718-2943 or vernonb@yorkwater.com.



OVERVIEW

York Water Cares (YWC) is a program, which provides limited funding - payable thru community agencies to those who need help paying their water bill.

Although this program is designed to help low income customers, it may also be helpful to customers who have a short term challenge in making ends meet and need assistance paying their water bill. Please give us a call or an email to (717)845-3601 or customer.service@yorkwater.com and ask about our Low Income Customer Assistance Program.

This program is only available one time per year for a customer that qualifies. Please read this handout for details.

York Water Cares (YWC)

Low Income Customer
Assistance Program





The York Water Company 130 E. Market St. York, PA 17401 (717)845-3601 Customer.service@yorkwater.com





ref

'**e**s

"That good York water"

Need help paying your water bill?

We have a program to assist customers who may need a helping hand if they get behind in paying their water bills.

This program is a partnership with local charities that will provide guidance to our customers and help them pay a water bill if they are having difficulties.

Who can apply?

To receive assistance:

- 1. You must be a residential water or sewer customer of York Water (you can either rent or own the home you live in).
- 2. You must be unable to pay your full water bill.
- 3. You must be at risk of being shut-off due to non-payment.

Will this pay my whole water bill?

Probably not. You'll have to show the agency that you can pay or have paid 25% of the past due amount. You can bring your most recent water bill to show how much is past due, and how much you've paid towards the bill.

Once you've done that, the agency may be able to pay up to \$200 towards your water bill.

How does it work?

If you meet the requirements:

- 1. You should contact our Customer Service at (717)845-3601 or customer.service@yorkwater.com and ask about our Low Income Customer Assistance Program. We'll let you know if an area agency is participating and if they have funds available.
- 2. Contact the agency and set up an appointment. They may want you to bring a current water bill or shut-off notice and proof of income for the past 2 months.
- 3. The agency will review your payment history, proof of income, and how much you owe on your water bill. The agency may also discuss water saving tips and other ways to reduce future water bills.
- 4. If approved by the agency and if funds are available, they may make a contribution of up to \$200 towards your water bill's past due amount.
- 5. The agency will notify us if they choose to make a payment (which will pause any shut-offs) and then the agency will send us the money directly.
- 6. This program can only be used one time per year.

Do I need to be a low income customer?

This program is generally for low-income customers, but is also available if a customer has a short term difficulty in paying their water bill, such as an emergency expense, a medical issue, recent loss of a job, an unusually high water bill that they cannot afford to pay, etc.

Is there always money available?

No, an agency may run out of assistance funds. If they do then we can check to see if another agency has any funds available.

How do I get started?

Stop in our office at 130 E. Market Street, or contact our Customer Service at (717)845-3601 or customer.service@yorkwater.com and ask about our Low Income Customer Assistance Program.

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set III

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET III, NO. 40

Has York Water evaluated the completion rate for its payment plans to determine the basis or criteria for success or failure? If so, provide such analysis.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

June 23, 2022

RESPONSE:

The Company has not evaluated the completion rate for its payment agreements.

(YORK WATER COMPANY RESPONSE TO OCA SET III, NO. 21)

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set III

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET III, NO. 21

Provide the following monthly and annual information in electronic spreadsheet format concerning Pennsylvania residential customers for the period January 1, 2020 through the current month and continuing through this proceeding:

- a. Termination Notices issued;
- b. Termination Notices resolved with payment;
- c. Termination Notices resolved with payment plan;
- d. Termination Notices not resolved and eligible for termination of service;
- e. Termination of Service; and
- f. Reconnection of Service within 30 days.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

June 23, 2022

RESPONSE:

- a. The number of notices issued is included in the attached spreadsheet OCA III-21;
- b. The Company does not track the number of notices resolved with payment;
- c. The Company does not track the number of notices resolved with payment plan;
- d. The Company does not track notices not resolved and eligible for termination;
- e. The number of service terminations is included in the attached spreadsheet;
- f. The Company does not track the number of reconnections within 30 days.

OCA Set III, No. 21

	OCA SCEIII, NO.			
Month	Termination notices	Termination of service		
120	40.63			
Jan-20	4963	73		
Feb-20	4086	55		
Mar-20	1331	51		
Apr-20	0	0		
May-20	0	0		
Jun-20	0	0		
Jul-20	0	0		
Aug-20	0	0		
Sep-20	0	0		
Oct-20	0	0		
Nov-20	0	0		
Dec-20	0	0		
Jan-21	4087	0		
Feb-21	2389	54		
1-Mar	3099	67		
Apr-21	3657	63		
May-21	2905	75		
Jun-21	3443	29		
Jul-21	3184	18		
Aug-21	3458	45		
Sep-21	3267	44		
Oct-21	3740	29		
Nov-21	783	41		
Dec-21	3137	30		
Jan-22	5179	24		
Feb-22	4707	20		
Mar-22	3766	23		
Apr-22	6543	15		
•	4223	19		
May-22	4223	19		

(YORK WATER COMPANY RESPONSE TO OCA SET VII, NO. 8)

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set VII

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET VII, NO. 8

The response to OCA-III-21 shows a significant disparity between the volume of termination notices issued and the actual terminations of service. Please identify the basis for deciding what customers will be terminated and further explain why York Water has issued termination notices that are not acted upon.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

August 2, 2022

RESPONSE:

From 2020 until May 2022, York Water served as the third-party billing agent for the City of York wastewater customers. York Water issued its final City of York wastewater bills on May 26, 2022, with a due date of June 20, 2022. Effective July 1, 2022, York Water ceased providing billing agent services to City of York wastewater customers. Also, since 2020, York Water has served as the third-party billing agent for the City of York refuse customers. Both the wastewater and refuse billing services include issuing termination notices for delinquent City of York wastewater and refuse customers. The totals referenced in response to OCA-III-21 include delinquent York Water customers and delinquent City of York wastewater and refuse customers. While the majority of the shut off notices generated were for City of York customers, few shut offs occurred at the direction of the City of York.

(YORK WATER COMPANY RESPONSE TO OCA SET III, NO. 21)

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set III

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET III, NO. 21

Provide the following monthly and annual information in electronic spreadsheet format concerning Pennsylvania residential customers for the period January 1, 2020 through the current month and continuing through this proceeding:

- a. Termination Notices issued;
- b. Termination Notices resolved with payment;
- c. Termination Notices resolved with payment plan;
- d. Termination Notices not resolved and eligible for termination of service;
- e. Termination of Service; and
- f. Reconnection of Service within 30 days.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

June 23, 2022

RESPONSE:

- a. The number of notices issued is included in the attached spreadsheet OCA III-21;
- b. The Company does not track the number of notices resolved with payment;
- c. The Company does not track the number of notices resolved with payment plan;
- d. The Company does not track notices not resolved and eligible for termination;
- e. The number of service terminations is included in the attached spreadsheet;
- f. The Company does not track the number of reconnections within 30 days.

OCA Set III, No. 21

	OCA SCEIII, NO.			
Month	Termination notices	Termination of service		
120	40.63			
Jan-20	4963	73		
Feb-20	4086	55		
Mar-20	1331	51		
Apr-20	0	0		
May-20	0	0		
Jun-20	0	0		
Jul-20	0	0		
Aug-20	0	0		
Sep-20	0	0		
Oct-20	0	0		
Nov-20	0	0		
Dec-20	0	0		
Jan-21	4087	0		
Feb-21	2389	54		
1-Mar	3099	67		
Apr-21	3657	63		
May-21	2905	75		
Jun-21	3443	29		
Jul-21	3184	18		
Aug-21	3458	45		
Sep-21	3267	44		
Oct-21	3740	29		
Nov-21	783	41		
Dec-21	3137	30		
Jan-22	5179	24		
Feb-22	4707	20		
Mar-22	3766	23		
Apr-22	6543	15		
•	4223	19		
May-22	4223	19		

(YORK WATER COMPANY RESPONSE TO OCA SET XI, NO. 1)

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set XI

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET XI, NO. 1

What are York Water's procedures and policies related to adherence to the Discontinuance of Services to Leased Premises Act (DSLPA), 66 Pa. C.S. § 1521, et seq.? Please provide a copy of York Water's written policies, training materials, and other written documents which describe the policies and procedures related to the Discontinuance of Services to Leased Premises Act.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

August 5, 2022

RESPONSE:

The Company adheres to the Act through the correct notification to landlords and tenants for delinquent accounts, compiling tenant information during the delinquent posting process, and allowing payment from a tenant for current charges. The Company does not have written documents describing the policies and procedures related to Discontinuance of Services to Leased Premises Act.

EXHIBIT BA-10

(YORK WATER COMPANY RESPONSE TO OCA SET XI, NOS. 5, 6, AND 11)

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set XI

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET XI, NO. 5

When a tenant exercises his/her right to continued service pursuant to DSLPA 66 Pa. C.S. § 1527:

- a. Is the tenant required to put the account in his/her name?
- b. What is the initial amount they need to pay to continue service?
- c. How does York Water determine the future monthly payments required to continue service?
- d. How is the tenant notified of the monthly amount they must pay?

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

August 5, 2022

RESPONSE:

- a. The tenant is not required to place service in their name.
- b. The amount to continue services for a tenant is the amount equal to the bill for the affected account of the landlord ratepayer for the billing month preceding the notice to the tenants.
- c. York Water determines the future monthly payments required to continue service pursuant to its Commission-approved tariff.
- d. A tenant is notified via a delinquent posting to the property where notification of tenant charges is provided. York Water is in the process of revising its practices, such that it will send the tenant(s) a notice in the second and each succeeding billing month of the total amount of the bill that they must pay to continue service.

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set XI

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET XI, NO. 6

Provide a copy of the notice or notices used by York Water to notify tenants of the amount due for each succeeding period after they elect to continue or resume service and make an initial payment. How often is this notice issued?

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

August 5, 2022

RESPONSE:

As explained in response to OCA-XI-5(d), York Water is in the process of revising its practices, such that it will send the tenant(s) a notice in the second and each succeeding billing month of the total amount of the bill that they must pay to continue service. This includes developing a notice to send to tenants in the second and each succeeding billing month.

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set XI

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET XI, NO. 11

Provide York Water's policies concerning the process tenants must follow to apply to have utility service continued or resumed to a property in which service was discontinued, including any documentation required to be provided by the tenant. Identify whether or how this process differs from when the landlord requests termination of service compared to when the landlord fails to pay the bill.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

August 5, 2022

RESPONSE:

York Water interprets this interrogatory's use of "discontinuance" as meaning a voluntary relinquishment of service, as defined by Section 1521 of the Public Utility Code. With that understanding, the Company answers as follows:

For a single unit residential building, the tenant would submit an application for service online on the Company's website, in person, or by mail. Generally, the only documentation required is the application for service. This process is the same for a "discontinuance" of service at the request of the landlord ratepayer and a "termination" of service for the landlord ratepayer's non-payment.

For a multi-unit residential building or mobile home park that is not individually metered, the Company is updating its practices, such that a tenant can continue or resume service by paying the amounts specified in Section 1527 of the Public Utility Code. Alternatively, the tenant has the "right to agree to subscribe for future service individually if this can be accomplished without a major revision of distribution facilities or additional right-of-way acquisitions." 66 Pa. C.S. § 1527(d). This process is the same for a "discontinuance" of service at the request of the landlord ratepayer and a "termination" of service for the landlord ratepayer's non-payment.

EXHIBIT BA-11

(YORK WATER COMPANY RESPONSE TO OCA SET VII, NO. 1)

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set VII

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET VII, NO. 1

With regard to the "Guidelines for agencies distributing York Water Cares funds for The York Water Company," provided in response to OCA-III-38, Attachment A, please provide the following information:

- a. When were these guidelines created by York Water?
- b. To whom were the guidelines distributed (identifying each "agency") and when?
- c. The total amount of York Water Cares program funds distributed by agency in calendar year 2021 and 2022 to date;
- d. The monthly reports received by York Water pursuant to these guidelines from each agency for the calendar year 2021 and 2022 to date.
- e. Any compilation of the monthly reports received by York Water, such as spreadsheets, year-end totals, internal analysis of the program, etc.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

August 2, 2022

RESPONSE:

- a. The guidelines for agencies distributing CARES funds were created in March 2019.
- b. The guidelines were distributed to The Salvation Army on November 12, 2019, and to the Community Progress Council on July 13, 2020.
- c. In 2021, the Salvation Army disbursed \$8,822.06, and the Community Progress Council disbursed \$23,465.34. In 2022, the Community Progress Council has disbursed \$967.31. No funds have been disbursed by the Salvation Army to date in 2022. See Attachments OCA-VII-1 2021 Salvation Army-YWC spreadsheet, OCA-VII-1 2021 CPC-YWC spreadsheet, and OCA-VII-1 2022 CPC-YWC spreadsheet.
- d. See the attachments provided in response to part c.
- e. See the attachments provided in response to part c.

EXHIBIT BA-12

(YORK WATER COMPANY RESPONSE TO OCA SET III, NO. 37)

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set III

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET III, NO. 37

Please provide the following monthly information for its low income program since its inception:

- a. Number of participating customers enrolled;
- b. Number of customers denied enrollment;
- c. Number of customers who successfully completed the program;
- d. Number of customers who were terminated or failed to complete the program;
- e. Arrears balance at entry;
- f. Arrears balance at either termination or completion of the program;
- g. Dollar amount of arrears forgiveness awarded; and
- h. The percentage of customers enrolled who successfully completed the program.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

June 23, 2022

RESPONSE:

The Company does not track the information requested.

EXHIBIT BA-13

(YORK WATER COMPANY RESPONSE TO OCA SET III, NOS. 31 THROUGH 35)

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set III

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET III, NO. 31

Provide any research and associated report or other internal document that reflects an analysis of affordability for water and wastewater services prepared by or relied upon by York Water in the development of its low income program since 2018.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

June 23, 2022

RESPONSE:

The Company does not have any research, associated reports, or internal documents that reflect an analysis of affordability for water and wastewater services that was used in the development of its low income program.

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set III

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET III, NO. 32

Has York Water undertaken any evaluation of affordability of its proposed rates if approved in this base rate case? If so, please provide such analysis.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

June 23, 2022

RESPONSE:

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set III

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET III, NO. 33

In evaluating affordability, did York Water consider only household income information? If not, identify other criteria used to evaluate affordability of York Water services.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

June 23, 2022

RESPONSE:

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set III

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET III, NO. 34

Does York Water's analysis of affordability reflect the average payments required to maintain electricity and natural gas service by its customers? If not, why not?

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

June 23, 2022

RESPONSE:

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set III

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET III, NO. 35

In evaluating affordability did York Water conduct any customer surveys? Analysis of bill payment experience? Payment plan experience?

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

June 23, 2022

RESPONSE:

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

v.

: Docket Nos. R-2022-3031340 (Water)

R-2022-3032806 (Wastewater)

:

The York Water Company

VERIFICATION

I, Barbara R. Alexander, hereby state that the facts set forth in my Direct Testimony,

OCA Statement 5, are true and correct (or are true and correct to the best of my knowledge,

information, and belief) and that I expect to be able to prove the same at a hearing held in this

matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. §

4904 (relating to unsworn falsification to authorities).

DATED: August 22, 2022

*334308

Signature:

Barbara R. Alexander

Consultant Address: Barbara Alexander Consulting, LLC

83 Wedgewood Drive Winthrop, Maine 04364

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY :

COMMISSION :

: Docket No. R-2022-3031340

(WATER)

v. :

: Docket No. R-2022-3032806

: (WASTEWATER)

YORK WATER COMPANY

DIRECT TESTIMONY

OF

TERRY L. FOUGHT

ON BEHALF OF

PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

AUGUST 19, 2022

TABLE OF CONTENTS

YORK WATER COMPANY WATER AND WASTEWATER OPERATIONS

GENERAL

Description of Operations	3
Customer Complaint Logs (Water and Wastewater)	4
Pressures and Pressure Surveys (Water)	6
Fire Hydrants (Water)	11
POSITIVE ACQUISITION ADJUSTMENTS	
Wrightsville Water System and Felton Wastewater Systems	12
NEGATIVE ACQUISITION ADJUSTMENTS	
Jacobus Wastewater System	15
RECENT CUSTOMER COMPLAINTS - INFORMAL, FORMAL, PIH ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,16

1 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS FOR THE RECORD.

2 A. Terry L. Fought, 780 Cardinal Drive, Harrisburg, Pennsylvania, 17111.

3

4 Q BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

A. I am a self-employed consulting engineer retained by the Office of Consumer

Advocate (OCA) for the purposes of providing testimony in this proceeding.

7

8 Q. PLEASE DESCRIBE YOUR BACKGROUND AND QUALIFICATIONS.

9 A. Appendix A, which is attached to this testimony, describes my educational background and applicable experience.

11

12

13

Q. WHAT ISSUES HAVE YOU BEEN ASKED TO INVESTIGATE REGARDING THIS YORK WATER COMPANY (YWC) RATE CASE?

14 A. The OCA requested that I investigate: (1) quality of service issues, (2) customer complaints and (3) acquisition adjustments.

16

17

Q. WHAT DID YOUR INVESTIGATION CONSIST OF?

A. My investigation included: (1) reviewing portions of YWC's filing applicable to
Quality of Service; (2) reviewing informal and formal complaints filed by YWC
customers with the PUC; (3) reviewing customer complaints received by YWC; (4)
reviewing the Direct Testimony of YWC witness Joseph T. Hand, York Water
Statement No. 1; (5) reviewing YWC's responses to the OCA's interrogatories
regarding quality of service issues; (6) reviewing the 2021 York Water Company

- Management and operations Audit¹; (7) attending the Public Input Hearing on August 17 via telephone; (8) reviewing records from the application proceedings for each of the acquired systems; and (9) reviewing the following statutes and regulations addressing acquisitions:
 - 66 Pa. C.S. § 1327. Acquisition of Water and Sewer Utilities.
 - 52 Pa. Code § 69.701. Viability of small water systems.
 - 52 Pa. Code § 69.711. Acquisition Incentives.
 - 52 Pa. Code § 69.721. Water and wastewater system acquisitions.

YWC'S WATER SUPPLY & WASTEWATER SYSTEMS

Q. BRIEFLY DESCRIBE YWC'S WATER AND WASTEWATER OPERATIONS.

A. The Company is engaged in the business of furnishing water and wastewater service to over 75,000 customers pursuant to certificates of public convenience and necessity issued by the Commission. York Water provides direct water service in the City of York, in the Boroughs of East Prospect, Hallam, Jacobus, Jefferson, Loganville, Manchester, Mount Wolf, New Salem, North York, Railroad, Seven Valleys, Spring Grove, West York, York Haven and Yorkana, and in the Townships of Codorus, Conewago, East Manchester, Hellam, Hopewell, Jackson, Lower Windsor, Manchester, Newberry, North Codorus, North Hopewell, Paradise, Shrewsbury, Springettsbury, Springfield, Spring Garden, West Manchester, West Manheim, Windsor and York in York County, Pennsylvania and the Boroughs of Abbottstown and Carroll Valley and Townships of Berwick, Cumberland, Oxford,

¹ PA PUC Bureau of Audits, Docket No D-2020-3021861

1	Hamilton, Reading, Mount Pleasant, Union, and Straban in Adams County,
2	Pennsylvania. The Company also provides wholesale service to the Boroughs of
3	Glen Rock, New Freedom, and Stewartstown and to Dover Township.
4	In addition, York Water provides wastewater service in the Boroughs of East
5	Prospect, Felton, Jacobus, and West York, in the Townships of East Manchester,
6	Lower Windsor, and West Manheim in York County, Pennsylvania, in the Township
7	of Letterkenny in Franklin County, Pennsylvania, and in the Township of Straban

Q. WHAT QUALITY OF SERVICE ISSUES ARE INCLUDED IN YOUR TESTIMONY REGARDING THE WATER AND WASTEWATER SYSTEMS?

A. My testimony addresses customer complaint logs, pressures and pressure surveys, fire hydrants, and customer complaints, including formal complaints and testimony at the August 17th Public Input Hearing. Unless otherwise indicated, my recommendations below apply to both the water and wastewater systems.

CUSTOMER COMPLAINT LOGS

Q. WHAT ARE THE PUC'S REQUIREMENTS FOR CUSTOMER COMPLAINTS?

19 A. According to 52 Pa. Code § 65.3. Complaints:

in Adams County, Pennsylvania.²

- (a) *Investigations*. A public utility shall make a full and prompt investigation of complaints made by the Commission or by others, including customers, relating to service or facilities.
- (b) Records of complaints. A public utility shall preserve for a period of at least 5 years, written service complaints showing the name and address of the complainant, the date and character of the complaint and the final disposition of the complaint.

² York Water Statement No. 1, p.4.

Q. WHAT INFORMATION HAS YWC SUBMITTED CONCERNING WATER AND WASTEWATER CUSTOMER COMPLAINTS?

- A. In response to OCA-Set-VIII-1, YWC stated that the Company does not maintain a customer complaint log for all customer complaints received. See Exhibit TLF
 1.
- In response to OCA-Set-II-6, YWC provided a listing of 176 informal/formal mediations and complaints filed with the PUC regarding its water systems received during the calendar year 2019 through May 23, 2022.
- In response to OCA-Set-II-18, YWC provided a listing of one informal/formal mediations and complaints filed with the PUC regarding its wastewater systems received during the calendar year 2019 through May 18, 2022. YWC also submitted an Excel spreadsheet listing twenty-two other wastewater customer complaints from 2019 through June 6, 2022, that were not filed with the PUC.

Q. DID YWC'S LISTING OF COMPLAINTS INCLUDE THE CHARACTER AND DISPOSITION OF THE COMPLAINTS?

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- 17 A. Not entirely. Although the character of the complaint was included for most of the
 18 water complaints filed with the PUC, the final disposition only noted when the PUC
 19 case was closed. The 176 water system complaints filed with the PUC included
 20 two pressure complaints and one YWC service line leak complaint.
 - Regarding the twenty-two wastewater complaints not filed with the PUC, sixteen were determined to be the responsibility of the customers and other utilities. The remaining six complaints were sewer backups: three located in YWC's Amblebrook

System; two located in the West York System; and one in the Letterkenny System.

YWC adequately responded to these six complaints.

Α.

4 Q. DO YOU HAVE ANY RECOMMENDATIONS REGARDING YWC SUBMITTING 5 A LISTING OF CUSTOMER COMPLAINTS IN FUTURE RATE CASES?

Yes, with the understanding that the PUC requires that records of complaints be preserved for five years so that OCA and other parties can easily review the adequacy of the public utilities responses, YWC should submit a complaint log that: (1) includes all complaints or records of customer disputes received by phone, online, and in writing, (not just those filed with the Commission), and (2) submit the listing of complaints in live Excel format, including providing more specific details of the complaints as discussed above, and also indicating the final disposition of the complaint.

Regarding the water system, I suggest the complaint listing include the following categories so that the data can be sorted by date and location: date, location, and the nature of complaint categorized as dirty water, rusty water, water taste, odor, or color, staining (of laundry or plumbing fixtures), request for water testing, customer property damage, incomplete surface restoration, and health issues.

Regarding the wastewater system, I suggest the complaint listing include the following categories: date, location, and the nature of complaint categorized as odor, sewer backups, pump station alarms, grinder pumps, sewer main breaks, customer property damage, and incomplete surface restoration.

PRESSURES AND PRESSURE SURVEYS

Q. WHAT ARE THE PUC'S REQUIREMENTS FOR PRESSURES AND PRESSURE

SURVEYS?

- 4 A. According to 52 Pa. Code § 65.6. Pressures:
 - (a) Variations in pressure. The utility shall maintain normal operating pressures of not less than 25 p.s.i.g. nor more than 125 p.s.i.g. at the main, except that during periods of peak seasonal loads the pressures at the time of hourly maximum demand may be not less than 20 p.s.i.g. nor more than 150 p.s.i.g. and that during periods of hourly minimum demand the pressure may be not more than 150 p.s.i.g. A utility may undertake to furnish a service which does not comply with the foregoing specifications where compliance with such specifications would prevent it from furnishing adequate service to any customer or where called for by good engineering practices. The Company of the Commission to require service improvements incorporating standards other than those set forth in this subsection when, after investigation, it determines that such improvements are necessary is not hereby restricted.
 - (b) Pressure gauges. Within 2 years after the effective date of this section, each utility shall obtain one or more recording pressure gauges for each separately operated pressure zone for the purpose of making pressure surveys as required by this section. These gauges shall be able to record the pressure experienced on the zones and shall be able to record a continuous 24-hour test. Each utility serving 1,000 or more customers or 1,000 or more customers in any separately operated zone of a multi-zone utility shall maintain one or more of these recording pressure gauges in service at some representative point or points in each of the pressure zones of the utility.
 - (c) *Telemetering*. An utility may make the pressure surveys required by this section by means of telemetered information electronically transferred to printed copy instead of using recording pressure gauges.
 - (d) *Pressure surveys.* At regular intervals, but not less than once each year, each utility shall make a survey of pressures in its distribution system of sufficient magnitude to indicate the pressures maintained at representative points on its system. The surveys should be made at or near periods of maximum and minimum usage. Records of these surveys shall show the date and time of beginning and end of the test and the location at which the test was made. Records of these pressure surveys shall be maintained by the utility for a period of at least three years and shall be made available to representatives, agents, or employes of the Commission upon request.

Notes of Decisions

Adequate Pressure

The 25 p.s.i.g. minimum expressed in subsection (a) is not intended to restrict the Company of the PUC to order improvements where service is inadequate; therefore, the PUC has the power to order needed improvements notwithstanding

1	that the pressure in a utility's main meets the standard of the regulation. Barone v
2	Pennsylvania Public Utility Commission, 485 A.2d 519 (Pa. Cmwlth. 1984).

Q. WHAT ARE DEP'S REQUIREMENTS FOR SYSTEM PRESSURES?

- 5 A. According to DEP's Public Water Supply Manual, Part II, Community System
 6 Design Standards:
 - 1. Pressure³

All water mains, including those not designed to provide fire protection, shall be sized after a hydraulic analysis based on flow demands and pressure requirements. The pipe system and its appurtenances shall be designed to maintain a minimum pressure of 20 pounds per square inch, gauge (psig) at ground level at all points in the distribution system under all conditions of flow. The normal working pressure in the distribution system should be approximately 60 psig.

Q. WHAT ARE THE DIFFERENCES BETWEEN THE PUC AND DEP PRESSURE REQUIREMENTS?

- A. The PUC has a maximum and minimum pressure criterion while DEP has a minimum and normal working pressure criterion. The PUC has a minimum criterion of 25 psi at the main while DEP's minimum criteria is 20 psi at ground level. Assuming the main is buried 4.5 feet below ground, the DEP minimum criteria is equivalent to 22 psi at the main.
- Instead of having a pressure survey requirement for all water systems, DEP imposes a pressure survey requirement on specific systems with known pressure problems.

³ Public Water Supply Manual, Part II, Community System Design Standards, May 6, 2006, p. 186.

Q. WHAT ARE THE REPRESENTATIVE POINTS ON THE SYSTEM WHERE PRESSURE SURVEYS SHOULD BE CONDUCTED?

A. In general, the representative points are highest and lowest ground elevations of each distribution system in each pressure zone.

Α.

Q. HOW HAVE PRESSURE SURVEYS CHANGED SINCE 1984?

The latest modification to 52 Pa. Code § 65.6. Pressures occurred in 1984 when the typical technology consisted of either: (1) installing one or more recording pressure gauges in each separately operated pressure zone, or (2) transferring electronic telemetered pressure information to printed copy. In both options, it was intended that the highest and lowest pressures experienced by a customer in each pressure zone would be determined by recording the pressures at representative points. Generally, the highest pressures will be located in the portion of the pressure zone with a water main at the lowest ground elevation, and the lowest pressures will be located in the portion of the pressure zone with a water main at the highest ground elevation⁴.

YWC, like most water supply utilities, now has Supervisory Control and Data Acquisition (SCADA) systems and hydraulic computer models capable of checking pressures throughout its distribution systems. The OCA has accepted utility-provided pressures at fire hydrants from hydraulic models and/or SCADA data in lieu of "pressure surveys" if there haven't been any customer complaints that indicate non-compliance with 52 Pa. Code § 65.6. Having utilities provide this data

⁴ This statement may not consider low pressures due to pressure drops in mains with pipe sizes under 4-inches.

is more cost effective than conducting pressure surveys, assuming the utility provides a complete Customer Complaint Log that includes all customer complaints regarding pressure.

For example, if the complaint log shows that a customer has complained about water pressure, the pressure taken at a nearby fire hydrant can be used to determine compliance with 52 Pa. Code § 65.6 by adjusting the pressure for the difference in ground elevation. If the change in elevation estimated by on-line mapping indicates a possible violation, a field survey can resolve the issue.

Q. HAS YWC PROVIDED INFORMATION REGARDING CUSTOMER PRESSURES AND PRESSURE COMPLAINTS?

A. Yes, in the Filing, Exhibit FIX-2, YWC states that "The Company is in compliance with Commission regulations regarding normal operating pressure standards and pressure surveys at regular intervals". YWC also indicated that some customers have ordinary pressures exceeding 125 psi. See Exhibit TLF-2.

Α.

Q. IS THE INFORMATION PROVIDED BY THE YWC SUITABLE TO REPLACE PRESSURE SURVEYS?

No, YWC has not provided the following: (1) a complete log of all customer complaints that includes all pressure complaints, (2) a statement that it did not receive any other pressure complaints than the two filed with the PUC, and (3) the details and final dispositions of the two pressure complaints filed with the PUC.

Q. HAS DEP ORDERED THE YWC TO ADDRESS HIGH PRESSURES?

2 A. No. DEP does not have a criterion for high pressure.

Α.

Q. DO YOU HAVE ANY RECOMMENDATIONS REGARDING HIGH PRESSURES?

Yes, I have the following recommendations for cases when a utility increases pressures to existing customers to serve new customers. Some existing customers that previously did not need pressure reducing valves (PRV) may not be able to install a PRV without excessive expense after a pressure increase. This is because their property and homes were not designed to include a PRV installation. If a utility increases normal operating pressures to exceed 125 psi in its existing mains in order to serve new customers, the utility should be required to protect the existing customers service lines by either: (1) providing pressure reducing valves approved for water supply with the applicable pressure, or (2) where possible, reducing the pressures in the existing mains to less than 125 psi by installing duel lines or a booster pump station to serve the new customers.

FIRE HYDRANTS

Q. WHAT ARE DEP'S REQUIREMENTS FOR FIRE HYDRANTS?

A. According to DEP's Public Water Supply Manual, Part II, Community System Design Standards, the minimum size permitted for a water main connected to a fire hydrant is 6 inches. See Exhibit TLF-3.

Q. WHAT IS YOUR RECOMMENDATION CONCERNING YWC'S PUBLIC FIRE HYDRANTS?

All of the fire hydrants that cannot provide the minimum fire flow of 500 gallons per minute (gpm) at 20 pounds per square inch should be marked so that they will only be used for flushing and blow-offs. Any fire hydrants connected to less than 6-inch water mains should also be marked so that they will only be used for flushing and blow-offs unless YWC can document that they can provide the minimum fire flow. This is important because it is generally accepted that (1) at least 500 gpm can be pumped from every fire hydrant and (2) if a fire company pumps 500 gpm or more from a hydrant that cannot provide that minimum fire flow, it may cause negative pressures that contaminate other portions of the distribution system.

Α.

POSITIVE ACQUISITION ADJUSTMENTS (ACQUISITION PREMIUMS)

- Q. WHAT IS THE OCA'S POSITION REGARDING YWC'S CLAIM THAT IT MET THE STATUTORY REQUIREMENT TO MAKE A POSITIVE ADJUSTMENT FOR THE WRIGHTSVILLE, FELTON AND THE WEST MANHEIM TOWNSHIP ACQUISTIONS?
- A. West Manheim Township. As explained by Ms. DeAngelo, OCA Statement No.

 2, YWC did not claim an acquisition adjustment for the West Manheim Township

 acquisition and that she agrees with YWC's proposed treatment of that acquisition.

 Wrightsville and Felton Systems. In regard to the Wrightsville and Felton

 acquisitions, it is OCA's position that YWC has not met all nine criteria necessary

 to support a positive adjustment because it has not met Section 1327(a)(3) (the

systems were not providing adequate service at the time of acquisition). Ms. DeAngelo explains the requirements that must be met by a utility to reflect a positive acquisition adjustment in rates.⁵

Wrightsville Water System. YWC acquired a portion of the Wrightsville water system that served one customer – an educational campus of the Eastern York School District. YWC did not provide any documentation that Wrightsville was not providing and maintaining adequate, efficient, safe and reasonable service and facilities at the time of the acquisition. Following the acquisition, Mr. Hand did testify that (1) YWC installed an emergency interconnect to provide water to the remaining Wrightsville Water System in case of a failure of its system using the Susquehanna River and (2) YWC replaced the acquired 90,000 gallon tank with a 310,000 gallon finished water standpipe to provide the necessary water for the expanding educational campus of the School District.⁶ However, he did not provide any documentation that the interconnect was required by the Department of Environmental Protection (DEP) because of concern about the reliability of Wrightsville's Susquehanna River water treatment facilities nor was replacing the 90,000 gallon tank identified in the estimated additional capital requirements in York's application filing.⁷ Therefore, neither the emergency interconnect nor replacement of the 90,000 gallon tank were considered necessary to provide adequate service at the time of acquisition.

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⁵ OCA Statement 2, pp. 3-7.

⁶ York Water Statement No. 1, pp. 11-14.

⁷ Docket No. A-2017-2611372, Order, pp. 8-9.

Felton Borough Wastewater System. According to Mr. Hand, Felton Borough did not want to continue to provide wastewater service to its customers due to increasing costs, regulatory oversite, reporting requirements and concerns about maintaining the system and providing reliable service in future years. Mr. Hand also noted a 2018 DEP Notice of Violation (NOV) that included an effluent violation in August 2017 and a 2018 Chapter 94 Report that identified an inflow/infiltration problems.⁸

The above NOV and effluent violation do not, standing alone, indicate that Felton was providing inadequate service because it is not unusual for wastewater systems to get an NOV that includes an effluent violation. Also, the inflow/infiltration problems are a non-issue since the 2020 Chapter 94 Report includes the following reasonable explanation: "The hydraulic overload status identified in the 2019 Felton Borough Chapter 94 Report was not found in the 2020 review of data. Referencing the 2019 report, the former operator suspected a defect in the housing of the flow meter ultrasonic transducer as the primary cause of continuous higher than permitted flows observed at the facility during the 2019 report year. The review of the 2020 Operational data indicates that no hydraulic or organic overloads are projected for the next 5 years. The YWC continues to pursue investigation and removal of all identified I/I sources." See Exhibit TLF-4.

⁸ York Water Statement No. 1, pp. 16-17.

- Q. HAS YWC SUBMITTED SUFFICIENT DOCUMENTATION THAT INDICATES
 THAT IT MET THE CRITERIA UNDER SECTION 1327(a)(3) FOR A POSITIVE
 ACQUISITION ADJUSTMENT FOR THE WRIGHTSVILLE WATER SYSTEM
 AND FELTON BOROUGH WASTEWATER SYSTEM?
- 5 A. Not in my opinion.

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NEGATIVE ACQUISITION ADJUSTMENTS

- Q. WHAT IS THE OCA'S POSITION REGARDING YWC'S CLAIM THAT IT MET
 THE STATUTORY REQUIREMENT TO MAKE A NEGATIVE ADJUSTMENT
 FOR THE JACOBUS ACQUISITION?
- 11 Α. As explained by Ms. DeAngelo, OCA Statement No. 2, YWC needs to show that YWC's acquisition of the Jacobus wastewater system was a matter of substantial 12 13 public interest in accordance with Section 1327(e). I agree with Ms. DeAngelo that Mr. Hand's testimony indicating that Jacobus Sewer Authority: (1) did not wish to 14 15 continue providing wastewater service to its residents due to increasing costs and challenges of meeting regulatory oversight and reporting requirements and (2) had 16 17 no immediate successor for the Jacobus contracted operator (who was retiring) do not show that YWC's acquisition was a matter substantial public interest. Also, the 18 Commission noted in its Order that based on inquiries by YWC and the 19 Commission to DEP regarding compliance history, the Jacobus system had no 20 current or previous violations, consent orders or corrective action plans.9 21

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- Q HAS YWC JUSTIFIED ITS POSITION THAT ITS ACQUISITION OF THE JACOBUS SYSTEM MET THE CRITERIA FOR A NEGATIVE ACQUISITION ADJUSTMENT UNDER SECTION 1327(e)?
- A. Not in my opinion.

⁹ Docket No. A-2019-3007355, Order, pp. 11.

- 1 RECENT CUSTOMER COMPLAINTS INFORMAL, FORMAL, PIH
- 2 Q. ARE YOU AWARE OF OTHER QUALITY OF SERVICE COMPLAINTS?
- 3 A. Not at this time.
- 4 Q. DOES THIS COMPLETE YOUR WRITTEN DIRECT TESTIMONY?
- 5 A. Yes, at this time. I reserve the right to supplement this testimony either in writing
- or orally if additional relevant information is received.

APPENDIX A

BACKGROUND AND QUALIFICATIONS

TERRY L. FOUGHT, P.E.

Education

Cleveland State University, Cleveland, Ohio, Bachelor of Civil Engineering, 1967

Professional Registrations

Professional Engineer, Pennsylvania, PE-023343-E, 1975

Professional Engineer, New Jersey, GE 25392, 1978 (Inactive)

Professional Engineer, Virginia, 10850, 1979 (Inactive)

Professional Land Surveyor, Pennsylvania, SU-000194-A, 1980 (Inactive)

Employment

From March 1983 to date, I have been a self-employed consulting engineer engaged in providing consulting engineering services to water and wastewater utilities, both private and municipal.

From May 1969 to March 1983, I was employed be E. H. Bourquard & Associates, Inc. as a project engineer to water and wastewater clients. At the time I left the firm I was a vice-president.

From 1962 to 1969, I was employed by the State of Ohio, Department of Highways and the Geauga County Ohio Sanitary Engineers Office as an engineer's assistant to assistant sanitary engineer with breaks in employment to attend college and 1½ years active duty military service.

Experience

I have prepared studies related to and designed water supply, treatment, transmission, distribution and storage facilities. I have provided services to the following private and municipal water suppliers: Amber Hill Mobile Home Park, Brockway Borough Municipal Authority, Dallas Water Company, Eastern Gas and Water Investment Company, Haddonfield Hills Development, Halifax Borough, Langhorne Spring Water Company, Mifflintown Municipal Authority, Neshaminy Water Resources Authority, Newberry Water Company, Pleasant View Mobil Home Park, H. B. Reese Candy Company, Shavertown Water Company, Smethport Water Company, Tunkhannock Water Company, and Watts Business Center.

I have prepared studies related to and designed wastewater collection and interceptor sewers, pumping stations and force mains, and treatment plants. I have provided services to the following private and municipal sewerage utilities: Brockway Glass Company, Central Dauphin School District, Clean Waste Technologies, Inc., Dauphin Borough, Dauphin Borough Municipal Authority, Halifax Area School District, Halifax Municipal Authority, Mercersburg Borough, Middle Paxton Township, Newberry Sewer Company, Newberry Township Municipal Authority, Park-away Park Family Campground, Reading Township Municipal Authority, Reynoldsville Borough, Saint Thomas Township, and Watts Business Center.

I have prepared over 100 stormwater management and drainage plans for land development and subdivision plans in Cumberland, Dauphin, and York Counties. Most of these plans included the design of storm sewer collection systems.

List of Public Utility cases which I have testified or provided substantial assistance:

NEW JERSEY BUREAU OF PUBLIC UTILITIES

Docket Number	Company Name
7712-1140 787-847 814-119 8310-862	City of Trenton Hackensack Water Company City of Trenton City of Trenton

PENNSYLVANIA PUBLIC UTILITY COMMISSION

<u>Docket Number</u>	Company Name
C-2010-2175673	Pennsylvania-American Water Company
C-2011-2259004	Endsley v PAWC
C-2012-2332951	Tschachler v UGI
C-2014-2447138	Hidden Valley Utility Services - Water
C-2014-2447169	Hidden Valley Utility Services - Wastewater
C-2018-2644592	Winola Water Company
C-2020-3022354	McKercher v Borough of Hanover
F-2011-2280415	Lynette Lugo Lopez v PGW
F-2012-2311590	Belinda Lyles v Aqua
F-2012-2330753	Scott v PGW
I-840377	Pennsylvania Gas and Water Company
I-00050109	PAWC High Fluoride Incident
I-00072313	WP Water & Sewer Co.
I-2009-2109324	Clean Treatment Sewer Company
I-2016-2526085	Delaware Sewer Company
P-2008-2075142	Pennsylvania-American Water Company
P-2014-2404341	Delaware Sewer Company
P-2017-2584953	Aqua Pennsylvania, Inc.
P-2017-2594725	Newtown Artesian Water Company
P-2017-2585707	Pennsylvania-American Water Company
P-2017-2589724	Suez Water Pennsylvania, Inc.
P-2020-3020914	Twin Lakes Utilities, Inc.
R-00850174	Philadelphia Suburban Water Company
R-00932785	Meadows Water Company
R-00963708 (Sewer)	Wynnewood Water & Sewer Corporation
R-00963709 (Water)	Wynnewood Water & Sewer Corporation
R-00984257	Consumers Pa. Water Company
R-00984334	National Utilities, Inc.
R-00984375	City of Bethlehem
R-00994672	Superior Water Company
R-00005031	Penn Estates Utilities, Inc.
R-00005050	Emporium Water Company
R-00005212 (Sewer)	Pennsylvania-American Water Company
R-00005997	Jackson Sewer Corporation
R-00027982 (Sewer)	Pennsylvania-American Water Company
R-00049862	City of Lancaster – Sewer Fund
R-00050607	Glendale Yearound Sewer Co.
R-00050659	Wonderview Water Co.
R-00050673	Pocono Water Co.
R-00050678	Mesco, Inc.

PENNSYLVANIA PUBLIC UTILITY COMMISSION (Continued)

Docket Number	Company Name
R-00050814	Marietta Gravity Water Co.
R-00051030	Aqua Pennsylvania, Inc.
R-00051167	City of Lancaster – Water Fund
R-00061297	Emporium Water Co.
R-00061492	Reynolds Disposal Co.
R-00061496	Columbia Water Co.
R-00061617	Allied Utilities Services
R-00061618	Imperial Point Water Co.
R-00061625	Phoenixville Sewer Fund
R-00061645	Eaton Water Co.
R-00062017	Borough of Ambler Water Department
R-00072074 (Sewer)	Aqua PA, Little Washington Division
R-00072075 (Sewer)	Aqua PA, Chesterdale/Williamstown Division
R-00072351	Village Water Company
R-00072491	Clarendon Water Company
R-00072492	City of Bethlehem, Bureau of Water
R-00072493 (Water)	Total Environmental Solutions, Inc., Treasure Lake
R-00072711	Aqua PA
R-2008-2020729 R-2008-2020873	Blue Knob Water Company Warnigk Projects Company
R-2008-2020885	Warwick Drainage Company Warwick Water Works, Inc.
R-2008-2020683 R-2008-2032689	PAWC Coatesville Wastewater Operations
R-2008-2039261	Superior Water Company
R-2008-2039201	Columbia Water Company
R-2008-2047291	Rock Spring Water Company
R-2008-2079310	AQUA, PA
R-2008-2081738	Little Washington Wastewater Company
R-09-2097323	Pennsylvania-American Water Company
R-2009-2102464	Reynoldsville Water Company
R-2009-2103937	PA Utility Company, Inc (Water)
R-2009-2103980	PA Utility Company, Inc (Sewer)
R-2009-2105601	Fryburg Water Company
R-2009-2110093	Birch Acres Water Company
R-2009-2115743	Lake Spangerberg Water Company
R-2009-2116908	Hanover Borough Water
R-2009-2117289	Utilities Inc, Westgate (Water)
R-2009-2117532	Penn Estates Utilities Inc (Water)
R-2009-2117750	Newtown Artesian Water Company
R-2009-2121928	Clean Treatment Sewage Company
R-2009-2122887	United Water Pennsylvania, Inc
R-2009-2132019	AQUA, PA
R-2010-2157062	Tri-Valley Water Supply Company, Inc
R-2010-2166208	Pennsylvania American Water Company (Wastewater) Reynolds Disposal Company
R-2010-2171339 R-2010-2171918	TESI, Treasure Lake, Water Division
R-2010-2171916 R-2010-2171924	TESI, Treasure Lake, Water Division
R-2010-2171924 R-2010-2174643	City of Lock Haven
R-2010-2174043 R-2010-2179103	City of Lock Haven City of Lancaster Water Department
R-2010-2179103	Superior Water Company
R-2010-2194499	Dear Haven Water Company
R-2010-2194577	Dear Haven Sewer Company

PENNSYLVANIA PUBLIC UTILITY COMMISSION (Continued)

Docket Number	Company Name
R-2010-2207833	Little Washington Waste Water, Masthope Division
R-2010-2207853	Little Washington Waste Water, SE Consolidated Division
R-2011-2218562	CMV Sewage Company, Inc.
R-2011-2232243	Pennsylvania-American Water Company
R-2011-2232985	United Water Company
R-2011-2244756	City of Bethlehem- Bureau of Water
R-2011-2246415	Twin Lakes Utilities, Inc.
R-2011-2248531	Wonderview Sanitary Facilities
R-2011-2248937	Fairview Sanitation Company
R-2011-2251181	Borough of Quakertown, Water
R-2011-2255159 R-2012-2286118	Penn Estates Utility Inc - Water Audubon Water Company
R-2012-2230116	North Heidelberg Sewer Company
R-2012-2310366	City of Lancaster Sewer Fund
R-2012-2311725	Borough of Hanover - Sewer
R-2012-2315536	Imperial Point Water Company
R-2012-2336662	Rock Springs Water Company
R-2013-2350509	City of DuBois, Bureau of Water
R-2013-2355276	Pennsylvania-American Water Company
R-2013-2360798	Columbia Water Company
R-2013-2370455	Penn Estates Utilities, Inc Sewer Division
R-2013-2367108	Fryburg Water Company
R-2013-2367125	Cooperstown Water Company
R-2013-2390244	City of Bethlehem – Bureau of Water
R-2014-2400003 R-2014-2420204	Borough of Ambler – Water Department Pocono Waterworks Company, Inc. (Water)
R-2014-2420204 R-2014-2420211	Pocono Waterworks Company, Inc. (Water)
R-2014-2402324	Emporium Water Company
R-2014-2430945	Plumer Water Company
R-2014-2428304	Borough of Hanover Water Department
R-2014-2410003	City of Lancaster-Bureau of Water
R-2014-2427035	Venango Water Company
R-2014-2427189	B E Rhodes Sewer Company
R-2014-2447138	Hidden Valley Utilities Services - Water
R-2014-2447169	Hidden Valley Utilities Services – Sewer
R-2014-2452705	Delaware Sewer Company
R-2015-2462723	United Water Pennsylvania
R-2015-2470184	Borough of Schuylkill Haven Water Department
R-2015-2479962 R-2015-2506337	Corner Water Supply Twin Lakes Utilities, Inc.
R-2016-2538600	Community Utilities of Pennsylvania, Inc.
R-2016-2554150	City of DuBois – Bureau of Water
R-2017-2595853	Pennsylvania-American Water Company
R-2017-2598203	Columbia Water Company
R-2017-2631441	Reynolds Water Company
R-2018-3000022	York Water Company
R-2018-3000834	Suez Water Company
R-2018-3002645 (Water)	Pittsburgh Water & Sewer Authority
R-2018-3002645 (Sewer)	Pittsburgh Water & Sewer Authority
R-2018-3001306 (Water)	Hidden Valley Utility Services
R-2018-3001307 (Sewer)	Hidden Valley Utility Services

PENNSYLVANIA PUBLIC UTILITY COMMISSION (Continued)

Docket Number	Company Name
R-2019-3008947 (Water)	Community Utilities of PA
R-2019-3008948 (Sewer)	Community Utilities of PA
R-2019-3010955	City of Lancaster Sewer Fund
R-2019-3010958	Twin Lakes Utilities, Inc.
R-2020-3017951	Pittsburgh Water and Sewer Authority
R-2020-3017970	Pittsburgh Water and Sewer Authority
R-2020-3019369	Pennsylvania-American Water Company
R-2020-3020256	City of Bethlehem
R-2020-3020917	Audubon Water Company
R-2020-3026116	Hanover Borough Water Department
R-2020-3024773	Pittsburgh Water and Sewer Authority (W)
R-2020-3024774	Pittsburgh Water and Sewer Authority (WW)
R-2020-3024779	Pittsburgh Water and Sewer Authority (SW)
R-2021-3025206	Community Utilities of Pennsylvania, Inc. (W)
R-2021-3025207	Community Utilities of Pennsylvania, Inc. (WW)
R-2021-3026682	City of Lancaster Water Department
R-2021-3027385	Aqua Water Company (W) (WW)

Pennsylvania Public Utility Commission

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set VIII

OFFICE OF CONSUMER ADVOCATE INTERROGATORY OCA SET VIII, NO. 1

Reference: Company's response to OCA Set II-6.

- a. Please provide a key to the column "TYPE" in Attachments A thru D.
- b. Does the Company maintain a customer complaint log for all customer complaints received by the Company? If yes, please provide a copy in Excel format similar to the "Customer Incident Spreadsheet" submitted in response to OCA Set II-18.

RESPONDENT:

M. A. Wheeler Chief Operating Officer

DATE:

August 5, 2022

RESPONSE:

a. **PAR** – payment arrangement request

Billing dispute – customer believes the billing is incorrect

PAR dispute – customer disagrees with the terms of their payment arrangement request

Off dispute – customer filed a complaint because service was terminated for non-payment

CIC – customer has a change in circumstance

Legislative Referral – elected official filed an informal complaint with the BCS on behalf of a constituent

Denial of service – customer attempts to establish service at another location but the request is denied until payment on an arrearage from a previous location is satisfied

People-Delivered Service – Customer filed an informal complaint related to service delivery

Svc. Line leak – customer filed an informal complaint after the Company informed them of the requirement to repair the customer-owned portion of the service line

Pennsylvania Public Utility Commission

v.

The York Water Company Docket Nos. R-2022-3031340 (Water) R-2022-3032806 (Wastewater)

Office of Consumer Advocate Interrogatories Set VIII

Infraction – BCS imposed an infraction against the Company for failing to follow all Chapter 56, Chapter 14 regulations

On PAR – customer filed an informal complaint in dispute of current billing charges.

OFF PAR – service was terminated for non-payment

Payment – customer filed complaint due to threat of shut off for non-payment **Off/Svc. Off** – customer at a new location did not apply for service in their name then filed a complaint because service to property was off

Line extension – customer currently not served by York Water and wanted to connect. Filed an informal complaint to dispute line extension cost.

Low Pressure – customer disputed low pressure inside home

Mtr. **Exchange Dispute** – customer disputed shut off notice he received for failure to schedule meter exchange appointment

PAR w/**Dispute** – complaint filed because customer felt that bills were out of line **Not a Cust.** – complaint filed from an individual disputing York Water's intent to purchase the water and wastewater assets of a mobile home park

Billing/Refund – customer filed a complaint over an overpayment and requested a refund

Other, meter charge – complaint filed over receiving termination notices for a required meter exchange & high bill complaint

Service (**Pressure**) – complaint filed over perceived higher than normal pressure

b. The Company does not maintain a customer complaint log for all customer complaints received.

Exhibit No. FIX-1. Page 1 of 1

Witness: M A Wheeler

THE YORK WATER COMPANY DATA REQUIREMENTS OF THE PENNSYLVANIA PUBLIC UTILITY COMMISSION QUALITY OF SERVICE SDWA VIOLATIONS

53.53 IX. Quality of Service

D. Water and Wastewater Utilities

1

Indicate whether the company is in violation of any provision of the Pennsylvania Safe Drinking Water Act (SDWA) or any rule, regulation or order, or any condition of any permit, variance or exemption granted by the Department of Environmental Protection (DEP), or its predecessor.

- a. Provide information indicating whether the company is in compliance with SDWA provisions at the 25 Pa. Code, § 109.401 regarding general public notification requirements.
 - (i) Provide a copy of each public notification given in accordance with this section, since the last rate proceeding.
 - (ii) Provide a detailed explanation of all actions taken to remedy an acute violation, and/or to comply with the requirements prescribed by a variance or exemption.
 - (iii) State whether any fines or penalties were assessed by DEP, and indicate the amounts paid by the company.
- b. Provide the most recent copies of all annual consumer confidence reports issued pursuant to SDWA Amendments of 1996 since the last rate proceeding.
 - (i) Provide any annual consumer confidence reports which reflect violations of state and federal safe drinking water requirements.
 - (ii) Explain how these violations were resolved.

Response:

The Company is not in violation of any provision of the Pennsylvania Safe Drinking Water Act or any rule, regulation or order, or any condition of any permit, variance or exemption granted by the Department of Environmental Protection.

The Company is under a Consent Order and Agreement with the Department of Environmental Protection due to its exceedance of the Lead and Copper Rule in 2016.

The Company is in compliance with Safe Drinking Water Act provisions regarding general public notification requirements. No public notifications have been given since the last rate proceeding.

A summary of all violations, and actions taken to remedy, is attached to Exhibit No. HIX-1. There have been no fines or penalties assessed by DEP.

A copy of the annual consumer confidence reports issued since the last rate proceeding is attached to Exhibit No. HIX-1.

No annual consumer confidence report has reflected a violation of state and federal safe drinking water requirements.

Exhibit No.FIX-2.
Page 1 of 1

Witness: M A Wheeler

THE YORK WATER COMPANY DATA REQUIREMENTS OF THE PENNSYLVANIA PUBLIC UTILITY COMMISSION QUALITY OF SERVICE OPERATING PRESSURE STANDARDS

53.53 IX. Quality of Service

- D. Water and Wastewater Utilities
- 2. Indicate whether the company is in compliance with 52 Pa. Code, § 65.5 regarding normal operating pressure standards, and with 52 Pa. Code, § 65.6(d) regarding pressure surveys at regular intervals.
 - a. Provide details on any major water pressure problems which had occurred since the last rate proceeding in any part of the water distribution system.
 - b. Describe any action taken on a temporary basis, and the long term solutions developed to address any major water pressure problems.

Response:

The Company is in compliance with Commission regulations regarding normal operating pressure standards and pressure surveys at regular intervals.

No major water pressure problems have occurred since the last rate proceeding.

The ordinary range of pressure in the distribution system is 30 psi to 130 psi. System pressures are maintained by the hydraulic grade that is established by the level of water in various tanks and reservoirs and by pumping.

Exhibit No. FIX-3. Page 1 of 1

Witness: M A Wheeler

THE YORK WATER COMPANY DATA REQUIREMENTS OF THE PENNSYLVANIA PUBLIC UTILITY COMMISSION QUALITY OF SERVICE SERVICE INTERRUPTIONS

53.53 IX. Quality of Service

- D. Water and Wastewater Utilities
- Provide support to demonstrate that water service is being furnished on a continuous basis by supplying a summary of the company records of each service interruption greater than 24 hours since the last rate proceeding.

Response: The Company has not had a service interruption greater than 24 hours since the last rate case proceeding.

Exhibit No.FIX-4.
Page 1 of 1

Witness: M A Wheeler

THE YORK WATER COMPANY DATA REQUIREMENTS OF THE PENNSYLVANIA PUBLIC UTILITY COMMISSION QUALITY OF SERVICE CUSTOMER COMPLAINTS

53.53 IX. Quality of Service

- D. Provide a discussion of the company's policy, or provide a copy of the policy if in written form, on tracking and responding to customer complaints.
- a. Provide a summary report demonstrating the company's compliance
 4. with 52 Pa. Code, § 65.3 regarding the full and prompt investigation of service or facility complaints and the record keeping requirments of such complaints.

Response:

The company responds to informal and formal PUC complaints in accordance with the requirements of 52 Pa. Code 65.3

The company receives complaints and/or inquiries via telephone, email, in-person interaction and social media platforms. In most cases, complaints are resolved at the customer service employee level, and notes are entered in the Company's customer information system as part of the customer's history file. Complaints regarding service or facilities that require additional intervention are escalated to a supervisor for follow-up. When necessary, the Company will issue a Company Report to the customer.

All inquiries are tracked for action taken prior to being closed out, and if the inquiry requires action by someone outside of the customer service department, a customer work order will be created to track the activity until completion.

In addition, the Company established a special link on its web page through which customers can submit complaints or inquiries directly to the customer service department. The President and Chief Executive Officer and the Chief Operating Officer are both copied on all of these inquiries. The VP of Customer Service monitors the activity of any complaints and inquiries several times each day and coordinates the appropriate company response to the inquiry. In an effort to gauge customer satisfaction, the Company also conducts telephone surveys of randomly selected customers whose homes were recently visited in response to a service-related issue. Customer service representatives administer the surveys and the VP-Customer Service reviews the results.

The Company has a VoIP telephone system. The telephone system has a call back feature. Each call is returned in a timely fashion.

Complaints or inquiries requiring some action on the part of the Company are logged into the Company's customer information system as part of the customer's history file.

Exhibit No. FIX-5.
Page 1 of 1

Witness: M A Wheeler

THE YORK WATER COMPANY DATA REQUIREMENTS OF THE PENNSYLVANIA PUBLIC UTILITY COMMISSION QUALITY OF SERVICE DISTRIBUTION SYSTEM MAPPING

53.53 IX. Quality of Service

- D. Water and Wastewater Utilities
- 5. Indicate whether the company is in compliance with 52 Pa. Code, § 65.4(b) regarding complete and current mapping of the entire distribution system.

Response:

The Company keeps complete maps, plans and records of its entire distribution system for its water service showing the size, character and location of each main, street valve and service line, as well as its collection systems for wastewater service showing the size, character and location of each sewer line, manhole, and lateral.

53.53 IX. Quality of Service

D. Water and Wastewater Utilities

Provide a summary report demonstrating the company's efforts in water conservation, since the last rate proceeding, pursuant to 52 Pa. Code, § 65.20.

Response: Education - The Company and its employees undertake an active role in the community to stress the need for water conservation. Speakers are provided to local organizations to explain the need for water conservation. The Company provides text books and a film to local school and scout groups on water conservation. The Company has also sponsored and provided instruction

Water Audit For Large Users - The Company has assigned a team of employees to complete the water audit process in a continuous improvement effort.

for the Boy Scout merit badge on Water and Soil Conservation.

Efficiency Plumbing Fixtures - Most municipalities in which the Company serves have building code provisions which require the installation of water saving plumbing fixtures.

Unaccounted For Water - Refer to Exhibit No. HXI-5, the Company's water audit team also is involved with this process.

Leak Detection - Leak detection and repair is one of the Company's highest priorities.

The Company has an employee whose sole responsibility is leak detection. During calendar year 2021, the Company's Leak Detection Coordinator detected 166 leaks throughout the Company's service territory.

In 2021, the Company also invested in mobile leak detection equipment to continue to search for water leaks in the distribution system.

Our Distribution Department Superintendent periodically contacts municipal street crew superintendents, police and fire officials in the municipalities served by The York Water Company to remind and encourage them to contact the Company if they observe any unusual water flows in the streets or at valve boxes or hydrants. All such reports are promptly investigated.

Metering - The Company meters all customer usage with the exception of fire service.

All meter readings are checked during the billing process to make sure that the most recent consumption is consistent with the historical average. If the reading is abnormal, before billings are mailed, a telephone call is placed to the customer to tell them about the abnormal reading and to encourage them to investigate whether they have any leaking fixtures. The Company has received high praise from its customers for the validation procedure.

Conservation Plan - The Company seeks to encourage cost-effective water conservation in all of its contacts with the citizens of York and Adams Counties.

Each year our customers receive bill inserts that describe ways to conserve water. In addition, a brochure that the Company provides to all new customers contains a section on water conservation.

Also, the Company's Consumer Confidence Report (Refer to Exhibit No. HIX-1) contains water conservation information.

The Company has a Drought Contingency Plan, approved by the Commission and the Department of Environmental Protection, filed as a part of its Tariff.

The York Water Company became a partner of EPA's Water Sense program in 2008. The Company provides information on its website and through a bill insert regarding this program. The program seeks to educate Americans about saving water and protecting the environment.

Exhibit No. FIX-7.
Page 1 of 1

Witness: M A Wheeler

THE YORK WATER COMPANY DATA REQUIREMENTS OF THE PENNSYLVANIA PUBLIC UTILITY COMMISSION QUALITY OF SERVICE METER TESTING

53.53 IX. Quality of Service

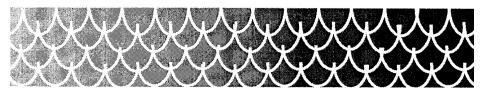
- D. Water and Wastewater Utilities
- 7. Provide a discussion of the company's policy regarding meter requirements, replacements and testing. State if the company's procedures are in compliance with 52 Pa. Code, § 65.8(b).
 - a. Provide meter test records as required in 52 Pa. Code, § 65.8(c) for the 50 meters most recently removed from service.
 - b. Provide a discussion of the company's policy and history of compliance with 52 Pa. Code, § 65.9 regarding adjustment of bills for meter error within the last year.

Response:

The Company's policies regarding meter requirements, replacements and testing and adjustment of bills for meter error are in compliance with 52 Pa. Code, Paragraphs 65.8 and 65.9.

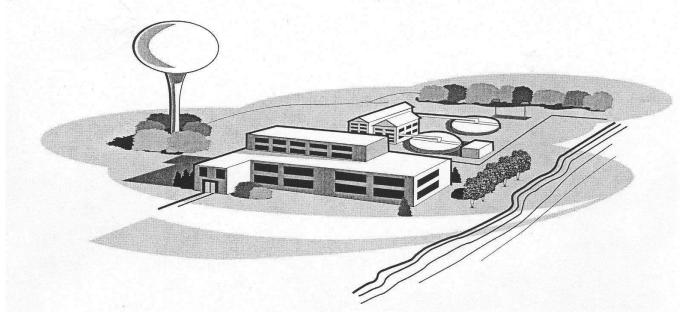
Meter test records for the meters removed from service thus far in 2022 are attached to Exhibit No. HIX-7.





Public Water Supply Manual

383-2125-108



PART II COMMUNITY SYSTEM DESIGN STANDARDS



conditions of flow. The normal working pressure in the distribution system should be approximately 60 psig.

2. Diameter

The minimum size of water main which provides for fire protection and serving fire hydrants shall be 6-inch diameter. Larger sized mains will be required if necessary to allow the withdrawal of the required fire flow while maintaining the minimum residual pressure of 20 psig.

The minimum size of water main in the distribution system where fire protection is not to be provided should be a minimum of 3-inch diameter. Any departure from minimum requirements shall be justified by hydraulic analysis and future water use, and can be considered only in special circumstances.

3. Fire Protection

When fire protection is to be provided, system design should be such that fire flows and facilities are in accordance with the requirements of the State Insurance Services Office.

4. Dead Ends

Dead ends shall be minimized by looping all mains whenever practical. Where dead end lines are necessary in the first stage of construction of a distribution system, the lines shall be provided with the appropriate flushing devices as outlined in Section VIII.B.5.

5. Flushing

Where dead end mains occur, they shall be provided with an approved blow-off or flushing hydrant for flushing purposes. Flushing devices should be sized to provide flows which will give a velocity of at least 2.5 feet per second in the water main being flushed. Fire hydrants may be used for this purpose provided they comply with all of DEP's requirements on fire hydrant installation. No flushing device shall be directly connected to any sewer.

C. Shut-Off Valves

A sufficient number of valves shall be provided on water mains to minimize inconvenience and sanitary hazards will be minimized during repairs. Valves should be located at not more than 500 foot intervals in commercial districts and at not more than one block or 800 foot intervals in other areas of the distribution system.

D. Hydrants

Where freezing temperatures prevail, hydrants of the dry barrel type are preferred. Hydrants of this type should comply with the criteria set forth in AWWA's Standard



The York Water Company

March 24, 2021

Via Digital Submission
Pennsylvania Department of Environmental Protection
Southcentral Regional Office
Clean Water Program
909 Elmerton Avenue
Harrisburg, PA 17110-8200

Reference: 2020 Chapter 94 Municipal Wasteload Management Annual Report

For Felton Wastewater Treatment Plant (NPDES PA0088579 A-1)

The York Water Company is digitally submitting the 2020 Municipal Wasteload Management Report governing the existing Felton WWTP, located in Felton Borough, York County.

If you have any questions, please feel free to contact me at (717) 654-1326, or jackl@yorkwater.com.

Sincerely,

John M. Longstreet Asst. Supt. Wastewater Division

Felton Borough Sewer System Discussion

The York Water Company (YWC) acquired the Felton Borough wastewater treatment plant and collection system on April 9, 2020 and began operations of the system on April 16, 2020. The NPDES Permit # PA0088579 and WQM Part II Permit were transferred to the York Water Company, in February 2021, after PaDEP approved the Felton Borough Act 537 Plan Special Study. The Act 537 Plan Special Study was required to identify the York Water Company as the owner/operator of the Felton Borough sewerage system.

The Felton sanitary sewer collection system was constructed in 2004-2005. The gravity collection system is comprised of 59 sanitary manholes and 9,891.9 ft. of 8" PVC pipe. The collection system contains 1 pump station discharging to 551.5 ft. of 4" PVC forced main. This pump station serves 125 of 126 connected Users.

The Felton Borough wastewater is treated by the Felton Borough Wastewater Treatment Plant (NPDES #PA0088579). The treatment facility is a 40,000 gpd extended aeration package plant. The treated effluent is discharged to North Branch of Muddy Creek.

Operations and Maintenance

Since acquisition, the York Water Company has implemented an improved operations and maintenance program at the facility. In 2020, the YWC replaced both EQ tank pumps, a faulty UV sensor, effluent composite sampler, skimmers, return lines, and clarifier weir plates. Quarterly maintenance of blowers now includes oil change, filter, and belt replacements. The facility's emergency generator is tested weekly and serviced annually.

The YWC also improved sludge management by operating the aerobic digesters to allow for periodic settling and decant operations. A decant pump was installed to eliminate the pre-YWC practice of allowing the digester to overflow to the EQ tank during normal wasting operations. Through these changes, the facility has improved the overall loading and operation of the facility.

In 2020, the YWC Electronics division began installing a SCADA system to enable remote observation and trending of data collected. Completion of the installation is anticipated in 2021.

Inflow and Infiltration

As part of the Corrective Action Plan (CAP) submitted by the former operator, the YWC began the CCTV inspection and cleaning of the collection system. In 2020, a total of 5,039 ft of sewer line was inspected for defects and infiltration sources using CCTV. As part of the inspection process, the same 5,039 ft of sewer were cleaned using high pressure jetting equipment.

Most of the sewer lines inspected found no significant defects that would be the sources of Inflow and Infiltration. The inspection found that Manhole FB-58 has subsided and has caused some pipe deflection in the immediate upstream and downstream manhole/pipe transitions. Based on field observations, this deflection has existed for several years and results in poor flow hydraulics through the manhole. The YWC has identified this manhole for replacement and correction of the observed pipe deflection.

The system does experience Inflow and Infiltration during significant rain events. The inspection did not identify any obvious sources of I/I, as the inspection took place during a relatively rain free period. Due

to the continuation of higher flows for several days after a rain event, the YWC suspects that a significant portion of the extraneous flow is coming from basement sumps activated during high ground water tables. Felton Borough notified residents, in early 2020, that basement sump pump discharge to the sanitary sewer is prohibited. The YWC is currently evaluating the best option to address these potential sources of inflow and infiltration.

Hydraulic & Organic Overloads

The hydraulic overload status identified in the 2019 Felton Borough Chapter 94 Report was not found in the 2020 review of data. Referencing the 2019 report, the former operator suspected a defect in the housing of the flow meter ultrasonic transducer as the primary cause of continuous higher than permitted flows observed at the facility during the 2019 report year.

The review of the 2020 Operational data indicates that no hydraulic or organic overloads are projected for the next 5 years. The YWC continues to pursue investigation and removal of all identified I/I sources.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

Docket Nos. R-2022-3031340 (Water)

V.

R-2022-3032806 (Wastewater)

The York Water Company

VERIFICATION

I, Terry L. Fought, hereby state that the facts set forth in my Direct Testimony, OCA Statement 6, are true and correct (or are true and correct to the best of my knowledge, information, and belief) and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: August 19, 2022

*334090

Signature:

Terry L. Fought

Consultant Address: 780 Cardinal Drive Harrisburg, PA 17111

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission:

•

v. : Docket Nos. R-2022-3031340 (Water)

: R-2022-3032806 (WW)

York Water Company :

REBUTTAL TESTIMONY OF DR. DAVID S. HABR

ON BEHALF OF THE OFFICE OF CONSUMER ADVOCATE

September 16, 2022

- 1 Q: PLEASE STATE YOUR NAME.
- 2 A: David S. Habr.
- 3 Q: ARE YOU THE SAME DAVID S. HABR WHO PREVIOUSLY FILED
- 4 DIRECT TESTIMONY IN THIS PROCEEDING?
- 5 A: Yes, I am.

18

19

20

21

- 6 Q: WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
- 7 A: I have several comments related to the capital structure I&E witness Keller
- 8 recommends in his direct testimony (Page 12, lines 1-16).
- 9 Q: WHAT CAPITAL STRUCTURE DID MR. KELLER RECOMMEND?
- 10 A: Mr. Keller accepted the capital structure proposed by Company witness Moul,
- 45.23% long-term debt and 54.55% common equity. As I noted in my direct
- testimony, York Water's debt ratio fell from 49.0% to 36.8% as a result of York
- Water using the proceeds of an April 2022 common stock issuance to pay off
- \$29.32 million in long-term debt.

It was York Water's choice to refinance the long-term debt in this fashion.

The Company could have refinanced the long-term debt by issuing new long-term debt instead of common stock. By doing so the debt ratio would have remained

basically unchanged, and ratepayers would not have to pay higher rates due to

excess common equity in the capital structure. For all of the reasons I have

discussed in my direct testimony, the Company's proposed ratemaking capital

structure, as adopted by Mr. Keller, is not reasonable for ratemaking purposes.

1 Q: DO YOU HAVE ANY OTHER COMMENTS ON THE CAPITAL

2 STRUCTURE ACCEPTED BY MR. KELLER?

- 3 A: Yes, I do. In its Second Quarter 2022 10-Q, York Water observed that a debt ratio
- 4 "between forty-six and fifty percent has historically been acceptable to the PPUC
- 5 in rate filings." Thus, York Water has identified in its own financial reports that
- 6 Mr. Moul's and therefore, Mr. Keller's, 45.23% debt ratio is below the PPUC's
- 7 historically acceptable range.
- 8 Q: DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONHY?
- 9 A: Yes, it does.

¹York Water Company 2022 second quarter 10-Q, p. 23.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

: Docket Nos. R-2022-3031340 (Water)

R-2022-3032806 (Wastewater)

:

The York Water Company

v.

VERIFICATION

I, David S. Habr, hereby state that the facts set forth in my Rebuttal Testimony, OCA

Statement 3R, are true and correct (or are true and correct to the best of my knowledge,

information, and belief) and that I expect to be able to prove the same at a hearing held in this

matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. §

4904 (relating to unsworn falsification to authorities).

DATED: September 16, 2022

O22 Signature: <u>/David S. Habr/</u>

*335405

David S. Habr

Consultant Address: Habr Economics

213 Cornuta Way

Nipomo, CA 93444-5020

OCA STATEMENT 4R

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION)	
)	DOCKET NOS. R-2022-3031340 (WATER)
v.)	R-2022-3032806 (WASTEWATER)
)	
THE YORK WATER COMPANY)	

REBUTTAL TESTIMONY OF JEROME D. MIERZWA

ON BEHALF OF THE PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

SEPTEMBER 16, 2022

ASSOCIATES, INC.
10480 Little Patuxent Parkway
Suite 300
Columbia, Maryland 21044

1		I. <u>INTRODUCTION</u>
2	Q.	WOULD YOU PLEASE STATE YOUR NAME AND BUSINESS
3		ADDRESS?
4	A.	My name is Jerome D. Mierzwa. I am a Principal and Vice President of Exeter
5		Associates, Inc ("Exeter"). My business address is 10480 Little Patuxent Parkway
6		Suite 300, Columbia, Maryland 21044. Exeter specializes in providing public utility-
7		related consulting services.
8	Q.	ARE YOU THE SAME JEROME D. MIERZWA THAT FILED DIRECT
9		TESTIMONY IN THIS PROCEEDING ON AUGUST 19, 2022?
10	A.	Yes. I am.
11	Q.	WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
12	A.	The purpose of my rebuttal testimony is to respond to certain aspects of the direct
13		testimony of Brian Kalcic filed on behalf of the Office of Small Business Advocate
14		("OSBA"); and Ethan H. Cline filed on behalf of the Bureau of Investigation and
15		Enforcement ("I&E").
16		
17		II. OSBA WITNESS: BRIAN KALCIC
18	Q.	HOW DID THE YORK WATER COMPANY ("YORK" OR "COMPANY")
19		ALLOCATE ITS PROPOSED WATER REVENUE REQUIREMENT
20		INCREASE TO THE VARIOUS CUSTOMER CLASSES?
21	A.	York has proposed to allocate its proposed revenue requirement increase to each
22		customer class based on the results of its class cost of service study ("CCOSS").

1	Q.	IS MR. KALCIC IN AGREEMENT WITH THE COMPANY'S PROPOSED
2		REVENUE ALLOCATION?
3	A.	Exclusive of the Company's proposed assignment of a portion of the wastewater
4		revenue requirement to water service, Mr. Kalcic is in agreement with the Company's
5		proposed revenue allocation. Mr. Kalcic refers to the assignment of a portion of the
6		wastewater revenue requirement to water service as "Act 11 considerations."
7	Q.	DO YOU AGREE WITH MR. KALCIC'S RECOMMENDATION THAT,
8		ABSENT ACT 11 CONSIDERATIONS, THE COMMISSION SHOULD
9		ADOPT THE WATER CLASS REVENUE ALLOCATIONS PROPOSED
10		BY YORK IN THIS PROCEEDING?
11	A.	No, I do not. As explained in my direct testimony, the system-wide and customer class
12		specific maximum day and maximum hour extra-capacity demand factors utilized in
13		the Company's CCOSS are outdated. Those extra-capacity demand factors have a
14		significant impact on the CCOSS results. The system-wide maximum day factor
15		reflected in York's CCOSS was experienced in 2010, and the system-wide maximum
16		hour extra-capacity factor was experienced in 2006. The customer class specific
17		extra-capacity factors reflected in York's CCOSS are based on an analysis conducted
18		by York over 45 years ago. The extra-capacity demand factors utilized in York's
19		CCOSS do not reflect the usage characteristics of York's current customers and,
20		therefore, should not be used as the basis for determining the class revenue allocations
21		and the setting of rates in this proceeding. ²

Direct Testimony of Brian Kalcic, at 9, lines 21-23.
 Direct Testimony of Brian Jerome D. Mierzwa, at 10, line 1-18.

1	Q.	HOW DO YOU RECOMMEND THAT RATES BE DETERMINED IN
2		THIS PROCEEDING?
3	A.	The extra-capacity factors included in the OCA's CCOSS presented in my direct
4		testimony are reflective of the usage characteristics of York's current customers.
5		Therefore, I recommend that the class revenue allocations adopted in this proceeding
6		be determined based on the results of the OCA's CCOSS. ³
7	Q.	HOW DID YORK PROPOSE TO ALLOCATE THE ACT 11
8		WASTEWATER REVENUE REQUIREMENT ASSIGNED TO WATER
9		SERVICE TO THE VARIOUS WATER CUSTOMER CLASSES?
10	A.	York proposed to allocate the Act 11 revenue requirement to the Residential and
11		Commercial water service classes in proportion to each class's relative share of the
12		water cost of service. ⁴
13	Q.	DID YOU RECOMMEND ANY MODIFICATIONS TO YORK'S ACT 11
14		ALLOCATION PROPOSAL?
15	A.	Yes. In my direct testimony I recommended that Industrial and Public Fire Protection
16		customers be included in the allocation.
17	Q.	DOES MR. KALCIC AGREE WITH THE METHOD USED BY YORK TO
18		ALLOCATE THE WASTEWATER REVENUE REQUIREMENT
19		ASSIGNED TO WATER SERVICE?
20	A.	No. Mr. Kalcic claims that the Act 11 wastewater revenue requirement shortfall to be
21		recovered from water service customers should be assigned to each water customer
22		class based on the corresponding class's wastewater revenue requirement shortfall. ⁵

³ Id., at 16, lines 7-11.
⁴ York Statement No. 108, at 8.
⁵ OSBA Statement No. 1 p. 11 lines 1-6.

2		wastewater class should be recovered from Residential water customers.
3	Q.	DO YOU AGREE WITH MR. KALCIC'S PROPOSAL CONCERNING
4		THE ALLOCATION OF THE ACT 11 WASTEWATER REVENUE
5		REQUIREMENT SHORTFALL TO WATER SERVICE CUSTOMERS?
6	A.	No. Mr. Kalcic's proposal might have merit if a significant percentage of York's
7		wastewater customers were also water customers. However, they are not. York serves
8		approximately 73,000 water and wastewater customers. Of these 73,000 customers,
9		approximately 5,000 of those customers are also wastewater customers. There is no
10		cost basis to assign the unrecovered wastewater costs of a particular class to the water
11		customers in that same class that do not receive wastewater service from York and pay
12		another provider for wastewater service. Mr. Kalcic's proposed change to York's Act
13		11 revenue requirement allocation should not be adopted.
14	Q.	MR. KALCIC HAS PROPOSED REDUCING THE COMPANY'S \$2.76
15		MILLION ACT 11 ASSIGNMENT OF THE WASTEWATER REVENUE
16		REQUIREMENT BY \$1.0 MILLION TO \$1.7 MILLION.6 WHAT IS YOUR
17		RESPONSE?
18	A.	In my direct testimony, I recommended that the \$2,670,856 Act 11 wastewater revenue
19		requirement York proposed to assign to water service be reduced by \$625,000 to
20		\$2,045,856. ⁷ Under my recommendation, 24.7% of the wastewater revenue
21		requirement would be assigned to water service. Under Mr. Kalcic's recommendation,
22		20.5% of the wastewater revenue requirement would be assigned to water service. The
23		amount of the wastewater revenue requirement assigned to water service is a matter of
24		judgement. The difference between my recommendation and Mr. Kalcic's

That is, for example, the wastewater revenue requirement shortfall of the Residential

1

⁶ OSBA Statement No. 1, p. 18, lines 17-20. ⁷ OCA Statement No. 1, p. 24, 2-3.

recommendation is approximately \$350,000, or 4%. Therefore, based on this comparison alone, I don't believe my Act 11 revenue recommendation, or the recommendation of Mr. Kalcic is superior because the differences are not very significant.

However, in implementing his adjustment to the Act 11 assignment of the wastewater revenue requirement to water service, Mr. Kalcic has assigned the Act 11 revenue requirement to York's wastewater customer classes so that the increase to each class would be 1.75 times the system average increase, or 58.3%. This is shown on Schedule BK-2WW. In adjusting the Company's proposed assignment of the Act 11 revenues to each of the wastewater customer classes, he has assigned each class an increase of 58.4%. As subsequently explained, this is unreasonable.

Table 1-R below summarizes the results of the Company's wastewater CCOSS and the present revenues for each rate class served by York.

Table 1-R. Comparison of Wastewater Cost of Service and Present Revenues				
	Pres	ent	Differe	ıce
	Cost of			
Class	Service	Revenues	Amount	Percent
Residential	\$6,934,645	\$3,713,704	\$3,220,941	54%
Non-Residential	1,350,380	443,699	906,681	33%
Total:	\$8,265,025	\$4,157,403	\$4,127,622	50%

As shown in Table 1-R, at present rates, the Residential class is contributing revenues equal to 54% of the indicated cost of service, while the Non-Residential class is contributing revenue only equal to 33% of the indicated cost of service. As such, the

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⁸ OSBA Statement No. 1, p. 17, lines 12-16.

Non-Residential class should receive an increase which is greater than the increase
assigned to the Residential class in order to provide additional movement toward the
indicated cost of service. Under Mr. Kalcic's proposal, both classes would receive the
same percentage increases. This would be unreasonable.

As shown in Table 5 of my direct testimony, reducing the assignment of the Act 11 revenue requirement to water service by \$625,000 would result in an increase of 45.9% to the Residential class, 84.8% to the Non-Residential class, and 50.1% overall. The increase to the Non-Residential class would be 1.70 times the system average wastewater revenue increase. Under Mr. Kalcic's proposal to reduce the Act 11 revenue assignment to water service by \$1.0 million, the increase to the Non-Residential class would be even more significant. To better provide for gradualism and reflect greater movement toward cost of service rates for the Non-Residential class, I believe my recommended reduction of the wastewater revenue requirement assigned to water service of \$625,000 is more reasonable.

III. <u>1&E WITNESS: ETHAN H. CLINE</u>

O. AS INDICATED IN RESPONDING TO MR. KALCIC, YOU RECOMMENDED THAT THE ACT 11 ASSIGNMENT OF THE WASTEWATER REVENUE REQUIREMENT TO WATER SERVICE BE REDUCED BY \$625,000. WHAT IS MR. CLINE'S RECOMMENDATION WITH RESPECT TO THE ACT 11 ASSIGNMENT? Based on York's requested revenue requirement increase, as shown on I&E Exhibit A. No. 3, Schedule 7, Column B, Mr. Cline has proposed reducing the Company's proposed Act 11 assignment from \$2,670,856 to \$1,951,390, or by \$719,466. He then

1		subsequently reduces the Act 11 assignment to \$844,015 to account for I&E's proposed
2		reduction in York's wastewater revenue requirement claim. 10
3	Q.	HOW DID MR. CLINE DEVELOP HIS REDUCTION TO YORK'S
4		PROPOSED ACT 11 ASSIGNMENT TO WATER SERVICE?

Mr. Cline's proposed reduction to York's Act 11 assignment to water service was developed by proposing changes to the current wastewater rate structure of certain customers and modifying the wastewater rate increases proposed by York to provide for additional movement toward rate consolidation. These wastewater rate structure changes and rate increase modifications are discussed and described in detail on pages 9 and 10 of Mr. Cline's direct testimony. Mr. Cline's Act 11 assignment recommendation is the end result of his proposed rate structure changes and rate increase modifications.

Q. WHAT IS YOUR RESPONSE TO MR. CLINE'S PROPOSED ACT 11 ASSIGNMENT RECOMMENDATIONS?

Based on the Company's requested revenue increase, like Mr. Kalcic's recommendation, Mr. Cline's reduction of \$719,466 is not significantly different than the Act 11 assignment reduction of \$625,000 which I have proposed. Therefore, I do not find the amount of his reduction to be unreasonable. With respect to his adjustment to reflect I&E's proposed reduction to York's wastewater revenue requirement claim, I agree with Mr. Cline that the Act 11 assignment should be reduced by the reduction in the wastewater revenue requirement found appropriate by the Commission.

However, as also previously explained in responding to Mr. Kalcic, the rates of York's Non-Residential wastewater customers are currently recovering significantly

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¹⁰ I&E Statement No. 3, page 6, lines 1-7.

¹¹ I&E Statement No. 3, page 6, lines 16 – 18.

less of the indicated cost of service than the current rates of Residential wastewater
customers. Therefore, the rates of Non-Residential customers should be increased by a
greater percentage than the rates of Residential customers if overall, the rates adopted
in this proceeding are to reflect movement toward the cost of service. As shown on I&E
Exhibit No. 3, Schedule 7, Column 11, Mr. Cline's proposed rate structures changes
and rate increase modifications result in a higher percentage rate increase for
Residential wastewater customers than Non-Residential customers which is
inconsistent with cost of service ratemaking. Therefore, Mr. Cline's rate structure
changes and rate increase modifications should be rejected, as should his modification
to the assignment of Act 11 revenues because his modification to the assignment of Act
11 revenues is based on his rate structure changes and rate increase modifications.
THE COMPANY IS PROPOSING TO MAINTAIN THE CURRENT 4,000

Q. THE COMPANY IS PROPOSING TO MAINTAIN THE CURRENT 4,000
GALLON MINIMUM ALLOWANCE FOR ALL WASTEWATER
CUSTOMERS OTHER THAN WEST MANHEIM CUSTOMERS. 12 DOES
MR. CLINE AGREE WITH THE COMPANY'S PROPOSAL TO
MAINTAIN THE MINIMUM ALLOWANCE, AND WHAT IS YOUR
RESPONSE TO MR. CLINE?

No. As part of his rate structure changes, Mr. Cline has proposed to eliminate the current 4,000-gallon minimum allowance this proceeding.¹³ However, as just explained, Mr. Cline's rate structure changes do not provide for appropriate movement toward cost of service rates for the wastewater customer classes served by York. I believe that the minimum allowance should eventually be eliminated; however, it may

¹² I&E Statement No. 3, page 7, lines 19-21.

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¹³ I&E Statement No. 3, page 10, lines 2-4.

1		be appropriate to eliminate the allowance over several rate proceedings so that
2		appropriate movement towards cost of service rates is accomplished in this proceeding.
3	Q.	DO YOU HAVE ANY OTHER COMMENTS CONCERNING MR.
4		CLINE'S PROPOSED MODIFICATIONS TO THE RATES PROPOSED
5		BY YORK?
6	A.	Yes. Mr. Cline's proposed rates are summarized on I&E Exhibit No. 3, Schedule 3.
7		Several of the modification result in rates increasing in excess of 100%. Increases of
8		this magnitude are inconsistent with the principle of gradualism.
9	Q.	ON PAGES 18 AND 19 OF HIS DIRECT TESTIMONY, MR. CLINE
10		RECOMMENDS THAT THE CUSTOMER CHARGES FOR WATER
11		SERVICE BE DETERMINED BASED ON THE COMPANY'S DIRECT
12		COST ANALYSIS. WHAT IS YOUR RESPONSE?
13	A.	As explained on page 19 of my direct testimony, the Company's direct customer cost
14		analysis indicates that a cost-based customer charge for a Residential customer with a
15		5/8-inch meter is \$20.71. However, the Company's calculation of direct costs is based
16		on the Company's request revenue requirement increase and also improperly includes
17		bad debt expense, office building and furniture and equipment related investment costs,
18		and Enterprise Software investment costs. York's direct cost calculation should be
19		adjusted to remove improperly included costs and to reflect the increase authorized by
20		the Commission in this proceeding. This can be accomplished by removing the costs
21		improperly included in the calculation and then scaling back the calculated rate to
22		reflect the revenue increase authorized by the Commission in this proceeding.
23	Q.	DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?
24	A.	Yes, it does.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission :

: Docket Nos. R-2022-3031340 (Water)

v. : R-2022-3032806 (Wastewater)

:

The York Water Company

VERIFICATION

I, Jerome D. Mierzwa, hereby state that the facts set forth in my Rebuttal Testimony, OCA Statement 4R, are true and correct (or are true and correct to the best of my knowledge, information, and belief) and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: September 16, 2022

*335404

Signature:

erome D. Mierzwa

Consultant Address: Exeter Associates, Inc.

10480 Little Patuxent Parkway

Suite 300

Columbia, MD 21044-3575

OCA Statement 1SR

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission)))		
v.	· ·	cket No. R-2022-30 cket No. R-2022-30	031340 (Water) 032806 (Wastewater)
The York Water Company)		
)		

Surrebuttal Testimony of Mark E. Garrett

On Behalf of: Office of Consumer Advocate

September 28, 2022

TABLE OF CONTENTS

Section I.	Introduction and Purpose of Testimony	3
	Summary of Adjustments	
Section III.	Surrebuttal to Mr. Poff	5
	A. Payroll Costs B. Short Term Incentive Compensation	
	C. Long Term Incentive Compensation D. Board of Directors' Compensation	11
	E. Inflation Adjustment	
Section IV	Conclusion	21

I. INTRODUCTION AND PURPOSE OF TESTIMONY 1 Q: PLEASE STATE YOUR NAME. 2 A: My name is Mark Garrett. 3 ARE YOU THE SAME MARK GARRETT THAT FILED DIRECT TESTIMONY 4 Q: 5 **IN THIS PROCEEDING ON August 19, 2022?** 6 A: Yes. A description of my qualifications was filed with that testimony. 7 8 Q: ON WHOSE BEHALF ARE YOU APPEARING IN THESE PROCEEDINGS? 9 A: I am appearing on behalf of the Office of Consumer Advocate ("OCA"). I was retained 10 by the OCA to assist in the review and evaluation of the general rate case filing submitted 11 by The York Water Company ("York or "Company"). 12 WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY? 13 O: 14 A: In my surrebuttal testimony I respond to the testimony of Matthew E. Poff set forth in his rebuttal testimony filed September 16, 2022. I address Mr. Poff's rebuttal testimony 15

regarding payroll costs, short-term incentives, long-term incentives, board of directors'

compensation, and the blanket inflation adjustment.

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II. SUMMARY OF ADJUSTMENTS

1 Q: PLEASE SUMMARIZE YOUR DIRECT TESTIMONY RECOMMENDATIONS.

A: In direct testimony, I proposed several adjustments to the Company's projected expense levels and incorporated the recommendations of OCA witnesses Morgan N. DeAngelo and Dr. David S. Habr. The impacts of these adjustments are set forth below and in the attached Schedules. My adjustments are bolded.

Table 1: Summary of OCA Adjustments									
	Water	Wastewater							
York's Requested Increase in Base Rates	\$18,853,737	\$1,456,793							
OCA Adjustments									
Cash Working Capital	\$(27,488)								
Acquisition Adjustments	(6,341)	\$(46,634)							
ROE 25 Basis Point Reduction ²	(683,661)	(63,800)							
Capital Structure at 52% Equity	(1,136,823)	(106,089)							
Return on Equity Adjustment	(7,944,800)	(741,415)							
Payroll Expense Adjustments	(382,591)	(17,296)							
Short Term Incentive Compensation	(123,754)	(5,595)							
Long Term Incentive Compensation	(238,146)	(10,766)							
Board of Directors' Compensation	(213,825)	N/A							
Payroll Taxes	(37,287)	(1,686)							
Inflation Adjustment	(1,023,307)	(298,363)							
Acquisition Adjustment Amortization	(6,789)	(57,718)							
Indirect Impacts (Bad Debts, Late Charges, Other Taxes)	(27,402)	(2,646)							
Net OCA Adjustments	\$(11,852,215)	\$(1,352,007)							
Recommended Change to Base Rates	\$7,001,522	\$104,786)							

York presented the following test periods in its filing:

- The historic test year ("HTY") ended December 31, 2021
- The future test year ("FTY") December 31, 2022
- The fully projected future test year ("FPFTY") February 29, 2024.

The requested revenue requirement is based on the FPFTY ending February 29, 2024.

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¹ The attached schedules are the same as those attached to my Revised Direct Testimony (OCA St. 1 (Revised).

² A 25-basis point increase to ROE would increase revenue requirement by \$683,661 for Water and \$62,871 for Wastewater as shown on OCA Exhibit MEG-3, and as discussed in the testimony of OCA witness Dr. Habr.

III SURREBUTTAL TO MR. POFF

1 Q: WHAT ISSUES DO YOU ADDRESS IN YOUR SURREBUTTAL TESTIMONY?

- 2 A: I address the recommendations made by Mr. Poff related to the following issues:
- 3 A. Payroll Costs

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- B. Short Term Incentive Compensation
- 5 C. Long Term Incentive Compensation
- D. Board of Directors' Compensation
 - E. Inflation Adjustment

A. PAYROLL COSTS

8 Q: PLEASE SUMMARIZE YOUR RECOMMENDATIONS IN DIRECT

9 TESTIMONY REGARDING PAYROLL COSTS.

A: In my direct testimony I testified that the Company's payroll request begins with payroll expense levels as of the historical test year ended December 31, 2021 ("HTY") and then adds: (1) estimated pay increases for the future test year ended December 31, 2022, and again for the fully projected future test year ended February 29, 2024, and (2) a proposed addition of ten new employees in 2022. The Company's projected pay increases for union employees was 3.5% and for non-union employees was 5.0%. I pointed out that the Company's estimates for non-union pay increases are significantly higher than the armslength negotiated union pay increases is a cause for concern because it indicates that the projected non-union pay increases may be overstated in the Company's calculation. The union pay increases of 3.5% reflect market-based rates, while the non-union estimates may be escalated at higher rates, causing the Company's projected payroll cost to be overstated. For this reason, I proposed an adjustment to establish the Company's annual payroll escalation rate at 3.5% per year for all employees.

In support of this position, I referenced data reported by Mercer, a widely-recognized compensation firm, that indicates merit increases are tracking at 3.2%, while only 27% of the companies in its survey were planning merit increases of 3.5% or greater.³ I also referenced a recent Forbes article addressing employer compensation survey data which indicated that, despite higher inflation rates, the average budgeted salary increase for 2022 was only 3.4%. This indicates York's proposed escalation rates for its union employees are consistent with these benchmarks in the range of 3.5% per year, however, its estimated non-union and management pay rate increases are well above these levels and should be reduced for rate-setting purposes.⁴

I recommended that the Commission approve projected pay increases for 2022 and 2023 at 3.5% per year for all employees. This recommendation does not result in any reduction in the pay levels for union positions. This adjustment does, however, bring the projected pay increases for non-union and managerial positions in line with the 3.5% market-based levels projected for York's union employees.

The Company also requested that five (5) vacant position be included in rates. I recommended that the costs associated with vacant positions should not be included in rates, because there are always vacant positions with every company as a general rule. In its rebuttal testimony, the Company agreed with this position, and removed \$285,826 from

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³ See Compensation is going up. But, is it enough? Compensation planning survey results | Mercer.US

⁴ See Exhibit FIII-5, p. 2.; Forbes, <u>Why Salary Increases Do Not Keep Pace With Inflation</u>, April 7, 2022; https://www.forbes.com/sites/johnbremen/2022/04/07/why-salary-increases-do-not-keep-pace-with-inflation/?sh=7162d3b17533

1		its requested revenue requirement, so, I will not discuss the issue of vacant positions
2		further in this testimony.
3		
4	Q:	WHAT DID MR. POFF SAY IN HIS REBUTTAL TESTIMONY IN RESPONSE
5		TO YOUR POSITION REGARDING THE PROJECTED SALARY INCREASE
6		FOR NON-UNION EMPLOYEES?
7	A:	Mr. Poff said that the Company maintains that a 5.0 percent increase in the FTY and
8		FPFTY is reasonable and consistent with the general economy that continues to see low
9		unemployment, high inflation, and upward pressure on wage growth as well as continued
10		impact from the "Great Resignation." He testified that the U.S. Bureau of Labor Statistics
11		shows wages and salaries for private industry workers increased 5.7 percent for the 12-
12		month period ending in June 2022.
13		
14	Q:	DO YOU AGREE WITH THIS RATIONALE?
15	A:	No. The problem with this testimony is that we are not setting rates for June 2022, we are
16		setting rates for 2024. Mr. Poff provides no data to rebut the Mercer projections of 3.2%
17		for merit increases. Moreover, he does not respond to the fact that the union increases of
18		3.5% are market-based per se. In short, he provides no evidence that the actual increases
19		going forward will be any greater than 3.5%.

B. ANNUAL CASH INCENTIVE PLAN

Q: PLEASE SUMMARIZE YOUR DIRECT TESTIMONY ABOUT THE COMPANY'S ANNUAL INCENTIVE PLAN.

In my direct testimony I acknowledged that the Commission's policy is to allow recovery of incentive compensation in rates so long as the utility shows that the overall amount of compensation is reasonable and that the plan provides benefits to ratepayers. The Commission does require, however, that the utility show: (1) measurable performance objectives, (2) studies or other data to support the necessity of the incentive compensation plan, and (3) evidence supporting a claim of the utility's inability to retain competent management personnel.⁵

I said that the Company's cash incentive award for 2021 was based upon (1) achieving the Earnings Per Share ("EPS") target and (2) exceeding the 75% of the Performance Objectives for the year. Most of the plan's business criteria, and many of its performance objectives include financial metrics which are designed to benefit shareholders. Based upon my review, the Company has not provided sufficient evidence to demonstrate that its Cash Incentive Plan is beneficial for ratepayers.

I said that, while I generally agree with the policy that the plan should show a benefit to ratepayers, I point out that in utility ratemaking, a standard that requires benefits to customers actually means that a 'net benefit' to customers is required. In other words, a showing of ratepayer benefit at any cost is not sufficient. Instead, the utility has the

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⁵ Pa. Public Util. Comm'n v. Philadelphia Gas Works, Docket No. R-00061931, Order Sept. 28, 2007, p. 48.

burden of showing that the cost incurred provides a <u>net</u> benefit to ratepayers. I did not agree with the Company's position that if a utility shows *any* benefit to ratepayers, no matter how small, the entirety of its incentive compensation plan costs should be included in rates. Moreover, I support the view that the costs of incentive compensation plans may be shared or allocated between shareholders and ratepayers where the objectives of the plan, particularly financial metrics, are designed to benefit shareholders. I provided a long list of states that follow this approach.⁶

A:

Q: WHAT WAS MR. POFF'S RESPONSE TO THIS TESTIMONY?

Mr. Poff stated, "The Commission's policy is to allow recovery of incentive compensation in rates so long as the utility shows the overall amount of compensation is reasonable and that the plan provides benefits to ratepayers." This statement is not completely correct. The Pennsylvania Public Utility Commission actually requires more. The Commission also requires that the utility show: (1) measurable performance objectives, (2) studies or other data to support the necessity of the incentive compensation plan, and (3) evidence supporting a claim of the utility's inability to retain competent management personnel.8 In the 2007 PGW rate case, Docket No. R-00061931, the Commission stated:

We agree with the finding of the ALJs on this issue. The ALJs' rationale for disallowance of this claim is accurate. The ALJs noted that PGW failed to show by record evidence the requisite documentation to comply with its

⁶ See page 21 of Mr. Garrett's Direct and Errata testimonies.

⁷ See Poff Rebuttal, p. 8, lines 1-3.

⁸ See e.g., Pa. Pub. Util. Comm'n v. Philadelphia Gas Works, Docket No. R-00061931, Order Sept. 28, 2007, p. 48.

1 Management Agreement, that PGW has not presented studies or 2 submitted any data to support its claimed inability to retain competent 3 management personnel without such a program and that the Philadelphia 4 Gas Commission did not allow the expense in PGW's 2007 budget because 5 "clearly articulated, well-defined, quantitative goals and criteria (as are 6 used in private industry for such 'pay-for-performance' programs) are 7 absent." Accordingly, we shall deny the exceptions of PGW on this issue 8 and adopt the recommendation of the ALJs to disallow the \$500,000 claimed expense.9 9 10 11 As in the PGW case, York failed to provide this requisite information in its application. 12 In particular, there was no evidence provided to show that York has not been able to retain competent management without these incentives, which is the third prong of the 13 14 requirements. 15 Mr. Poff instead argued, "Although some of the performance objectives have a 16 financial component, it is unreasonable to conclude that strong financial performance only benefits the shareholders and not the ratepayers." This is a strawman argument. I never 17 18 took the position that financial performance measures "only benefit the shareholders and not ratepayers." What I said is that financial measures benefit shareholders more than 19 20 they do ratepayers. This is why incentive plans that contain these measures, such as the 21 Company's plan, are generally shared between shareholders and ratepayers. 22 Mr. Poff also says that the "net benefit" standard is not followed in Pennsylvania.

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He is mistaken on this point. Any commission that applies a "used and useful" standard

⁹ Pa. Public Util. Comm'n v. Philadelphia Gas Works, Docket No. R-00061931, Order Sept. 28, 2007, p. 48. (Emphasis added).

¹⁰ *Id.* at lines 13-15.

is applying a net benefits test. Used means operational and useful means providing a net benefit to ratepayers. Further, any commission that requires cost/benefit analysis is applying a net benefits test -e.g., do the benefits outweigh the costs. Of course, this Commission applies net benefits standards. The standard that Mr. Poff supports is no standard at all—that any benefit to ratepayers, no matter how infinitesimal, is sufficient, no matter the cost.

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C. <u>LONG-TERM STOCK INCENTIVE PLAN</u>

Q: PLEASE SUMMARIZE YOUR DIRECT TESTIMONY REGARDING THE COMPANY'S LONG-TERM COMPENSATION PLANS.

I recommended that York's long-term stock compensation costs be borne by the shareholders rather than the ratepayers in this proceeding. I testified that because the Company's long-term stock compensation plan is designed to align the interests of Company executives and senior management with the interests of shareholders, the shareholders rather than ratepayers should be responsible for paying these costs. I explained that incentive compensation payments to officers, executives, and key employees of a utility are often excluded for ratemaking purposes. Since officers of any corporation have fiduciary duties of loyalty and care to the corporation itself and not to the customers of the company, these individuals are required to put the interests of the company first.

I testified that the interests of the company and the interests of the customer are not always the same, and at times, can be quite divergent. This natural divergence of interests creates a situation where not every cost associated with executive compensation

is presumed to be a necessary cost of providing utility service. Since the compensation of the employee is tied over a long period of time to the company's stock price, it motivates employees to make business decisions from the perspective of long-term shareholders. This intentional alignment of employee and shareholder interests means the costs of these plans should be borne solely by the shareholders. It would be inappropriate to require ratepayers to bear the costs of incentive plans designed to encourage employees to put the

I discussed that the majority view of regulatory commissions is to exclude stock-based long-term incentive compensation from rates. I referenced the Garrett Group Incentive Compensation Survey, which showed that 20 of the 24 western states tend to exclude all or virtually all long-term stock-based incentive pay, either through an outright ban on stock-based incentives or through applying the *financial performance* rule, which has the effect of excluding long-term earnings-based and stock-based awards. These states include Arizona, Arkansas, California, Colorado, Hawaii, Idaho, Kansas, Louisiana, Minnesota, Missouri, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington and Wyoming. In the other four states, Alaska, Iowa, Montana and Nebraska, the issue just has not been addressed.

I also discussed the treatment in four midwestern states: Illinois, Kentucky, Michigan and Wisconsin. According to commission-staff personnel contacted in these states, these jurisdictions also adhere to the general rule that financial-based stock incentives of executives and upper management excluded from rates.

interests of the shareholders first.

O: WHAT RESPONSE DID MR. POFF PROVIDE ON THIS ISSUE?

2 A: Mr. Poff is dismissive of the telephonic surveys conducted of commission staffs in 28 states, saying that we did not support our arguments with decisions in Pennsylvania. 11 But, 3 We are recommending that the Pennsylvania Public Utility 4 that was our point. 5 Commission reconsider its prior treatment of stock incentives. In the 28 states surveyed, 6 100% of the states that deal with stock incentives as a form of compensation (24 of 24) disallow the inclusion of this type of incentive payment in rates. (They do not disallow 7 8 the incentives; they just do not include them in rates). In the other four states, Alaska, 9 Iowa, Montana and Nebraska, the issue just has not been addressed.

D. BOARD OF DIRECTORS' COMPENSATION

- 10 Q: HAS THE COMPANY INCLUDED BOARD OF DIRECTORS' COMPENSATION
- 11 COSTS IN ITS REVENUE REQUIREMENT?
- 12 A: Yes, as shown in Exhibit FIII-2-48, York included \$427,649 in its revenue requirement
- for directors' compensation. I propose an adjustment to remove a portion of these costs
- from the revenue requirement.

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Surrebuttal Testimony of Mark E. Garrett Docket Nos. R-2022-3031340 (Water); and Docket No. R-2022-3032806 (Wastewater)

¹¹ See Poff Rebuttal Testimony at page 12.

Q: PLEASE SUMMARIZE YOUR RECOMMENDATIONS REGARDING BOARD

OF DIRECTORS' ("BOD") COMPENSATION?

York included \$427,649 in its revenue requirement for directors' compensation, a portion of which is in the form of *stock grants*. I proposed an adjustment to remove, from the revenue requirement, the board of directors' stock grants and 50% of the cash compensation costs. I testified that ratepayers should not be expected to bear the full cost of BOD compensation because officers and directors of any corporation have legal, fiduciary duties of loyalty and care to the corporation itself and not to its customers. These individuals are *required by law* to put the interests of the Company first, and the interests of the Company and the interests of customers are not always aligned. Because of this natural divergence of interests, not every compensation cost is presumed to be a necessary cost of providing utility service.

In addition, I testified regarding other recent cases in which regulators ordered a sharing of BOD compensation costs between shareholders and ratepayers is appropriate. I discussed the treatment approved issue by the Public Utility Commission of Nevada ("PUCN") and the Washington Utilities and Transportation Commission ("WUTC"). In discovery responses, I provided further examples of regulatory commissions that also have ordered similar sharing of these costs.¹²

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A:

¹² See OCA Response to York Request Set III-7.

1	Q:	DID MR. POFF ADDRESS THE CONCERNS YOU RAISED REGARDING
2		BOARD OF DIRECTORS' COMPENSATION?
3	A:	No. Instead of addressing the substantive issues I raised, Mr. Poff merely states that this
4		Commission has not disallowed board of directors' costs in the past. He also says that I
5		only point to two jurisdictions where these costs have been shared, even though I provided
6		the Company with a list of several states in which these costs are shared. ¹³ I actually
7		provided the Company with a list of regulatory commission decisions I relied on, most
8		notably, recent decisions in Connecticut that allocated the majority of these costs to
9		shareholders. The decisions I relied upon, as set forth in OCA's Response to York's
10		discovery request Set III-7 is outlined below:
11		Connecticut
12 13 14 15 16 17 18		• In the <i>Application of the Connecticut Water Co., to Amend its Rate Schedule</i> , Conn. Pub. Util. Reg. Authority, Docket No. 20-12-30 the PURA stated: The OCC stated that the BOD answers to and serves the interests of the Company's shareholders; thus, the expense should not be entirely recovered from ratepayers. A 75/25 sharing of costs between shareholders and ratepayers, respectively would be more appropriate. The OCC recommends a disallowance of 75% of this cost, a reduction of \$329,250. OCC Brief, p.49.
20 21 22		The <u>Authority finds that BOD fees should not be allocated solely to</u> <u>the ratepayers because both the ratepayers and shareholders</u> <u>benefit from the expense</u> . 14
23 24		• In the <u>Application of the Connecticut Light and Power Co., to Amend its Rate</u> Schedules, Conn. Pub. Util. Reg. Authority, Docket No. 14-05-06 the PURA stated:

¹³ *Id*.

¹⁴ <u>Application of the Connecticut Water Co., to Amend its Rate Schedule</u>, Conn. Pub. Util. Reg. Authority, Docket No. 20-12-30, Order issued July 28, 2022, at p.12. (Emphasis added). Document provided at **Att. OCA III-7**.

The Authority finds that <u>the main objective of the BOD is to protect</u> the <u>interest of the Company's investors or shareowners</u>.

Ratepayers may indirectly benefit from the activities of the BOD; however, ratepayers are not the focus of the BOD decisions. Consistent with the determinations in previous Decisions regarding BOD expense and Directors' and Officers' Liability Insurance (DOL) expense, <u>the Authority allows only 25% of BOD costs in rates</u>. ¹⁵

Regarding related Directors' insurance (DOL) costs, Connecticut PURA stated:

The OCC agreed that DOL protects the officers of the Company from lawsuits brought against them by shareholders that arise as a result of decisions that they make while performing their duties. Therefore, the shareholders, who receive the payout, are the primary beneficiaries of this insurance. *Ratepayers receive very little of the benefit and should not be responsible for all of the costs.* OCC Brief, p. 75. The OCC noted that the Company failed to recognize that many legitimate expenses (e.g., image building advertisements, lobbying expenses) are not recoverable. . . The Authority finds no convincing reason to deviate from its previous treatment of DOL insurance. Consistent with the determinations in previous Decisions regarding BOD expense and DOL expense, the Authority will allow only 25% of DOL costs in rates. 16

Nevada

• In re *Southwest Gas Corp.*, Docket No. 18-05031, the Nevada commission on divided the cost of the BOD compensation equally between ratepayers and shareholders. The PUCN stated: 420. The Commission accepts Staffs proposal to disallow 50 percent of the BOD compensation costs in order to share the costs

¹⁵ <u>Application of the Connecticut Light and Power Co., to Amend its Rate Schedules</u>, Conn. Pub. Util. Reg. Authority, Docket No. 14-05-06, Order issued p. 76. (Emphasis added). Document provided at **Att. OCA III-7**.

¹⁶ <u>Application of the Connecticut Light and Power Co., to Amend its Rate Schedules</u>, Conn. Pub. Util. Reg. Authority, Docket No. 14-05-06, Order issued pp. 77 (Emphasis added) (The emphasized portion of the PURA's decision is an example of "net benefit" analysis that regulatory commissions apply when excluding a portion of a utility's BOD related costs from rates, as discussed by Mr. Garrett in his testimony, and in his Response to Interrogatory OCA III-3(a) above. Document provided at **Att. OCA III-7**.

1 equally between ratepayers and shareholders. The Commission 2 finds that the evidence on the record supports benefits to both 3 ratepayers and shareholders. A competent BOD provides value to 4 SWG through increased earning and market value, while ratepayers 5 benefit from safe, reliable service. Accordingly, it is appropriate 6 that the costs be shared between shareholders and ratepayers. ¹⁷ 7 **Washington** 8 In re Cascade Natural Gas Corp., the Washington commission approved the customers' adjustment to share board of directors' 9 costs equally between shareholders and customers. 18 10 11 12 **New Mexico** In the Application of El Paso Electric Co., the ALJ's Recommended Decision stated: 13 14 For the same reasons that the cost of D&O insurance should be shared 50% 15 - 50% between shareholders and ratepayers, the cost of board of directors compensation should be shared 50%-50% between shareholders and 16 ratepayers. Recovering 100% of the cost of board of directors 17 compensation from ratepayers would not result in just and reasonable rates 18 19 because ratepayers and shareholders at least equally benefit from the service of board members. 19 20 21 **Other Jurisdictions** 22 It is Mr. Garrett's understanding and belief that regulatory commissions in 23 California and Arkansas also have approved similar allocations resulting in

a sharing of Board of Directors' costs between shareholders and ratepayers.

however, he does not have these orders in his possession.

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 $^{^{17}}$ In re Southwest Gas Corp., Docket No. 18-05031, (Nev. Pub. Util. Comm'n) Modified Final Order, at p. 138, ¶ 420 (Feb. 15, 2019). Document provided at **Att. OCA III-7**.

¹⁸ In re Cascade Natural Gas Corp., Docket No. UG-200568 (Wash. Util. and Transport. Comm'n), Order No. 5, pp. 9-10 (May 18, 2021). Document provided at Att. OCA III-7.

¹⁹ <u>Application of El Paso Electric Co. for Revision of its Retail Electric Rates</u>; New Mex. Pub. Reg. Comm'n, Case No. 20-00104-UT, Recommended Decision issued April 6, 2021, p. 170. (Emphasis added). The Recommended Decision was upheld in the final NMPRC Order issued. Document provided at **Att. OCA III-7**.

Q: DID MR. POFF RAISE ANY OTHER ARGUMENTS AGAINST SHARING

THESE COSTS WITH SHAREHOLDERS?

Yes. In my direct testimony I said that directors and officers of the company are <u>required</u> <u>by law</u> to put the interests of the Company first, and the interests of the Company and the interests of customers are not always aligned, and because of this natural divergence of interests, not every compensation cost is presumed to be a necessary cost of providing utility service. In response to this Mr. Poff said that the Business Corporation Law of 1988 allows directors in Pennsylvania to consider the effects of any actions on groups affected by the actions, including shareholders, members, employees, suppliers, customers and creditors as well as the community.²⁰

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A:

Q: DOES THIS LANGUAGE CHANGE ANYTHING IN YOUR TESTIMONY?

A: No. The Business Corporation Law of 1988 still specifically requires directors and officers to act in a manner they reasonably believe to be in the best interest of the corporation. In other words, the duty of loyalty, for officers and directors to act in the best interest of the corporation, is still in effect. As a result, shareholders should be responsible for at least a portion of the Board of Directors' costs.

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²⁰ See Poff rebuttal at p. 14.

E. <u>INFLATION ADJUSTMENT</u>

Q: PLEASE SUMMARIZE YOUR POSITION REGARDING YORK'S REQUESTED

INFLATION ADJUSTMENT.

York proposed an inflation adjustment to both the water and the wastewater utilities based on a February 2021 to February 2022 increase in the CPI-U of 6.4%.²¹ The adjustment is made for 2022, 2023, and 2 months of 2024, and applies to all expenses that are <u>not</u> separately adjusted. I recommended that the Commission reject the Company's proposed *blanket* inflation adjustment because, such adjustments do not pass the *known and measurable* standard for utility ratemaking. Even in a future test year situation, projected increases must be based on specific analysis for each requested increase. Moreover, blanket inflation adjustments for projected test years are poor ratemaking policy because they create a disincentive for utilities to control costs going forward.

I testified regarding the Commission's recent decisions rejecting general inflation adjustments in the recent Aqua Pennsylvania, Inc. rate case, Docket No. R-2021-3027385,²² and in Pa PUC v. Wellsboro Electric Company (Order entered April 29, 2020), in which the Commission found that a blanket inflation adjustment does not meet the *known and measurable* test. For these reasons, I recommended the inflation adjustment should be rejected.

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A:

²¹ See York Water Statement No. 103W, Direct Testimony of Matthew E. Poff, p. 21.

²² See. *Pa. Pub. Util. Comm'n v. Aqua Pennsylvania*, Docket No. R-2021-3027385, Order and Opinion, May 12, 2022, at p. 117.

1	Q:	HOW DID MR. POFF RESPOND REGARDING YOUR POSITION ON THE
2		INFLATION ADJUSTMENT?
3	A:	Mr. Poff argued that prior decisions of the Commission had allowed inflation adjustments.
4		He cites three cases, one 20 years old, one 30 years old and one 36 years old to support his
5		position. However, he provided no rebuttal to the fact that the Commission has, in its most
6		recent decision, rejected general inflation adjustments, such as the adjustment proposed
7		by the Company in this case.
8		In the recent Aqua Pennsylvania, Inc. rate case, Docket No. R-2021-3027385,
9		(Order entered May 12, 2022), the PUC found that Aqua's general inflation adjustment to
10		accounts was not specifically analyzed and adjusted and should be denied.
11 12 13 14 15 16 17 18		We agree with the ALJ that Aqua has not justified the use of a general price level adjustment to expenses not specifically adjusted in this case or not subject to inflation. R.D. at 70. We also agree that allowing Aqua to apply a general inflation adjustment to a block of expenses could incentivize less accurate tracking of expenses and a less rigorous approach to controlling costs for those expenses. The application of a General Price Adjustment to 22% of expenses is neither targeted nor specific. We find the ALJ's recommendation to deny Aqua's use of a General Price Adjustment to be reasonable. ²³
20		In the recent Pa PUC v. Wellsboro Electric Company (Order entered April 29,
21		2020), the Commission found that a blanket inflation adjustment does not meet the known
22		and measurable test.
23 24 25 26		The ALJs explained that the Company has the burden of demonstrating that each FTY expense claim will increase in the FPFTY by some "known and measurable" change in the FPFTY. According to the ALJs, the Company did not demonstrate that the blanket three percent inflation adjustment to

²³ See. *Pa. Pub. Util. Comm'n v. Aqua Pennsylvania*, Docket No. R-2021-3027385, Order and Opinion, May 12, 2022, at p. 117.

all expenses would meet the known and measurable change standard; specifically, the Company did not demonstrate that making this adjustment to each expense claim directly relates to the actual costs expected to be incurred in each expense account in the FPFTY. R.D. at 21-23.

The general inflation adjustments rejected by the Commission in these cases is precisely the type of inflation adjustment proposed in this case. Here, York proposed inflation adjustments to many accounts based on known and measurable changes expected to occur in those accounts over the next several years. We accepted those increases, although we proposed a downward adjustment to the requested payroll increases. On top of these specific increases, though, the Company then propose a blanket inflation adjustment for all of the other accounts. This is precisely the type of inflation adjustment rejected by the Commission in the recent Wellsboro and Aqua cases.

IV. <u>CONCLUSION</u>

- 13 Q: DOES THIS CONCLUDE YOUR TESTIMONY AT THIS TIME?
- 14 A: Yes.

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The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Summary Comparison of Revenue Requirement

Line			Yo	rk	OCA Recommendation			ence	OCA Impact of Errata		
No.	Description	Ref.	Water	Wastewater	Water	Wastewater Errata	Water	Wastewater Errata	OCA Initial Watewater		pact of Errata
1	Rate Base		\$ 350,621,590	\$ 33,353,950	\$ 350,301,681	\$ 32,909,997	\$ (319,909)	\$ (443,953)	\$ 32,430,699	\$	479,298
2	Rate of Return		7.93%	7.93%	6.01%	6.01%	-1.92%	-1.92%	6.01%		0.00%
3	Return Requirement		27,804,706	2,645,008	21,037,718	1,976,443	(6,766,988)	(668,565)	1,947,658		28,785
4	Adjusted Net Operating Income	1/	\$ 16,450,949	\$ (270,366)	\$ 17,999,363	\$ 15,997	\$ 1,548,414	\$ 286,363	\$ 69,789	\$	(53,792)
5	Deficiency		11,353,757	2,915,374	3,038,355	1,960,446	(8,315,402)	(954,927)	1,877,869		(82,577)
6	Revenue Conversion Factor		0.701591	0.706304	0.701591	0.706304	0.000000	0.000000	0.706304	_	0.000000
7	Revenue Deficiency		\$ 16,182,881	\$ 4,127,649	\$ 4,330,666	\$ 2,775,642	\$ (11,852,215)	\$ (1,352,007)	\$ 2,658,728	\$	116,915
8	Consolidated Allocation		2,670,856	(2,670,856)	2,670,856	(2,670,856)			(2,670,856)	_	
9	Deficiency with Allocation	:	\$ 18,853,737	\$ 1,456,793	\$ 7,001,522	\$ 104,786	\$ (11,852,215)	\$ (1,352,007)	\$ (12,129)	\$	116,915

Note 1 From Exhibit No. FI-2, p. 13.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater)

Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024

Office of Consumer Advocate - Revenue Requirement with OCA's Recommended Adjustments

				Water			Waste Water Errata					Impact of Wastewater Errata				
			York					York								
Line			Proposed Rates	OCA		OCA	Pr	oposed Rates		CA Errata		OCA Errata		CA Original	-	Difference
No.	Description	Ref.	2/29/2024	Adjustment	R	ecommended	_	2/29/2024	_A	djustment	Re	commended	Re	commended	Orig	inal - Errata
	Rate Base		(A)	(B)		(C)		(A)		(8)		(C)				
1	Plant in Service	v	\$ 529,635,105			529.635.105	\$	43,442,074			Ś	43,442,074	Ś	43,442,074	Ś	_
		¥	(107,427,025)		•	(107,427,025)	Þ				,	(9,177,932)	,	(9,177,932)	•	_
2 3	Accumulated Depreciation	1/	\$ 422,208,080	<u> </u>	<u> </u>	422,208,080	Ś	(9,177,932) 34,264,142	<u> </u>		Ś	34,264,142	Ś	34,264,142	Ś	
5	Net Plant in Service		\$ 422,208,080	•	•	422,200,080	•	34,204,142	•	•	,	54,264,142	,	34,204,142	ð	•
4	Materials and Supplies	1/	\$ 1,520,534		\$	1,520,534	\$	•			\$	-	\$	•	\$	-
5	Cash Working Capital	1/	3,070,957	(259,943)		2,811,014						-		•		-
6	Utility Plant Acquisition Adjustments	1/	(68,018)	(59,966)		(127,984)		260,414		(443,953)		(183,539)		(662,837)		479,298
7	Taxes on Deposits and Advances	1/	1,403,563			1,403,563		18,347				18,347		18,347		•
8	Accumulated Deferred Income Tax	V	(24,488,981)			(24,488,981)		(148,987)				(148,987)		(148,987)		-
9	Excess Accumulated Deferred Income Tax	1/	(13,371,592)			(13,371,592)		(6,782)				(6,782)		(6,782)		•
10	Contributions in Aid of Construction	1/	(33,721,565)			(33,721,565)		(1,033,184)				(1,033,184)		(1,033,184)		-
11	Customers' Advances for Construction	1/	(4,455,584)			(4,455,584)						-		•		-
12	Customers' Advances Not Expended	1/	(1,475,804)			(1,475,804)						-		•		
13	Total Rate Base		\$ 350,621,590	\$ (319,909)	\$	350,301,681	\$	33,353,950	\$	(443,953)	\$	32,909,997	\$	32,430,699	\$	479,298
14	Rate of Return	2/	7.930118%	-1.924518%	_	6.005600%		7.930118%		-1.924518%		6.005600%		6.005600%		0.000000%
15	Return Requirement		\$ 27,804,706	\$ (6,766,988)	\$	21,037,718	\$	2,645,008	\$	(668,565)	\$	1,976,443	\$	1,947,658	\$	28,785
	Revenues															
16	Sales of Water	3/	\$ 52,523,311		\$	52,523,311	\$	4,157,401			\$	4,157,401	\$	4,157,401	\$	•
17	Other Revenue	3/	1,119,149	<u>,</u>		1,119,149		4,861				4,861		4,861		-
18	Total Revenue		\$ 53,642,460	\$ -	\$	53,642,460	\$	4,162,262	\$	•	\$	4,162,262	\$	4,162,262	\$	•
	Expenses															
19	Operating Expenses	4/	\$ 23,702,382	\$ (1,981,622)	\$	21,720,760	\$	4,229,014	\$	(332,020)	\$	3,896,994	\$	3,890,464	\$	6,530
20	Depreciation	4/	12,960,981	(6,789)		12,954,192		933,718		(57,718)		876,000		803,226		72,774
21	Taxes Other Than Income Taxes	4/	1,378,995	(37,287)		1,341,708		43,491		(1,686)		41,805		41,805		•
22	Income Taxes	4/	(850,847)	477,284	_	(373,563)	_	(773,595)	_	105,061		(668,534)		(643,023)		(25,511)
23	Total Operating Expenses		\$ 37,191,511	\$ (1,548,414)	\$	35,643,097	\$	4,432,628	\$	(286,363)	\$	4,146,265	\$	4,092,473	\$	53,793
24	Net Operating Income		\$ 16,450,949	\$ 1,548,414	\$	17,999,363	\$	(270,366)	\$	286,363	\$	15,997	\$	69,789	\$	(53,793)
25	Return (Sufficiency) Deficiency		\$ 11,353,757	\$ (8,315,402)	\$	3,038,355	\$	2,915,374	\$	(954,927)	\$	1,960,446	\$	1,877,869	\$	82,578
26	Revenue Conversion Factor	\$/	0.70159058	0.70159058	_	0.70159058		0.706303677	0	.706303677	_	0.706303677	_	0.706303677	_	0
27	Revenue (Sufficiency) Deficiency	6/	\$ 16,182,881	\$ (11,852,215)	Ś	4,330,666	Ś	4,127,649	Ś	(1,352,007)	Ś	2,775,642	s	2,658,727	Ś	116,915
28	Wastewater Revenue Allocation	6/	2,670,856	- (,,-22)	•	2,670,856	•	(2,670,856)	•	,-,,,	٠	(2,670,856)	•	(2,670,856)	•	,
					_		_	12,2,2,201	_			(3,-:-,-3-1		,		
29	Total Increase in Rates	6/	\$ 18,853,737	\$ (11,852,215)	\$	7,001,522	\$	1,456,793	\$	(1,352,007)	\$	104,786	\$	(12,129)	_\$_	116,915
30	Percent of Requested Increase					37%						7%				

Note 1 From Exhibit No. FV-1, p. 3.

Note 2 See the Direct Testimony of Paul R. Moul, p. 2, lines 23 through 25.

Note 3 From Exhibit FII-2, p. 9.

Note 4 From Exhibit No. FI-2, pp 11, 13. Also see FV-1.pg5, column 7.

Note 5 From HV-1.wp1, factor for total revenue requirements.

Note 6 From Exhibit Fil-2, p. 10.

From Exhibit No. FV-1W (tab FV-1W.pg3) See the Direct Testimony of Paul R. Moul, p. 1. From Exhibit No. FII-2W, page 9 (tab FiI-2W.pg9) and Exhibit No. FV-1W (tab FV-1W.pg6). From HV-1W.wp1.

The York Water Company Oocket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Summary of Recommendations

			Water			Erra	ita Wastewa	ter	Impact of Wastewater Errata			
Line		•	_	Pre-Tax	Revenue		Pre-Tax	Revenue	OCA Original	Difference		
No.	Description	Witness	Rate Base	Return	Deficiency	Rate Base	Return	Deficiency	Recommended	Original - Errata		
1	York Requested Increase Amounts		\$ 350,621,590		\$ 18,853,737	\$ 33,353,950		\$ 1,456,793	\$ 1,456,793	\$ -		
	Rate Base Adjustments											
2	Cash Working Capital	Garrett	\$ (259,943)	10.57%	\$ (27,488)		10.50%	\$ -	\$ -	\$ -		
3	Acquisition Adjustments	DeAngelo	(59,966)	10.57%	(6,341)	(443,953)	10.50%	(46,634)	(96,980)	50,347		
4	Total Rate Base Adjustments		\$ (319,909)	_	\$ (33,830)	\$ (443,953)	•	\$ (46,634)	\$ (96,980)	\$ 50,347		
	Rate of Return Adjustments											
5	25 Basis Point Reduction in ROE		\$ 350,301,681	-0.20%	(683,661)	\$ 32,909,997	-0.19%	(63,800)	(62,871)	(929)		
6	Capital Structure	Habr	350,301,681	-0.32%	(1,136,823)	32,909,997	-0.32%	(106,089)	(104,544)	(1,545)		
7	Return on Equity	Habr	350,301,681	-2.27%	(7,944,800)	32,909,997	-2.25%	(741,415)	(730,617)	(10,798)		
8	Total Rate of Return Adjustments			_	(9,765,284)		-	(911,304)	(898,031)	(13,272)		
	Operating Income Adjustments											
9	Payroll Expense	Garrett			\$ (382,591)			\$ (17,296)	\$ (17,296)	\$ -		
10	Cash Incentives	Garrett			(123,754)			(5,595)	(5,595)	-		
11	Stock Incentives	Garrett			(238,146)			(10,766)	(17,296)	6,530		
12	Payroll Taxes	Garrett			(37,287)			(1,686)	(1,686)	-		
13	Cost Escalation	Garrett			(1,023,307)			(298,363)	(298,363)	-		
14	Board of Directors Expenses	Garrett			(213,825)			-	•	•		
15	Acquisition Adjustment Amortization	DeAngelo			(6,789)			(57,718)	(130,492)	72,775		
16	Rate Adjustment Impacts (Note 1)	Garrett		-	(27,402)		-	(2,646)	(3,183)	537		
17	Total Operating Income Adjustments			_	(2,053,101)			(394,070)	(473,911)	79,841		
18	Total Adjustments			_	(11,852,215)			(1,352,007)	(1,468,922)	116,915		
19	OCA Recommended Increase(Decrease)			=	\$ 7,001,522			\$ 104,786	\$ (12,129)	\$ 116,915		

Note 1 The impact of OCA's adjustments on late charges, bad debts, and assessments are accounted for here. The adjustment of these costs are a component of the revenue gross up factor on the Revenue Requirement Exhibit.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Payroll Expense Recommendations

Line				
No.	Description	Ref.	Water	Wastewater
		1/		
1	Pro Forma Hourly Payroll Excluding Bonuses and Vacant Positions 12/31/2021	1/	\$ 2,007,650	
2	Pro Forma Salary Payroll Excluding Bonuses and Vacant Positions 12/31/2021	1/	3,563,364	
3	Total Non-Union Payroll 12/31/2021		\$ 5,571,014	
4	OCA Recommended 2022 Increase Factor		103.50%	
5	2022 Adjusted Amount		\$ 5,765,999	
6	2022 Additional Hourly and Salaried Positions	2/	606,243	
7	OCA Adjusted 2022 Hourly and Salaried Payroll		\$ 6,372,242	
8	OCA Recommended 2023 Increase Factor		103.50%	
9	February 29, 2024 Adjusted Non-Union Payroll		\$ 6,595,271	
10	February 29, 2024 Requested Union Payroll, Excluding Unfilled Positions	3/	2,479,100	
11	OCA Recommended Payroll Expense (without Bonuses)		\$ 9,074,371	
12	Requested 2/29/2024 Payroll (without Bonuses)	4/	9,518,048	
13	Gross Payroll Adjustment Before Expense Allocation		\$ (443,677)	\$ (443,677)
14	Expense Factor	5/	0.862317798 6/	0.038983417
15	Adjustment to Payroll Expense		\$ (382,591)	\$ (17,296)
Note 1	Derived from CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab HIII-2-4(b).pg1, cells G10)-I147 ar	nd M10-O147 excludin	g rows 92 and
Note 2	134 for hourly positions.	110	MATO OTO avaluation as	nue 31 and 83
Note 2	From CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-1(c).pg1, total of cells G10 for salaried positions.	-ita and	INITO-OTA excinging to	7M2 5T 9110 92
Note 3	Derived from CONFIDENTIAL File OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-25(c).pg1, total of c	ells G1	147I and M10-O147 fo	r union
	positions.			
Note 4	From CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-25(c).pg1, total of cells G1	147I an	d M10-O147.	
Note 5	From FIII-2-40(b).pg1, Total of Accounts 6011000 through 60180003 / Pro Forma Company Labor.			
Note 6	From FIII-2-40(b).pg1, Total of Accounts 7015000 through 7018000 / Pro Forma Company Labor.			

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Cash Incentive Award Recommendations

Line						
No.	Description	Ref.		Water	Wa	stewater
1	Cash Incentive Awards - 2/29/2024 Pro Forma	1/	\$	287,026	\$	287,026
2	Expense Factor	2/	0.	862317798 3/	0.0	38983417
3	Amount Included in Operating Expenses		\$	247,508	\$	11,189
4	Ratepayer Share			50.00%		50.00%
5	Amount Recommended for Recovery		\$	123,754	\$	5,595
6	OCA Recommended Adjustment		\$	(123,754)	\$	(5,595)
Note 1	See OCA IV-14 and CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-25(c).pg1,	cell Q	167.			
Note 2	Derived from CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-40(b).pg1, Total	of ce	lls G	21-G51 / G61.		

Note 3 Derived from CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-40(b).pg1, Total of cells G52-G57 / G61.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Long-Term Incentive Plan Recommendations

Line No.	Description	Ref.	Water	Wastewater
1	Long-Term Stock Awards - 2/29/2024 Pro Forma	1/	\$ 276,170	\$ 276,170
2	Expense Factor	2/	0.862317798	0.038983417
3	Long-Term Incentive Expense		\$ 238,146	\$ 10,766
4	OCA Recommended Adjustment to Long-Term Incentives		\$ (238,146)	\$ (10,766)

Note 1	See OCA IV-9 and CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-25(c).pg1, cell R167.
Note 2	Derived from CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-40(b).pg1, Total of cells G21-G51 / G61.
Note 3	Derived from CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-40(b).pg1, Total of cells G52-G57 / G61.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Payroll Tax Recommendations

Line		Water							
No.	Description		Payroll	Cas	Cash Incentive		ash Incentive		ck Incentive
1 2	Expense Adjustment Adjustments to Wages Over \$147K	\$	(382,591) (58,581)	\$	(123,754) (54,124)	\$	(238,146) (204,490)		
3 4 5	Adjustment Subject to OASDI Tax Adjustment to Medicare Taxes Adjustment to OASDI Tax	\$ \$ \$	(324,010) (5,548) (20,089)	\$ \$ \$	(69,630) (1,794) (4,317)	\$ \$ \$	(33,656) (3,453) (2,087)		
6	Tax Adjustment Totals	\$	(25,636)	\$	(6,111)	\$	(5,540)		
7	Total Water Employment Tax Adjustment					<u>\$</u>	(37,287)		
8	Payroll Tax Effective Rate						5.01%		
				W	astewater				
			Payroll	Cas	h Incentive	Sto	ck Incentive		
9 10	Expense Adjustment Adjustments to Wages Over \$147K	\$	(17,296) (2,648)	\$	(5,595) (2,447)	\$	(10,766) (9,245)		
11 12 13	Adjustment Subject to OASDI Tax Adjustment to Medicare Taxes Adjustment to OASDI Tax	\$ \$ \$	(14,648) (251) (908)	\$ \$ \$	(3,148) (81) (195)	\$ \$ \$	(1,522) (156) (94)		
14	Tax Adjustment Totals	\$	(1,159)	\$	(276)	\$	(250)		
15	Total Wastewater Employment Tax Adjustment					\$	(1,686)		

Note 1 From CONFIDENTIAL File: OCA-IV-1 2022 Water Rate Case.xlsx, tab FIII-2-25(c).pg1, selected amounts times the appropriate expense factor.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Inflation Adjustment Recommendations

Line	Dagariakian	Ref.	Water	Mastauator
No.	Description	Wastewater		
1	Requested Inflation Adjustments Adjustment December 2021 - December 2022	1/	\$ 360,236 ^{3/}	\$ 106,523
2	Pro Forma Adjustment, December 2022 - February 2024	2/	663,071 4/	191,840
3	Total Requested		\$ 1,023,307	\$ 298,363
4	OCA Adjustment		\$ (1,023,307)	\$ (298,363)

Note 1 FIII-2.pg2, J239.

Note 2 FIII-2-37.pg1, cell H54.

Note 3 FIII-2W.pg2, J89.

Note 4 FIII-2-28W.pg1, cell H38.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Board of Directors Fees Recommendations

Line No.	Description	Ref.	Amount
1	Requested Board of Directors Compensation	1/	\$ 427,649
2	OCA Recommended Ratepayer Share (50%)		 213,825
3	OCA Recommended Board of Directors Fee Adjustment		\$ (213,825)
Note 1	Exhibit FIII-2-48.		

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024

Office of Consumer Advocate - Acquisition Adjustment Recommendations

	Office of Consumer Advocate - Acqui	sition Aujustinent Ket	OIIII	ienoanons					Impact of Was	tewa	ter Errata
Line							Errata	_	CA Original		Difference
No.	Description	Ref		Water	Ref.	V	/astewater	V	Vastewater	Ori	ginal - Errata
	Rate Base										
1	Wrightsville Acquisition Adjustment at 2/29/2024	1/	\$	59,966							
2	Felton Acquisition Adjustment at 2/29/2024				2/	\$	260,414	\$	260,414	\$	
3	Acquisition Adjustments Requested		\$	59,966	-	\$	260,414	\$	260,414	\$	•
4	Jacobus Acquisition Adjustment at 2/29/24				3/	\$ ((183,538.55)	\$	(183,538.55)	\$	•
5	Letterkenny Acquisition Adjustment at 2/29/2024				3/				(479,298.79)		479,298.79
6	Negative Acquisition Adjustments Not Requested					\$ ([183,538.55]	\$	(662,837.34)	\$	479,298.79
7	Adjustment to Remove Wrightsville and Felton Acquisition Adjustments		\$	(59,966)		\$	(260,414)	\$	(260,414)	\$	-
8	Adjustment to Add the Jacobus and Letterkenny Acquisition Adjustments					\$	(183,539)	\$	(662,837)	\$	479,299
9	Total Rate Base Adjustments		\$	(59,966)		\$	(443,953)	_\$	(923,251)	<u>\$</u>	479,299
	Amortization										
10	Wrightsville Acquisition Adjustment at 2/29/2024	4/	\$	6,789							
11	Felton Acquisition Adjustment at 2/29/2024				. 5/	\$	29,481	\$	29,481	\$	<u> </u>
12	Amortization of Acquisition Adjustments Requested		\$	6,789		\$	29,481	\$	29,481	\$	•
13	Jacobus Acquisition Adjustment Amortization				6/	\$	(28,237)	\$	(28,237)	\$	•
14	Letterkenny Acquisition Adjustment Amortization				6/			_	(72,775)	_	72,775
15	Amortization of Omitted Negative Amortization Adjustments					\$	(28,237)	\$	(101,011)	\$	72,775
16	Adjustment to Remove Amortization of Wrightsville and Felton Acq. Adj.		\$	(6,789)		\$	(29,481)	\$	(29,481)	\$	
17	Adjustment to Add Amortization of Jacobus and Letterkenny Acq. Adj.					\$	(28,237)	\$	(101,011)	\$	72,775
18	Total Amortization Adjustments		\$	(6,789)		\$	(57,718)	_\$_	(130,492)	_\$_	72,775

Note 1 Exhibit No. FV-1-9, page 1.

Note 2 Exhibit No. FV-1-2W, page 1.

Note 3 See the Direct Testimony of Morgan N. DeAngelo, page 8, net of amortization beginning at date of acquisition.

Note 4 Exhibit No. FIII-2-22, page 1.

Note 5 Exhibit No. FIII-2W.

Note 6 Based on the ten year amortizations recommended by Morgan N. DeAngelo.

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Cash Working Capital

Line		-1220697.523 Lag					
No.	Description	Amount	Days	Days			
1	Payroll Expense Adjustments	\$ (1,159,663	3) 7.0	\$ (8,117,639)			
2	Payroll Tax Withholding	(61,035	5) 13.7	(837,976)			
3	Payroll Taxes	(61,035)		(837,976)			
4	Inflation Adjustment	(1,023,307	<u>7)</u> 18.1	(18,545,719)			
5	Totals	\$ (2,305,039	9) 12.3	\$ (28,339,309)			
6	Revenue Lag		53.4				
7	Cash Working Capital Expense Adjustments	\$ (6,315	5) 41.1	\$ (259,502)			
8	Rate Base Adjustments	\$ (319,909	9)				
9	Long-Term Debt Component of Capital	1.779	%				
10	Interest Adjustment	\$ (5,658	3)				
11	Daily Interest Adjustment	\$ (16	5) 28.4	(440)			
12	Cash Working Capital Adjustment			\$ (259,943)			

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024

Office of Consumer Advocate - Income Tax Expense

			Weighted			Impact of Wastewater Errat																	
Line			Interest	Errata		OCA Original		D	ifference														
No.	Description	Rate Base	Cost		Amount		Amount		Amount		Amount		Amount		Amount		Amount		Amount		astewater	Orig	inal - Errata
	Water																						
1	Rate Base Adjustments	\$ (319,909)	-1.77%	\$	5,658																		
2	York Weighted Interest Cost		1.77%																				
3	OCA Weighted Interest Cost		1.88%																				
4	Difference	\$ 350,301,681	-0.11%	\$	(379,401)																		
5	Operating Income Adjustments			\$	2,025,699																		
6	Total			\$	1,651,955																		
7	Combined Effective Tax Rate				28.89210%																		
8	Adjustment to February 29, 2024 Income Tax Expense			<u>\$</u>	477,284																		
	<u>Wastewater</u>																						
9	Rate Base Adjustments	\$ 443,953	1.77%	\$	7,851	\$	16,328	\$	(8,477)														
10	York Weighted Interest Cost		1.77%																				
11	OCA Weighted Interest Cost		1.88%																				
12	Difference	\$ 32,909,997	-0.11%	\$	(35,644)	\$	(35,125)	\$	(519)														
13	Operating Income Adjustments			\$	391,423	_\$_	470,728	\$	(79,305)														
14	Total			\$	363,631	\$	451,931	\$	(88,300)														
15	Combined Effective Tax Rate				28.89210%		28.89210%		0.00000%														
16	Adjustment to February 29, 2024 Income Tax Expense			\$	105,061	\$	130,572	\$	(25,512)														

The York Water Company Docket Nos. R-2022-3031340 (Water) and R-2022-3032806 (Wastewater) Historic Test Year Ending 12/31/2021; Fully Projected Test Year Ending 2/29/2024 Office of Consumer Advocate - Cost of Capital

						Wate	er	Waste 1	Water
Line					ROR	Conversion	Pre-Tax	Conversion	Pre-Tax
No.	Description	Capital	Ratio	Rate	Component	Factor ³	ROR	Factor ³	ROR
1	Long-Term Debt	¹/ \$ 174,870,000	45.23% ^{2/}	3.91%	1.77%	0.986656	1.79%	0.993284	1.78%
2	Equity	\$ 211,777,106	54.77% ^{2/}	11.25%	6.16%	0.701591	8.78%	0.706304	8.72%
3		\$ 386,647,106	100.00%		7.93%		10.57%		10.50%
4	OCA Recommend	ed:							
5	25 Basis Point Rec	duction to Return on Eg							
6	Long-Term Debt	4/	45.23% ^{4/}	3.91%	1.77%	0.986656	1.79%	0.993284	1.78%
7	Equity	4/	54.77% 4/	11.00%	6.02%	0.701591	8.59%	0.706304_	8.53%
8			100.00%		7.79%	-	10.38%	_	10.31%
9	25 Basis Point RO	E Adjustment				=	-0.20%	=	-0.19%
10	Capital Structure								
11	Long-Term Debt	4/	48.00% 4/	3.91%	1.88%	0.986656	1.90%	0.993284	1.89%
12	Equity	4/	52.00% 4/	11.00%	5.72%	0.701591	8.15%	0.706304_	8.10%
13			100.00%		7.60%	-	10.06%	_	9.99%
14	Capital Structure	Adjustment				:	-0.32%	=	-0.32%
15	Return on Equity								
16	Long-Term Debt	4/	48.00% ^{4/}	3.91%	1.88%	0.986656	1.90%	0.993284	1.89%
17	Equity	4/	52.00% 4/	7.94%	4.13%	0.701591	5.88%	0.706304	5.85%
18			100.00%		6.01%	-	7.79%	-	7.74%
19	ROE Adjustment					=	-2.27%	=	-2.25%

Note 1 From Exhibit No. FVII-1, WP 1.

Note 2 From Exhibit No. FVII-1, WP 2, HV-1.pg3 and Moul Direct, page 2.

Note 3 From HV-1.wp1, factors for total revenue requirements.

Note 4 See the Responsive Testimony of Dr. David S. Habr.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

: Docket Nos. R-2022-3031340 (Water)

R-2022-3032806 (Wastewater)

The York Water Company

v.

VERIFICATION

I, Mark E. Garrett, hereby state that the facts set forth in my Surrebuttal Testimony,

OCA Statement 1SR, are true and correct (or are true and correct to the best of my knowledge,

information, and belief) and that I expect to be able to prove the same at a hearing held in this

matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. §

4904 (relating to unsworn falsification to authorities).

DATED: September 28, 2022

*335887

Signature:

Consultant Address: Garrett Group Consulting, Inc.

4028 Oakdale Farm Circle Edmond, Oklahoma 73013

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission : Docket Nos. R-2022-3031340 Office of Consumer Advocate : C-2022-3032868 Office of Small Business Advocate : C-2022-3032902

:

v.

:

The York Water Company – Water Division

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Pennsylvania Public Utility Commission : Docket Nos. R-2022-3032806 Office of Consumer Advocate : C-2022-3032869 Office of Small Business Advocate : C-2022-3033016

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The York Water Company – Wastewater

Division

v.

Surrebuttal Testimony of Morgan N. DeAngelo

On Behalf of Pennsylvania Office of Consumer Advocate

September 28, 2022

Table of Contents

Introduction:]
Response to Mr. Joseph T. Hand:	1
Positive Acquisition Adjustments]
Negative Acquisition Adjustments	∠
Conclusion:	4

Introduction:

1

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- 2 Q. Please state your name, business address and occupation.
- 3 A. My name is Morgan N. DeAngelo. My business address is 555 Walnut Street, Forum
- 4 Place, 5th Floor, Harrisburg, Pennsylvania 17101. I am currently employed as a
- 5 Regulatory Analyst by the Pennsylvania Office of Consumer Advocate (OCA).
- 6 Q. Have you provided testimony in this case?
- 7 A. Yes. I provided Direct Testimony in this case on August 19, 2022, in OCA Statement 2.
- 8 Q. How is your Surrebuttal Testimony organized?
- 9 A. In this testimony, I respond to the Rebuttal Testimony of York Water Company's (York)
- witness, Mr. Joseph T. Hand, addressing York's proposed acquisition adjustments.

Response to Mr. Joseph T. Hand:

- 12 **Positive Acquisition Adjustments**
- 13 Q. Please summarize your Direct Testimony regarding York's positive acquisition
- 14 adjustments.
- 15 A. In my Direct Testimony, OCA Statement 2, p. 6-7, I described reasons why the positive
- acquisition adjustment for Felton Borough should be removed from rate base and from
- the expense amortization on the basis that York has not met the criteria under Section
- 18 1327(a)(3). Ultimately, York had not provided sufficient information to show that Felton
- was a troubled system and was not furnishing and maintaining adequate, efficient, safe,
- and reasonable service and facilities at the time of the acquisition.

Q. What argument did Mr. Hand make in his Rebuttal Testimony?

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2 Mr. Hand disagreed and stated the "Company believes this positive acquisition A. 3 adjustment meets the criteria of Section 1327(a)(3) of the Code". (York Statement No. 1-4 R, p. 3, ln. 23-24) He also discussed a Corrective Action Plan that York put in place for 5 the system's inflow and infiltration (I&I) and stated, "the Company does not believe a 6 similar outcome would have occurred under the continued ownership of Felton 7 Borough". (York Statement No. 1-R, p. 5, ln. 5-6) Mr. Hand also indicated York 8 disagrees with OCA Witness Fought that a "notice of violation (NOV) that included an 9 effluent violation does not indicate Felton Borough was providing inadequate service 10 because it is not unusual for wastewater systems to get an NOV that includes an effluent 11 violation. (York Statement No. 1-R, p. 3-4, ln. 3, 1-3) Additionally, Mr. Hand alleged 12 that the positive and negative acquisition adjustments in the filing are miniscule compared to others. He also indicated that had York used fair market value treatment for 13 14 all the acquisitions, the "resulting valuations, and resulting total revenue requirement for 15 both water and wastewater operations, likely would have been higher and not subject to 16 challenges based upon Section 1327 criteria presented by OCA". (York Statement No. 1-17 R, p. 2-3, ln. 21-22, 1-2)

Q. Do you agree with Mr. Hand?

19 A. No. Mr. Hand's testimony relies upon speculation about what Felton Borough would or
20 would not have done, including the assumption that a Corrective Action plan was
21 required, and that Felton Borough would not have created a Corrective Action Plan or did
22 not have the resources to implement a Corrective Action Plan. The assumption made by
23 Mr. Hand that Felton Borough would not have created a Corrective Action Plan, if one

had been required, is not enough to prove that Felton Borough was providing inadequate service to its customers at the time of acquisition. There is no evidence showing that Felton Borough would not be financially able to do so. Additionally, OCA witness Fought stated in his experience "DEP initiates Consent Order Agreement (COA) to address any serious recurring effluent non-compliance issues. The Borough was not under a COA like the Letterkenny Township Municipal Authority System was." (OCA Statement 6SR, p. 3)

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Finally, Mr. Hand argues that OCA's challenge to two of the five acquisitions reflected in this rate case is somehow counterproductive. He stated, "Challenging these acquisition adjustments generated from depreciated original cost acquisitions discourages the Company from continuing to pursue this strategy". (York Statement No. 1-R, p.2, ln.18-19) Mr. Hand's argument ignores that in rebuttal, York accepted the OCA's adjustment to remove the acquisition premium for York's proposed acquisition adjustment for the Wrightsville Water System. He also argues that, because the OCA raised the lack of evidence and support for York's claim for two acquisition adjustments, York would in the future choose a presumably more expensive acquisition strategy that would raise rates even more to the acquired customers and to the existing customers. The OCA takes cases as they come. Here, York made acquisitions and sought adjustments under Section 1327. Based on this, I have reviewed the acquisitions and the requests for acquisition adjustments and made recommendations about which should, and which should not be accepted. What York pursues in the future will be addressed in the future, but Mr. Hand appears to overlook that fair market value acquisitions can be challenged as well under Section 1329 and under Sections 1102 and 1103. My testimony addresses the

acquisitions filed under Section 1327. York failed to meet the criteria under Section 1327, and therefore, I continue to recommend that York's proposal for a positive acquisition adjustment should be rejected.

Negative Acquisition Adjustments

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- Q. Please summarize your Direct Testimony regarding York's negative acquisition
 adjustment.
- 7 A. In my Direct Testimony, OCA Statement 2, p. 7-10, I described reasons why the negative 8 acquisition adjustment for Jacobus Borough Sewer Authority (Jacobus) has not met the 9 criterion of Section 1327(e) to support omitting its amortization of the pass-through of 10 the difference between acquisition cost and the depreciated original cost. By indicating 11 Jacobus did not wish to continue providing wastewater service and that there was no 12 immediate successor for the contracted operator, York has not justified its position that it 13 should not pass through the difference to ratepayers, and therefore there is no evidence of 14 substantial public interest.

Q. How did Mr. Hand respond in his Rebuttal Testimony?

A. In his Rebuttal Testimony, Mr. Hand stated the "Company was not told all the steps Jacobus Borough took to try to fill the position, but the Company believes that their best efforts were fruitless based on increasing demand and limited supply of qualified operators". (York Statement No. 1-R, p. 6, ln. 1-3) He also indicated a situation that occurred the first weekend, post-acquisition, stating "a severe storm and power outage disrupted power to two of the sanitary lift stations" and "Company personnel responded by setting mobile generators at the lift stations to keep customers in service and prevent an overflow condition". (York Statement No. 1-R, p. 6, ln. 6-9) Furthermore, Mr. Hand

discussed capital improvements York has made, since the acquisition, and stated "these were capital improvements that Jacobus Borough was unwilling or unable to make and may have resulted in inadequate service or environmental violations in the future". (York Statement No. 1-R, p. 6, ln. 16-18)

Q. Do you agree with Mr. Hand?

A.

No. There is no information supporting that Jacobus could not have otherwise hired an operator. Mr. Hand acknowledges that he does not know what efforts, if any, Jacobus undertook to locate a qualified operator. Retirement of the current operator alone without any evidence that a replacement operator could not be located does not meet the public interest standard set forth in Section 1327(e). York appears to have been readily able to retain an operator and there is no information to show that Jacobus would not have been able to do the same other than Mr. Hand's speculation. Additionally, if the storm and power outage occurred while the system was still in the ownership of Jacobus, there is no definitive way to prove Jacobus would not have been able to take the steps to bring in mobile generators and restore power. There is also no documentation that Jacobus would be financially or managerially unable to make the capital improvements York made, post-acquisition. Therefore, I continue to recommend that York amortize the difference between the purchase price and depreciated original cost of its assets, as an addition to income over ten years.

Conclusion:

- 21 Q. Does this conclude your Surrebuttal Testimony?
- 22 A. Yes. However, I reserve the right to modify if needed.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

: Docket Nos. R-2022-3031340 (Water)

R-2022-3032806 (Wastewater)

The York Water Company

V.

VERIFICATION

I, Morgan N. DeAngelo, hereby state that the facts set forth in my Surrebuttal Testimony, OCA Statement 2SR, are true and correct (or are true and correct to the best of my knowledge, information, and belief) and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: September 28, 2022

*335891

Consultant Address: Office of Consumer Advocate

555 Walnut Street 5th Floor, Forum Place Harrisburg, PA 17101-1923

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission:

•

v. : Docket Nos. R-2022-3031340 (Water)

: R-2022-3032806 (WW)

York Water Company :

SURREBUTTAL TESTIMONY OF DR. DAVID S. HABR

ON BEHALF OF THE OFFICE OF CONSUMER ADVOCATE

September 28, 2022

1 0: PLEASE STATE YOUR NAME. 2 A: David S. Habr. 3 ARE YOU THE SAME DAVID S. HABR WHO PREVIOUSLY FILED 0: 4 DIRECT AND REBUTTAL TESTIMONY IN THIS PROCEEDING? 5 A: Yes, I am. 6 0: WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY? 7 A: I have comments on various portions of Mr. Moul's rebuttal testimony that are 8 related to my direct testimony. 9 0: MR. MOUL REFERS TO INCREASING EQUITY COSTS AT VARIOUS 10 POINTS IN HIS TESTIMONY AT PAGES 4 THROUGH 9. HAVE THE 11 COMMON EQUITY COSTS FOR YORK WATER AND THE MEMBERS OF YOUR PROXY GROUP INCREASED SINCE YOUR DIRECT 12 13 **TESTIMONY WAS FILED?** Based on stock price changes, it appears that the cost of common equity has 14 A: 15 increased for three members of the proxy group and decreased for four members of the proxy group as well as York Water. Surrebuttal TABLE-1 has three sets of 16 stock prices for the proxy group and York Water. The first set contains the 17 average prices for the period May 2 through July 19, 2022 that I used in my direct 18 testimony. The second set contains the average prices for the period July 20 19 through September 16, 2022, and the last set contains September 23, 2022 closing 20 prices. Finally, the betas for the proxy group members and York Water are 21

included in the table to provide a risk measure.

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SURREBUTTAL Table 1

	ge Price	Price	
		9-23-	
5-27-19-22	7-209-16-22	2022	Beta
\$78.65	\$86.09	\$83.27	0.637
\$146.97	\$153.53	\$140.91	0.922
\$47.57	\$54.38	\$51.38	0.563
\$53.32	\$59.93	\$56.46	0.677
\$45.31	\$50.10	\$44.34	0.873
\$86.59	\$91.39	\$84.19	0.744
\$60.81	\$65.58	\$61.03	0.612
	\$78.65 \$146.97 \$47.57 \$53.32 \$45.31 \$86.59	\$78.65 \$86.09 \$146.97 \$153.53 \$47.57 \$54.38 \$53.32 \$59.93 \$45.31 \$50.10 \$86.59 \$91.39	5-27-19-22 7-209-16-22 2022 \$78.65 \$86.09 \$83.27 \$146.97 \$153.53 \$140.91 \$47.57 \$54.38 \$51.38 \$53.32 \$59.93 \$56.46 \$45.31 \$50.10 \$44.34 \$86.59 \$91.39 \$84.19

York Water Company \$40.07 \$43.79 \$41.76 0.566

For all of the companies, the average prices for the July 20th through September 16th period are greater than the prices used in my testimony. This suggests declining common equity costs for the period after I filed my testimony. However, comparing the 9-23 closing prices with the prices used in my direct suggests that the three riskiest companies, i.e., the companies with the three largest betas, are now experiencing increased common equity costs, i.e., their 9-23 stock prices are lower than the prices used in my direct testimony.

Q: WHAT DOES THIS INFORMATION TELL YOU?

10 A: It tells me that just because common equity costs in general may be up, the
11 common equity cost for low-risk firms may go down as investors look for safe
12 havens. S&P describes York Water as having low-risk water distribution
13 operations. 1

¹ Response to OCA Set V, No. 3, S&P Global Ratings, 10/8/2021, page 1.

- 1 Q: ON PAGES 6-7, MR. MOUL ASSERTS THAT THE INTEREST RATES
- 2 USED IN YOUR CAPM ANALYSIS ARE NOT APPROPRIATE. DO YOU
- 3 AGREE WITH HIS ASSERTION?
- 4 A: I do not. My interest rate time period matches the time period I used to calculate
- 5 my betas. Investor expectations concerning future interest rates during this time period
- 6 are embedded in the prices used to calculate the betas. Thus, there is no need to
- 7 incorporate out of period interest rate forecasts.
- 8 Q. DO YOU AGREE WITH MR. MOUL'S STATEMENT ON PAGE 9, LINES
- 9 15-16 THAT "THE COMMISSION SHOULD INCREASE THE RETURN
- 10 IN THIS CASE ABOVE THE 9.80% EQUITY RETURN THAT WAS
- 11 RECENTLY ESTABLISHED IN THE DSIC PROCEEDING FOR WATER
- 12 UTILITIES?"
- 13 A. No. The DSIC water equity return is not an appropriate basis upon which to
- establish York's ROE in this proceeding. The DSIC mechanism provides York the
- opportunity to recover certain eligible investments in the water and wastewater
- distribution system improvements between base rate cases. As an automatic rate
- 17 recovery mechanism for York, the DSIC lowers its risk. Contrary to Mr. Moul's
- inference, not all DSIC eligible plant may be recovered through the DSIC
- surcharge due to the 5% cap. The DSIC surcharge reflects specific statutory and
- 20 regulatory policy, which favors investment in main replacement, subject to
- 21 consumer protections. The equity return that is calculated in some way by
- Commission staff, for use in a single quarter test of whether York is over-earning

I		through its DSIC surcharge, is not suited to the identification of the cost of
2		common equity which York should be allowed the opportunity to earn as a result
3		of this proceeding.
4	Q.	MR. MOUL'S REBUTTAL TESTIMONY ON PAGE 5, LINES 8-20,
5		REFERENCES THE RETURN ON COMMON EQUITY ESTABLISHED
6		FOR UGI UTILITIES, INCELECTRIC DIVISION (UGI), CITIZENS
7		ELECTRIC COMPANY (CITIZENS), VALLEY ENERGY (VALLEY),
8		WELLSBORO ELECTRIC COMPANY (WELLSBORO), COLUMBIA
9		GAS COMPANY (COLUMBIA), PECO ENERGY COMPANY-GAS
10		DIVISION (PECO GAS), AND AQUA PENNSYLVANIA, INC. (AQUA) IN
11		COMMISSION PROCEEDINGS FROM 2017 THROUGH 2022. ARE
12		THESE RETURNS AN APPROPRIATE METRIC BY WHICH TO ASSESS
13		THE COST OF COMMON EQUITY ESTABLISHED FOR THIS
14		PROCEEDING?
15	A:	No. The purpose of developing a proxy group in the development of a comparable
16		group of utilities is to compare returns to other like companies. It would not be
17		appropriate to include an electric or natural gas utility company in the proxy group
18		for a water and wastewater utility, and that comparison is not appropriate here.
19		The rates of return that the Commission has set for electric and natural gas utilities
20		over the last five years are simply not relevant. Any impact Aqua Pennsylvania
21		has in this proceeding is being represented in the proxy group by its parent
22		company, Essential Utilities, Inc. While the OCA does not agree with the use of

1		these companies as comparisons, the OCA notes that the returns approved by the
2		Commission in Mr. Moul's cited example are all at least 100 basis points below
3		Mr. Moul's recommended 11.25% return in this proceeding.
4	Q:	ON PAGE 9, MR. MOUL COMPARES YOUR CAPITAL STRUCTURE
5		RECOMMENDATIONS TO THE CAPITAL STRUCTURES APPROVED
6		BY THE COMMISSION IN THE PECO ENERGY-GAS DIVISION RATE
7		CASE, COLUMBIA GAS RATE CASE, AND THE AQUA RATE CASE.
8		ARE THESE COMPARISONS APPROPRIATE?
9	A:	No. My capital structure recommendation proposed in this case is appropriate
10		because it more accurately reflects York Water's capital structure and the
11		Company's historically acceptable capital structure. The capital structures
12		approved for an electric company, a natural gas company that is part of a large
13		multistate corporation, and a large multistate water company are not relevant.
14	Q:	DO YOU AGREE WITH MR. MOUL'S STATEMENT AT PAGE 10, LINES
15		13-14, THAT YOUR PROPOSED CAPITAL STRUCTURE "MERELY
16		LOWERS THE COMPANY'S REVENUE REQUIREMENTS."
17	A:	No, I do not. All costs incurred by a regulated utility should be prudent. This
18		includes capital costs. The Company has clearly shown in 2020 and 2021 that it
19		can successfully operate with a debt ratio between 46% and 49%. Moreover, as I
20		noted in my Rebuttal Testimony, Mr. Moul's recommended capital structure is
21		outside its historically acceptable range. As noted in the Company's second
22		Quarter 2022 10-Q, York Water observed that a debt ratio "between forty-six and

1		fifty percent has historically been acceptable to the PPUC in rate filings." The
2		Company's proposal to lower the debt ratio and increase costs to customers should
3		be rejected.
4	Q:	AT PAGE 11, LINES 14-16, MR. MOUL CLAIMS THAT THERE IS NO
5		UNCERTAINTY ASSOCIATED WITH CAPITAL STRUCTURE. WHY IS
6		THIS NOT AN ACCURATE ASSESSMENT OF CAPITAL STRUCTURE?
7	A:	It is not an accurate assessment of the dynamic aspects of capital structure. At any
8		point in time, the capital structure is certain. However, in the planning process the
9		capital structure is quite changeable or fluid. It is during this process that a capital
10		structure that is reasonable from both the stockholders' and customers' point of
11		view can be established. York Water is in that process right now and still has the
12		flexibility to establish a capital structure with 48% debt and 52% common equity.
13	Q:	ON PAGE 12, LINES 9-11, MR. MOUL CLAIMS THAT YOUR
14		HYPOTHETICAL CAPITAL STRUCTURE SHOULD NOT BE USED
15		BECAUSE IT CREATES A MISMATCH BETWEEN LONG-TERM DEBT
16		AND THE HYPOTHETICAL DEBT RATIO THAT YOU ADVOCATE.
17		WHY IS THIS NOT ACCURATE?
18	A:	This claimed mismatch is not accurate because there is still flexibility in the
19		projected test year capital structure. Company can still create a 48% debt /52%
20		common equity capital structure for the future test year.

²York Water Company 2022 second quarter 10-Q, p. 23.

I	Q:	ON PAGE 14, LINES 24-32, MR. MOUL COMPARES THE USE OF THE
2		DCF IN THE CALCULATION OF THE COMPANY'S RATE OF RETURN
3		IN THIS PROCEEDING TO THE COMMISSION'S CALCULATION OF
4		THE RETURN UTILIZED FOR THE CALCULATION OF THE DSIC
5		RETURN IN THE QUARTERLY EARNINGS REPORTS. WHY IS THIS
6		NOT AN APPROPRIATE COMPARISON?
7	A:	As I discussed above regarding the comparison of the overall return on equity and
8		the use of the DSIC, the comparison similarly is not appropriate here. The equity
9		return that is calculated in some way by Commission staff, for use in a single
10		quarter test of whether York is over-earning through its DSIC surcharge, is not
11		suited to the identification of the cost of common equity which York should be
12		allowed the opportunity to each as of the end of the FPFTY.
13	Q:	ON PAGE 15, LINES 25-26 AND PAGE 18, LINES 11-18, MR. MOUL
14		CLAIMS THAT YOUR USE OF A MULTI-STAGE DCF IS NOT
15		APPROPRIATE. PLEASE EXPLAIN WHY YOUR USE OF THE MULTI-
16		STAGE DCF IS APPROPRIATE?
17	A:	The multistage model must be used to temper analysts' 5-year earnings forecasts
18		that are not sustainable in the long-run. That is, an individual firm cannot grow
19		faster than the economy, as a whole, in perpetuity. We can think of it this way,
20		assume that the economy is represented by a large balloon that is filled with
21		smaller balloons that represent the individual companies. If one of the smaller
22		balloons is growing faster than the economy, it will eventually fill up the entire

1		economy balloon thus becoming the entire economy. This clearly is not
2		reasonable and cannot/would not occur. The multistage DCF recognizes this
3		reality whereas the constant growth model, when saddled with an unsustainable,
4		inappropriate growth rate, does not.
5	Q:	AT PAGE 18, LINES 8-9, MR. MOUL CLAIMS YOU USED YOUR
6		MULTI-STAGE DCF APPROACH TO REDUCE YOUR ALLOWED ROE
7		RECOMMENDATION FOR YORK WATER. IS THAT A CORRECT
8		CHARACTERIZATION OF YOUR ANALYSIS?
9	A:	No, it is not. My 7.94% recommended ROE is based upon York Water's dividend
10		yield and its historical earning growth (5.94%) which is higher than Yahoo!'s
11		4.90% growth and Value Line's 5.00% growth.
12	Q:	ON PAGE 19, LINES 4-11, MR. MOUL CRITIQUES YOUR USE OF THE
13		NON-CONSTANT DCF METHODS IN PUBLIC UTILITY RATE
14		SETTING. WHY ARE THESE METHODS APPROPRIATE?
15	A:	As I stated previously, these methods are needed to temper the impact of
16		unsustainably high earnings growth rate forecasts on DCF common equity cost
17		estimates.
18	Q.	ON PAGE 19, LINES 12-20 AND PAGE 20, LINE 1-8, MR. MOUL CLAIMS
19		THERE ARE FLAWS IN THE WAY THAT YOU HAVE APPLIED THE
20		NON-CONSTANT DCF METHODOLOGY IN THIS CASE. DO YOU
21		AGREE WITH HIS ASSESSMENT?
22	A:	No, I do not. First, Mr. Moul claims my use of GDP growth in the DCF model is

1		entirely misplaced. I would like to point out that I am not the first person to use
2		GDP growth in a regulated utility setting. FERC started using GDP in regulated
3		gas transmission cases over 20 years ago to temper extremely high analysts'
4		earnings forecasts. They used a weighted average analysts' forecast earnings
5		growth and a forecast GDP growth rate in the single-stage DCF. This method is
6		referred to as the FERC 2-Step. High short-term earnings forecasts are inconsistent
7		with the perpetual, sustainable growth that is at the core of the single stage DCF
8		model.
9	Q:	REFERRING TO MR. MOUL'S TESTIMONY ON PAGE 20, LINES 12-17,
10		DO YOU AGREE WITH HIM THAT YOU HAVE COMMITTED AN
11		ERROR BY BASING YOUR RECOMMENDED RETURN ON COMMON
12		EQUITY FOR YORK WATER ON YORK WATER'S ACTUAL
13		EXPERIENCE?
14	A:	No, I do not. For an investor to look to other water companies' cost of common
15		equity to determine what to expect from York Water is analogous to a car buyer
16		looking at Chevys, Hondas, and BMWs to determine what to expect from a Ford.
17		I used York Water's experience analysts' forecast to formulate York Water's
18		market-based cost of common equity. The proxy group information provides a
19		framework for examining the soundness of York Water's cost of common equity.

I	Q.	AT PAGE 22, LINES 21-26, MR. MOUL CLAIMS THAT YOU DO NOT
2		CRITICIZE HIS USE OF THE LEVERAGE ADJUSTMENT AND THAT
3		THE LEVERAGE ADJUSTMENT HAS NOTHING TO DO WITH
4		MARKET TO BOOK RATIOS. IS THIS ACCURATE?
5	A:	No. First, Mr. Moul has mischaracterized my testimony. At page 29, beginning at
6		line 7, I clearly state that leverage adjustments "are clearly not relevant to the
7		regulated utility industry." Second, Mr. Moul bases the need for a leverage
8		adjustment on the divergence between the market value of the equity in the
9		utility's capital structure and its book value. This relationship is simply the
10		market-to-book ratio. I then go on to explain that for a regulated utility to have a
11		market-to-book ratio greater than one means that investors are expecting the
12		utility's earned returns to be greater than utility's cost of common equity.
13	Q:	AT PAGE 27, LINES 18-19, MR. MOUL CLAIMS YOU CALCULATED
14		"OPTION IMPLIED BETAS" FOR USE IN YOUR CAPM ANALYSIS. IS
15		HIS CLAIM CORRECT?
16	A:	No, it is not. I use the same formula for calculating the holding period returns that
17		Value Line uses, holding period return = $LN(P_t/P_{t-1})$ -1. The only difference is that
18		I used daily closing prices to calculate daily holding period returns while Value
19		Line uses weekly closing prices to calculate weekly holding period returns. We
20		both use these holding period returns in an ordinary least squares (OLS) regression
21		analysis to estimate raw betas. Like Value Line, my betas are not based on option
22		prices.

1	Q:	ALSO ON PAGE 27 AT LINES 21-22, MR. MOUL ASSERTS THAT YOUR
2		BETAS ARE NOT BASED ON EMPIRICALLY AVAILABLE DATA, IS
3		THIS ASSERTION CORRECT?
4	A:	No, it is not. The daily prices I used are readily available on Yahoo!
5	Q:	DO INVESTORS HAVE TO RELY ON YOUR BETAS FOR THEM TO BE
6		RELEVANT TO THIS PROCEEDING?
7	A:	No, they do not. These betas were calculated so that the stock price information
8		embedded in them is the same stock price information embedded in my DCF
9		analysis. This matching makes them relevant to this proceeding.
10	Q:	DO YOU AGREE WITH MR. MOUL'S STATEMENT AT PAGE 28, LINES
11		13-14 THAT YOU HAVE INCORRECTLY USED THE GEOMETRIC
12		MEAN IN YOUR HISTORICAL MARKET RISK PREMIUM ANALYSIS?
13	A:	No, I do not. It is more appropriate to use the geometric mean in utility regulation
14		where the common equity cost estimate covers an indefinite time in the future.
15		This is consistent with Professor Aswath Damodran's observation that if
16 17		annual returns are uncorrelated over time, and our objective was to estimate the risk premium for the next year, the
18		arithmetic average is the best and most unbiased estimate of
19		the [risk] premium. There are, however, strong arguments that
20		can be made for the use of geometric averages. (Emphasis
21		added.) First, empirical studies seem to indicate that returns on
22 23		stocks are negatively correlated over time. Consequently, the
23 24		arithmetic average return is likely to overstate the premium. Second, while asset pricing models may be single period
25		models, the use of these models to get expected returns over
26		long periods (such as five or ten years) suggests that the
27		estimation period may be much longer than a year. In this
28		context, the argument for geometric average premiums

1	becomes stronger. ³
2	

2		
3	Q:	THE QUESTION THAT MR. MOUL IS ASKED ON PAGE 29, LINE 37 OF
4		HIS REBUTTAL TESTIMONY SUGGESTS THAT YOU "IGNORED THE
5		ADJUSTMENT TO THE CAPM RESUTS FOR SIZE DIFFERENCES."
6		DID YOU IGNORE MAKING POSSIBLE ADJUSTMENTS TO YOUR
7		CAPM RESULTS TO REFLECT SIZE DIFFERENCES?
8	A:	No, I did not. On page 31 of my direct testimony, beginning at line 3, I explain
9		how page 3 of his Schedule 13 demonstrates it is inappropriate to apply the size
10		adjustment to regulated utility companies. Not only is the proposed size
11		adjustment shown for each size group, that group's beta is also shown. Every one
12		of the size groups, except for the largest, have betas greater than one. Like
13		regulated utility companies, the largest size group has a beta less than one. That
14		less than one beta is associated with a negative size adjustment. It is clear that
15		regulation negates any size risk that may otherwise be associated with a utility
16		company.
17	Q.	ON PAGES 30-31, MR. MOUL CLAIMS THAT THE RISK PREMIUM
18		METHOD SHOULD BE GIVEN "SERIOUS CONSIDERATION." DO
19		YOU AGREE WITH THAT STATEMENT?

20 A. No. As is clearly shown on Mr. Moul's Schedule 12, page 1, his risk premium is

 $^{^3}$ Aswath Damodaran, "Equity Risk Premiums (ERP): Determinants, Estimation, and Implications – The 2022 Edition: Updated March 23, 2022.

1		based on large common stocks. Utility companies are not specifically
2		considered. Adding a utility bond yield to a large company risk premium
3		provides no information as to the market cost of common equity for a utility
4		company. This methodology should not be given any consideration.
5	Q.	ON PAGE 33, MR. MOUL CLAIMS THAT YOUR RELIANCE ON THE
6		BLUEFIELD AND HOPE CASES IS "MISTAKEN" BECAUSE THE DCF
7		AND CAPM METHODS WERE NOT ENVISIONED FOR USE AT THE
8		TIME OF THE CASES. IS THIS AN ACCURATE ASSESSMENT?
9	A:	No, it is not. The language in <i>Hope</i> is clearly consistent with the DCF
10		methodology. Specifically, <i>Hope</i> states that "the return to the equity owner should
11		be commensurate with returns on investments in other enterprises having
12		corresponding risks." ⁴ The is exactly the analysis that knowledgeable purchasers
13		of common stock make when deciding which stock to buy and how much to buy.
14 15	Q:	DO YOU CONTINUE TO RECOMMEND FOR THE REASONS SET
16		FORTH IN YOUR DIRECT TESTIMONY AND IN OCA WITNESS
17		ALEXANDER'S TESTIMONY THAT IT IS NOT APPROPRIATE TO
18		AWARD 25 BASIS POINTS FOR MANAGEMENT PERFORMANCE?
19	A:	Yes.
20	Q:	DOES THIS CONCLUDE YOUR SURREBUTAL TESTIMONY?
21	A:	Yes, it does.

 $^{^{\}rm 4}$ See page 8 of Habr direct testimony for full citation.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

: Docket Nos. R-2022-3031340 (Water)

R-2022-3032806 (Wastewater)

The York Water Company

v.

VERIFICATION

I, David S. Habr, hereby state that the facts set forth in my Surrebuttal Testimony, OCA

Statement 3SR, are true and correct (or are true and correct to the best of my knowledge,

information, and belief) and that I expect to be able to prove the same at a hearing held in this

matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. §

4904 (relating to unsworn falsification to authorities).

DATED: September 28, 2022

*335892

Signature: _/David S. Habr/__

David S. Habr

Consultant Address: Habr Economics

213 Cornuta Way

Nipomo, CA 93444-5020

OCA STATEMENT 4SR

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY)
COMMISSION) DOCKET NOS. R-2022-3031340 (WATER)
v.) R-2022-3032806 (WASTEWATER)
THE YORK WATER COMPANY))

SURREBUTTAL TESTIMONY OF JEROME D. MIERZWA

ON BEHALF OF THE PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

SEPTEMBER 28, 2022

EXETER

1		I. <u>INTRODUCTION</u>
2	Q.	WOULD YOU PLEASE STATE YOUR NAME AND BUSINESS
3		ADDRESS?
4	A.	My name is Jerome D. Mierzwa. I am a Principal and Vice President of Exeter
5		Associates, Inc ("Exeter"). My business address is 10480 Little Patuxent Parkway,
6		Suite 300, Columbia, Maryland 21044. Exeter specializes in providing public utility-
7		related consulting services.
8	Q.	ARE YOU THE SAME JEROME D. MIERZWA THAT FILED DIRECT
9		TESTIMONY IN THIS PROCEEDING ON AUGUST 19, 2022, AND
10		REBUTTAL TESTIMONY ON SEPTEMBER 16, 2022?
11	A.	Yes. I am.
12	Q.	WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?
13	A.	The purpose of my surrebuttal testimony is to respond to certain aspects of the rebuttal
14		testimony of Constance E. Heppenstall filed on behalf of the York Water Company
15		("York" or "Company"), and Brian Kalcic filed on behalf of the Office of Small
16		Business Advocate ("OSBA").
17		II. YORK WITNESS: CONSTANCE E. HEPPENSTALL
18	Q.	IN YOUR DIRECT TESTIMONY YOU FOUND THAT THE SYSTEM-
19		WIDE AND CLASS EXTRA CAPACITY DEMAND FACTORS, OR
20		RATIOS, USED BY THE COMPANY IN ITS COST OF SERVICE STUDY
21		("COSS") TO BE OUTDATED. WHAT WAS MS. HEPPENSTALL'S
22		RESPONSE TO YOUR CLAIMS CONCERNING THE SYSTEM-WIDE
23		CAPACITY FACTORS?
24	A.	In its COSS, the Company used the system-wide maximum day ratio of 1.52
25		experienced in 2010, and a system-wide maximum hour ratio of 1.84 experienced in

2		of 1.35 which was reflective of the actual maximum day demands experienced by York
3		over the last 7 years, and a system-wide maximum hour ratio of 1.65 which was also
4		reflective of the actual maximum hour demands experienced by York over the last 7
5		years. Ms. Heppenstall claims a water system is designed to provide water during peak
6		periods over many years, not just over the past 5 to 7 years. Therefore, she recommends
7		that the historic peak ratios should be used, not more recent peak ratios. ¹
8	Q.	WHAT IS YOUR RESPONSE TO MS. HEPPENSTALL'S CLAIM
9		CONCERNING THE USE OF SYSTEM-WIDE MAXIMUM DAY AND
10		MAXIUMUM HOUR RATIOS?
11	A.	With respect to developing demand ratio or factors to be used in a COSS, the American
12		Water Works Association ("AWWA") M1 Manual indicates that demand data "over a
13		representative number of recent years" should be utilized. ² I believe that 7 years meets
14		the standard identified in the AWWA M1 Manuel, and the up to 16 years relied upon
15		by York does not. Demands experienced 16 years ago are not representative of current
16		customer demands.
17	Q.	IN YOUR DIRECT TESTIMONY YOU FOUND THAT THE CLASS
18		EXTRA CAPACITY RATIOS USED IN THE COMPANY'S COSS WERE
19		DETERMINED IN THE 1976-1977 CUSTOMER DEMAND STUDY AND
20		THAT THESE FACTORS WERE ALSO UNREASONABLE BECAUSE
21		THEY WERE OUTDATED. DID MS. HEPPENSTALL FIND YOUR
22		CONCERN TO BE VALID?
23	A.	No. Ms. Heppenstall claims my concern is not valid. Ms. Heppenstall contends that
24		the Stipulation approved by the Commission in the Company's 1992 rate case at Docket

2006. In my direct testimony I recommend use of the system-wide maximum day ratio

¹ York Statement No. 108-R, page 6, line 14 through page 7, line 3. ² AWWA M1 Manual, 7th Edition, page 373.

1

No. R-922168 required the Company to "complete a study to investigate the feasibility
of preparing a study of customer demands on the York Water System." She claims that
the Company submitted the feasibility study in April 1993, but neither the OCA nor
Bureau of Investigational Enforcement ("I&E") provided any response to the feasibility
study. She also claims that the Company submitted another feasibility study for a
customer class demand study in April 2007, pursuant to the Settlement Petition adopted
in the Company's 2006 base rate case at Docket No. R-00061322. She claims that
again, the Company received no response to the feasibility study and, therefore, the
Company contends that it was not appropriate to spend several hundred thousand
dollars on a customer class demand study for which it may not have been able to recover
the costs. ³ She, therefore, claims that it is not the fault of the Company that they only
have customer demand data from the 1970s upon which to base class extra capacity
demand factors. ⁴
WHAT IS YOUR RESPONSE TO WITNESS HEPPENSTALL'S CLAIMS?
Ms. Heppenstall's claims are not relevant to this proceeding. They do not change the
fact that the Company's class maximum day and maximum hour demand extra capacity

factors are out of date and unreasonable. Had the customer demand studies described

in Docket Nos. R-922168 and R-00061322 been performed, the results of those studies

Q.

A.

would also likely now be outdated.

³ York Statement No. 108-R, page 7, line 4 through page 8, line 17.

⁴ <u>Id</u>., page 9, lines 6-10.

1	Q.	WERE YOU THE OCA'S COST ALLOCATION AND RATE DESIGN
2		WITNESS IN THE COMPANY'S MOST RECENT PRIOR RATE CASE IN
3		DOCKET NO. R-2018-300019, AND DID YOU PRESENT AN ANALYSIS
4		OF CLASS DEMAND FACTORS SIMILAR TO THE ANALYSIS
5		PRESENTED IN THIS PROCEEDING?
6	A.	Yes.
7	Q.	WHAT OBSERVATIONS DOES MS. HEPPENSTALL OFFER
8		CONCERNING YOUR ANALYSES OF CLASS DEMAND FACTORS
9		PRESENTED IN YORK'S PRIOR CASE AND IN THIS CASE?
10	A.	Ms. Heppenstall provides a comparison of the results of each analysis and notes that in
11		this case the class demand factors I have recommended in this case are each higher than
12		the class demand factors I presented in the prior case. She claims that if the historic
13		class maximum day and maximum hour ratio I have proposed were reasonable, they
14		should not change as much from the prior rate case. ⁵
15	Q.	WHAT IS YOUR RESPONSE TO MS. HEPPENSTALL'S
16		OBSERVATIONS CONCERNING THE TWO ANALYSES?
17	A.	Contrary to Ms. Heppenstall's claims, the class maximum day and maximum hour
18		ratios have not changed much since the prior case. As shown in the comparison
19		presented on page 10 of Ms. Heppenstall's rebuttal testimony, the differences in each
20		class's maximum day ratio is 0.1, or approximately 6%. The difference in the maximum
21		hour ratios range from 0.15 to 0.20, or 7 to 8%. I would not consider these changes to
22.		be significant.

⁵ <u>Id</u>., page 10, lines 5-11.

1	Q.	MS. HEPPENSTALL CLAIMS THAT YOU HAVE FAILED TO PROVIDE
2		CREDIBLE EVIDENCE THAT YOUR ALTERNATIVE METHOD OF
3		DETERMINING CUSTOMER CLASS DEMANDS IS SUPERIOR TO THE
4		COMPANY'S.6 IN RESPONSE TO HER TESTIMONY, HAVE YOU
5		CONDUCTED ANY FURTHER ANALYSIS OF THE DEMANDS OF
6		YORK'S VARIOUS CUSTOMER CLASSES AND THE CLASS DEMAND
7		FACTORS PRESENTED BY MS. HEPPENSTALL?
8	A.	Yes. The maximum day extra capacity factor used by the Company for the Residential
9		class is 2.5 (Exhibit No. FVIII, p. 16). That is, the demands of Residential customers
10		on a maximum day are expected to be 2.5 times the demands experienced on an average
11		day. To assess the reasonableness of the Company's estimate, I compared total
12		projected system demands using the Company's estimated maximum day demands of
13		Residential customers with actual system maximum day demands. This comparison is
14		presented on Schedule JDM-1SR. This comparison revealed that based on the
15		maximum day demands assigned to the Residential class of 2.5, the maximum day
16		demands of Residential customers would exceed the actual total maximum day
17		demands experienced by York. It is simply impossible for the maximum day demand
18		of one customer class served by York to exceed the actual maximum day demand of
19		all customer classes served by York.
20		I performed a similar comparison of the maximum hour demands assigned to
21		each class and the maximum hour demands experienced on the York system. This

each class and the maximum hour demands experienced on the York system. This comparison revealed that based on the maximum hour demands assigned to the Residential class of 4.5 (Exhibit No. FV111, page 26), the maximum hour demand of Residential customers would exceed the actual total maximum hour demand

 $\frac{6}{10}$., page 10, lines 10 – 12.

22

23

24

experienced by York. This comparison is also presented on Schedule JDM-1SR.
Again, it is simply impossible for the maximum hour demands of one customer class
served by York to exceed the maximum hour demands of all customer classes served
by York.

Based on these comparisons, clearly the maximum day and maximum hour extra capacity demand factors used by the Company for the Residential class are unreasonable. These comparisons also indicate that Ms. Heppenstall has failed to conduct any specific analysis of the reasonableness of the demand factors presented in her COSS. The AWWA Manual M1 approach I have utilized is superior because it is based on the recent actual consumption of York's customers over the last seven years, not data from the 1970s.

Q. BRIEFLY SUMMARIZE YOUR POSITION PRESENTED IN YOUR
DIRECT TESTIMONY CONCERNING THE COMPANY'S PROPOSED
MONTHLY RESIDENTIAL CUSTOMER CHARGE FOR A CUSTOMER
WITH A 5/8-INCH METER.

York is proposing to increase the current customer charge for a Residential customer with a 5/8-inch meter from \$16.25 to \$20.71. The \$20.71 charge is based on an analysis of what the Company claims are direct customer costs presented in RS1-j Attachment. In my direct testimony, I found York's calculation of direct customer costs to be unreasonable because it included costs that did not vary directly with the addition or subtraction of customers. York included bad debt expense in its calculation, and office buildings and furniture and equipment which are not direct customer costs. Finally, York included the investment costs associated with its Enterprise Software which do not change with the addition or subtraction of a customer.

A.

1	Q.	DID MS. HEPPENSTALL AGREE WITH YOUR POSITION THAT BAD
2		DEBT EXPENSE IS NOT A DIRECT CUSTOMER COST?
3	A.	Ms. Heppenstall did not agree with my position that bad debt expense is not a direct
4		customer costs and specifically addressed the inclusion of bad debt expense in a
5		customer charge in her rebuttal testimony. ⁷
6	Q.	SHOULD BAD DEBT EXPENSE BE INCLUDED IN A CALCULATION
7		OF DIRECT CUSTOMER COST?
8	A.	No. As I explained in my direct testimony, only those costs that vary with the addition
9		or subtraction of a customer should be considered a direct customer cost. If bad debt
10		expense did vary directly with the number of customers, each new customer added by
11		York would contribute to bad debt expense, and each customer that discontinues
12		service would reduce bad debt expense. Since this is not the case, bad debt expense
13		does not vary directly with the addition or a subtraction of a customer and, therefore,
14		those costs should not be included in a calculation of direct customer costs.
15	Q.	WHAT IS THE IMPACT OF ELIMINATING BAD DEBT EXPENSE
16		FROM THE COMPANY'S CALCULATION OF DIRECT COSTS?
17	A.	As shown on RS1-j Attachment, page 2, Ms. Heppenstall has included \$358,011 of bad
18		debt expense in her calculation of direct customer costs. As shown in page 1 of that
19		attachment, the number of bills over which bad debt expense would be collected is
20		854,579. Thus, eliminating bad debt expense from Ms. Heppenstall's calculation of
21		direct customer costs would reduce her calculated charge by \$0.42 (\$358,011/854,579).

⁷ <u>Id</u>., page 14, lines 6-8.

1	Q.	IN YOUR DIRECT TESTIMONY YOU RECOMMENDED
2		PROPORTIONALLY INCREASING WASTEWATER RATES FOR EACH
3		CUSTOMER CLASS IN ORDER TO REDUCE THE WASTEWATER
4		SUBSIDY FROM \$2.67 MILLION TO \$2.05 MILLION. MS.
5		HEPPENSTALL CLAIMS THAT YOU DID NOT PROPORTIONALLY
6		INCREASE THE RATES OF EACH CLASS.8 WHAT IS YOUR
7		RESPONSE?
8	A.	In my direct testimony I proposed reducing the wastewater subsidy from \$2.67 million
9		to \$2.05 million, or by \$625,000. In assigning the additional \$625,000 to the
10		Residential and Non-Residential classes, I allocated the \$625,000 to each class in
11		proportion to the Company's initial assignment of the \$2.67 million subsidy to each
12		class. This is shown in Table 5 that was included in my direct testimony.
13	Q.	IN YOUR DIRECT TESTIMONY YOU RECOMMENDED THAT THE
14		WASTEWATER SUBSIDY THAT IS PROPOSED TO BE SHIFTED TO
15		WATER CUSTOMERS ALSO BE ALLOCATED TO THE INDUSTRIAL
16		AND PRIVATE FIRE CLASSES. DOES MS. HEPPENSTALL AGREE
17		WITH THIS RECOMMENDATION?
18	A.	No. Ms. Heppenstall claims that the wastewater system has very few Industrial
19		customers and no Private Fire customers. Therefore, she claims that the wastewater
20		costs allocated to water customers should only be allocated to the Residential and
21		Commercial classes, as these are the classes that are mostly responsible for the
22		wastewater costs.9

⁸ <u>Id</u>., page 15, line 15-16. ⁹ <u>Id</u>., page 16, line 5-12.

\sim		\mathbf{p} \mathbf{p} \mathbf{p} \mathbf{q} \mathbf{p} \mathbf{q} \mathbf{p} \mathbf{q} \mathbf{p} \mathbf{q} \mathbf{p}	IS HEPPENSTALL?
()	WHALLSYON	R RESPUNSE ION	IN HEPPENNIALL/

Allocating the wastewater subsidy only to Residential and Commercial customers might have merit if a significant percentage of York's wastewater customers were also water customers. However, they are not. York serves approximately 73,000 water and wastewater customers. Of the 73,000 customers, approximately 5,000 of those customers are also wastewater customers. There is no basis to assign the unrecovered wastewater costs of a particular class to the water customers in that same class that do not receive wastewater service from York and pay another provider for wastewater service. Therefore, the wastewater subsidy should also be allocated to Industrial water customers and Private Fire customers.

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III. OSBA WITNESS: BRIAN KALCIC

13 IN YOUR DIRECT TESTIMONY YOU FOUND THAT THE COMPANY'S Q. 14 BASE EXTRA-CAPACITY ("BEC") WATER COST OF SERVICE STUDY 15 UTILIZED INAPPROPRIATE SYSTEM-WIDE MAXIMUM DAY AND 16 MAXIMUM HOUR CAPACITY FACTORS AND INAPPROPRIATE 17 CLASS MAXIMUM DAY AND MAXIMUM HOUR CAPACITY 18 FACTORS. ACCORDING TO MR. KALCIC, WHAT ROLE DO SYSTEM-19 WIDE MAXIMUM DAY AND MAXIMUM HOUR DEMAND CAPACITY 20 FACTORS SERVE? 21 A. As explained by Mr. Kalcic, the BEC water cost of service methodology uses system 22 maximum day and maximum hour capacity factors, or ratios, to determine the level of

costs that are classified as base, maximum day, and maximum hour related. 10

¹⁰ OSBA Statement No. 1-R, page 2, lines 10-14.

1	Q.	DOES MR. KALCIC AGREE WITH YOUR PROPOSED SYSTEM-WIDE
2		MAXIMUM DAY AND MAXIMUM HOUR DEMAND RATIOS?
3	A.	No. Like Ms. Heppenstall, Mr. Kalcic believes that York's system-wide maximum day
4		and maximum hour ratios should be based on demands experienced more than sever
5		years ago, and implies that the maximum demands experienced since 2000 should be
6		utilized. ¹¹
7	Q.	WHAT IS YOUR RESPONSE TO MR. KALCIC?
8	A.	Similar to my response to Ms. Heppenstall, the AWWA M1 Manuel indicates that
9		demand data "over a representative number of recent years" should be utilized to
10		determine demand factors. 12 I believe that seven years meets that standard, and the up
11		to 16 years relied upon by York does not. Demands experienced 16 years ago are no
12		representative of current customer demands.
13	Q.	WHAT ARE MR. KALCIC'S CRITICISMS OF YOUR RECOMMENDED
14		CLASS DEMAND FACTORS?
15	A.	I developed my recommended class demand factors based on the methodology set forth
16		in the AWWA Manual M1. Mr. Kalcic claims that the intent of the AWWA M1
17		Manual is to provide an estimate of class demand factors when actual demand data is
18		unavailable, implying that they should not be used in this proceeding because actual
19		data is available. 13 He further claims that I undertook no empirical analysis to determine
20		whether the approach described in the AWWA M1 Manual to develop maximum day
21		and maximum hour demand factors was reasonable for the Vork system 14

^{11 &}lt;u>Id.</u>, page 3, line 9 through page 4, line 11.
12 AWWA M1 Manuel, page 373.
13 OSBA Statement No. 1-R, page 5, lines 17-21.
14 <u>Id.</u>, page 6, lines 17-22.

Q. WHAT IS YOUR RESPONSE TO MR. KALCIC?

A.

First, the actual demand data referred to by Mr. Kalcic is over 40 years old. As explained in my direct testimony, the water usage characteristics of York's customers have changed significantly over the last 40 years. For example, the demands of the Industrial customers reflected in York's demand study have declined over 80 percent since the demand study was conducted. Thus, I do not believe it reasonable to characterize the results of the customer demand study conducted by the Company in the 1970s to be based on relevant actual data.

Second, with respect to failing to provide any empirical analysis to support my proposed demand factors, without a detailed customer class demand analysis, the data necessary to perform such an analysis is simply not available. Hence, I used the approach described in the AWWA M1 Manual. The AWWA M1 Manual is the authoritative guide to setting water utility rates, and neither Mr. Kalcic nor Ms. Heppenstall would likely disagree with that characterization. As such, I do not believe that the approach discussed in the AWWA M1 Manual to determining customers demand factors can be dismissed as invalid.

Finally, as previously demonstrated in responding to Mr. Heppenstall, the maximum day and maximum hour factors utilized by York indicate that the demands of Commercial and Industrial customers would be negative when Residential customers experience their maximum day and maximum hour demands. This is simply impossible and confirms the unreasonableness of the Company's demand factors.

1	Q.	HOW WOULD THE RESULTS OF YOUR COSS CHANGE
2		SIGNIFICANTLY IF THE COMPANY'S SYSTEM-WIDE DEMAND
3		FACTORS AND YOUR CLASS DEMAND FACTORS WERE
4		REFLECTED IN THAT STUDY IN THE EVENT THAT THE
5		COMMISSION WERE ONLY TO ADOPT YOUR CLASS DEMAND
5		FACTORS?

Table 1SR presented below provides a comparison of the results of the COSS presented in my Direct Testimony which modified both system-wide and class maximum day and maximum hour demand factors utilized by York, and the result of adjusting the Company's COSS only to reflect my recommended class demand factors. This comparison is presented exclusive of the wastewater subsidy allocation to water customers. As shown in Table 1SR, maintaining the Company's systemwide demand factors would not significantly change the results of the initial COSS presented in my direct testimony. Schedule JDM-2SR presents a more detailed summary of the results of a COSS which only adjusts the Company's class demand factors. Scheduled JDM-2SR includes an allocation of my recommended wastewater subsidy to water customers, and is directly comparable to the COSS presented as Schedule JDM-2 in my direct testimony.

Table 1SR. Comparison of OCA COSS Results						
	Water Cost of Service Study Results					
Class	Direct ^[1]	Surrebuttal ^[2]	Difference	Percent		
Residential	\$42,819,383	43,070,285	\$250,903	0.6%		
Commercial	\$15,325,308	15,350.405	\$25,097	0.2%		
Industrial	\$6,053,924	6,011,541	(\$42,384)	-0.7%		
Private Fire	\$2,735,857	2,597,596	(\$138,261)	-5.1%		
Public Fire	\$1,745,44	1,653,008	(\$92,434)	-5.3%		
Total:	\$68,679,914	\$68,682,834	\$2,920	0.0%		
[] A divers Company's system wide and class demand factors						

^[1] Adjusts Company's system-wide and class demand factors.

A.

^[2] Adjusts only Company's class demand factors

1	Q.	MR. KALCIC RECOMMENDS THAT THE WASTEWATER SUBSIDY BE
2		ALLOCATED TO WATER CUSTOMERS BASED ON WASTEWATER
3		CLASS CONTRIBUTIONS TO THE SUBSIDY. 15 DO YOU AGREE WITH
4		THIS RECOMMENDATION?
5	A.	No. Ms. Heppenstall has presented a similar recommendation. As previously explained
6		in responding to Ms. Heppenstall, allocating the wastewater subsidy based on
7		wastewater class contributions to the study might have merit if a significant percentage
8		of York's wastewater customers were also water customers. However, they are not.
9		York serves approximately 73,000 water and wastewater customers. Of the 73,000
10		customers, approximately 5,000 of those customers are also wastewater customers.
11		There is no basis to assign the unrecovered wastewater costs of a particular class to the
12		water customers in that same class that do not receive wastewater service from York
13		and pay another provider for wastewater service. Therefore, the wastewater subsidy
14		should be allocated to each water customer class based on each class's indicated water
15		cost of service.
16	Q.	MR. KALCIC CLAIMS THAT YOUR PROPOSED NON-RESIDENTIAL
17		WASTEWATER RATE INCREASE OF 84.8% VIOLATES THE
18		PRINCIPLE OF GRADUALISM. WHAT IS YOUR RESPONSE?
19	A.	I have proposed reducing the wastewater subsidy that is assigned to water customers
20		by \$625,000, while Mr. Kalcic has proposed reducing the subsidy by \$1 million. 16
21		Based on the Company's proposed wastewater revenue requirement, under my
22		proposed assignment of the wastewater subsidy to water customers, the system average
23		increase for wastewater customers would be 50.4%, and under Mr. Kalcic's

¹⁵ <u>Id</u>., page 11, lines 9-11. ¹⁶ OSBA Statement No. 1, page 18, lines 17-20.

recommendation, the system average increase would be 58.3%.¹⁷ Mr. Kalcic has proposed a wastewater rate increase of 58.4% for each customer class served by York.¹⁸ As explained in greater detail in my rebuttal testimony, it is unreasonable to assign the Residential and Non-Residential wastewater classes the same percentage increase because the Non-Residential class is contributing revenue only equal to 33% of the indicated cost of service, while the Residential class is contributing revenues equal to 54% of the indicated cost of service. As such, the Non-Residential class should receive an increase which is greater than the increase assigned to the Residential class in order to provide additional movement toward the indicated cost of service.

Witnesses for the OSBA have frequently testified that a common rule of thumb for rate gradualism is to limit the increase for any particular rate class to no more than 1.5 to 2.0 times the system average increase. ¹⁹ Mr. Kalcic has proposed a system average wastewater rate increase of 58.3%. My proposed increase for the Non-Residential class is 84.8%, which is 1.45 times the system average increase. Therefore, my recommended wastewater rate increase for the Non-Residential class is slightly lower than an increase that complies with the OSBA's concept of gradualism.

DOES THIS CONCLUDE YOUR SURREBUTTAL TESTIMONY?

A. Yes, it does; however, I reserve the right to update this testimony as may be necessary.

¹⁷ <u>Id</u>.

¹⁸ Id

¹⁹ See, for example, OSBA Statement No. 1, Pittsburgh Water and Sewer Authority, Docket Nos. R-202-3024773, R-202-302744, R-2021-3024779, page 19, lines 16-21- page 20, lines 1-16; OSBA Statement No. 1, PECO Energy Company-Electric Division, Docket No. R-2021-3024601, page 11, lines 8-22, page 12, lines 1-2; OSBA Statement No. 1, Columbia Gas of Pennsylvania, Inc., Docket No. R-2020-3031211, page 27, lines 1-10.

OCA STATEMENT 4SR

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY	
COMMISSION	
) DOCKET NOS. R-2022-3031340 (WATER)
V.) R-2022-3032806 (WASTEWATER)
THE YORK WATER COMPANY)

SCHEDULES ACCOMPANYING THE SURREBUTTAL TESTIMONY OF JEROME D. MIERZWA

ON BEHALF OF THE PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

SEPTEMBER 28, 2022

EXETER

THE YORK WATER COMPANY

Comparison of Company Class Demand Factor Usage and Maximum Usage Hundred Gallons

1 2 3	Class (A) Residential Commercial Industrial	Average Daily Usage (B) 81,522 53,075 25,165	Loss Adjustment (C) 21.22% 21.22% 21.22%	Average Daily Sendout (D)=(B/(1-C)) 103,483 67,374 31,944	Maximum Day Factor (E) 2.50 1.60 1.50	Projected Maximum Day Usage (F)=(D x E) 258,708 107,798 47,917
4	Total	159,762	21.22%	202,801		414,423
5	Actual Maximum Day	/ Sendout - Total Syste	em (a)			255,000
6	Actual Maximum Day	Sendout - Non-Resid	ential Customers (C	olumn F, Line 5 - 1)	(3,708)
Line	Class (A)	Average Daily Usage (B)	Loss Adjustment (C)	Average Daily Sendout (D)=(B/(1-C))	Maximum Hour Factor (E)	Projected Maximum Hour Usage (F)=(D x E)
7	Residential	81,522	21.22%	103,483	4.50	465,675
8	Commercial	53,075	21.22%	67,374	3.30	222,333
9	Industrial	25,165	21.22%	31,944	2.70	86,250
10	Total	159,762	21.22%	202,801		774,258
11	Actual Maximum Ho	ur Sendout - Total Sys	tem (a)			319,000
12	Actual Maximum Ho	ur Sendout - Non-Resi	dential Customers	Column F, Line 11	- 7)	(146,675)

13

Note: (a) Exhibit No. FVIII, Schedule F, 2021.

THE YORK WATER COMPANY WATER OPERATIONS DEVELOPMENT OF RATE OF RETURN BY CUSTOMER CLASSIFICATION UNDER PROPOSED RATES

		Gravity System		Repumping System							
	Cost of					rotection					otection
Item	Service	Residental	Commercial	Industrial	Private	Public	Residental	Commercial	Industrial	Private	Public
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Revenues From Sales Other Revenues	\$70,728,799 1,142,025	\$13,117,219 195,971	\$ 5,189,002 83,254	\$1,278,470 20,671	\$ 942,431 15,189	\$ 323,794 21,584	\$32,284,678 456,011	\$ 9,856,824 156,343	\$ 4,672,696 76,744	\$1,734,508 27,980	\$1,329,176 88,393
3. Total Operating Revenues	71,870,824	13,313,191	5,272,256	1,299,141	957,620	345,378	32,740,689	10,013,167	4,749,441	1,762,488	1,417,569
4. Less: Operating Expenses	40,280,974	8,498,295	3,225,677	759,942	461,696	(476,002)	20,699,207	5,785,064	2,540,901	760,975	(1,975,149)
5. Return And Income Taxes (Ln 3 - Ln 4)	31,589,850	4,814,896	2,046,579	539,199	495,924	821,381	12,041,482	4,228,104	2,208,540	1,001,513	3,392,718
6. Less: Taxable Exclusions (Factor 24)	6,200,718	887,323	448,932	116,573	97,351	161,219	2,221,717	934,448	470,634	196,563	665,957
7. Taxable Income	25,389,132	3,927,573	1,597,647	422,626	398,573	660,162	9,819,764	3,293,656	1,737,905	804,950	2,726,761
8. Less: Income Taxes (Tax. Inc.)	3,769,035	583,051	237,172	62,739	59,168	98,002	1,457,751	488,946	257,993	119,495	404,790
9. Net Return (Line 5 - Line 8)	27,820,815	4,231,845	1,809,407	476,460	436,756	723,379	10,583,731	3,739,158	1,950,547	882,018	2,987,928
10. Original Cost Measure Of Value	350,621,588	50,173,107	25,373,854	6,575,050	5,501,538	9,119,577	125,619,819	52,849,741	26,605,146	11,120,925	37,673,257
11. Rate Of Return, Percent	7.93	8.43	7.13	7.25	7.94	7.93	8.43	7.08	7.33	7.93	7.93
12. Relative Rate Of Return	1.00	1.06	0.90	0.91	1.00	1.00	1.06	0.89	0.92	1.00	1.00

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

: Docket Nos. R-2022-3031340 (Water)

v. :

 $R-2022-3032806 \; (Wastewater)$

:

The York Water Company

VERIFICATION

I, Jerome D. Mierzwa, hereby state that the facts set forth in my Surrebuttal Testimony, OCA Statement 4SR, are true and correct (or are true and correct to the best of my knowledge, information, and belief) and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: September 28, 2022

*335893

Signature

Ierome D. Mierzwa

Consultant Address: Exeter Associates, Inc.

10480 Little Patuxent Parkway

Suite 300

Columbia, MD 21044-3575

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

: Docket Nos. R-2022-3031340 (Water)

v. : R-2022-3032806 (WW)

:

The York Water Company

SURREBUTTAL TESTIMONY

OF

BARBARA R. ALEXANDER

Barbara Alexander Consulting LLC

ON BEHALF OF THE

OFFICE OF CONSUMER ADVOCATE

September 28, 2022

1	Q.	PLEASE STATE YOUR NAME, ADDRESS AND OCCUPATION.

- 2 A. My name is Barbara R. Alexander. I am the sole member of Barbara Alexander
- 3 Consulting LLC. My address is 83 Wedgewood Dr., Winthrop, ME 04364. I appear in
- 4 this case as a witness on behalf of the Office of Consumer Advocate (OCA).
- 5 Q. HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS PROCEEDING?
- 6 A. Yes. I filed Direct Testimony on behalf of the OCA on August 23, 2022.
- 7 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?
- 8 A. I am filing Surrebuttal in response to the Rebuttal Testimony filed by the following York
- 9 Water Company witnesses: Joseph Hand (York Statement No. 1-R), Mark A. Wheeler
- 10 (York Statement No. 2-R), and Vernon L. Bracey (York Statement No. 6-R).
- 11 Q. PLEASE PROVIDE AN OVERVIEW OF YOUR RESPONSE TO THE COMPANY'S
- 12 REBUTTAL TESTIMONY CONCERNING CUSTOMER SERVICE
- 13 PERFORMANCE.
- 14 A. The Company's Rebuttal Testimony repeats the claim of "exemplary performance," and
- responds to all the shortcomings I identified in my testimony as either not a correct
- 16 conclusion, unrelated to the decision to award an earnings reward, or explained as a
- 17 reform that will be implemented prior to the next base rate case. In general, a claim of
- 18 "exemplary performance," should be documented as occurring during the test year and
- not based on a future promise to correct deficiencies. And the claim of exemplary
- 20 customer service without any internal performance standards or any analysis of how York
- Water's performance relates to other Pennsylvania public utilities is unsupported and
- should be rejected. Furthermore, other claims by York Water relating to its "exemplary"
- performance raised by Mr. Hand in his Rebuttal will be addressed by Counsel in OCA's

- 1 briefs.
- 2 Q. DOES THE COMPANY RECOMMEND FUTURE IMPROVEMENTS IN RESPONSE
- TO YOUR TESTIMONY?
- 4 A. Yes. I welcome the Company's statements that York Water will adopt the following
- 5 improvements:
- 6 Development of written training materials that reflect the essential consumer
- 7 protections of Chapter 56 of the Commission's rules on the customer's rights in the
- 8 negotiation of payment arrangements; protections for customers with Protection from
- Abuse Orders; the rights of tenants when a landlord or property owner fails to pay a
- bill; customer rights upon declaration of a medical emergency; and identifying and
- 11 recording customer disputes;¹
- Documentation on how training is done and how ongoing compliance is monitored;²
- The development of a means to track the existence of and response to customer
- disputes as required by Chapter 56.432;³
- The analysis of potential costs and benefits for a low income discount program,
- including information on the demographics of its customer base.⁴

³ Ibid., page 19.

¹ York Water Statement No. 6-R, pages 13-15.

² Ibid., page 15.

⁴ York Water Statement No. 2-R.

1	Q.	MR. BRACEY ON BEHALF OF YORK WATER REJECTS YOUR CALL CENTER
2		PERFORMANCE RECOMMENDATIONS BECAUSE OF YOUR COMPARISON OF
3		YORK WATER'S PERFORMANCE WITH LARGER ELECTRIC AND GAS PUBLIC
4		UTILITIES. PLEASE COMMENT.
5	A.	The only published call center performance data available for Pennsylvania public
6		utilities is contained within the Commission's annual customer service reports that I cited
7		in my Direct Testimony. It is correct that smaller public utilities are not required to
8		report such information. However, Mr. Bracey's excuse for not meeting the average
9		performance standards reflected in these annual reports is not reasonable. First, he uses
10		these same reports to compare York Water's complaints submitted to BCS with other
11		Pennsylvania public utilities and relies on this comparison to justify their additional
12		earnings reward. ⁵ Second, the suggestion that smaller public utilities should not be held
13		to any reasonable call center performance standards that are widely viewed as a best
14		practice in many industries is not a hallmark of "exemplary" performance. Mr. Bracey
15		offers no internal York Water benchmark to define his notion of reasonable performance
16		and does not provide any information on any other smaller public utilities that would
17		support his claim.
18	Q.	MR. BRACEY CONTINUES TO ARGUE THAT ITS ASSUMPTION OF BILLING
19		SERVICES FOR THE CITY OF YORK IS THE SOURCE OF THE LESS THAN
20		OPTIMAL PERFORMANCE AT THE CALL CENTER. PLEASE RESPOND.

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A. According to Mr. Bracey, the customer confusion and questions about the inclusion of the City of York wastewater and refuse service charges on bills issued by York Water was a significant cause of the deterioration in performance at the call center. He also

⁵ Mr. Bracey repeats this basis for their exemplary performance in his York Water Statement No. 6-R, page 4.

1		states that performance has improved in recent months because Pennsylvania American
2		Water Co. has agreed to bill and collect the City of York's wastewater charges. ⁶ And,
3		while he opines that call center performance will continue to improve, he offers no
4		specific performance goal or objective.
5	Q.	WHAT IS YOUR OPINION ABOUT THE MOST RECENT CALL CENTER
6		PERFORMANCE THAT MR. BRACEY INCLUDES IN HIS REBUTTAL?
7	A.	Mr. Bracey's "improvement" is only supported when considering the even worse
8		performance in 2021 and early 2022. The current "improved" performance that he
9		claims, while better than 2021 and earlier this year, is nevertheless a very unsatisfactory
10		level of performance. In July 2022, only 34% of York Water's customer calls were
11		answered by a representative within 30 seconds, the abandonment rate was over 10%,
12		and 30.35% of the calls were answered in MORE THAN 241 seconds (over 4 minutes).
13		While Mr. Bracey states further improvement is likely to occur, this vague promise
14		without any goal or objective to determine when or how such improvement will occur is
15		not a significant basis for giving York Water's shareholders additional profit at the
16		expense of ratepayers. As documented in my Direct testimony, York Water's call center
17		performance in 2020 was far better than any annual or monthly performance since that
18		time. Yet, Mr. Bracey's Rebuttal Testimony fails to identify any specific level of
19		improvement or timetable during which significant improvement will occur.8
20		However, in subsequent responses to OCA Set XIV-2 he states, "In general, Mr.
21		Bracey maintains that the Company's call center performance prior to 2020 was, at a
22		minimum, acceptable performance for a water and wastewater utility of York Water's

York Water St. No. 6-R, page 6.
 York Water Exhibit VLB-2R.
 York Water Statement No. 6-R, page 9.

1	size." Mr. Bracey then points out that York Water's measurement of call center
2	performance has changed over the years. 9 The 2019 annual performance reported a 1:18
3	minutes as "time to answer," a 6.63% abandonment rate, and 61.62% calls answered
4	within 24 seconds. The 2020 results were reported slightly differently:

Year	Percent Calls	Abandonment	Average Speed
	Answered in 30	Rate	of Answer
	Seconds		(minutes)
2020	66.83%	4.94%	1:03

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Q. WHAT DO YOU RECOMMEND THAT YORK WATER SHOULD BE REQUIRED

TO MEET FOR CALL CENTER PERFORMANCE?

9 A. I think Mr. Bracey's recommendation that York Water be held to meet its 2019

10 performance standards is reasonable. However, the reported 2020 performance standards

11 capture data that is similar to 2019 and reflect the current methodology. Therefore, I

12 recommend that York Water be required to improve its call center performance with the

13 objective to meet the 2020 annual results. Both 2019 and 2020 results are far superior to

14 York Water's call center performance as reflected in the test year of this proceeding.

Q. MR. BRACEY STATES IN A RECENT DATA RESPONSE THAT HE IS NOT RESPONSIBLE FOR CALCULATING THE COSTS TO ACHIEVE A HIGHER LEVEL OF CALL CENTER PERFORMANCE. PLEASE COMMENT.

18 A. Mr. Bracey states,

19 20

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"It is not within Mr. Bracey's job responsibilities to perform an analysis of the incremental capital costs and expenses that the Company would incur to meet an undefined "higher standard of performance at the customer call center." ¹⁰

22 23

⁹ York Water Response to OCA-III-10 presented its call center performance data for 2018 through May 2022. I presented the 2020-2022 data in my Direct Testimony.

¹⁰ York Water Response to OCA-XIV-4.

1		I find this response troubling. While Mr. Bracey (Vice President of Customer Service)
2		now acknowledges that the York Water call center performance should be improved and
3		that a proper source of adequate performance is the actual performance of York Water's
4		call center in 2019 and 2020, he does not claim any responsibility for undertaking an
5		analysis of how to achieve these results. This is not a reasonable response of a public
6		utility that seeks a reward for "exemplary" management performance.
7	Q.	MR. BRACEY EXPLAINS THE HISTORY OF YORK WATER'S BILLING AND
8		COLLECTION OF THE CITY OF YORK WASTEWATER AND REFUSE
9		SERVICES. PLEASE COMMENT.
10	A.	Mr. Bracey documents that a "Chapter 507" contract was submitted to the Commission
11		that describes York Water's agreement to bill and collect the City of York's wastewater
12		and refuse services. 11 This agreement was updated several times, most recently in 2019.
13		Mr. Bracey points to the collection of past due and current charges on behalf of the City
14		of York as causing customer confusion and contributed to the volume of calls to York
15		Water. York Water is no longer collecting the City of York wastewater charges.
16		However, York Water is still collecting the City of York's refuse charges. 12 I have a
17		number of serious concerns with York Water's ongoing collection of the City of York

refuse charges. These "refuse charges" are the costs of the City of York's trash collection

City of York refuse customers can also be set up on automatic payments through our TAP program, which will use banking details to process the amount due on the due dates."

[www.yorkwater.com Site visited 9/19/2022]

¹¹ York Water Exhibit VLB-3R.

¹² York Water's website states: "Effective August 17, 2022, City of York refuse customers are able to pay their refuse bills online or over the phone via credit, debit, or electronic check. We appreciate your patience.

service. These are not charges for "basic" service. They are "non-utility" or "non-basic" charges as that term is used in Chapter 56.263.

- First, Mr. Bracey does not state the York Water has or will seek to amend its

 Chapter 507 contract to eliminate wastewater services and include only the refuse

 charges. It is my understanding that a contract to approve of a regulated Pennsylvania

 public utility to collect non-basic charges on behalf of a municipal entity is not a typical

 Chapter 507 contract. Nonetheless, the current contract on file with the Commission that

 focuses on collecting City of York wastewater services and the description on how those

 charges will be collected under threat of disconnection of York Water's charges for water

 service should be amended.
- Second, the current contract that was in effect when York Water was collecting and threatening termination of service for nonpayment of the City of York's wastewater charges calls for payments to be allocated to York Water's water services, City of York refuse services, and then City of York wastewater or sewer charges. This policy would appear to allow a partial payment to be allocated to refuse service, a service that York Water agrees is not subject to termination by York Water, prior to payments for wastewater service that can be terminated pursuant to the contract. The priority of collecting refuse service charges prior to collecting wastewater or sewer charges bills that were the basis for threats of termination of service on behalf of the City of York is not reasonable because it could lead to the loss of water service due to unpaid sewer bills strictly due to the decision to prioritize payment towards refuse charges that cannot result in a loss of water service. In addition, this payment prioritization would certainly would not comply with the comparable Chapter 56.273 provision, which is at least impliedly

¹³ York Water Exhibit VLB-3R, page 6 of 21.

1	applicable given the contract provisions between York Water and the City of York. The
2	Contract at issue here explicitly calls for York Water to comply with "Commission
3	regulations."
4	Notwithstanding the provision of the Agreement, it is understood and agreed by
5	the parties hereto that the Water Company shall be required to comply with any
6	existing regulations of the Pennsylvania Public Utility Commission relating to the
7	notice before the termination, in addition to providing any notice that might
8	otherwise be required under this contract or any applicable law or ordinance.
9	Section 9. ¹⁴
10	Mr. Bracey's most recent response relating to billing and collecting for City of
11	York wastewater and refuse charges now states that this and other provisions of Chapter
12	56 are not applicable to York Water's billing services:
13	First, the City of York's charges were not set forth on York Water's bills. They
	were set forth on City of York bills prepared and issued by York Water. Second,
14 15	I am advised by counsel that the City of York's unbilled wastewater and refuse
16	charges were not "unbilled public utility service" charges because the City of
17	York was not and is not a regulated public utility; therefore, York Water did not
18	have to comply with Section 56.264 of the PUC's regulations with respect to the
19	City of York's bills for wastewater and refuse service. Thus, no such training, for
20	the City of York's unbilled wastewater and refuse charges, was provided or
21	necessary. 15
22	
23	As explained in OCA Set XIV, No. 13, the City of York's wastewater and refuse
24 25	charges were set forth on City of York bills prepared and issued by York Water.
	Those charges were not set forth on York Water's water service bills. As a result,
26	York Water's water service bills never included the City of York's wastewater
27 28	and refuse charges, and, by extension, a customer could never make partial
28	payments that required allocation under Section 56.273 of the PUC's
29	regulations. ¹⁶
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31	These statements are contradicted by the language of the contract between the
32	City of York and York Water that requires that York Water comply with the
33	Commission's regulations that I quoted above.

¹⁴ York Water Statement No. 6-R, Exhibit VLB-5R, page 6 of 13.
15 York Water Response to OCA-XIV-13.
16 York Water Response to OCA-XIV-14.

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¹⁷ York Water Statement No. 6-R, page 23.

¹⁸ York Water Exhibit VLB-7R.

Furthermore, the customer bill attached to Mr. Bracey's Rebuttal Testimony (Exhibit VLB-7R) states "YORK WATER COMPANY, Billing and Collection Agent for the City of York." And requires the customer to make payment to York Water Company.

York Water's policies governing the collection of any non-utility charge such as

this must be clearly enunciated to customers. The failure to pay these refuse charges

should not be subjected to any suggestion or communication that the customer's ability to

pay and continue to receive regulated York Water service will suffer due to the

nonpayment of the City of York refuse charges. Notices and disclosures to customers on

the York Water web portal, in communications with customers, and in billing and

collection notices must be clear on this point.

Mr. Bracey states that York Water termination notices did not include unpaid

refuse charges billed on behalf of the City of York.¹⁷ This policy is a correct statement of

Commission regulations. However, the lack of any instructions or training of York

Water's customer service representatives on how unpaid City of York refuse charges

should be handled in customer communications and the lack of any disclosure on the

York Water billing statement ¹⁸ or its web portal about the different treatment of refuse

charges raises a serious concern. The lack of any written instructions that govern how

customer call center representatives have handled customer calls about these City of York

charges, the lack of disclosures about the non-utility portion of the bill on the York Water

billing statement, and the provision of the Chapter 507 contract I quoted above

concerning allocation of partial payments contribute to a potential that the access to

1	continued service of York Water's customers to regulated water service has been
2	compromised.

- Q. TURNING TO MR. BRACEY'S REBUTTAL TESTIMONY CONCERNING THE
 SIGNIFICANT DISCREPENCY BETWEEN THE ISSUANCE OF TERMINATION
 NOTICES AND THE ACTUAL TERMINATION OF SERVICE, PLEASE
- 6 COMMENT.

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A. Mr. Bracey defends the significant discrepancy between the volume of termination notices and the actual terminations of service that I documented in my Direct testimony as a non-issue. He states that the City of York made the decision not to pursue termination and points to the typical distinction between termination notices and actual terminations in various Commission reports (which he does not specifically identify). ¹⁹ I do not accept the excuse that York Water continued to issue thousands of termination notices for York Water customers based on the nonpayment of the City of York wastewater charges on a monthly basis when it became obvious that the City of York then declined to pursue the actual termination of service. York Water continued to threaten termination of service for nonpayment of York Water and City of York charges knowing that the City of York's billing system was deficient, and that actual termination would not occur in the vast majority of situations. While he opines on the theoretical reasons why York Water customers could have properly avoided termination, he has no evidentiary basis for this assumption due to York Water's lack of data on how its customers avoid termination of service or whether informal disputes were filed since York Water cannot track disputes in its current software and billing system.

¹⁹ York Water Statement No. 6-R, page 24.

	(O.	MR. BRACEY AND MR	. WHEELER REJECT	YOUR PROPOSAL	FOR YORK
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2 WATER TO DEVELOP A MONTHLY BILL PAYMENT DISCOUNT FOR LOW

3 INCOME CUSTOMERS AT THIS TIME. DO YOU AGREE?

4 No. However, I do note that York Water has agreed to promote its arrears forgiveness A. 5 program and other federally funded bill payment assistance programs on its web portal. 6 He also stated that York Water does accept enrollment information for CARES directly 7 from customers and then forwards this information electronically to the local service 8 agency authorized to make a determination of eligibility and dollar amount. These are 9 welcome developments. York Water has not responded to my recommendation with any 10 analysis of the costs and benefits for such a program. However, Mr. Wheeler agrees that it would be possible to evaluate the development of a bill discount program if it does not 12 "unduly" harm other customers, presumably referring to the rate impacts of funding such a program.²⁰ I appreciate the willingness of York Water to conduct research on potential 13 14 enrollment and costs and urge that such an analysis and report be accomplished in the 15 near term (such as 6 months after a final order in this proceeding) since waiting until 16 York Water files a future rate case may reflect a long term delay.

Q. PLEASE COMMENT ON YORK WATER'S PARTICIPATION IN THE CURRENT LOW INCOME ASSISTANCE PROGRAMS.

Q. Mr. Wheeler describes the various federally funded programs available to York Water customers and agrees to participate in those programs and accept funding for its qualified low income customers. These programs now include Pennsylvania Homeowner Assistance Fund Program. However, both York Water's CARES program and all of these newly funded programs provide a one-time benefit and most of these federally

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²⁰ York Statement No. 2-R, page 4, lines 16-17.

	funded programs will terminate in the near term because they depend on one-time federal
	appropriations and are not assured of regular funding. As a result, none of these
	programs provide monthly bill payment assistance or respond to the ongoing
	unaffordability of essential utility services provided by York Water to customers whose
	household income is insufficient to avoid nonpayment or late payment. Therefore, York
	Water's agreement to fund its CARES program that provides a one-time annual benefit
	and accept one-time federal funding on behalf of its qualified low income customers is
	laudable, but certainly not a sufficient response to ongoing payment difficulties. The fact
	that its CARES funding commitment of \$20,000 resulted in customers being denied a
	benefit (as documented in my Direct Testimony) when the prior level of committed
	funding was exhausted is a significant indicator of unmet needs.
Q.	DOES MR. WHEELER PROVIDE SOME PRELMINARY EVIDENCE
	CONCERNING THE NEED FOR ONGOING BILL PAYMENT ASSISTANCE FOR
	LOW INCOME CUSTOMERS?
A.	Yes. Mr. Wheeler cited to certain demographic information readily available from the
	U.S. Census in his Rebuttal Testimony to state that 27.7% of the residents of the City of
	York live in poverty and York County – 7.1% of residents living in poverty; (2) Adams
	County – 8.0% of residents living in poverty; and (3), and Franklin County – 9.4% of
	residents living in poverty. ²¹ This type of readily available information plus the number
	of its customers who have or will receive assistance via CARES and the federally funded

programs for which York Water receives funding should provide a sufficient basis for

preliminary estimates of the enrollment and costs for a discount program in a relatively

²¹ Ibid., pages 3-4.

short time frame.

1	Q.	TURNING TO MR. WHEELER'S REJECTION OF YOUR RECOMMENDATION TO
2		INCLUDE ESSENTIAL CHAPTER 56 CONSUMER PROTECTIONS IN ITS
3		TARIFFS, PLEASE RESPOND.
4	A.	Mr. Wheeler rejects my recommendation to include essential Chapter 56 consumer
5		protections in its tariffs on the grounds that Chapter 56 is incorporated by reference and
6		that it would be unwieldy to constantly update the tariffs if Chapter 56 changes. ²²
7		Neither of these reasons are sufficient. First, York Water's current tariffs include
8		statements on consumer rights that fail to recognize the Chapter 56 requirements as I
9		documented in my Direct testimony. The potential for misinterpretation by customers
10		and employees in these areas should be avoided if possible. I identified other
11		Pennsylvania water and wastewater utility tariffs as proper examples. Second, tariffs can
12		be routinely updated where necessary during base rate cases since rates and other tariff
13		language change at that time. The combination of the lack of proper language in the
14		current tariffs with the lack of written training materials on many of these essential
15		consumer protections relating to termination of service, payment arrangements, medical
16		certificates, and disputes heighten my concern and support my recommendation.
17	Q.	BASED ON YOUR REVIEW AND RESPONSE TO THE COMPANY'S REBUTTAL
18		TESTIMONY, DO YOU HAVE ANY CHANGES OR MODIFICATIONS TO YOUR
19		RECOMMENDED CONDITIONS FOR ANY BASE RATE INCREASE?
20	A.	Yes. I present my original recommendations below with my amendments and additions
21		based on York Water's Rebuttal:
22		• York Water should be required to take steps to improve the monthly performance of

its call center. Specific performance standards should be implemented, which include

²² York Water Statement No. 2-R, pages 9-10.

1	objectives for Average Speed of Answer and Abandonment Rate that are designed to
2	achieve (over a reasonable number of years) that 80% of the customer calls that enter
3	the queue to speak to a customer service representative to be answered within 30
4	seconds and that the call abandonment rate be 4% or less. The Commission should
5	mandate significant progress in quarterly reports from York Water as a condition of
6	any rate increase.
7	RESPONSE: At a minimum York Water should be held accountable to meet its 2020 customer
8	call center performance. The actual performance experienced in 2021 and 2022 to date should
9	be considered in determining whether York Water's customer service has been "exemplary."
10	 York Water should take steps to identify, track, evaluate, and respond to customer
11	disputes and complaints. The training materials are seriously deficient in identifying
12	and responding to customer disputes and complaints. I recommend that York Water
13	be required to submit a plan that adopts explicit training for identification, tracking,
14	monitoring, and evaluating customer complaints. This complaint analysis should also
15	include the payment arrangement disputes that are an essential component of
16	adequate and reasonable service, particularly in light of my discussion of York
17	Water's inadequate internal payment arrangement training and policies. The
18	Commission should require quarterly reports that document improved complaint
19	handling and analysis as a condition of any rate increase.
20	RESPONSE: York Water has agreed to develop a tracking mechanism for customer disputes.
21	This reform should be documented in a compliance filing within six months of a final order in

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this proceeding.

1	to payment arrangement negotiations with customers to undertake a more
2	individualized approach based on the customer's circumstances and needs. This
3	reform should be undertaken immediately and documented in a compliance filing as a
4	condition of any rate increase.
5	RESPONSE: As part of its commitment to develop more detailed training materials for its
6	customer call center and other staff, York Water should make explicit its commitment to
7	developing payment arrangements based on the customer's individual circumstances.
8	 York Water should be required to create and implement internal training programs
9	relating to Landlord/Tenant rights, obligations and policies governing Protection from
10	Abuse Orders, and the policies that will be implemented when personal contact is
11	initiated immediately prior to termination of service. In addition, the training regime
12	itself needs reform to document how training is conducted and how ongoing
13	compliance is audited.
14	RESPONSE: York Water has agreed to develop more detailed training materials on Chapter 56
15	and Act 14 policies and consumer protections as well as adopt a mechanism for oversight and
16	compliance monitoring. This commitment should be completed within six months of a final
17	order in this proceeding.
18	 In light of my findings concerning the poor performance of the call center, the lack of
19	uniform and complete training of customer representatives on Pennsylvania rights and
20	remedies, and the lack of connection between complaint analysis and changes to
21	address underlying root causes, I recommend that the Commission undertake an audit
22	of York Water's customer service operations. The Commission should establish a

timetable for this audit as a condition of any rate increase.

- 1 RESPONSE: In light of the commitments by York Water concerning training programs,
- 2 oversight, and dispute tracking, I withdraw this recommendation.

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- York Water should implement a low income discount program similar to that implemented by Community Utilities of Pennsylvania. Such a program would provide a modest discount on the consumption charge for eligible low income customers, most of whom could be enrolled based on their participation in existing means-tested social welfare programs. The CARES program should continue at a proposed budget of \$40,000. York Water should document its participation in the various programs funded through the American Rescue Plan Act and publicize the available of funding to help pay for overdue water and sewer bills in order to obtain 10 the maximum funding to assist its low income customers and avoid unnecessary bad debt expense paid by all ratepayers.
 - RESPONSE: York Water agrees to develop research and recommendations for a potential bill discount program based on an analysis of the demographics of its customer base and the costs of such a program. However, rather than delay such analysis until the next base rate case, I recommend that York Water report the results of its analysis and make a recommendation for a monthly discount program with cost recovery mechanism within six months of the final order in this case.
 - York Water's water and wastewater tariffs should be amended to include the essential consumer protections set forth in Chapter 56, similar to, for example, the tariff provisions of Pennsylvania American Water Co.
- 22 RESPONSE: This recommendation should be implemented.
 - I propose that while the rates established in this proceeding are in effect, York

1	Water submit quarterly reports to the Commission and the parties that include the
2	progress in meeting my proposed commitments. At a minimum, the Commission
3	should open an investigation of persistent failure to meet reasonable performance
4	standards.
5	RESPONSE: Based on the Company's commitments to develop training materials, compliance
6	auditing, and dispute and complaint tracking, I withdraw this recommendation
7	• I recommend that this policy (referring to the billing for the City of York), which
8	is no longer in effect, be separately investigated by the Commission to determine
9	the appropriate enforcement action, if any, that is necessary.
10	RESPONSE: In light of the termination of the billing for City of York wastewater service by
11	York Water, I recommend that York Water seek an amendment to its contract to collect the City
12	of York's refuse charges with the Commission and that such an agreement reflect an obligation
13	by York Water to disclose the refuse charges as non-basic charges on its bills and web portal that
14	will not threaten a customer's access or maintenance of York Water regulated services and
15	document an allocation of partial payment policy in York Water's billing system.
16	
17	Q. DOES THIS COMPLETE YOUR SURREBUTTAL TESTIMONY AT THIS TIME?
18	A. Yes.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

v.

: Docket Nos. R-2022-3031340 (Water)

R-2022-3032806 (Wastewater)

The York Water Company

VERIFICATION

I, Barbara R. Alexander, hereby state that the facts set forth in my Surrebuttal Testimony,

OCA Statement 5SR, are true and correct (or are true and correct to the best of my knowledge,

information, and belief) and that I expect to be able to prove the same at a hearing held in this

matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. §

4904 (relating to unsworn falsification to authorities).

DATED: September 28, 2022

*335894

Signature:

Consultant Address: Barbara Alexander Consulting, LLC

83 Wedgewood Drive Winthrop, Maine 04364

Bahna R. Murden

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY :

COMMISSION :

Docket No. R-2022-3031340

(WATER)

v. :

Docket No. R-2022-3032806

(WASTEWATER)

YORK WATER COMPANY

SURREBUTTAL TESTIMONY

OF

TERRY L. FOUGHT

ON BEHALF OF

PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

SEPTEMBER 28, 2022

Table of Contents

INTRODUCTION	. 1
ACQUISITION ADJUSTMENTS	. 1
LINE PRESSURES AND PRESSURE SURVEYS	. 4
FIRE HYDRANTS	. 6

INTRODUCTION

- 2 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS FOR THE RECORD.
- 3 A. Terry L. Fought, 780 Cardinal Drive, Harrisburg, Pennsylvania, 17111.

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- 5 Q. MR. FOUGHT, HAVE YOU ALREADY SUBMITTED TESTIMONY IN THIS
- 6 PROCEEDING ON BEHALF OF THE OFFICE OF CONSUMER ADVOCATE?
- 7 A. Yes. I submitted direct testimony.

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- 9 Q. WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?
- 10 A. The purpose of my surrebuttal testimony is to respond to portions of the rebuttal
 11 testimony by: (1) Joseph T. Hand, York Water Statement No. 1-R, regarding
 12 acquisition adjustments; (2) Mark A. Wheeler, York Water Statement No. 2-R
- regarding line pressures, pressure surveys and fire hydrants; and (3) Vernon L.
- Bracey, York Water Statement No. 6-R, regarding customer complaints.

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ACQUISITION ADJUSTMENTS

- 17 Q. WHAT IS THE COMPANY'S POSITION ON ACQUISTIONS?
- 18 A. Mr. Hand's rebuttal testimony regarding the Acquisitions is addressed by Ms.
- DeAngelo in OCA Statement 2SR. I am providing surrebuttal testimony on specific
- comments by Mr. Hand on Felton Borough Wastewater System.

Q. WHAT ARE THE SPECIFIC COMMENTS BY MR. HAND THAT YOU WANT TO 1 ADDRESS REGARDING THE FELTON BOROUGH WASTEWATER SYSTEM 2 POSITIVE ACQUISTION ADJUSTMENT? 3

- A. First the Company strongly disagrees with my position that a notice of violation 4 ("NOV") that included an effluent violation does not indicate Felton Borough was 5 providing inadequate service because it is not unusual for wastewater systems to 6 get an NOV that includes an effluent violation.1 7 Second, Mr. Hand stated that problems of inflow and infiltration ("I/I") in the 2018 8 Chapter 94 Report filed by the Borough should be considered since a subsequent 9
- report filed by the Company identified no hydraulic or organic overloads projected 10 for the next five years. York Water developed, funded, and executed the 11 Corrective Action Plan (CAP), which included inspecting and cleaning the 12 collection system, identifying potential sources of the I/I and scheduling the needed 13 remediation, and committing to ongoing review and remediation of I/I.2

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- Q. RECOMMEND THAT THE COMPANY'S YOU STILL **POSITIVE** ACQUISTION ADJUSTMENT REGARDING THE FELTON WASTEWATER SYSTEM DOES NOT MEET THE CRITERIA IN SECTION 1327(a)(3) OF THE CODE?
- 20 Α. Yes. First, regarding the NOV and one effluent violation, the Company did not indicate that the Borough continued to discharge effluent in violation of its permit; 21

¹ York Water Statement No. 1-R, pp. 3-4.

² York Water Statement No. 1-R, pp. 4-5.

but stated that the Borough would eventually do so in the future. It has been my experience in reviewing wastewater utilities correspondences with DEP (during many base rate cases) that DEP initiates Consent Order and Agreement (COA) to address any serious recurring effluent non-compliance issues. The Borough was not under a COA like the Letterkenny Township Municipal Authority System was. Second, York relies on the 2018 Chapter 94 Report filed by the Borough indicating that the treatment plant was hydraulically overloaded because of infiltration/inflow (I/I). A later Chapter 94 Report indicates that a defect in the housing of the flow meter ultrasonic transducer was the primary cause of continuous higher than permitted flows. Therefore, the 2018 Chapter 94 Report predicted an overloadedtreatment plant based on an inaccurate flow meter. A CAP is required when a Chapter 94 Report predicts that a wastewater facility will become hydraulically or organically overloaded during the following five years. The Company did not offer any evidence that a CAP would have been necessary if accurate flows were used in the 2018 Chapter 94 Report. See OCA Statement 6, Exhibit TLF-4. It can be noted from Exhibit TLF-4, the Company did not identify any obvious sources of I/I.

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Therefore, I still recommend that the positive acquisition adjustment does not meet the criteria in Section 1327(a)(3) of the Code.

LINE PRESSURES AND PRESSURE SURVEYS

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Mr. Wheeler stated in his rebuttal testimony that: (1) York Water addresses all water pressure complaints, whether they be low or high water pressure concerns; (2) York Water's policy on water pressure is more stringent than the Commission's requirements, as the Company works to ensure appropriate water pressure for all of York Water's customers; (3) as explained in Mr. Bracey's rebuttal testimony (York Water St. No. 6-R), the Company is updating its Oracle customer service database to log and track all customer disputes, including pressure complaints; (4) Mr. Bracey also states that a complaint log will be presented in York Water's next base rate case; and (5) Mr. Wheeler is unaware of any other pressure complaints from 2019 to present other than the two informal complaints filed with the Commission in 2020 which in both cases, the Commission's Bureau of Consumer Services found that the Company's line pressures were within the Commission's requirements and closed out the informal complaints.³

Α.

Q. IN FUTURE RATE BASE CASES, WILL THE SUBMISSION OF A CUSTOMER

COMPLAINT LOG THAT INCLUDES ALL CUSTOMER PRESSURE

COMPLAINTS BE CONSIDERED ACCEPTABLE TO OCA INSTEAD OF

PRESSURE SURVEYS?

21 A. Yes.

³ York Water Statement No. 2-R, pp. 10-11.

- Q. WHAT IS THE COMPANY'S POSITION REGARDING PROTECTING EXISTING
 CUSTOMERS' PROPERTY WHEN THEIR NORMAL OPERATING PRESSURES
 ARE INCREASED TO EXCEED 125 PSI IN ORDER TO SERVE NEW
 CUSTOMERS?
- Mr. Wheeler testified that York Water's policy is more stringent than the
 Commissions regulations because, among other reasons, if the existing static
 pressure at the curb is greater than 80 psi, York Water customers are informed
 and pressure reducing valves are recommended to be in place on their service
 lines.⁴
- Mr. Wheeler also testified that the Commission should reject my recommendations and follow the same approach as it did in in Aqua Pennsylvania, Inc.'s ("Aqua") 2022 base rate case.⁵

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- Q. DO YOU CONTINUE TO RECOMMEND THAT EXISTING CUSTOMERS BE PROTECTED WHEN THEIR PRESSURES ARE INCREASED TO OVER 125 PSI TO SERVE ADDITIONAL CUSTOMERS?
- 17 A. Yes. It can be noted from Mr. Wheeler's rebuttal testimony that the Company
 18 disagrees with protecting the existing customers because of some of my
 19 suggested methods to do so. I would note that the circumstances here appear to
 20 be different than in the Aqua case that Mr. Wheeler referred to. For example, in

⁴ In the case of an application for service to a new residential, commercial, or industrial property, York Water similarly informs applicants of the anticipated static pressure at the curb. York Water policy requires the customer to install pressure reducing valves if the normal static operating pressure is greater than 110 psi.

⁵ York Water Statement No. 2-R, pp. 12 citing 2022 Pa. PUC LEXIS 161, at *187.

the Aqua 2021 case, the normal operating pressures to some existing customers was increased up to and exceeded 200 psi – and the existing customers only became aware of the pressure increase after it caused considerable damage to pressure reducing valves and in at least one case, reoccurring damages.

However, the York's efforts to inform its customers in a high pressure situation appear to be reasonable based on the information I have in this case. I believe that the Company has adequately addressed my concerns at this time.

Α.

FIRE HYDRANTS

Q. WHAT IS THE COMPANY'S POSITION ON FIRE HYDRANTS THAT CANNOT PROVIDE THE MINIMUM FIRE FLOW?

Mr. Wheeler testified that: (1) York Water already meets these recommendations⁶; (2) York Water will not install a fire hydrant that cannot meet the minimum requirements of flow; (3) the Company is in regular contact with all Fire Chiefs in its certificated service territory about new fire hydrants, and the local municipalities must provide a letter for installation of any new fire hydrants; (4) there have been instances in the past where York Water hydrants could not meet minimum flow, and those hydrants were removed; (5) the Company is aware of two non-standard fire hydrants (2 hose connection only) tapped on a 4" main that York Water acquired through a system acquisition. These hydrants are still in place as a means to flush in that area. The township in question was not interested in fire protection because it was a 4" main; (6) the local fire department is aware that these hydrants

⁶ OCA St. 6, p. 12.

are not available for fire service. The Township would rely on a tanker operation response in the event of a fire in that area.⁷

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Q. DO YOU AGREE WITH THE COMPANY'S POSITION ON FIRE HYDRANTS THAT CANNOT PROVIDE THE MINIMUM FIRE FLOW?

6 A. Yes. Mr. Wheeler testimony indicates that it addresses our recommendations.

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Q. WHAT IS THE COMPANY'S POSITION ON OVER PUMPING FIRE HYDRANTS AND CONTAMINATING THE DISTRIBUTION SYSTEM? BY CAUSING NEGATIVE PRESSURES?

Mr. Wheeler discussed the local fire companies' firefighting procedure as follows: Α. 11 (1) every fire hydrant can produce at least 500 gpm; (2) almost all fire departments 12 within the Company's service area are using Large Diameter Hose ("LDH") for 13 supply lines; (3) most standard operating procedures call for the 1st in Engine to 14 lay out a supply line from the closest hydrant to the front of the structure on fire; 15 (4) this hose is "soft," so it will only deliver what the fire hydrant can produce, which 16 17 the Fire Department Pump Operator can monitor on the "intake pressure" gauge on the pump panel of the Engine, prior to the hose collapsing; (5) If the fire being 18 fought is large enough, the fire department may order a second Engine to "re-19 20 pump" the supply line to the first Engine, by connecting to the original fire hydrant using a "soft suction" line or a 4-way valve. In this set-up, the Fire Department 21 Pump Operator monitors the "intake pressure" from the hydrant and the "output 22

⁷ York Water Statement No. 2-R, pp. 12-13.

pressure" to the 1st Engine; (6) in this situation, the hose is "soft", and will collapse before going to a negative pressure; (7) as for contamination in other portions of the Distribution system, all service lines (Residential, Commercial, Industrial and Public) are fitted with backflow prevention devices, as per the Company' Cross Connection Control Policy. This makes back-siphonage remote under standard fire-fighting conditions.⁸

Α.

Q. DO YOU AGREE WITH THE COMPANY'S POSITION REGARDING CONTAMINATING THE DISTRIBUTION SYSTEM BY CAUSING NEGATIVE PRESSURES?

Yes, with the understanding that although remote, some contamination of other portions of the distribution system can occur even with the procedure described above. Most, if not all, pipelines experience unavoidable leakage under positive pressure and can provide unavoidable leaking of contamination into the distribution system under negative pressure. If negative pressures occur in other portions of the distribution system, the Company should make sure that contamination did not occur. Customer complaints of a water outage during a fire would be an indication of possible areas of contamination by negative pressure. In case of possible contamination, the Company should contact DEP and follow standard procedures to test and remove any contamination.

⁸ York Water Statement No. 2-R, pp. 13-14.

1 Q. DOES THIS COMPLETE YOUR WRITTEN SURREBUTTAL TESTIMONY?

- 2 A. Yes, at this time. I reserve the right to supplement this testimony either in writing
- or orally if additional relevant information is received.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission

: Docket Nos. R-2022-3031340 (Water)

V.

R-2022-3032806 (Wastewater)

The York Water Company

VERIFICATION

I, Terry L. Fought, hereby state that the facts set forth in my Surrebuttal Testimony, OCA Statement 6SR, are true and correct (or are true and correct to the best of my knowledge, information, and belief) and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: September 28, 2022

*335895

Signature:

Terry L. Fought

Consultant Address: 780 Cardinal Drive Harrisburg, PA 17111