BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION	:	
V.	:	Docket No. R-2018-3000834
SUEZ WATER PENNSYLVANIA INC	:	

WITNESS VERIFICATION THE BUREAU OF INVESTIGATION AND ENFORCEMENT

I, Brenton Grab, on behalf of the Bureau of Investigation and Enforcement, hereby verify that the documents preliminarily identified as:

I&E Statement No. 1, and, I&E Exhibit No. 1 were prepared by me or under my direct supervision and control. Furthermore, the facts contained therein are true and correct to the best of my knowledge, information and belief and I expect to be able to prove the same at an Evidentiary Hearing in this matter. This Verification is made subject to the penalties of 18 Pa. C.S. § 4904 relating to unsworn falsification to authorities.

3 renton Drab Brenton Grab

Pennsylvania Public Utility Commission Bureau of Investigation and Enforcement

Dated: August 30, 2018

I&E Statement No. 1 Witness: Brenton Grab

PENNSYLVANIA PUBLIC UTILITY COMMISSION

v.

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

Direct Testimony

of

Brenton Grab

Bureau of Investigation & Enforcement

Concerning:

OPERATING AND MAINTENANCE EXPENSES

TAXES

CASH WORKING CAPITAL

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1	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
2	A.	My name is Brenton Grab, and my business address is Pennsylvania Public Utility
3		Commission, P.O. Box 3265, Harrisburg, PA 17105-3265.
4		
5	Q.	BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
6	А.	I am employed by the Pennsylvania Public Utility Commission (Commission) in
7		the Bureau of Investigation & Enforcement (I&E) as a Fixed Utility Financial
8		Analyst.
9		
10	Q.	WHAT IS YOUR EDUCATIONAL AND EMPLOYMENT BACKGROUND?
11	А.	An outline of my education and employment background is set forth in the
12		attached Appendix A.
13		
14	Q.	PLEASE DESCRIBE THE ROLE OF I&E IN RATE PROCEEDINGS.
15	A.	I&E is responsible for protecting the public interest in proceedings before the
16		Commission. I&E's analysis in the proceeding is based on its responsibility to
17		represent the public interest. This responsibility requires the balancing of the
18		interests of ratepayers, the regulated utility, and the regulated community as a
19		whole.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

2	А.	The purpose of my testimony is to review the base rate filing of Suez Water
3		Pennsylvania Inc. (Suez, SWPA, or Company) and make recommended
4		adjustments to the Company's proposed operating and maintenance (O&M)
5		expenses, taxes, and cash working capital claims for the fully projected future test
6		year (FPFTY) ending December 31, 2019. I will also make recommendations
7		regarding flowback of the 2018 tax over recovery created by the Tax Cuts & Jobs
8		Act of 2017 (TCJA). Lastly, I will address the Company's excess accumulated
9		deferred income tax (ADIT) related the TCJA.
10		
11	Q.	DOES YOUR TESTIMONY INCLUDE AN EXHIBIT?
12	А.	Yes. I&E Exhibit No. 1 contains schedules that support my direct testimony.
13		
14	Q.	PLEASE SUMMARIZE YOUR ADJUSTMENTS.
15	A.	The following table summarizes my recommended adjustments:

	Company <u>Claim</u>	I&E Recommended <u>Allowance</u>	I&E <u>Adjustment</u>
O&M Expenses and Taxes:			
Adjustments for Mahoning Township Acquisition	\$430,783	\$0	(\$430,783)
Labor Expense	\$5,458,942	\$5,413,703	(\$45,239)
Payroll Tax	\$650,123	\$644,689	(\$5,434)
Employee Group Health and Life Insurance	\$1,439,521	\$1,425,008	(\$14,513)
Fringe Benefits Transferred	(\$1,106,288)	(\$1,099,737)	\$6,551
Outside Contractors	\$1,147,114	\$922,114	(\$225,000)
Purchased Water	\$182,928	\$74,591	(\$108,337)
Purchased Power	\$1,570,688	\$1,357,874	(\$212,814)
Management and Service Fees	\$5,359,497	\$4,492,483	(\$867,014)
Real Estate Taxes	\$318,178	\$304,553	<u>(\$13,625)</u>
O&M and Tax Expense Adjustments			<u>(\$1,916,208)</u>
Rate Base Adjustments:			·····
Cash Working Capital	\$863,746	\$796,364	(\$67,382)
Capitalized Labor	\$2,669,386	\$2,647,265	(\$22,121)
Fringe Benefits Transferred	\$1,106,288	\$1,099,737	(\$6,551)
Rate Base Adjustments			<u>(\$96,054)</u>

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J

4 OVERALL I&E POSITION

5 Q. WHAT IS I&E'S TOTAL RECOMMENDED REVENUE REQUIREMENT?

6 A. I&E's total recommended revenue requirement for the Company is \$46,531,591.

7 This recommended revenue requirement represents a decrease of \$850,659 to the

- 8 I&E-adjusted present rate revenues of \$47,382,250. This total recommended
- 9 allowance incorporates my adjustments made in this testimony to O&M expenses,
- 10 taxes, rate base, and cash working capital, and those recommended adjustments
- 11 made in the testimonies of I&E witnesses D. C. Patel (I&E Statement No. 2) for

the overall rate of return and Ethan Cline (I&E Statement No. 3) for revenues, rate

2 3

1

A calculation of the I&E recommended revenue requirement is shown

below:

base, and depreciation expense.

5

4

Suez Water Pennsylvania		TAB	LEI		
R-2018-3000834	INCOME		SUMMARY		
7/17/18					
	12/31/19 Proforma	[OFFICE OF T	RIAL STAFF]
	Present Rates	Adjustments	Present Rates	Allowances	Proposed
	\$	\$	\$	\$	\$
Operating Revenue	47,382,250	0	47,382,250	-850,659	46,531,591
Deductions:					
O&M Expenses	19,205,688	-1,902,583	17,303,105	-3,028	17,300,07
Depreciation/Amortizations	8,515,508	-331,929	8,183,579		8,183,57
Taxes, Other	968,391	-13,625	954,766	-4,283	950,48
Income Taxes:					
Current State	1,086,677	266,804	1,353,481	-84,250	1,269,23
Current Federal	2,072,918	504,818	2,577,736	-159,411	2,418,32
Deferred Taxes	573,193	0	573,193		573,19
ITC	0	0	0		(
Total Deductions	32,422,375	-1,476,515	30,945,860	-250,972	30,694,888
Income Available	14,959,875	1,476,515	16,436,390	-599,687	15,836,703
Measure of Value	243,448,860	-19,766,618	223,682,242	0	223,682,242
Rate of Return	6.14%		7.35%		7.08%

6

7

8 ADJUSTMENTS FOR MAHONING TOWNSHIP ACQUISITION

9 Q. WHAT IS THE MAHONING TOWNSHIP ACQUISITION?

10 A. As mentioned by I&E witness Ethan Cline, the Company has indicated that it

11 plans to file a Section 1329 application with the Commission to acquire the

1		Mahoning Township Water System (Mahoning Township) and serve its
2		approximately 1200 customers (I&E Statement No. 3, p. 4 and SWPA Statement
3		No. 1, p. 26). The Company has stated that it plans to, at some unspecified time in
4		the second quarter of 2018 (SWPA St. No. 1, p. 26), file a Section 1329
5		application with the Commission to officially acquire Mahoning Township.
6		Despite the fact that the Company has not yet filed this Application and it has not
7		been approved the Commission, the Company is seeking to recover \$430,783 in
8		expenses related to the Mahoning Township system.
9		
10	Q.	WHAT O&M EXPENSES ARE THE COMPANY CLAIMING RELATED
11		TO THE MAHONING TOWNSHIP ACQUISITION?
12	A.	The Company's claimed O&M expenses include the cost of: purchased water from

Danville, labor expense for the one employee retained, and other operating costs 13 14 such as energy, chemicals, etc. (SWPA Statement No. 1, p. 27). More specifically, the Company is claiming an expense amount of \$430,783 under the account name 15 16 Adjustments for Mahoning Township Acquisition in its FPFTY (SWPA Exhibit No. CEH-2, Schedule-1). This expense is further broken down as purchased water 17 of \$360,835, energy/power of \$24,948, and an additional subcontractor of \$45,000 18 (SWPA Exhibit No. CEH-2, Schedule-29). Also, the Company is including the 19 planned Mahoning Township one new hire in its calculation of labor expense and 20 employee group health and life insurance expense. These items this will be 21 addressed below in separate sections of my direct testimony. 22

1	Q.	WHAT IS THE BASIS FOR THE COMPANY'S CLAIM?
2	A.	The Company is including Adjustments for the Mahoning Township Acquisition
3		(\$430,783) due to the planned acquisition (SWPA Statement No. 2, p. 12 and
4		SWPA Statement No. 1, p. 27). However, as previously indicated, the Application
5		to acquire the system has not yet been filed.
6		
7	Q.	DO YOU AGREE WITH THE COMPANY'S CLAIM FOR ADJUSTMENTS
8		FOR THE MAHONING TOWNSHIP ACQUISITION OF \$430,783?
9	А.	No.
10		
11	Q.	WHAT IS YOUR RECOMMENDATION?
12	A.	I recommend disallowance of the \$430,783 claim for Adjustments for the
13		Mahoning Township Acquisition in its entirety (SWPA Exhibit No. CEH-2,
14		Schedule-1).
15		
16	Q.	WHAT IS THE BASIS THE FOR YOUR RECOMMENDATION?
17	А.	As explained by I&E witness Ethan Cline, the Company's proposal to include
18		costs associated with this potential acquisition is improper because the Application
19		to acquire Mahoning Township has not yet been filed or approved by the
20		Commission. Including costs associated with the potential Mahoning Township
21		acquisition goes against the rules set forth in Section 1329 of the Public Utility
22		Code as explained in more detail by Mr. Cline (I&E Statement No. 3, pp. 5-6).

1		Additionally, Mr. Cline explained that including costs associated with Mahoning
2		Township is improper because there is no guarantee that this potential acquisition
3		will be approved before the end of the Fully Projected Future Test Year
4		("FPFTY") and the Company's proposal to raise rates of Mahoning Township
5		customers in this base rate case is concerning given that these customers have had
6		no notice of a potential rate increase or opportunity to participate in this base rate
7		case (I&E Statement No. 3, p. 6). For more detail on Mr. Cline's
8		recommendations, see I&E Statement No. 3. In consideration of Mr. Cline's
9		testimony, I recommend disallowance of the O&M Acquisition Adjustments in the
10		amount of \$430,783.
11		
12		LABOR EXPENSE
13	Q.	WHAT IS LABOR EXPENSE?
14	A.	The Company's labor expense consists of the Company's payroll claim (SWPA
15		Exhibit No. CEH-2, Workpaper CEH-2.1).
16		
17	Q.	WHAT IS THE COMPANY'S CLAIM FOR LABOR EXPENSE?
18	A.	The Company's claim for labor expense is \$5,458,942 (SWPA Exhibit No.
19		CEH-2, Sch1).

Q. WHAT IS THE COMPANY'S BASIS FOR ITS CLAIM?

2	A.	The Company's claim is based on gross salaries of \$6,994,207, the gross salary
3		increase of \$201,569, gross incentive pay of \$420,095, gross overtime pay of
4		\$413,475, gross standby pay of \$78,686, gross shift pay of \$15,685, and gross
5		substitution pay of \$4,743 for the existing employees and the five new hires for
6		the FPFTY, which equals gross labor expense of \$8,128,460 (SWPA Exhibit No
7		CEH-2, p. 38, Workpaper CEH-2.1). Next, the Company makes an adjustment
8		based on its capitalized labor percentage of 32.84% (rounded) which produces a
9		FPFTY capitalized labor amount of \$2,669,386 (\$8,128,460 x 32.84%). However,
10		the Company's claim for capitalized labor is \$2,669,518 due to the Company not
11		rounding off its labor capitalization percentage in its calculation. The Company's
12		labor expense is equal to \$5,458,942 (\$8,128,460 - \$2,669,518).
13		

14 Q. DO YOU AGREE WITH THE COMPANY'S CLAIM?

- 15 A. No.
- 16

17 Q. WHAT DO YOU RECOMMEND FOR LABOR EXPENSE?

- 18 A. I recommend an allowance of \$5,413,703 or a reduction of \$45,239 (\$5,458,942 -
- 19 \$5,413,703) to the Company's claim.

Q. WHAT IS THE BASIS FOR YOUR RECOMMENDATION?

2	А.	As discussed above, I recommend that all expenses related to the Mahoning
3		Township acquisition be denied for the reasons set forth in I&E witness Ethan
4		Cline's direct testimony (I&E Statement No. 3). This includes the denial of an
5		employee as claimed in the Company's filing for Mahoning Township (SWPA
6		Statement No. 1, p. 27).
7		
8	Q.	PLEASE CONTINUE.
9	A.	The gross labor amount of \$67,360 related to the Mahoning Township employee is
10		claimed on SWPA Exhibit No. CEH-2, p. 37, Workpaper CEH-2.1, line 53 under
11		the job title Utility B Person. As stated previously the Company's capitalization
12		percentage of labor is 32.84%. The capitalization of the Mahoning Township
13		employee gross labor amount is \$22,121 (\$67,360 x 32.84%). The labor expense
14		for the Mahoning Township employee is \$45,239 (\$67,360 - \$22,121).
15		Disallowance of the Mahoning Township employee's labor expense produces a
16		decrease of \$45,239 to labor expense.
17		
18	Q.	ARE THERE ANY OTHER ADJUSTMENTS RELATED TO YOUR
19		LABOR RECOMMENDATION?
20	А.	Yes. Since I am removing the Mahoning Township employee from the
21		Company's claim it is necessary to make a corresponding adjustment to rate base

for the employee's capitalized portion of labor. I recommend an allowance of

1		\$2,647,265 or a reduction of \$22,121 (\$2,669,386 - \$2,647,265) to the Company's
2		capitalized labor.
3		
4		PAYROLL TAXES
5	Q.	WHAT ARE PAYROLL TAXES?
6	A.	Payroll taxes are taxes imposed on employers and employees and are usually
7		calculated as a percentage of the salaries and wages paid to staff. Payroll taxes
8		generally fall into two categories: (1) deductions from employees' salaries and
9		wages, and (2) taxes paid by the employer based on employees' salaries and
10		wages. The Company has made a claim in this filing for its share of those payroll
11		taxes.
12		
13	Q.	WHAT IS THE COMPANY'S CLAIM FOR PAYROLL TAXES?
14	А.	The Company's claim for payroll taxes is \$650,213 (SWPA Exhibit No. CEH-2,
15		Schedule-1 and Exhibit No. CEH-2, Schedule-32).
16		
17	Q.	WHAT IS THE BASIS FOR THE COMPANY'S CLAIM?
18	Α.	The Company's payroll tax claim is based on multiplying proposed gross FPFTY
19		salaries and wages by the FICA tax rate (6.2%), the Medicare tax rate (1.45%), the
20		federal unemployment tax rate (0.6%) , and the state unemployment tax rate
21		(2.3905%) (SWPA Exhibit No. CEH-2, Sch32 and SWPA Exhibit No. CEH-2,
22		Workpaper CEH-2.2).

1 **Q**. **DO YOU AGREE WITH THE COMPANY'S CLAIM?** 2 A. No. 3 4 Q. WHAT DO YOU RECOMMEND FOR PAYROLL TAXES? 5 A. I recommend an allowance of \$644,689 or a reduction of \$5,434 (\$650,213 -6 \$5,434) to the Company's claim. 7 8 **Q**. WHAT IS THE BASIS OF YOUR RECOMMENDATION? 9 A. My recommended adjustment to labor expense as discussed above would require a 10 corresponding adjustment to payroll taxes. The Company claims the payroll tax 11 for the Mahoning Township Employee under the job title Utility B Person. The 12 payroll tax claim for Utility B Person is FICA tax of \$4,176, Medicare tax of \$977, 13 federal unemployment tax of \$42, and state unemployment tax of \$239. The total 14 of these equals my recommended adjustment of 5,434 (4,176 + 977 + 42 +15 \$239) (SWPA Exhibit No. CEH-2, p. 47, Workpaper CEH-2.2, line 52). 16 17 **EMPLOYEE GROUP HEALTH AND LIFE INSURANCE EXPENSE** WHAT IS EMPLOYEE GROUP HEALTH AND LIFE INSURANCE 18 Q. 19 **EXPENSE?** 20 This expense includes the Company-funded portion of employee health and life A.

21 insurance.

1	Q.	WHAT IS THE COMPANY'S CLAIM FOR EMPLOYEE GROUP
2		HEALTH AND LIFE INSURANCE EXPENSE?
3	A.	The Company's claim for employee group health and life insurance is \$1,439,521
4		(SWPA Exhibit No. CEH-2, Schedule-3).
5		
6	Q.	WHAT IS THE BASIS FOR THE COMPANY'S CLAIM?
7	A.	The Company based its claim on its medical, dental, and group life insurance for
8		the future test year ending December 31, 2018 (FTY) as adjusted for five new
9		employees in 2018 (SWPA, Exhibit No. CEH-2, Schedule-3). The FTY expense
10		of \$1,407,156 is then increased by the Company's claimed inflation rate of 2.3%
11		to determine the FPFTY claim of \$1,439,521 (\$1,407,156 x 1.023).
12		
13	Q.	WHAT IS YOUR RECOMMENDATION FOR EMPLOYEE GROUP
14		HEALTH AND LIFE INSURANCE EXPENSE.
15	А.	I recommend an allowance of \$1,425,008 or a reduction of \$14,513 (\$1,439,521 -
16		\$1,425,008) to the Company's claim.
17		
18	Q.	WHAT IS THE BASIS FOR YOUR RECOMMENDATION?
19	А.	My recommendation is based on the disallowance of all expenses related to the
20		Mahoning Township acquisition. The Company included five new employees in
21		its calculation for the FTY (SWPA, Exhibit No. CEH-2, Schedule-3), and it

indicated on SWPA Statement No. 1, p. 16 that one of these employees is from the Mahoning Township Acquisition.

3

4

Q. HOW DID YOU CALCULATE YOUR RECOMMENDED ADJUSTMENT?

- 5 A. In response to OCA-IV-33, the Company provided the employer annual rate for 6 2018 for the employee group health and life insurance without the adjustment for 7 the new hires of \$1,336,815 (\$1,208,956 + \$72,607 + \$55,252) (I&E Exhibit 8 No. 1, Schedule 1, p. 2). I used the chart on SWPA Exhibit No. CEH-2, Schedule-9 3 to recalculate the 2018 adjustment for new hires (I&E Exhibit No. 1, Schedule 10 2). I excluded the Mahoning Township employee from the calculation, which 11 decreased the number of new employees to four (I&E Exhibit No. 1, Schedule 2). 12 Therefore, the updated adjustment to the FTY for new hires' employee group 13 health and life insurance is \$56,155 (I&E Exhibit No. 1, Schedule 2). This amount 14 plus the FTY amount of \$1,336,815 provided in the Company's response to 15 OCA-IV-33 equals \$1,392,970 (\$56,155 + \$1,336,815). This amount increased by 16 the FPFTY inflation adjustment of 2.3% is equal to my recommendation of 17 \$1,425,008 (\$1,392,970 x 1.023).
- 18

19 Q. DID THE COMPANY PROVIDE UPDATES TO ITS TESTIMONY

- 20 **REGARDING NEW EMPLOYEES IN DISCOVERY?**
- A. Yes. In response to I&E-RE-3 the Company updated John Hollenbach's
 testimony, specifically SWPA Statement No. 1, p. 16, lines 4-7, to indicate that the

1		five new positions are all included in the 2019 budget, and all expenses related to
2		the new employees should have been reflected in the FPFTY (I&E Exhibit No. 1,
3		Schedule 3).
4		
5	Q.	ARE YOU UPDATING YOUR RECOMMENDATION TO EMPLOYEE
6		GROUP HEALTH AND LIFE INSURANCE BASED ON THIS UPDATED
7		INFORMATION?
8	A.	No. I am not updating my recommendation for employee group health and life
9		insurance based on this information because any dollar change related to moving
10		the new employee group and life insurance adjustment would be immaterial.
11		However, the Company should update its filing in rebuttal testimony to include all
12		expenses related to new employees in the FPFTY.
13		
14		FRINGE BENEFITS TRANSFERRED
15	Q.	WHAT IS THE COMPANY'S FRINGE BENEFITS TRANSFERRED
16		CLAIM?
17	A.	The Company's claim for fringe benefits transferred is (\$1,106,288) (SWPA
18		Exhibit No. CEH-2, Schedule 25).
19		
20	Q.	WHAT IS THE BASIS FOR THE COMPANY'S CLAIM?
21	A.	The Company is reclassifying an amount representing capitalized amounts,
22		amounts "transferred out" and amounts reclassified to other accounts. This
		14

1		adjustment is based on the historic percentage of benefits transferred of 32.84%
2		(SWPA Statement No. 2, p. 10). This percentage is multiplied by the total
3		projected fringe benefits listed for FICA taxes, federal unemployment tax, state
4		unemployment tax, workers' compensation, employee pension cost, post-
5		retirement healthcare accrued, employee group health and life, employee 401K,
6		other employee benefits, and other awards. The gross amounts of these listed
7		expenses were claimed in the FPFTY on SWPA Exhibit No. CEH-2, Schedule-1.
8		The Company totaled these expenses to arrive at the gross amount of \$3,368,554
9		and multiplied that by the Company's transferred in/transferred out/capitalization
10		percentage of 32.84%, which equals \$1,106,288 (\$3,368,554 x 32.84%) in fringe
11		benefits transferred expense (SWPA Exhibit No. CEH-2, Schedule-25). Finally,
12		the Company decreases O&M expenses by \$1,106,288 to remove the transferred
13		in/transferred out/capitalized portions of all expenses previously listed.
14		
15	Q.	DO YOU AGREE WITH THE COMPANY'S CLAIM?

- 16 A. No.
- 17

18 Q. WHAT DO YOU RECOMMEND FOR FRINGE BENEFITS

19 **TRANSFERRED**?

A. I recommend an allowance of (\$1,099,737) or an increase to the Company's fringe
benefits transferred of \$6,551 (-\$1,106,288 + \$6,551).

Q. WHAT IS THE BASIS FOR YOUR RECOMMENDATION?

A. My recommended adjustments to payroll taxes and employee group health and life
insurance expense as discussed above require corresponding adjustments to fringe
benefits transferred. Since I recommended negative adjustments to payroll taxes
and employee group health and life insurance, it is necessary to make positive
adjustments based on these accounts to fringe benefits transferred.

7

8

Q. HOW DID YOU CALCULATE YOUR RECOMMENDED ADJUSTMENT?

9 A. Multiplying my recommended adjustments to payroll taxes and employee group 10 health and life insurance by the net transferred in/transferred out/capitalization 11 percentage of 32.84% produces the corresponding adjustments that should be 12 made to fringe benefits transferred. The positive adjustment to fringe benefits 13 transferred based on my \$5,434 payroll tax adjustment is \$1,785 (\$5,434 x 14 32.84%). The positive adjustment to fringe benefits transferred based on my 15 \$14,513 adjustment to employee group health and life insurance is \$4,766 16 (\$14,513 x 32.84%). The sum of these two amounts equals my recommended 17 adjustment to fringe benefits transferred of 6,551 (1,785 + 4,766).

18

19 Q. ARE THERE ANY OTHER ADJUSTMENTS RELATED TO YOUR

20 FRINGE BENEFITS TRANSFERRED RECOMMENDATION?

A. Yes. Since my adjustment to fringe benefits transferred was based on the removal
of the Mahoning Township employee from the Company's claim it is necessary to

1		make a corresponding adjustment to rate base for the employee's capitalized
2		fringe benefits transferred. I am recommending a corresponding reduction to
3		capitalized fringe benefits transferred of \$6,551. I recommend an allowance of
4		\$1,099,737 or a reduction of \$6,551 (\$1,106,288 - \$1,099,737) to the Company's
5		capitalized fringe benefits transferred.
6		
7		OUTSIDE CONTRACTORS
8	Q.	WHAT IS THE COMPANY'S CLAIM FOR OUTSIDE CONTRACTORS
9		EXPENSE?
10	A.	The Company's claim for outside contractors expense is \$1,147,114 (SWPA
11		Exhibit No. CEH-2, Schedule-1).
12		
13	Q.	WHAT IS THE BASIS FOR THE COMPANY'S CLAIM?
14	A.	The Company's claim was based on a two-year historic average of outside
15		contractors expense which equals \$739,050 ((\$729,456 + 748,644)/2) (SWPA
16		Exhibit No. CEH-2, Schedule-14). This amount was then increased by the
17		Company's inflation factors of 2.125% for the FTY and 2.3% for the FPFTY to
18		determine the amount of \$772,114. This expense was then increased by additional
19		convenience fees of \$150,000, a Non-Revenue Water (NRW) study expense of
20		\$150,000, and an inventory process study expense of \$75,000 to determine the
21		total FPFTY claim of \$1,147,114 (\$772,114 + \$150,000 + 150,000 + \$75.000).
22		The Company stated a total expense of \$300,000 for the NRW study expense and
		17

1		total expense of \$150,000 for the inventory process study, which the Company is
2		normalizing over the FTY and the FPFTY (SWPA Statement No. 2, p. 10, and
3		SWPA Exhibit No. CEH-2, Schedule-14).
4		
5	Q.	DO YOU AGREE WITH THE COMPANY'S CLAIM?
6	A.	No.
7		
8	Q.	WHAT IS YOUR RECOMMENDATION FOR THE COMPANY'S
9		OUTSIDE CONTRACTORS EXPENSE?
10	A.	I recommend an allowance of \$922,114 or a reduction of \$225,000 (\$1,147,114 -
11		\$225,000) to the Company's claim.
12		
13	Q.	WHAT IS THE BASIS OF YOUR RECOMMENDATION?
14	A.	I recommend that the claim of \$150,000 related to the NRW study and the claim
15		of \$75,000 related to the inventory process study be denied.
16		
17	Q.	WHY DO YOU RECOMMEND DENYING THE COMPANY'S CLAIMS
18		FOR THE NRW STUDY AND THE INVENTORY PROCESS STUDY?
19	A.	In response to OCA-IV-47 the Company indicated that it would hire an outside
20		vendor to perform the NRW study (I&E Exhibit No. 1, Schedule 4, p. 1). The
21		Company also indicated in this response that an outside vendor would be hired to
22		perform the inventory process study (I&E Exhibit No. 1, Schedule 4, p. 2). One

1		reason I recommend disallowance of the FPFTY related costs for these studies is
2		because the Company did not provide any supporting documentation from the
3		vendors to verify the costs.
4		
5	Q.	DID YOU ASK THE COMPANY TO PROVIDE SUPPORTING
6		DOCUMENTATION FOR THE NRW STUDY AND INVENTORY
7		PROCESS STUDY DURING DISCOVERY?
8	A.	Yes. In I&E-RE-35, I asked the Company to provide supporting documentation
9		such as invoices, workpapers, worksheets, contractor estimates, contractor
10		agreements, etc. to support the total NRW study expense of \$300,000 and the
11		inventory process study expense of \$150,000 (I&E Exhibit No. 1, Schedule 5,
12		p. 1). I should note the Company indicated that it would receive bids for the NRW
13		study project on June 15, 2018, but it never provided these bids (I&E Exhibit
14		No. 1, Schedule 5, p. 2).
15		
16	Q.	ARE THERE ANY OTHER REASONS THAT YOU RECOMMEND
17		DISALLOWANCE OF THE COSTS RELATED TO THE NRW STUDY
18		AND THE INVENTORY PROCESS STUDY?
19	А.	Yes. According to the Company's response to I&E-RE-35, it appears the
20		Company is still in the very early planning stages of these projects and as such
21		does not know what these studies will cost or what the studies will entail (I&E
22		Exhibit No. 1, Schedule 5, p. 2). The Company indicated that it was not going to

1	receive bids related to the NRW study until June 15, 2018 (I&E Exhibit No. 1,
2	Schedule 5, p. 2). This means when the Company filed its rate case on April 30,
3	2018, it did not have bids from vendors showing the estimated costs for the NRW
4	study. Without vendor bids the Company cannot accurately estimate the cost of
5	the NRW study and as such the Company should not have claimed an expense
6	related to the NRW study in its rate case filing. As stated previously, the
7	Company still has not provided these bids, so I&E cannot verify the cost of the
8	NRW study.
9	The Company stated in its response received on June 11, 2018 to I&E-RE-35 that
10	the inventory process study has yet to go out for vendor bids, and the Company
11	has a scheduled meeting in July to define what the inventory process study will
12	entail (I&E Exhibit No. 1, Schedule 5, p. 2). Since the Company has not received
13	any vendor bids for the inventory process study to verify the cost of the study, and
14	since the Company did not even meet to define what the inventory process study
15	will entail before filing its rate case, the Company should not have included any
16	cost related to the inventory process study in its rate case filing (I&E Exhibit
17	No. 1, Schedule 5, p. 2).
18	
19	PURCHASED WATER

20 Q. WHAT IS PURCHASED WATER EXPENSE?

A. The Company has purchased water agreements with the Susquehanna Area
Regional Airport Authority (SARAA), the Borough of Steelton, and Aqua

1		Pennsylvania (Aqua PA). The Company buys water from these organizations to
2		supplement its water production.
3		
4	Q.	WHAT IS THE COMPANY'S CLAIM FOR PURCHASED WATER?
5	А.	The Company's claim for purchased water expense is \$182,928 (SWPA Exhibit
6		No. CEH-2, Schedule-7).
7		
8	Q.	WHAT IS THE BASIS FOR THE COMPANY'S CLAIM?
9	A.	The Company used a three-year historical average of this expense (\$74,591) and
10		increased it by the FTY inflation factor (2.125%) to compute the FTY expense of
11		\$76,176 (\$74,591 x 1.02125). The Company then increased this figure by its
12		FPFTY inflation factor (2.3%) to calculate the amount of \$77,928 (\$76,176 x
13		1.023). Lastly the Company increased this figure by \$105,000 to reflect the
14		Company's plan to purchase water from the SARAA, creating the Company's
15		FPFTY claim of \$182,928 (\$77,928 + \$105,000).
16		
17	Q.	DO YOU AGREE WITH THE COMPANY'S CLAIM FOR PURCHASED
18		WATER EXPENSE?

19 A. No.

1	Q.	WHAT DO YOU RECOMMEND FOR PURCHASED WATER EXPENSE?
2	A.	I recommend an allowance for purchased water expense of \$74,591 or a reduction
3		of \$108,337 (\$182,928 - \$74,591) to the Company's claim.
4		
5	Q.	WHAT IS THE BASIS FOR YOUR RECOMMENDATION?
6	А.	I recommend disallowance of the SARAA additional purchased water of \$105,000
7		and disallowance of the Company's FTY and FPFTY inflationary increases. The
8		adjustment related to the inflationary increase is \$3,337 (\$77,928 - \$74,591).
9		
10	Q.	WHAT IS THE BASIS FOR YOUR RECOMMENDATION TO
11		DISALLOW THE SARAA ADDITIONAL PURCHASED WATER OF
12		\$105,000?
13	А.	In the Company's prior rate case, at Docket No. R-2015-2462723, the Company
14		
		believed it would purchase water from the SARAA for the FPFTY ending
15		September 30, 2016 (UWPA Statement No. 4 p. 12, lines 4-16), but according to
15 16		
		September 30, 2016 (UWPA Statement No. 4 p. 12, lines 4-16), but according to
16		September 30, 2016 (UWPA Statement No. 4 p. 12, lines 4-16), but according to the breakdown of purchased water by the Company and municipalities provided in
16 17		September 30, 2016 (UWPA Statement No. 4 p. 12, lines 4-16), but according to the breakdown of purchased water by the Company and municipalities provided in response to OCA-IV-37 for 2015 to 2017 (I&E Exhibit No. 1, Schedule 6, p. 2)
16 17 18		September 30, 2016 (UWPA Statement No. 4 p. 12, lines 4-16), but according to the breakdown of purchased water by the Company and municipalities provided in response to OCA-IV-37 for 2015 to 2017 (I&E Exhibit No. 1, Schedule 6, p. 2) there was no water purchased from SARAA from 2015 to 2017. If the Company
16 17 18 19		September 30, 2016 (UWPA Statement No. 4 p. 12, lines 4-16), but according to the breakdown of purchased water by the Company and municipalities provided in response to OCA-IV-37 for 2015 to 2017 (I&E Exhibit No. 1, Schedule 6, p. 2) there was no water purchased from SARAA from 2015 to 2017. If the Company believed in the prior case, it would purchase water from the SARAA and it did not

1	In response to I&E-RE-27 the Company indicated that it did not purchase water
2	from SARAA in the past several years due to contamination, but the Company
3	anticipates that SARAA will fix this issue in the near future (I&E Exhibit No. 1,
4	Schedule 7, p. 1). The Company stated that it provided supporting documentation
5	for the \$105,000 increase in Attachment I&E-RE-27c but it did not include this
6	attachment in its response (I&E Exhibit No. 1, Schedule 7, p. 1). Hence, the
7	Company did not provide any documentation from SARAA to prove that it would
8	be purchasing water from SARAA in the FPFTY. Also, the Company did not
9	provide any documentation from SARAA indicating that SARAA would fix its
10	contamination issue by the FPFTY. If SARAA does not fix its contamination
11	issue by the FPFTY, the Company will not be able to purchase water from this
12	entity in the FPFTY. Since the Company did not provide any documentation from
13	SARAA indicating that SARAA will fix its contamination issue in the near future,
14	and since the Company did not provide any documentation from SARAA
15	indicating that the Company will purchase water from SARAA in the FPFTY, the
16	corresponding \$105,000 claim for purchased water should be disallowed.
17	Lastly, the Company did not provide documentation indicating that it needs
18	to purchase water from SARAA to provide safe and reliable service to its
19	ratepayers. According to the Company's breakdowns of purchased water expense
20	for the last three years provided in response to OCA-IV-37 (I&E Exhibit No. 1,
21	Schedule 6, p. 2), the Company has not been purchasing water from the SARAA

for the last three years. The Company has not indicated that the lack of purchased water from this entity has caused any detriment to the Company's operations.

3

4 Q. WHAT IS THE BASIS FOR YOUR RECOMMENDATION TO DENY THE 5 INFLATIONARY ADJUSTMENTS TO PURCHASED WATER?

- A. Purchased water expense is dependent on the rates set by the water suppliers. The
 Company has not provided documentation from its water suppliers indicating an
- 8 increase in water rates in the FTY or the FPFTY based on these percentages.
- 9 While Aqua PA is expected to file a base rate case in late July 2018, the Company
- 10 has not indicated whether it has contract rates that will be subject to increase
- 11 during the course of the upcoming proceeding. Additionally, just because Aqua
- 12 PA files a base rate case does not guarantee with any certainty that Suez's
- 13 customer class will receive a rate increase.
- 14

15 **PURCHASED POWER**

16 Q. WHAT IS PURCHASED POWER EXPENSE?

- 17 A. Purchased power expense is the energy cost incurred for water treatment and18 delivery operations.
- 19

20 Q. WHAT IS THE COMPANY'S CLAIM FOR PURCHASED POWER?

- 21 A. The Company's claim for purchased power expense is \$1,570,688 (SWPA Exhibit
- 22 No. CEH-2, Schedule-8).

1	Q.	WHAT IS THE BASIS FOR THE COMPANY'S CLAIM?
2	A.	The Company's claim is based on a three-year historic average of purchased
3		power expense of \$1,503,426 ((2015 expense of \$1,516,207 + 2016 expense of
4		\$1,589,719 + 2017 expense of \$1,404,353) / 3), increased by the FTY inflation
5		factor of 2.125% and the FPFTY inflation factor of 2.3% to compute its claim of
6		\$1,570,688 (SWPA Exh. No. CEH-2, Schedule-8).
7		
8	Q.	DO YOU AGREE WITH THE COMPANY'S CLAIM?
9	A.	No.
10		
11	Q.	WHAT IS YOUR RECOMMENDATION?
12	А.	I recommend an allowance for purchased power of \$1,357,874 or a reduction of
13		\$212,814 (\$1,570,688 - \$1,357,874) to the Company's claim.
14		
15	Q.	WHAT IS THE BASIS FOR YOUR RECOMMENDATION?
16	А.	My recommendation is based on two different adjustments. First, I recommend
17		that the Company's three-year historic average for purchased power be adjusted to
18		reflect more accurate historic information. Second, I recommend that the
19		Company's inflation adjustments for the FTY and FPFTY be disallowed.
20		I accept the Company's use of a three-year historic average in computing
21		its FPFTY claim, but I do not agree with the figures the Company used in its

2

three-year historic average calculation, and I do not agree with the Company's FTY and FPFTY inflation adjustments.

3

22

4 Q. PLEASE EXPLAIN YOUR RATIONALE FOR RECOMMENDING A 5 CHANGE TO THE COMPANY'S THREE-YEAR HISTORIC AVERAGE 6 FOR PURCHASED POWER.

7 The Company provided convoluted and contradictory information regarding its A. 8 purchased power history in its filing and in discovery. In the filing on SWPA 9 Exhibit No. CEH-2, Schedule-8 the Company stated two different purchased 10 power expense amounts for the HTY of \$1,242,836 (line 1) and \$1,404,352 11 (line 9). The Company indicated that the difference between these two amounts is 12 because Fuel for Power Production of \$161,001 was included in purchased power 13 expense in 2017, although the actual difference between these two amounts is 14 \$161,516 (\$1,404,352 - \$1,242,836). The Company used the 2017 amount of 15 \$1,404,353 (SWPA Exhibit No. CEH-2, Schedule-8) in its historic average 16 calculation but it should have used \$1,242,836 in its three-year historic average 17 calculation, since the \$1,404,353 amount contains fuel for power production 18 expense which has its own line on the Company's O&M breakdown and is 19 claimed elsewhere in the filing (SWPA Exhibit No. CEH-2, Schedule-1, line 8 and 20 SWPA Exhibit No. CEH-2, Schedule-9). 21 In response I&E-RE-28, Part B and OCA-IV-39, the Company provided

monthly purchased power expense for January 2017 through May 2018 (I&E

1	Exhibit No. 1, Schedule 8, p. 2, and I&E Exhibit No. 1, Schedule 9, p. 2). On
2	those responses, none of the total monthly purchased power expense dollar
3	amounts match up (I&E Exhibit No. 1, Schedule 10). The total 2017 purchased
4	power expense provided in the Company's response to I&E-RE-28, Part B equals
5	\$1,436,601, and the total 2017 purchased power expense in the Company's
6	response to OCA-IV-39 is \$1,427,000, for a difference of \$9,601 (\$1,436,601 -
7	\$1,427,000) (I&E Exhibit No. 1, Schedule 10). Also, the Company never
8	explained why the total purchased power of \$1,436,601 and \$1,427,000 reported
9	in these responses do not match either of the 2017 figures (\$1,242,836 or
10	\$1,404,359) reported on SWPA Exhibit No. CEH-2, Schedule-8.
11	In response to OCA-IV-38, the Company provided OCA-IV-38
12	Attachment, which reported new figures for purchased power expense of
13	\$1,483,893 for 2015, \$1,564,552 for 2016, and \$1,436,603 for 2017 (I&E Exhibit
14	No. 1, Schedule 11, p. 2). The Company did not reconcile these figures to the
15	figures reported in its filing on SWPA Exhibit No. CEH-2, Schedule-8. However,
16	I should note the Company did indicate that the information on OCA-IV-38
17	Attachment may not match its income statement exactly due to the information
18	coming from a third-party vendor (I&E Exhibit No. 1, Schedule 11, p. 1), but this
19	does not alleviate the fact the Company did not provide a reconciliation between
20	OCA-IV-38 Attachment's historic figures for purchased power and the historic
21	figures for purchased power on SWPA Exhibit No. CEH-2, Schedule 8. Also, the
22	Company did not provide the bills requested in I&E-RE-28, Part B, which

requested copies of purchased power invoices from January 2017 to the current
 date.

3		In response to I&E-RE-7 the Company provided purchased power
4		figures of \$1,363,806 for 2015, and \$1,466,981 for 2016 (I&E Exhibit No. 1,
5		Schedule 12, p. 2). These figures differ from the purchased power expense of
6		\$1,516,207 for 2015 and \$1,589,719 for 2016 reported on SWPA Exhibit No.
7		CEH-2, Schedule-8, and the Company did not provide an explanation for this.
8		
9	Q.	GIVEN THE INCONSISTENCY IN DATA PROVIDED BY THE
10		COMPANY, WHAT AMOUNTS ARE YOU USING TO COMPUTE A
11		THREE-YEAR HISTORIC AVERAGE?
12	A.	I am using the 2015 purchased power expense of \$1,363,806 and the 2016
13		purchased power expense of \$1,466,981 from the Company's response to I&E-
14		RE-7 (I&E Exhibit No. 1, Schedule 12, p. 2), along with the Company's reported
15		2017 purchased power expense of \$1,242,836 (SWPA Exhibit No. CEH-2,
16		Schedule-8). The reason I am using these purchased power amounts is because
17		the Company provided an ample amount of contradictory information regarding
18		purchased power expense during discovery without explanation. Another reason
19		is that these figures are mostly in agreement with the purchased power expense
20		reported on the Company's PUC annual reports (2015 expense of \$1,368,121;
21		2016 expense of \$1,466,981; and 2017 expense of \$1,242,836) (I&E Exhibit
22		No. 1, Sch. 13). The three year average of these figures is \$1,357,874

1		((\$1,363,806 + \$1,466,981 + \$1,242,836)/3), which agrees with my
2		recommendation for purchased power expense.
3		
4	Q.	WHY DO YOU BELIEVE IT IS APPROPRIATE TO DISALLOW FTY
5		AND FPFTY INFLATION ADJUSTMENTS FOR PURCHASED POWER
6		EXPENSE?
7	A.	The purchased power rates are determined by the Company's electric suppliers.
8		The Company did not provide any supporting documentation from its electric
9		suppliers indicating that the suppliers plan on increasing rates for the FTY and the
10		FPFTY.
11		
12		
		MANAGEMENT AND SERVICE FEES
13	Q.	MANAGEMENT AND SERVICE FEES WHAT ARE MANAGEMENT AND SERVICE FEES?
13 14	Q. A.	
	-	WHAT ARE MANAGEMENT AND SERVICE FEES?
14	-	WHAT ARE MANAGEMENT AND SERVICE FEES? Management and Services Fees (M&S fees) are costs incurred by the Company for
14 15	-	WHAT ARE MANAGEMENT AND SERVICE FEES? Management and Services Fees (M&S fees) are costs incurred by the Company for services rendered by its affiliate SUEZ Water Management & Services
14 15 16	-	WHAT ARE MANAGEMENT AND SERVICE FEES? Management and Services Fees (M&S fees) are costs incurred by the Company for services rendered by its affiliate SUEZ Water Management & Services (SWM&S). SWM&S provides executive services, accounting and tax,
14 15 16 17	-	 WHAT ARE MANAGEMENT AND SERVICE FEES? Management and Services Fees (M&S fees) are costs incurred by the Company for services rendered by its affiliate SUEZ Water Management & Services (SWM&S). SWM&S provides executive services, accounting and tax, engineering and technical services, legal services, etc. (SWPA Exhibit D III-06,

1	Q.	WHAT IS THE COMPANY'S CLAIM FOR M&S FEES?
2	A.	The Company's claim for M&S fees is \$5,359,497 (SWPA Exhibit No. CEH-2,
3		Schedule 12).
4		
5	Q.	WHAT IS THE BASIS FOR THE COMPANY'S CLAIM?
6	A.	The Company used charges from SWM&S for its claim of \$5,359,497 (SWPA
7		Exhibit No. D III-06 and SWPA Exhibit D III-06, Attachment A).
8		
9	Q.	DO YOU AGREE WITH THE COMPANY'S CLAIM?
10	A.	No.
11		
12	Q.	WHAT IS YOUR RECOMMENDATION FOR M&S FEES?
13	А.	I recommend an allowance of \$4,492,483 or a reduction \$867,014 to the
14		Company's claim (\$5,359,497 - \$4,492,483).
15		
16	Q.	WHAT IS THE BASIS FOR YOUR RECOMMENDATION?
17	A.	I recommend that the common asset allocation of \$867,017 (SWPA Exhibit No. D
18		III-06, Attachment A) be disallowed.
19		
20	Q.	DID THE COMPANY CHANGE ITS COMMON ASSET ALLOCATION
21		INCLUDED IN MANAGEMENT AND SERVICE FEES DURING
22		DISCOVERY?
		30

1	A.	Yes. The Company indicated a necessary change to its common asset allocation
2		and that the correct amount is \$727,079 (I&E Exh. No. 1, Schedule 14, p. 1). I
3		should note that I&E Exhibit No. 1, Schedule 14, p. 1 is incorrectly labeled as
4		I&E-RE-17, but it is actually the Company's response to I&E-RE-1.
5		
6	Q.	DOES THIS CHANGE YOUR RECOMMENDATION?
7	А.	No. The Company did not change its claim in any official capacity so the claim in
8		the Company's filing still stands. Regardless, even if the Company provides an
9		official update to its claim for the common asset allocation, I continue to
10		recommend disallowance of this amount.
11		
12	Q.	WHAT IS THE BASIS FOR YOUR RECOMMENDATION THAT THE
	Q.	WHAT IS THE BASIS FOR YOUR RECOMMENDATION THAT THE COMMON ASSET ALLOCATION BE DISALLOWED?
13	Q. A.	
12 13 14 15	-	COMMON ASSET ALLOCATION BE DISALLOWED?
13 14 15	-	COMMON ASSET ALLOCATION BE DISALLOWED? The Company indicates in response to I&E-RE-1, Attachment D-III-6 A that the
13 14	-	COMMON ASSET ALLOCATION BE DISALLOWED? The Company indicates in response to I&E-RE-1, Attachment D-III-6 A that the common asset allocation is a pre-tax rate of return on shared assets from its
13 14 15 16	-	COMMON ASSET ALLOCATION BE DISALLOWED? The Company indicates in response to I&E-RE-1, Attachment D-III-6 A that the common asset allocation is a pre-tax rate of return on shared assets from its affiliate, SWM&S and depreciation expense on these shared assets (I&E Exhibit 1,
13 14 15 16 17	-	COMMON ASSET ALLOCATION BE DISALLOWED? The Company indicates in response to I&E-RE-1, Attachment D-III-6 A that the common asset allocation is a pre-tax rate of return on shared assets from its affiliate, SWM&S and depreciation expense on these shared assets (I&E Exhibit 1, Schedule 14, p. 3). Accepting the Company's claim encourages the regulated
13 14 15 16 17 18	-	COMMON ASSET ALLOCATION BE DISALLOWED? The Company indicates in response to I&E-RE-1, Attachment D-III-6 A that the common asset allocation is a pre-tax rate of return on shared assets from its affiliate, SWM&S and depreciation expense on these shared assets (I&E Exhibit 1, Schedule 14, p. 3). Accepting the Company's claim encourages the regulated utility to move assets off of its books. There is no control over how the SWM&S
13 14 15 16 17 18 19	-	COMMON ASSET ALLOCATION BE DISALLOWED? The Company indicates in response to I&E-RE-1, Attachment D-III-6 A that the common asset allocation is a pre-tax rate of return on shared assets from its affiliate, SWM&S and depreciation expense on these shared assets (I&E Exhibit 1, Schedule 14, p. 3). Accepting the Company's claim encourages the regulated utility to move assets off of its books. There is no control over how the SWM&S depreciates these assets, thus there is limited regulatory oversight on the

1 claim SWM&S depreciation expense, Suez should not be allowed to claim a rate 2 of return on any assets it receives from an affiliate because it allows the affiliate to 3 profit on the transaction. Ratepayers should not be required to pay a profit or 4 markup on assets provided by the Company's affiliate. The point of using a 5 service company is to save the Company money since the service company will 6 have more buying power and ability to negotiate prices when it is buying more of 7 each type of item then distribute these assets to each company it services. 8 Charging a markup is an inappropriate action by the service company. 9 Also, it is possible that the assets included in the common asset allocation were 10 expensed in the year they were purchased by SWM&S so it is inappropriate to 11 pass on related expenses to Suez ratepayers in subsequent years. In my opinion, 12 there are too many unknown factors involved with this common asset allocation 13 and it is far too speculative for it to be allowed as part of Suez's management and 14 service fees expense.

15

Q. DO YOU HAVE ANY RECOMMENDATIONS IF THE COMMISSION APPROVES THE COMPANY'S COMMON ASSET ALLOCATION?

18 A. Yes. If the Commission decides to approve the Company's common asset

allocation as part of its M&S fees expense, some modifications should be made to
the common asset allocation calculation. First, the Company updated its FTY
common allocation figure to \$795,686 and its FPFTY common allocation figure to

22 \$727,078, so these changes would need to be incorporated into the Company's

1	M&S fees calculation (I&E Exhibit 1, Schedule 14, p. 1). Second, the pre-tax rate
2	of return the Company is using in its calculation would need to be updated to the
3	Commission approved rate of return. Third, the Company is including far too
4	much depreciation expense in its calculation for both the FTY and the FPFTY.
5	The Company is claiming a depreciation expense for the FTY of \$6,127,039 and
6	for the FPFTY of \$5,970,944 (I&E Exhibit 1, Schedule 14, p. 3). In contrast, the
7	Company is claiming an accumulated depreciation for the FTY of \$13,339,436
8	and FPFTY \$19,356,696 (I&E Exhibit 1, Schedule 14, p. 3). This means that the
9	Company's current year depreciation expense for the FTY is 46%
10	(\$6,127,039/\$13,339,436) of the accumulated depreciation and 31%
11	(\$5,970,944/\$19,356,696) of the FPFTY accumulated depreciation. Also, the
12	Company is providing contradictory information regarding depreciation expense
13	within the same response. On I&E Exhibit No. 1, Schedule 14, p. 4, the Company
14	indicates a depreciation expense of \$510,587 for the FTY and a depreciation
15	expense of \$497,579 for the FPFTY. The Company needs to provide an
16	explanation for the different depreciation expense amounts and state the actual
17	appropriate depreciation expense involved in the common asset allocation
18	calculation, before an accurate common asset allocation can be calculated. At this
19	point, I would recommend that the Commission use the lower depreciation
20	expense amounts (\$510,587 for the FTY and \$497,579 for the FPFTY) in
21	determining an appropriate allowance amount.

REAL ESTATE TAXES

2	Q.	WHAT IS THE COMPANY'S CLAIM FOR REAL ESTATE TAXES?
3	A.	The Company's claim for real estate taxes is \$318,178. This claim can further be
4		broken down into PURTA of \$256,228 and property tax of \$61,950 (SWPA
5		Exhibit No. CEH-2, Schedule-31).
6		
7	Q.	WHAT IS THE BASIS FOR THE COMPANY'S CLAIM?
8	A.	For PURTA the Company used the HTY amount of \$245,256 and increased
9		that by an inflation factor of 2.125% for the FTY and 2.3% for the FPFTY to
10		determine the FPFTY claim of \$256,228 (SWPA Exhibit No. CEH-2,
11		Schedule-31). For the property tax claim, the Company used its property tax
12		from the HTY of \$270,553 and increased it by the FTY inflation factor of 2.125%
13		and the FPFTY inflation factor of 2.3% to determine the FPFTY property tax
14		claim of \$61,950.
15		
16	Q.	WHAT IS YOUR RECOMMENDATION FOR PURTA?
17	A.	I recommend an allowance of \$245,256 for PURTA or an adjustment of \$10,972
18		(\$256,228 - \$245,256) to the Company's claim.
19		
20	Q.	WHAT IS THE BASIS FOR YOUR PURTA RECOMMENDATION?
21	А.	I recommend disallowing the inflation adjustments for the FTY of \$5,212 and the
22		FPFTY of \$5,760 (SWPA Exhibit No. CEH-2, Schedule-31), because PURTA is
		24

1		imposed by the PA Department of Revenue based on information it receives from
2		the County Tax Assessor Offices. The Company did not provide documentation
3		from the PA Department of Revenue or the County Tax Assessor Offices
4		indicating that the PURTA tax is going to increase within the FTY and the
5		FPFTY.
6		
7	Q.	WHAT IS YOUR RECOMMENDATION FOR PROPERTY TAX?
8	A.	I recommend an allowance of \$59,297 for property tax or an adjustment of \$2,653
9		(\$61,950 – \$59,297) to the Company's claim.
10		
11	Q.	WHAT IS THE BASIS FOR YOUR PROPERTY TAX
12		RECOMMENDATION?
13	A.	I recommend disallowing the inflation adjustments for the FTY of \$1,260 and the
14		FPFTY inflation adjustment of \$1,393 (SWPA Exhibit No. CEH-2, Schedule-31),
15		because property tax is imposed by local authorities and the Company did not
16		provide any documentation from these local authorities indicating that the property
17		tax is going increase for the FTY or the FPFTY.
18		
19	Q.	WHAT IS YOUR TOTAL RECOMMENDATION FOR REAL ESTATE
20		TAXES?

1	А.	My recommended balance for real estate taxes is \$304,553 or a reduction of
2		\$13,625 (\$318,178 - \$304,553) to the Company's claim. This recommendation
3		includes my adjustments of \$10,972 for PURTA and \$2,653 for property tax.
4		
5		RATE CASE EXPENSE
6	Q.	DESCRIBE THE NATURE AND TYPES OF EXPENDITURES
7		TYPICALLY ALLOWED AS A PART OF A REGULATED UTILITY'S
8		OVERALL RATE CASE EXPENSE.
9	A.	The nature and types of individual expenditures that comprise a utility's allowable
10		claim for rate case expense are those directly incurred to compile, present, and
11		defend a utility's request for a base rate increase before the Commission. The
12		actual expenditures and estimated costs typically found in an allowable rate case
13		expense claim include legal fees for outside counsel, fees to outside consultants,
14		and the cost of printing, document assembly, and postage.
15		
16	Q.	A KEY ISSUE CONCERNING THE RECOVERY OF RATE CASE
17		EXPENSE IS WHETHER THE CLAIM SHOULD BE NORMALIZED.
18		BRIEFLY DISCUSS THE CONCEPT OF NORMALIZATION.
19	A.	Normalization is a ratemaking concept that describes the transformation of an
20		operating expense that recurs at irregular intervals into a "normal" annual test year
21		expense allowance. Allowed normalized expenses are no different than any other
22		O&M expense in that a company is given the opportunity to achieve full recovery.
		36

2

Q. HOW HAS THE COMMISSION TRADITIONALLY TREATED RATE CASE EXPENSE FOR RATEMAKING PURPOSES?

- A. The Commission has historically stated that it considers prudently incurred rate
 case expense as an ongoing expense, occurring at irregular intervals, related to the
 rendering of utility service. The Commission has also cited the importance of
 considering the involved utility's history regarding the frequency of rate case
 filings as an essential element to determine the normalized level of rate case
 expense for ratemaking purposes.
- 9

10 Q. HOW IS THE FREQUENCY OF RATE CASE FILINGS DETERMINED?

- A. The frequency is determined by calculating the average number of months
 between the utility's previous rate case filings.
- 13

14

Q. WHAT IS THE COMPANY'S CLAIM FOR RATE CASE EXPENSE?

- 15 A. The Company's FPFTY claim for rate case expense is \$189,000.
- 16

17 Q. WHAT IS THE BASIS FOR THE COMPANY'S CLAIM?

- 18 A. The Company has estimated its total rate case expense amount to be \$567,000 and
- 19 is requesting an amortization period of three years (SWPA Exhibit No. CEH-2,
- 20 Schedule-22). This produces an amortized claim of \$189,000 ($\$567,000 \div 3$).

1	Q.	THE COMPANY IS PROPOSING AMORTIZATION OF RATE CASE
2		COSTS, RATHER THAN APPLYING A NORMALIZATION
3		TECHNIQUE. EXPLAIN THE CONCEPT OF AMORTIZATION.
4	A.	Amortization is an accounting procedure that extinguishes an atypical,
5		nonrecurring expense over a predetermined number of years by charging to
6		operations a pro rata share based on the selected amortization period. Although a
7		claim for an unrecovered normalized expense would be disallowed if requested in
8		a subsequent rate case, an amortization expense allowance could be claimed in
9		succeeding rate cases as long as there is a remaining unamortized balance.
10		
11	Q.	DO YOU AGREE WITH THE COMPANY'S CLAIMED AMORTIZATION
12		TREATMENT OF RATE CASE EXPENSE?
13	А.	No.
14		
15	Q.	WHAT IS YOUR RECOMMENDATION FOR RATE CASE EXPENSE
16		TREATMENT?
17	А.	I recommend normalization of rate case expense over three years as opposed to
18		amortization. Rate cases are recurring events for regulated utility companies and
19		as such, a normalized level of expenses for this operating cost should be
20		established for rate determination. Amortization, as proposed by the Company, is
21		not appropriate.

1		FEDERAL INCOME TAX - TAX CUTS AND JOBS ACT OF 2017
2	Q.	WHAT ISSUES WILL YOU ADDRESS HEREIN RELATED TO THE
3		ENACTMENT OF THE TAX CUTS AND JOBS ACT OF 2017 (TCJA)?
4	A.	I will address the Company's over-recovery of 2018 taxes and the claim for excess
5		accumulated deferred income taxes (ADIT) as a reduction to rate base.
6		
7		FTY Over-Recovery
8	Q.	HAS THE COMMISSION ISSUED ANY TCJA-RELATED ORDERS
9		RECENTLY THAT SHOULD INFLUENCE THE HANDLING OF THE
10		2018 INCOME TAX OVER-RECOVERY?
11	A.	Yes. The Commission issued a Temporary Rates Order on May 17, 2018 at
12		Docket No. M-2018-2641242 (Temporary Rates Order) regarding the effects of
13		the TCJA on the tax liabilities of Commission-regulated public utilities.
14		
15	Q.	BRIEFLY SUMMARIZE THE COMMISSION'S RECENT
16		TEMPORARY RATES ORDER REGARDING THE TCJA AT DOCKET
17		NO. M-2018-2641242.
18	A.	The Commission ruled separately for utilities with pending base rate cases,
19		utilities without pending base rate cases, and utilities with no federal tax liabilities.
20		Since Suez has a pending base rate case, the Commission, in its Temporary Rates
21		Order, did not require Suez to file a reconcilable negative surcharge adjustment
22		mechanism pursuant to Section 1307(a) for refunding the 2018 excess income tax

1		collection that is to be made effective July 1, 2018. However, the Commission did
2		state that it expects the utilities and parties currently in pending base rate case
3		proceedings (including Suez) to address the effect of federal tax reductions on the
4		justness and reasonableness of consumer rates during the term of the suspension,
5		and in particular, whether a retroactive surcharge or other measure is necessary to
6		account for tax rate changes that became effective on January 1, 2018 (Temporary
7		Rates Order, page 20). Pursuant to the Commission's Temporary Rates Order, the
8		temporary rates proceeding for Suez at Docket No. R-2018-3000770 has been
9		consolidated with this pending Section 1308(d) rate proceeding.
10		Therefore, the parties to this base rate case are required to address the
11		federal tax issues consequent to the passage of the TCJA in the context of an
12		overall review of Suez's rates and rate structure.
13		
14	Q.	WHAT AMOUNT IS THE COMPANY PROPOSING TO RETURN TO
14 15	Q.	WHAT AMOUNT IS THE COMPANY PROPOSING TO RETURN TO RATEPAYERS AS AN ADJUSTMENT FOR 2018 FEDERAL INCOME TAX
	Q.	
15	Q. A.	RATEPAYERS AS AN ADJUSTMENT FOR 2018 FEDERAL INCOME TAX
15 16		RATEPAYERS AS AN ADJUSTMENT FOR 2018 FEDERAL INCOME TAX OVER-RECOVERY?
15 16 17		RATEPAYERS AS AN ADJUSTMENT FOR 2018 FEDERAL INCOME TAX OVER-RECOVERY? The Company has not claimed any amount to return excess 2018 income taxes to
15 16 17 18		RATEPAYERS AS AN ADJUSTMENT FOR 2018 FEDERAL INCOME TAX OVER-RECOVERY? The Company has not claimed any amount to return excess 2018 income taxes to ratepayers related to changes resulting from the TCJA (SWPA Statement No. 3,
15 16 17 18 19		RATEPAYERS AS AN ADJUSTMENT FOR 2018 FEDERAL INCOME TAX OVER-RECOVERY? The Company has not claimed any amount to return excess 2018 income taxes to ratepayers related to changes resulting from the TCJA (SWPA Statement No. 3,

A. No. The Company is inappropriately recovering federal income tax at the 35% tax
 rate up to the point when new rates go into effect, and an adjustment should be
 made to return excess taxes to ratepayers.

4

Q. HAS THE COMPANY MENTIONED ALTERNATIVES DURING THE DISCOVERY PROCESS?

A. Yes. The Company has estimated its 2018 over-recovery of income taxes at \$1.7
million (I&E Exhibit No. 1, Sch. 15, p. 1). If the Company is required to return
this amount to ratepayers, it proposes to return it over a 36-month period based on
its rate case filing frequency. Further, the Company has indicated that it would
track this balance in a regulatory asset/liability until the next base rate case is filed
and would address that amount in the next rate case.

13

14 Q. DO YOU AGREE WITH THE COMPANY'S ALTERNATIVE

15 **RECOMMENDATION TO RETURN EXCESS 2018 INCOME TAXES**

16 **OVER A 36-MONTH PERIOD?**

A. No. These excess taxes have been collected only during the 2018 calendar year,
since January 1st, and therefore should not be flowed back over a three-year
period.

1 Q. WHAT DO YOU RECOMMEND?

2	A.	I recommend the Company be required to flow back to ratepayers via a
3		reconcilable 1307 surcharge mechanism (which could be entitled the Federal Tax
4		Adjustment Credit, or FTAC) over a one-year period the net savings associated
5		with the reduction in federal income taxes from January 1, 2018 through the
6		effective date of new rates, or through December 31, 2018, whichever occurs first.
7		Further, I recommend that the Company's claimed amount of \$1.7 million (I&E
8		Exhibit No. 1, Sch. 15, p. 1) be increased to reflect the flow back of 2018 excess
9		ADIT of \$265,189 (SWPA Exhibit JCC-1).
10		
11	Q.	DO YOU HAVE PROPOSED LANGUAGE FOR THE FTAC?
12	A.	Yes. I propose the following language be adopted, which is modeled on, but not
13		identical to, PECO Electric's surcharge proposal:
14 15 16 17 18 19 20 21		<u>Federal Tax Adjustment Credit (FTAC)</u> A credit value of x.xx% will apply to all Pennsylvania Public Utility Commission jurisdictional distribution charges during the period xxx x, xxxx through xxx x, xxxx to pass the January 1, 2018 through December 31, 2018 effects of the Tax Cuts and Jobs Act (TCJA) to customers. The FTAC will be computed annually, will be effective ten days after filing, and will continue until the effect of the change in tax rates resulting from the TCJA has been refunded to customers.
22 23 24 25		The FTAC will be based on the difference in total annual revenue requirement before and after implementing the 2018 effects of the TCJA and the calculation will reflect the reduction in required
26 27 28 29 30		revenues. The reduction in required revenues will be divided by estimating annual applicable base revenues to develop the FTAC to be applied to customers' bills for service rendered during the twelve- month period beginning on the effective date of new rates. The difference between the actual reduction in required revenue and the

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		reduction in revenues produced by the FTAC as applied will be subject to refund or recovery in an annual revision to the FTAC. The interest rate on the over or under collection will be applied at the residential mortgage lending rate specified by the Secretary of Banking in accordance with the Loan Interest and Protection Law (41. P.S. §§ 101, et. seq.), in effect on the last day of the month the over collection or under collection occurs. For any over/under credit balance that remains after the twelve-month refund period elapses, the Company shall propose a final additional FTAC adjustment in the thirteenth month to ensure the balance is eliminated. A reconciliation statement will be submitted to the Commission at the end of the twelfth month. A final reconciliation statement will be filed with the Commission within 30 days after the final over/under balance has been eliminated in the thirteenth month after the
16 17		effective date of new rates. The FTAC revenues and reconciliation will be subject to audit by the Commission's Bureau of Audits.
18		will be subject to duch by the Commission's Bureau of Audits.
19	Q.	WHAT IS THE BASIS FOR YOUR RECOMMENDATION?
20	А.	Now that the federal income tax rate is reduced to 21%, it is necessary to return to
21		ratepayers an amount equal to the excess income tax recovery resulting during
22		2018. In its filing, Suez has not proposed returning any excess taxes collected to
23		ratepayers.
24		
25	Q.	YOU USED THE RESIDENTIAL MORTGAGE LENDING RATE IN YOUR
26		PROPOSED FTAC LANGUAGE, ARE THERE ANY OTHER SITUATIONS
27		WHERE THE RESIDENTIAL MORTGAGE LENDING RATE IS
28		UTILIZED?
29	А.	Yes. As stated in its Final Implementation Order regarding Act 11 of 2012, the
30		Commission stated that the residential mortgage lending rate should be utilized

- when Distribution System Improvement Charge (DSIC) revenues exceed DSIC eligible costs.¹
- 3

4 Q. WHAT IS YOUR BASIS REGARDING THE PROPOSED ONE-YEAR 5 REFUND PERIOD?

6 It should not be necessary to take more than one year to refund the excess 2018 A. 7 incomes taxes to ratepayers because it relates to over-recovery of taxes for a single year, 2018. Thus, I recommend that a final reconciliation statement be filed with 8 9 the Commission within 30 days after the over/under balance is eliminated in the 10 thirteenth month after the effective dates of new rates, which will be subject to 11 audit by the Commission's Bureau of Audits. That is, the Company should refund 12 the amount of 2018 excess taxes over a one-year (twelve month) period, with a 13 reconciliation to eliminate any over/under balance on the thirteenth month. At that point, the surcharge mechanism should no longer be required. Thus, it should not 14 15 take multiple years to provide the refund to ratepayers.

¹ Final Implementation Order at Docket No. M-2012-2293611, p. 56, Order Entered August 2, 2012.

Excess Accumulated Deferred Income Taxes

2 Q. WHAT HAS CAUSED THE NEED FOR COMPANIES TO IDENTIFY AND 3 RECLASSIFY A PORTION OF ADIT?

4 Due to the changes made by the TCJA, as of January 1, 2018, regulated utilities Α. 5 hold an amount of ADIT that was calculated based on the prior federal income tax 6 rate of 35%. Since the tax rate is now reduced to 21%, the attributable dollar 7 amount needs to be reclassified to a deferred liability account. This deferred 8 liability account is necessary to track the remaining balances of excess taxes recorded in prior years due to the higher 35% federal income tax rate that was in 9 10 effect before January 1, 2018. The protected portion (the amount subject to 11 amortization using the Average Rate Assumption Method (ARAM) where records 12 are available, or the alternative method known as the Reverse South Georgia 13 Method for the remainder) should be returned to ratepayers over a period of time equal to the remaining life of the affected assets per IRS regulation. The 14 15 unprotected portion does not have a similar amortization requirement, and 16 therefore, may be returned to ratepayers more expeditiously. Each year, the 17 balance in the excess ADIT account will be ratably reduced until the entire amount 18 is refunded to ratepayers using corresponding methods for the protected and 19 unprotected portions.

20

Q. HAS THE COMPANY IDENTIFIED ITS COMPONENTS OF EXCESS ADIT?

1	A.	Yes. However, it has provided conflicting information about the breakdown
2		between the protected excess ADIT and the unprotected excess ADIT balances.
3		On Suez Exhibit JCC-1, the Company states that the December 31, 2017 balance
4		for protected excess ADIT is \$10,077,192 and that the unprotected balance is \$0.
. · 5	-	In SWPA Statement No. 3, Company witness James C. Cagle indicates that the
6		Company is still reviewing this matter to verify the protected and unprotected
7		balances, and it believes that an amortization period of 40 years using the
8		alternative method is appropriate pending ongoing analysis (SWPA Statement
9		No. 3, p. 6).
10		
11	Q.	DID THE COMPANY MAKE A REDUCTION TO RATE BASE FOR THE
12		REGULATORY LIABILITY?
13	A.	Yes. The excess ADIT balance is included in the total for deferred taxes as shown
14		on SWPA Exhibit No. CEH-1, Sch. 1-1 as a reduction to rate base. However, the
15		Company does not show the breakdown between ADIT and excess ADIT on this
16		rate base schedule, and there is no detailed supporting schedule for the FTY and
17		FPFTY amounts similar to the HTY schedule provided on SWPA Exhibit JCC-1.
18		
19	Q.	DO YOU AGREE THAT THE COMPANY SHOULD BE REDUCING RATE
20		BASE FOR THE REMAINING BALANCE OF EXCESS ADIT?
20		DAGE FOR THE REMAINING DALANCE OF EACEDS ADT
20	А.	Yes. However, the Company should be required to show calculation breakdowns
	A.	

reconciliation starting with calendar year 2018 showing the amount returned to
ratepayers in each calendar year up until the full amount is refunded to ratepayers.
Most importantly, the FPFTY is the amount claimed in the ratemaking formula,
and in looking at the filing there is no way to confirm the components of the
deferred tax breakdown of (\$18,810,736) as shown on SWPA Exhibit No. CEH-1,
Sch. 1.1.

7

8

Q. WHAT DO YOU RECOMMEND?

9 First, I recommend that the Company be required to provide an update, as soon as A. 10 possible, showing a breakdown of its excess ADIT between the protected and 11 unprotected balances. The Company's failure to provide the necessary data is hampering I&E's ability to fully and fairly evaluate the Company's filing. 12 13 Second, I recommend that the Company use its claimed 40-year amortization for 14 the protected portion and a five-year amortization for the unprotected portion. 15 Finally, I recommend that the Company be required to show the excess ADIT calculations and breakdowns for protected and unprotected balances for the HTY, 16 17 the FTY, and the FPFTY periods as discussed above, and that the Company be required to continue reducing rate base in future filings for the remaining balance 18 19 until the full amount is refunded to ratepayers.

Q. WHY IS IT IMPORTANT FOR THE COMPANY TO PROVIDE A TIMELY BREAKDOWN BETWEEN THE PROTECTED AND UNPROTECTED BALANCES FOR EXCESS ADIT?

4 A. These balances are subject to different requirements in determining the
5 amortization period to refund monies to ratepayers.

6

7 Q. WHY DO YOU RECOMMEND A FIVE-YEAR AMORTIZATION PERIOD 8 FOR THE UNPROTECTED EXCESS ADIT BALANCE?

9 A. The unprotected balance of excess ADIT should be returned to ratepayers in the 10 shortest timeframe possible to ensure that efforts were made to return the money to 11 the same set of ratepayers who paid those tax amounts in prior rates. The longer 12 the Company takes to refund the money to ratepayers, the more likely it is that 13 people will move out of the service territory and not receive refunds to what they 14 are entitled. Since there is no limitation on the number of years that companies 15 should take to return the unprotected balance, it should be returned in a shorter 16 time period than the protected balance.

17

18 Q. WHY ARE YOU NOT PROVIDING SPECIFIC DOLLAR AMOUNT

19 RECOMMENDATIONS FOR YOUR PROPOSED CHANGE TO EXCESS 20 ADIT?

A. Until such time as the Company identifies the breakdown between protected
excess ADIT and unprotected excess ADIT (I&E Exhibit No. 1, Sch. 16), I cannot

1		calculate my recommended change to the Company's claim. As soon as this
2		information is available, I can compute my recommended change to excess
3		ADIT and the corresponding rate base adjustment and a corresponding change to
4		the Company's amortization of the regulatory liability as shown on SWPA Exhibit
5		No. CEH-2, Sch1.
6		
7		CASH WORKING CAPITAL
8	Q.	WHAT IS A CASH WORKING CAPITAL (CWC) ALLOWANCE FOR
9		RATEMAKING PURPOSES?
10	A.	CWC includes the amount of funds necessary to operate a utility during the
11		interim period between the rendition of service, including the payment of related
12		expenses, and the receipt of revenue in payment for services rendered by the
13		utility.
14		
15	Q.	HOW DOES THE COMPANY CALCULATE ITS CWC CLAIM?
16	A.	The Company calculates its CWC claim by using a lead/lag study. A lead/lag
17		study measures the differences in time between: (1) the time services are rendered
18		until payment of those services is received; and (2) the time between the point
19		when a utility has incurred an expense and the actual payment of the expense.
20		Stated a different way. the lead/lag study measures how many days exist on an
21		average between the midpoint of the service period and the date the payment is
22		made.

1	Q.	DO YOU AGREE WITH THE COMPANY'S USE OF THE LEAD/LAG
2		METHOD?
3	A.	Yes. I agree with the Company's use of this method.
4		
5	Q.	WHAT IS THE COMPANY'S CLAIM FOR CWC?
6	A.	The Company's claim for CWC is \$863,746 (SWPA Exhibit No. CEH-1,
7		Sch1.1).
8		
9	Q.	DO YOU AGREE WITH THE COMPANY'S CLAIM?
10	A.	No.
11		
12	Q.	WHAT DO YOU RECOMMEND?
13	A.	I recommend an allowance of \$796,364 or reduction of \$67,382 (\$863,746 -
14		\$796,364) to the Company's claim (I&E Exhibit No. 1, Sch. 17).
15		
16	Q.	IS YOUR RECOMMENDED CWC ALLOWANCE A FINAL
17		RECOMMENDATION?
18	A.	No. All adjustments to the Company's claims for revenues, expenses, taxes, and
19		rate base must be continually brought together in the Administrative Law Judge's
20		Recommended Decision and again in the Commission's Final Order. This
21		process, known as iteration, effectively prevents the determination of a precise
22		calculation until all adjustments have been made to the Company's claim.

1 Q. WHAT IS THE BASIS FOR YOUR RECOMMENDATION?

2	A.	My CWC recommendation adjusts the Company's claim based on all
3		recommended adjustments to O&M expenses as discussed previously in this
4		testimony. Each of these components is discussed in more detail below.
5		Additionally, my recommendation reduces the Company's claimed expenses
6		by the fringe benefits capitalized/transferred out as detailed on line 24 of SWPA
7		Exhibit No. CEH-2, Sch1 and further broken down on SWPA Exhibit No.
8		CEH-2, Sch25.
9		
10	Q.	WHY IS IT NECESSARY TO REMOVE THE FRINGE BENEFITS
11		CAPITALIZED/TRANSFERRED OUT?
12	A.	The Company's expenses are reduced for the amounts capitalized as reflected on
13		SWPA Exhibit No. CEH-2, Sch25. Since the amount of the reduction represents
14		capitalized wages and benefits, those capitalized portions are receiving a return
15		based on the rate of return granted in this proceeding. These items should not also
16		be included in the CWC computation which would allow for duplication of the
17		return.
18		
19	Q.	WHICH FRINGE BENEFITS CAPITALIZED TRANSFERRED OUT ARE
20		YOU ADJUSTING IN COMPUTING A RECOMMENDED CWC

21 ALLOWANCE?

1	A.	The Company has claimed the entire amount in the CWC computation for FICA
2		Taxes (\$621,827); Federal Unemployment Taxes (\$4,242); State Unemployment
3		Taxes (\$24,144); Workers' Compensation (\$110,717); Employee Pension Cost
4		(\$1,442,010); and Employee Group Health (\$1,439,521) (SWPA Exhibit No. CEH
5		2, Sch. 25). Thus, I am removing the capitalized portion (32.84%) for each of
6		these claims from the corresponding line item in the Company's workbook for the
7		Summary of Cash Working Capital Requirements. It appears that the remaining
8		items on SWPA Exhibit No. CEH-2, Sch25 have not been included in the
9		Company's CWC computation (i.e., post-retirement healthcare accrued, employee
10		401k, other employee benefits, and other awards). My recommended CWC
11		workpaper contains these adjustments for payroll taxes, workers' compensation,
12		pension, and employee group health as discussed here along with all of my
13		proposed adjustments as mentioned below.
14		
15	Q.	HOW DO YOUR PROPOSED ADJUSTMENTS DISCUSSED ABOVE

IMPACT YOUR RECOMMENDATION FOR CWC?

A. All O&M adjustments that are cash-based expense claims are included when
determining the Company's overall CWC requirement. Therefore, CWC was
adjusted to reflect these recommended adjustments. In order to reflect the I&E
recommended adjustments, I modified the Company's electronic CWC calculation
as shown on SWPA Exhibit HW-1, Schedule 1 (I&E Exhibit No. 1, Sch. 17).

1Q.SUMMARIZE WHERE EACH OF THE I&E RECOMMENDED O&M2EXPENSE ADJUSTMENTS ARE REFLECTED IN THE CWC3COMPUTATION.

A. The following recommended adjustments must be incorporated into the CWC
calculation on the corresponding line item to arrive at my recommended
allowance:

7

Expense	Increase/ (Decrease)
Labor Expense	(\$45,239)
Payroll Tax	(\$5,434)
Employee Group Health & Life Insurance	(\$14,513)
Outside Contractors	(\$225,000)
Purchased Water	(\$108,337)
Purchased Power	(\$212,814)
Management & Service Fees	(\$867,014)
Real Estate Taxes	(\$13,625)
Fringe Benefits Transferred – Payroll Tax	\$1,785
Fringe Benefits Transferred – Employee	\$4,766
Group Health	

8

11

12 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

13 A. Yes.

⁹ All of these recommended adjustments to CWC as incorporated into the

¹⁰ Company's workpaper produce a recommended allowance of \$796,364.

Brenton Grab Education & Employment Experience

March 2016 to Present Fixed Utility Financial Analyst PA Public Utility Commission, Bureau of Investigation & Enforcement Responsible for review of operating and maintenance expenses for utility companies as a part of the evaluation and recommendation process for utility base rate filings, preparing related written testimony for cases, and testifying as an expert witness as necessary.

November 2010 to March 2016

Corporate Tax Officer, PA Department of Revenue, Bureau of Corporation Taxes Responsible for the audit of corporate tax filings by Corporations and other Pass-through entities doing business in Pennsylvania, reviewing tax returns for compliance with both federal and state statutes and regulations.

April 2010 to November 2010 Loan Service Counselor, PA Higher Education Assistance Agency

May 2008 to August 2008 Finance Department Intern, County Commissioners Association of PA

Education/Certification:

Pennsylvania State University, University Park, Pennsylvania Bachelor of Science, Accounting (Minor in Management Information Systems), 2009

Utility-Related Trainings & Webinars:

The State of the Utility Industry Heading into 2018, SURFA Webinar, January 10, 2018

Power & Utilities Tax Reform Update with Edison Electric Institute, PWC Webcast, December 14, 2017

Power & Utilities Quarterly Accounting Update 3Q17, Deloitte Power & Utilities Webcast, October 3, 2017

38th Western NARUC Utility Rate School, May 15, 2017 to May 19, 2017

Power & Utilities Quarterly Accounting Update 1Q17, Deloitte Power & Utilities Webinar, April 11, 2017

Brenton Grab Education & Employment Experience

Reinventing Resilience: Defining the Model for Utility-Led Renewable Microgrids, Deloitte Dbriefs Power & Utilities Webcast, March 30, 2017

Outlook on the Energy and Resources Industry, Deloitte Debriefs Webcast, January 10, 2017

Power & Utilities Quarterly Accounting Update 3Q16, Deloitte Power & Utilities Webcast, September 23, 2016

Power & Utilities Quarterly Accounting Update 2Q16, Deloitte Power & Utilities Webcast, June 20, 2016

How Utilities Make Money, Enerdynamics Webcast, April 18, 2016

National Regulatory Research Institute Webinar on Targeted Demand Management, March 23, 2016

Submitted Testimony on the Following Cases:

R-2018-2640058	UGI Utilities, Inc. – Electric Division
R-2017-2598203	Columbia Water Company
R-2017-2595853	Pennsylvania American Water
P-2016-2573023	PECO Energy Company

Assisted on the Following Cases:

R-2017-2582461National Fuel Gas Distribution Corporation 1307(f)R-2016-2580030UGI Penn Natural Gas, Inc.R-2016-2531551Wellsboro Electric CompanyR-2016-2538660Community Utilities of Pennsylvania Inc.R-2016-2537359West Penn Power CompanyR-2016-2537355Pennsylvania Power CompanyR-2016-2537352Pennsylvania Electric CompanyR-2016-2537349Metropolitan Edison CompanyR-2016-2529660Columbia Gas of Pennsylvania, Inc.	R-2017-2618332	Pine-Roe Natural Gas Company
R-2016-2531551Wellsboro Electric CompanyR-2016-2531550Citizen's Electric CompanyR-2016-2538660Community Utilities of Pennsylvania Inc.R-2016-2537359West Penn Power CompanyR-2016-2537355Pennsylvania Power CompanyR-2016-2537352Pennsylvania Electric CompanyR-2016-2537349Metropolitan Edison Company	R-2017-2582461	National Fuel Gas Distribution Corporation 1307(f)
R-2016-2531550Citizen's Electric CompanyR-2016-2538660Community Utilities of Pennsylvania Inc.R-2016-2537359West Penn Power CompanyR-2016-2537355Pennsylvania Power CompanyR-2016-2537352Pennsylvania Electric CompanyR-2016-2537349Metropolitan Edison Company	R-2016-2580030	UGI Penn Natural Gas, Inc.
R-2016-2538660Community Utilities of Pennsylvania Inc.R-2016-2537359West Penn Power CompanyR-2016-2537355Pennsylvania Power CompanyR-2016-2537352Pennsylvania Electric CompanyR-2016-2537349Metropolitan Edison Company	R-2016-2531551	Wellsboro Electric Company
R-2016-2537359West Penn Power CompanyR-2016-2537355Pennsylvania Power CompanyR-2016-2537352Pennsylvania Electric CompanyR-2016-2537349Metropolitan Edison Company	R-2016-2531550	Citizen's Electric Company
R-2016-2537355Pennsylvania Power CompanyR-2016-2537352Pennsylvania Electric CompanyR-2016-2537349Metropolitan Edison Company	R-2016-2538660	Community Utilities of Pennsylvania Inc.
R-2016-2537352Pennsylvania Electric CompanyR-2016-2537349Metropolitan Edison Company	R-2016-2537359	West Penn Power Company
R-2016-2537349 Metropolitan Edison Company	R-2016-2537355	Pennsylvania Power Company
1 1 1	R-2016-2537352	Pennsylvania Electric Company
R-2016-2529660 Columbia Gas of Pennsylvania, Inc.	R-2016-2537349	Metropolitan Edison Company
	R-2016-2529660	Columbia Gas of Pennsylvania, Inc.

I&E Exhibit No. 1 Witness: Brenton Grab

PENNSYLVANIA PUBLIC UTILITY COMMISSION

v.

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

Exhibit to Accompany

the

Direct Testimony

of

Brenton Grab

Bureau of Investigation & Enforcement

Concerning:

OPERATING AND MAINTENANCE EXPENSES

TAXES

CASH WORKING CAPITAL

Pennsylvania Public Utility Commission

v.

SUEZ Water Pennsylvania, Inc.

Docket No. R-2018-3000834

Interrogatories of the Office of Consumer Advocate Set IV

> OCA-IV-33 (Heppenstall) June 6, 2018

OCA-IV-33

With reference to Exhibit CEH-2, Schedule-3, Adjustment No. 2,

- a. Please provide the medical, dental and group life insurance amounts for the historical test year.
- b. Please provide the supporting documentation showing the derivation of the FTY amounts for medical, dental and group life insurance.

Response:

- a. Please see attached workpaper OCA-IV-33 Attachment that shows 2017 and 2018 medical, dental and group life insurance expenses. However, the 2018 medical expenses on OCA-IV-33 Attachment do not include the medical, dental and group life insurance expenses for the five newly hired employees in 2018.
- b. Please see workpaper OCA-IV-33 Attachment that includes medical expenses for 2017 and 2018. The adjustment on Exhibit CEH-2, Schedule 3, Adjustment No. 2 adjusts the medical, dental, and group life insurance by the 5 employees for the FTY.

2018 Medical Expense Adjustment: 2018 Medical expense equals \$1,208,956 without the adjusted value for the new employees. The increase of \$15,112 per employee is the average of all the medical insurance plans in 2018. This average value was weighted by 84.21%, as that is the current percentage of employees of SUEZ Water PA that are covered by medical insurance. (5 employees*\$15,112*84.21%) = \$63,629

\$1,208,956 (2018 unadjusted medical insurance expense) + \$63,629 = \$1,272,585 FTY Medical Expense.

The same methodology applies for the FTY Dental and Group Life Insurance expenses.

.23% 69%

114 322

		Employer Annual	Employee				Employer Annual	Employee	Total Annual	10.0
Medical	# of ee	Rate	Annual Rate	Total Annual Cost	Medical	# of ee	Rate	Annual Rate	Cost	1
HDHP EE Only	9	68,427	1,944	70,371	HOHP EE Only	15	119,279	3,870	123,149	
HDHP EE + Spouse / DP	7	111,916	3,024	114,940	HDHP EE + Spouse / DP	5	83,624	2,580	B6,204	
HOHP EE + child(ren)	4	54,569	1,728	56,297	HDHP EE + child(ren)	4	57,048	2,064	59,112	Li 1
HOHP Family	18	410,562	11,664	422,226	HDHP Family	21	501,097	16,128	517,225	1 d
PPO EE Oniy	21	145,889	36,218	182,107	PPO EE Only	17	126,486	31,402	157,888	and a set
PPO EE + Spouse / OP	6	91,909	22,818	114,727	PPO EE + Spouse / DP	8	124,997	31,033	156,030	% pl
PPO EE + Child(ren)	5	65,649	16,298	81,947	PPO EE + Child(ren)	3	40,177	9,975	50,152	Employee
PPO Family	1.0	218,832	54,328	273,160	PPO Family	7	156,248	38,790	195,037	Covered
						SD	1,208,956			95
						Avg.	15,112			84%
		Total Annual	Employee	2 I	1.00	12-11	Total Annual	Employee		1 14
Dental	/ of ee	Cost	Annual Rate		Dental	Aofee	Cost	Annual Rate		
DMO EE Only	1	276	47	324	DMO EE Only	1	2/5	47	324	
DMO EE + Spouse / DP				-	OMO EE + Spouse / DP					
DMO EE * child(ren)					DMC EE + child(ren)			-		
DMO Family	1	813	141	954	DMO Family	t	813	141	954	
PPO EE Only	28	12,220	2,614	14,835	PPO EE Only	31	12,886	2,894	15,780	
PPO EE + Spouse / DP	16	14,573	2,803	17,376	PPO EE + Spouse / DP	16	14,625	2,803	17,428	
PPO EE + Child(ren)	8	7,668	1,402	9,069	PPO SE + Child(ren)	7	6,078	1,226	7,305	
PPO Family	32	41,131	8,897	50,008	PPO Family	31	37,929	8,619	46,548	
				1		87	72,607			99
						Avg.	835			92%
		Total Employer	Total Employee				Total Employer	Total Employee		
STD/LTD/LIFE	llofee	Cost	Cost		STD/LTD/LIFE	# of ee	Cost	Cost		
Basic STD	95	3,203		3,203	Basic STD	96	3,237		3,237	
Basic LTD	95	30,706		30,705	Basic LTD	96	28,244		28,244	
Optional I.TD	13		1,549	1,549	Optional LTD	13		1,617	1,617	% of
Basic Life 1X annual	19	2,192		2,192	Basic Life 1X annual	22	2,508		2,508	Employee
Basic Life 3 X annual	68	21,718		21,718	Basic Life 3 X annual	66	21,252		21,262	Covered
		And an and the state of the second second		and the second se		Total	55,252	1	1	
						Ave.	34 294			100%

ואב באוווטונ ואט. ו Schedule 1 Page 2 of 2

	I&E Modified Column			I&E Mo	dified Column		I	I&E Modified Column
Healthcare Group	Number of Employees	Averag	e cost of coverage	New Hir	res x Average Cost of Coverage	Employees with Coverage Percentage	- î	New Hire Cost of Coverage
Medical		4\$	15,112	\$	60,448		84%	\$ 50,
Dental		4 \$	835	\$	3,340		92%	\$ 3,
Basic STD		4 \$	34	\$	136		100%	\$
Basic LTD		4 \$	294	\$	1,176		100%	\$ 1,
Basic Life 1X Annual		4 \$	114	\$	456		23%	\$
Basic Life 3X Annual		4\$	322	\$	1,288		69%	\$
						Total		\$ 56,

BUREAU OF INVESTIGATION AND ENFORCEMENT INTERROGATORIES

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

I&E-RE-3 (Heppenstall/Hollenbach) June 11, 2018

- 1&E-RE-3 Reference SWPA Statement No. 2, p. 8 and SWPA Exhibit No. CEH-2, CEH Workpaper 2.1, concerning labor expense. Explain why Statement No. 2 indicates that the Company will hire five new employees in 2018 while Exhibit No. CEH-2, CEH Workpaper 2.1 indicates that all five employees will start on 01/01/2019.
- **Response:** SWPA Statement No. 2 page 8 and SWPA Exhibit No. CEH-2, CEH Workpaper 2.1 should be corrected to reflect that all five employees will be hired in 2019.

In addition, see the correction to John Hollenbach's direct testimony. Page 16 of Mr. Hollenbach's testimony read as follows:

Q. Have any of these positions been filled?

A. No, they are all included in the 2019 budget. The Company's goal is to commence the job search in the fourth quarter of 2019 and fill the new positions within the first quarter of 2020.

It should have read:

- Q. Have any of these positions been filled?
- A. No, they are all included in the 2019 budget. The Company's goal is to commence the job search in the fourth quarter of 2018 and fill the new positions within the first quarter of 2019.

Mr. Hollenbach's and Ms. Heppenstall's testimonies will be corrected before they are entered in to the evidentiary record.

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Pennsylvania Public Utility Commission

v.

SUEZ Water Pennsylvania, Inc.

Docket No. R-2018-3000834

Interrogatories of the Office of Consumer Advocate Set IV

> OCA-IV-47 (Heppenstall) June 6, 2018

OCA-IV-47

With reference to Exhibit CEH-2, Schedule-14, Adjustment No. 13,

- a. Please provide the 2014 and 2015 outside contractors expense and explain why a 2year average was used to determine the FTY amount.
- b. Please provide the derivation of the \$150,000 additional convenience fee.
- c. Please explain what the NRW study is, the purpose of the study and how frequent this study is required.
- d. Please explain what the inventory process study is, the purpose of the study and how frequently this study is required.

Response:

- a. The 2015 outside contractor expense was \$1,173,281. SUEZ updated the Fixed Asset Capitalization policy which broadened the definition for items that should be capitalized and not expensed due to additions, replacement, reconstructions and improvements or betterments of property, plant and equipment. This policy update in mid-2014 was reinforced throughout 2015 until the current results in outside contractors was maintained. Therefore, a two year average was used so that the average would not have been inflated due to the Fixed Asset Capitalization Policy change.
- b. Please see OCA-IV-47b Attachment for the Western Union Payment Summary for 2016 and 2017. The fees paid by SUEZ' customers to Western Union increased 57% from 2016 to 2017 and totaled \$138,236 in 2017. The Future Test Year includes an increase of 8.5% to the \$150,000 as customers continue to look for non-traditional ways to pay their monthly water invoice.
- c. The study referred to is actually a survey and not a study. The survey will consist of the Company retaining an outside vendor to survey all of SUEZ PA in a timely manner to identify potential areas in which the SUEZ PA operations will investigate the causes of the NRW and implement plans to reduce and eliminate NRW in previously unidentified areas. This is not required by any governmental agency at this time but is a prudent step to take to continue the efforts of reducing NRW in SUEZ PA.
- d. A result of the Workforce Management Study that was performed in SUEZ PA, was that the current inventory processes are insufficient to support daily and long term

Pennsylvania Public Utility Commission

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SUEZ Water Pennsylvania, Inc.

Docket No. R-2018-3000834

Interrogatories of the Office of Consumer Advocate Set IV

planning of field work. The Inventory Process project intends to hire an outside vendor to support current SUEZ personnel in making the decisions necessary to improve the inventory processes so that daily and long term planning of field work has the proper materials necessary to complete the field work without having a substantial increase in inventory levels. SUEZ PA intends to move forward with the inventory process study as part of the PUC's recommendations in the Materials Management section of the Focused Management and Operations Audit issued in 2017. SUEZ Water Pennsylvania Docket No. R-2018-3000834 I&E Exhibit No. 1 Schedule 4 Page 3 of 4 DCA-IV-476 Attachment Page 1 of 2

Western Union Speedpay - Payments Summary Actuated Date - From: 01/01/2017 To: 01/01/2018

Sde: Business Unit:	(ALL) Penneylvania (002)
Payment Type:	(ALL)
Include Convenience Pay Include Refunds.	Yas
Include Chargebacks	No
User Group	(ALL)
User: Summary by	(ALL) Payment Type
Sub Group By	(Ungrouped)

Payment Type	Payment	Payment Amount	Avg Payment Amount	Fee Count	Fee Amount	Total Amount
ACH	59,063	3 615 721 27	61.22	24,026	47 841 74	168356101
ATM	19,857	1.383 791 82	69 69	19.857	39.615 43	1 423 307 25
Cash	2,972	205,774 07	69 24	2.923	2,923 00	208 697 07
Checks	476	94.211 63	71 87	476	476 CO	34 687 63
Master Card	2,858	309,163.05	108.18	2,850	9.667 42	314 870 #7
Visa	21,001	1,522,873 72	72 51	21,001	41.791.99	1 564 665 71
Credit Card Totals	23,659	1,032,056.77	76.79	23,859	47,479,41	1,879,536.18
Grand Totals -	106,227	7,071,555.56	56.57	71,141/	138,235.58	7 209.791.14

SUEZ Water Pennsylvania Docket No. R-2018-3000634 Schedule 4 Page 4 of 4

OCA-IV-47b Attachment Page 2 of 2

United Water

Page 1 of 3

Western Union Speedpay - Payments Summary Activated Date - From: 01/01/2016 To: 01/01/2017

Site	(ALL)
Business Unit	Panneybania (002)
Payment Type	(ALL)
Include Convenience Pay	Yes
Include Refunds	No
Include Chargebacks	Ra
User Group	(ALL)
User	(ALL)
Summary by	Payment Type
Sub Group By	(bequired)

Payment Type	Payment Count	Payment Amount	Avg Payment Amount	Fee Count	Fee Amount	Total Amount
ACH	40,584	2.309 423 82	56 88	14.684	29.221 18	2 410 844 98
ATM	12,847	895 019 77	69 75	12,847	25 565 53	921,585 30
Cash	1.848	125 901 67	68 13	1.030	1 830 00	127 731 67
Checks	142	10 183 32	71.71	142	142.00	10,325 32
Master Card	2.070	176 933 30	85 48	2 070	4,119.30	181,052.60
Visa	12.447	988 349 78	73.50	13,447	26 759 63	1.015.109.31
Credit Card Totale	15,517	1,165,283.08	75.10	15,517	30,878.83	1,195,161.91
Grand Totals -	70,938	4,586,811.66	64.66	45.020	87.637.52	4,674,449,10

I&E Exhibit No. 1 Schedule 5 Page 1 of 7

BUREAU OF INVESTIGATION AND ENFORCEMENT INTERROGATORIES

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

I&E-RE-35 (Heppenstall) June 13, 2018

- 1&E-RE-35 Reference SWPA Exhibit No. CEH-2, Schedule-14, concerning outside contractors expense:
 - A. Provide a detailed breakdown including the individual contractors and the types of service performed along with supporting documentation such as invoices, workpapers, worksheets, contractor estimates, contractor agreements, etc. for the following:
 - 1. The HTY's outside contracting expense of \$748,644;
 - 2. 2016 outside contracting expense of \$729,456;
 - 3. The total NRW study expense of \$300,000;
 - 4. The total inventory process study expense of \$150,000;
 - B. Indicate if the NRW study expense and inventory process study expense will continue past the FPFTY and if the expenses will recur annually or at what frequency;
 - C. Provide a detailed breakdown and supporting documentation such as workpapers, bank statements, credit statements, etc. for the FPFTY additional convenience fees of \$150,000;
 - D. Provide the credit card transaction convenience fees for 2015, 2016, the HTY, and the FTY along with supporting documentation even if the ratepayer was paying these fees;
 - E. Provide justification for the Company's need for an NRW study;
 - F. Provide justification for the Company's need for an inventory process study;
 - G. Provide the begin and end date of the NRW study and the inventory process study;
 - Provide justification for the Company's normalization period of two years for the NRW study and the inventory process study;
 - 1. Indicate if the Company did an NRW study in the past and if so provide the following details on the most recent study done:

BUREAU OF INVESTIGATION AND ENFORCEMENT INTERROGATORIES

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

- 1. The cost of the study;
- 2. The begin and end date of the study;
- 3. The normalization period used to recover the cost of the study;
- J. Indicate if the Company did an inventory process study in the past and if so provide the following details on the most recent study done:
 - 1. The cost of the study;
 - 2. The begin and end date of the study;
 - 3. The normalization period used to recover the cost of the study;
- K. Provide a detailed breakdown of outside contractors expense by year for 2013, 2014, and 2015.

Response:

- Α.
 - 1. Please refer to I&E-RE-35 A1 Attachment.
 - 2. Please refer to I&E-RE-35 A2 Attachment.
 - 3. Please refer to OCA-IV-47c for an explanation of the NRW survey. The bids for this project are due back to the Company on June 15, 2018.
 - 4. Please refer to OCA-IV-47d for an explanation of the Inventory Process project. This project has not gone out for bids at this time, however, a meeting is scheduled in July to define what this project will entail.
- B. Both of the projects may continue into the future depending on the results achieved at the end of each study. The NRW Survey should be completed every two years until the Company achieves a NRW percentage acceptable to the PUC. Likewise, the Inventory Process project will continue to be reviewed until the Company is able to satisfactorily implement solutions related to the PUC's recommendations listed in the Materials Management section of the Focused Management and Operations Audit from 2017.
- C. Please refer to OCA-IV-47b and OCA-IV-47b attachment for these details.
- D. Please refer to OCA-IV-47b and OCA-IV-47b attachment for these details.

I&E Exhibit No. 1 Schedule 5 Page 2 of 7

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SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

- E. Please refer to the response to part B.
- F. Please refer to the response to part B.
- G. Please refer to the response to part A3 and A4
- H. Please refer to the response to part B.
- The Company has contracted Heath Consultants to completed a leak survey in the past, however, it has been more than ten years ago and those details are no longer available in our accounts payable system.
- J. The Company has not conducted an inventory process study in the past using an outside consultant, which impacted the Company's ability to obtain favorable results in the Materials Management section of the Focused Management and Operations Audit.
- K. Based on discussions between SUEZ's counsel and 1&E's counsel, it is SUEZ's understanding that, at this time, I&E has withdrawn interrogatories and requests for production of documents pertaining to 2015 and prior years.

SUEZ Water Pennsylvania Docket No. R-2018-3000834

SUEZ Water Pennsylvania

Outside Contractor List - HTY

Contractor	 Amount
ADP LLC	\$ 9,483
ALTUS GROUP US INC	\$ 3,387
BANK OF AMERICA PURCHASING CAR	\$ 34,655
BLOOMSBURG, TOWN OF	\$ 387
BOROUGH OF HUMMELSTOWN	\$ 330
BOROUGH OF MECHANICSBURG	\$ 790
CHAMPION SYSTEMS INTEGRATION L	\$ 122
COMMONWEALTH DISPOSAL INC	\$ 216,930
CONSCIENTIOUS CLEANERS	\$ 2,099
CONTROLS SERVICE & ENGINEERING	\$ 8,802
CONTROLS, SERVICE & ENGI	\$ 395
CYCLE CHEM INC	\$ 1,195
DALLACHIESA, DOUGLAS	\$ 325
DALLAS AREA MUNICIPAL AUTHORIT	\$ 830
DIAMOND AUTOMATIC SPRINKLERS I	\$ 550
DYNATECH INDUSTRIES LTD	\$ 8,847
E COMMERCE GROUP PRODUCTS INC	\$ 46,842
ECOVA INC	\$ 3,510
EDEN BROTHERS	\$ 130
EDWIN L HEIM CO	\$ 5,122
EK SERVICES INC	\$ 17
EVANS DISPOSAL LLC	\$ 420
FIRST ADVANTAGE LNS OCCUPATION	\$ 228
ISSEL'S LANDSCAPING	\$ 57,151
OUGHT'S DISPOSAL SERVICE INC	\$ 945
RANK KUS PROPERTY MAINTENANCE	\$ 17,400
SANNETT FLEMING INC	\$ 13,558
SE INTELLIGENT PLATFORMS INC	\$ 21,648
SOOD'S TREE CARE INC	\$ 3,100
SROFF TRACTOR & EQUIPMENT INC	\$ 861
АСН СО	\$ 13,761
ARRELL AUTOMATIC SPRINKLER C	\$ 3,159
IEWLETT PACKARD FINANCIAL SERV	\$ 8,790
IILBERT'S EQUIPMENT & WEL	\$ 367
IOCK ENTERPRISE	\$ 5,183
IOCK ENTERPRISES	\$ 9,657
IOWARD ORGANIZATION INC	\$ 1,943
YDRO CORP BACKFLOW PREVENTION	\$ 2,800
IYDROCORP	\$ 25,200
RTH SOLUTIONS LLC	\$ 18,613
TRON INC	\$ 12,197
A KOLVA INC	\$ 2,575
I KELLER & ASSOCIATES INC	\$ 5,037
INGSNORTH CONSULTING INC	\$ 480

I&E Exhibit No. 1 Schedule 5 Page 4 of 7 I&E-RE-35 A1 Attachment Page 1 of 2 SUEZ Water Pennsylvania Docket No. R-2018-3000834

SUEZ Water Pennsylvania

Outside Contractor List - HTY

Contractor	Amount
LOBAR ASSOCIATES INC	\$ 13,790
LOWER PAXTON TOWNSHIP AUTHORIT	\$ 620
LRM INC	\$ 840
MARION FENCE	\$ 650
MARTIN WATER CONDITIONING	\$ 362
MORGAN CORPORATION ELECTRICAL	\$ 1,800
NEW HARRISBURG TRUCK BODY CO	\$ 1,417
Out Servs, Accruals & Misc.	\$ 4,831
PENN CREDIT CORP	\$ 6,175
PENN TOWNSHIP MUNICIPAL AUTHOR	\$ 630
PENN WASTE INC	\$ 3,386
PENNSYLVANIA ONE CALL SYSTEM	\$ 32,608
PENTELEDATA LIMITED PARTNERSHIP	\$ 5,080
PIONEER CONSTRUCTION CO INC	\$ 1,323
POW-R MOLE SALES LLC	\$ 3,357
PRECISION MILLWRIGHT & FABRICATORS	\$ 1,660
PRINT-O-STAT INC	\$ 2,268
REPUBLIC WASTE SERVICES	\$ 5,172
ROGELE INC	\$ 20,300
SCOTT BLACK LANDSCAPING	\$ 7,421
SERVICE SUPPLY CORP	\$ 705
SQ *ROETING MECHANICAL	\$ 107
STERICYCLE COMMUNICATION SOLUTION	\$ 18,139
STERLING INFOSYSTEMS INC	\$ 922
SUSQUEHANNA TOWNSHIP AUTHORITY	\$ 1,642
SUSQUEHANNA FIRE EQUIPMENT CO	\$ 510
SWATARA TOWNSHIP AUTHORITY	\$ 954
TEREX SERVICES	\$ 1,680
THE HOWARD COMPANY	\$ 4,770
TOWER SERVICES UNLIMITED	\$ 680
JTILITY SERVICES GROUP INC	\$ 4,158
ECTOR SECURITY INC	\$ 27
/EOLIA ES TECHNICAL SOLUTIONS	\$ 4,864
/EOLIA NORTH AMERICA	\$ 345
/ERIZON WIRELESS	\$ 8,985
WEST INTERACTIVE SERVICES CORP	\$ 14,875
WINTER ENGINE GENERATOR SERVIC	\$ 639
NRIGHTSTONE ELECTRIC INC	\$ 688
WRIGHTSTONE ELECTRIC INC	\$ 443
Grand Total	\$ 748,644

SUEZ Water Pennsylvania Docket No. R-2018-3000834 Schedule 5 Page 6 of 7 I&E-RE-35 A2 Attachment Page 1 of 2

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SUEZ Water Pennsylvania

Outside Contractor List

Contractors	Amount
ADECCO EMPLOYMENT SERVICES	\$ 789
ADP INC	\$ 8,276
ADP LLC	\$ 11,482
ALTUS GROUP US INC	\$ 3,379
BANK OF AMERICA PURCHASING CAR	\$ 34,257
BOROUGH OF MECHANICSBURG	\$ 7,459
CHAPIN SEWAGE DISPOSAL	\$ 385
COMMONWEALTH DISPOSAL INC	\$ 192,270
CONSCIENTIOUS CLEANERS	\$ 2,507
CONTROL SYSTEMS 21	\$ 6,558
CONTROLS SERVICE & ENGINEERING	\$ 22,540
CYBULSKI, JOHN	\$ 9,229
DALLACHIESA, DOUGLAS	\$ 325
DYNATECH INDUSTRIES LTD	\$ 8,866
E COMMERCE GROUP PRODUCTS INC	\$ 41,306
ECOVA INC	\$ 886
EDEN BROTHERS	\$ 3,293
EDWIN L HEIM CO	\$ 5,855
EK SERVICES INC	\$ 3,799
FIRST ADVANTAGE LNS OCCUPATION	\$ 342
FISSEL'S LANDSCAPING	\$ 63,733
FS BRAINARD & CO	\$ 1,200
GANNETT FLEMING INC	\$ 19,599
GE INTELLIGENT PLATFORMS INC	\$ 21,637
GOOD'S TREE CARE INC	\$ 4,034
GS MADISON LLC	\$ 6,208
НАСН СО	\$ 17,241
HARRELL AUTOMATIC SPRINKLER C	\$ 550
HEWLETT PACKARD FINANCIAL SERV	\$ 23,905
HOCK ENTERPRISE	\$ 7,924
HOWARD ORGANIZATION INC	\$ 175
NGERSOLL RAND CO	\$ 650
NORGANIC MERCURY COMP - 5 GAL	\$ (18)
RTH SOLUTIONS LLC	\$ 19,382
TRON INC	\$ 45,492
A KOLVA INC	\$ 4,081
IJ KELLER & ASSOCIATES INC	\$ 6,651
COLVA SYSTEMS	\$ 580
OBAR ASSOCIATES INC	\$ 14,594
MA COMPRESSOR	\$ 319
MARION FENCE	\$ 382
MORGAN CORPORATION INC	\$ 3,653
NORTHROP GRUMMAN	\$ 3,249
Out Servs, Accruals & Misc.	\$ (7,640)

SUEZ Water Pennsylvania Docket No. R-2018-3000834 Schedule 5 Page 7 of 7 I&E-RE-35 A2 Attachment Page 2 of 2

SUEZ Water Pennsylvania

Outside Contractor List

Contractors	Amount
PENN CREDIT CORP	\$ 7,766
PENNSYLVANIA ONE CALL SYSTEM	\$ 25,323
PENTELEDATA LIMITED PARTNERSHIP	\$ 4,078
PIONEER CONSTRUCTION CO INC	\$ 7,296
POW-R MOLE SALES LLC	\$ 649
PRINT-O-STAT INC	\$ 2,300
REPUBLIC WASTE SERVICES	\$ 3,036
SCHAEDLER YESCO DISTRIBUTION	\$ 2,319
SCOTT BLACK LANDSCAPING	\$ 10,435
SILVERMINE CONSULTING	\$ 987
SOKOL INC	\$ 550
STERLING INFOSYSTEMS INC	\$ 727
SUSQUEHANNA FIRE EQUIPMENT CO	\$ 510
TELEVOX SOFTWARE INC	\$ 1,521
TEREX SERVICES	\$ 1,240
TOWER SERVICES UNLIMITED	\$ 2,540
VEOLIA ES TECHNICAL SOLUTIONS	\$ 12,671
VEOLIA NORTH AMERICA	\$ 9,059
VEOLIA WATER NORTH AMERICA	\$ 1,011
WEST INTERACTIVE SERVICES CORP	\$ 13,340
WRIGHTSTONE ELECTRIC INC	\$ 714
Grand Total	\$ 729,456

Pennsylvania Public Utility Commission

V.

SUEZ Water Pennsylvania, Inc.

Docket No. R-2018-3000834

Interrogatories of the Office of Consumer Advocate Set IV

> OCA-IV-37 (Heppenstall) June 6, 2018

OCA-IV-37

With reference to Exhibit CEH-2, Schedule-7, Adjustment No. 6,

- a. Please provide a breakdown of the purchased water expense and quantity by supplier in each of the 3 years provided.
- b. Please provide data that demonstrate that the cost of purchased water varies with inflation.
- c. Please explain how the cost of water could decrease in 2017 while consumption increased.
- d. Please provide the contract for the purchase of water from Susquehanna Area Regional Airport Authority (SARAA).
- e. Please explain the reason for the water purchase from SARAA.

Response:

- a. Please refer to OCA-IV-37a Attachment
- b. Per the attached report titled "Water and Wastewater Annual Price Escalation Rates for Selected Cities across the United States" dated September 2017, performed by the US Department of Energy, the average increase for the price of water from 2008 through 2016 was 4.1%, much higher than the inflation factors used for purchased water in the Company's filing. Therefore, adjusting this expense using inflation factors of 2.125% and 2.300% is conservative.
- c. The Cost of water decreased due to the fact that the price of the purchased water from Steelton is higher per 1,000 gallons and the Company purchased more water from Steelton in 2016 than in 2017.
- d. Please see OCA-IV-37 Part d Attachment.
- e. For the past several years the Company has not purchased water from SARAA due to their Perfluorooctanesulfonic acid (PFOS) contamination issue. SARAA is currently addressing the problem and once it's resolved, which is anticipated to be in the near future, the Company is planning to begin purchasing water from them again.

Line No.	Name of Vender (a)	Point of Delivery (b)	Service* Capacity {c}	Pressure @ Point of Delivery (d)	Quantity of Water Purch. (1,000-Gal.) (e)	Cost of Purchased Water (f)	Cost Per (1,000-Gal.) \$ (g)
1	Borough of Steelton	Kelker Street, Steelton, PA		1	Standby Fee	\$ 20,100	1 m 1 32 5
2	Borough of Steelton	Kelker Street, Steelton, PA	б"	60 psi	577	5 -	
3	AQUA PA	Hill Drive, Dallas, PA	2"	90 psi	13035	\$ 48,521	0.27
				TOTALS	13,612	\$ 68,621	0.20

2016

Line Na.	Name of Vender (a)	Point of Delivery (b)	Service* Capacity (c)	Pressure @ Point of Delivery (d)	Quantity of Water Purch. (1,000-Gal.) (e)	Cost of Purchased Water (f)	Cost Per (1,000-Gal.) \$ (g)
1	Borough of Steelton	Kelker Street, Steelton, PA		Statute Strengthere	Standby Fee	\$ 20,100	-A
2	Borough of Steelton	Kelker Street, Steelton, PA	б"	60 psì	2,387	S 1;914	1.25
3	AQUA PA	Hill Drive, Dallas, PA	2*	90 psl	10,424	\$ 48,892	0.21
4	City of Harrisburg	TGIF on Paxton Street, Harrisburg, PA	24"	100 psi	0	\$ -	1
			and the second sec	TOTALS	12,811	\$ 70,906	0.18

Line No.	Name of Vender	Point of Delivery (b)	Service* Capacity {c}	Pressure @ Point of Delivery (d)	Quantity of Water Purch, (1,000-Gaf.) (e)	Cost of Purchased Water (f)	Cost Per (1,000-Gal.) \$ (g)
1	Borough of Steelton	Kelker Street, Steelton, PA			Standby Fee	5 20,100	the second second
2	Borough of Steelton	Kelker Street, Steelton, PA	б"	60 psi	4,100	5 12,824	0.32
3	AQUA PA	Hill Drive, Dallas, PA	2 ⁿ	.90 psi	11,843	5 51,322	0.23
4	City of Harrisburg	TGIF on Paxton Street, Harrisburg, PA	24"	100 psi	255		
				TOTALS	16,208	\$ 84,245	0.19

BUREAU OF INVESTIGATION AND ENFORCEMENT INTERROGATORIES

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

I&E-RE-27 (Heppenstall) June 13, 2018

1&E-RE-27 Reference SWPA Exhibit No. CEH-2, Schedule-7, concerning purchased water expense:

- A. Provide a copy of the current Purchase Water Agreements for the Company;
- B. Provide an explanation with supporting documentation for the FTY inflationary increase of 2.125% and the FPFTY inflationary increase of 2.3% when according to the Company's history the purchased water expense has been decreasing;
- C. Provide justification and supporting documentation for purchasing an extra \$105,000 in water from the SARAA for the FPFTY. Indicate if the \$105,000 water purchase will be an annually recurring expense and provide justification;
- D. Indicate if the FPFTY water purchase of \$105,000 from the SARAA will cause the amount of water purchased from other companies or municipalities to decrease;
 - If so indicate the companies or municipalities that will experience this decrease and the amount of purchased water decrease from each of these companies or municipalities;
 - 2. Also show how these decreases are included in the Company's calculation of FPFTY claim of \$182,928.

Response:

- A. Please refer to I&E-RE-27a Attachment Steelton, I&E-RE-27a Attachment AQUAPA and I&E-RE-27a Attachment SARAA.
- B. See response to OCA-IV-37 part B.
- C. For the past several years the Company has not purchased water from SARAA due to their Perfluorooctanesulfonic acid (PFOS) contamination issue. SARAA is currently addressing the problem and once it's resolved, which is anticipated to be in the near future, the Company is planning to begin purchasing water from them again. Please see attached I&E-RE-27c Attachment for supporting documentation.
- D. No it will not cause the amount of water purchased from other companies or municipalities to decrease. SARAA is only used in conjunction with the Company's Harrisburg system.
 - 1. Not applicable
 - 2. Not applicable

BUREAU OF INVESTIGATION AND ENFORCEMENT INTERROGATORIES

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

I&E-RE-28 (Heppenstall) June 13, 2018

1&E-RE-28 Reference SWPA Exhibit No. CEH-2, Schedule-8, concerning purchased power expense:

- A. Provide a yearly breakdown of purchased power expense by metered site for 2015, 2016, the HTY, the FTY, and the FPFTY;
- B. Provide copies of the invoices/bills from January 2017 through the current date;
- C. Provide an explanation for the 5% increase in cost of purchased power from 2015 of \$1,516,207 to 2016 of \$1,589,719;
- D. Provide an explanation for the 12% decrease in the cost of purchased power from 2016 of \$1,589,719 to the HTY of \$1,404,353;
- E. Provide an explanation for the FTY inflationary increase of 2.125% and the FPFTY inflationary increase of 2.3% when according to the Company's history the purchased power expense decreased between 2016 and 2017.

Response:

- A. Please reference OCA-IV-38 Attachment for 2015, 2016, 2017 expenses. The FTY is calculated by taking a three year average (2015-2017) and adjusting for the inflationary factor of 2.125%. The FPFTY is calculated by taking the FTY expense and adjusting for the inflationary factor of 2.3%.
- B. In lieu of producing monthly invoices for over 100 sites, the Company is attaching I&E-RE-28 b which lists each vendor by month and the associated expense for 2017 through the current data available. The company invites I&E to visit the Company's administrative building where we can sign in to the third party vendor's site that maintains each of the purchased power invoices for each site to review invoices during the Company's office hours.
- C. There are many underlying reasons for increasing or decreasing purchased power expense not directly tied to production. In 2016, kWh increased 1.7% as kWh/MG increased 2.2%. Also, the cost/kWh increased 3.1% in 2016 when compared to 2015.
- D. There are many underlying reasons for increasing or decreasing purchased power expense not directly tied to production. In 2017, kWh decreased 5.1% as kWh/MG decreased 0.6%. Also, the cost/kWh decreased 6.8% in 2017 when compared to 2016.
- E. See response to OCA-IV-38 part b.

I&R-RE-28 Attachment Page 1 of 2

SUEZ Water Pennsylvania Docket No. R-2018-3000834

2017	
Vendor	
Champion Energy Services, LLC/4723	
ENGIE Resources	
Met-Ed/3687	
PPL Electric Utilities/Allentown	
UGI Utilities inc	1771771
Grand Total	

Vendor
Champion Energy Services, LLC/472
ENGIE Resources
Met-Ed/3687
PPL Electric Utilities/Allentown
UGI Utilities Inc
Grand Total

Vendor	
Champion Energy Services, LLC/4723	
ENGIE Resources	
Met-Ed/3687	10 AN 1
PPL Electric Utilities/Alientown	
UGI Utilities Inc	
Grand Total	

Vendor	
Champion Energy Services, LLC/472	
ENGIE Resources	
Met-Ed/3687	
PPL Electric Utilities/Allentown	
UGI Utilities Inc	
Grand Total	

Vendor	
Champion Energy Services, LLC/4723	
ENGIE Resources	inut-in-5
Met-Ed/3687	
PPL Electric Utilities/Allentown	
UGI Utilities Inc	
Grand Total	

Vendor		
Champion Energy Services, LLC/4723		
ENGIE Resources		
Met-Ed/3687		
PPL Electric Utilities/Allentown		
UGI Utilities Inc		
Grand Total		

Jan			
Usage	Cos	t	
	\$	56,664	
-	\$	14,294	
84,799	\$	8,255	
1,476,384	\$	35,746	
123,390	\$	22,309	
1,684,574	\$	137,269	

Ma	ar	
Usage	Cos	t
	\$	21,065
	\$	43,338
75,940	\$	7,438
1,369,153	\$	33,883
119,842	\$	19,342
1,564,935	\$	125,065

May		
Usage	Cos	t
	\$	18,851
•	\$	44,779
64,504	\$	6,173
1,297,332	\$	29,866
97,563	\$	10,899
1,459,399	\$	110,568

Ju	1	
Usage	Cos	t
	\$	19,206
-	\$	48,971
63,131	\$	5,836
1,344,289	\$	30,608
95,137	\$	10,504
1,502,558	\$	115,124

Se	p	
Usage	Cost	
Barthar Barthan	\$	17,838
-	\$	46,511
60,744	\$	5,201
1,284,423	\$	30,414
97,033	\$	10,586
1,442,200	\$	110,550

Nov		
Usage	Cos	t 1
	\$	18,637
	\$	46,443
74,904	\$	6,236
1,295,145	\$	31,705
106,063	\$	17,082
1,476,113	\$	120,103

Fe	b	
Usage	Cos	t
-	\$	19,375
	\$	40,884
68,331	\$	6,801
1,288,936	\$	32,183
110,888	\$	19,241
1,468,156	\$	118,483

Ap	٦r	
Usage	Cos	t
	\$	19,342
*	\$	41,913
65,747	\$	6,423
1,284,972	\$	31,276
101,354	\$	14,039
1,452,074	\$	112,993

Ju	n	
Usage	Cost	E
	\$	18,533
	\$	46,182
62,090	\$	5,797
1,284,416	\$	29,140
93,119	\$	10,209
1,439,625	\$	109,861

Au	g	
Usage	Cost	t
÷	\$	17,975
	\$	48,455
63,652	\$	5,720
1,326,416	\$	31,984
98,247	\$	10,655
1,488,315	\$	114,789

0	ct	
Usage	Cos	t
	\$	18,826
-	\$	48,279
61,924	\$	5,215
1,329,100	\$	33,011
109,705	\$	12,770
1,500,730	\$	118,100

De	3C	
Usage	Cost	
	\$	26,359
•	\$	49,715
78,364	5	6,734
1,436,873	\$	35,968
133,496	\$	24,919
1,648,732	\$	143,696

SUEZ Water Pennsylvania Docket No. R-2018-3000834

I&R-RE-28 Attachment Page 2 of 2

2018

Vendor

Champion Energy Services, LLC/	4723
ENGIE Resources	
Met-Ed/3687	
PPL Electric Utilities/Allentown	
UGI Utilities Inc	
Grand Total	

Vendor

Champion Energy Services, LLC/4723

PPL Electric Utilities/Allentown

ENGIE Resources Met-Ed/3687

UGI Utilities Inc Grand Total

Ja	n							
Sum of Usage	Sum of Cos							
	\$	27,829						
	\$	50,122						
78,969	\$	6,817						
1,542,439	\$	39,676						
154,161	\$	29,026						
1,775,569	\$	153,469						

Ma	17					
Sum of Usage	Sum of Cost					
-	\$	19,571				
	\$	44,172				
82,524	\$	7,268				
1,378,103	\$	33,260				
138,450	\$	25,329				
1,599,077	\$	129,699				

6,300 25,670 4,165 23,347 5,271 64,753

Fe	b	10-10-
Sum of Usage	Su	m of Cost
	\$	18,754
	\$	41,505
67,640	\$	5,913
1,323,473	\$	33,139
127,513	\$	24,020
1,518,626	\$	123,332

Ар	r	ann an an Arabana
Sum of Usage	Su	m of Cost
	\$	17,462
(#	\$	42,145
75,127	\$	6,683
1,285,438	\$	31,513
125,794	\$	21,216
1,486,359	\$	119,018

NGIE Resources Aet-Ed/3687 PL Electric Utilities/Allentown	Ma	ly.
vendor	Sum of Usage	Sum
Champion Energy Services, LLC/4723	-	\$
ENGIE Resources	-	\$
Met-Ed/3687	47,359	\$
PPL Electric Utilities/Allentown	853,835	\$
UGI Utilities Inc	35,239	\$
Grand Total	936,432	\$

n of Cost

Pennsylvania Public Utility Commission

v.

SUEZ Water Pennsylvania, Inc.

Docket No. R-2018-3000834

Interrogatories of the Office of Consumer Advocate Set IV

> OCA-IV-39 (Heppenstall) June 6, 2018

OCA-IV-39 With reference to Exhibit CEH-2, Schedule-8, Adjustment No. 7, for 2017 through the most recent date available, please provide the monthly power expense, kWh consumption and the production (MG).

Response: Please see OCA-IV-39 Attachment

	January	1	February	March	April	May		June	July	August	S	ieptember	October	1	November	December
2017							11-2220									
Power Expense	\$ 118,919	\$	141,253	\$ 130,859	\$ 96,750	\$ 112,841	\$	105,433	\$ 118,099	\$ 120,402	\$	108,343	\$ 113,336	\$	129,067	\$ 131,698
kWh Consumption	1,684,574		1,468,156	1,564,935	1,452,074	1,459,399		1,439,625	1,502,558	1,488,315		1,442,200	1,500,730		1,476,113	1,646,264
Production (MG)	533.306		472.114	500.995	490.910	 510.026		512.410	527.767	 534.640		517.814	524.163		493.804	 508.036

		January		February		March	April	_	May
2018					-				
Power Expense	5	175,391	5	144,042	\$	103,828	\$ 118,013	S	116,248
kWh Consumption		1,766,163		1,611,677		1,609,468	1,556,919	Can	1,451,448
Production (MG)		546.295		475.085		505.009	490.749		518.753

2017 Month	Purchased Power from I&E-RE-28 Part B	Purchased Power from OCA-IV-39
January	\$137,269	\$118,919
February	\$118,483	\$141,253
March	\$125,065	\$130,859
April	\$112,993	\$96,750
May	\$110,568	\$112,841
June	\$109,861	\$105,433
July	\$115,124	\$118,099
August	\$114,789	\$120,402
September	\$110,550	\$108,343
October	\$118,100	\$113,336
November	\$120,103	\$129,067
December	\$143,696	\$131,698
Total	\$1,436,601	\$1,427,000

Pennsylvania Public Utility Commission

SUEZ Water Pennsylvania, Inc.

Docket No. R-2018-3000834

Interrogatories of the Office of Consumer Advocate Set IV

> OCA-IV-38 (Heppenstall) June 6, 2018

OCA-IV-38

With reference to Exhibit CEH-2, Schedule-8, Adjustment No. 7,

- Please provide a breakdown of the purchase power expense by supplier in each of the 3 years provided.
- b. Please provide evidence that the cost of power varies with inflation.
- c. Please explain how the Company purchases power for pumping. Is the purchase based upon negotiated rates or at rates set by tariffs?

Response:

- a. Please see OCA-IV-38 Attachment. This attachment was obtained from our third party vendor, ECOVA, which manages the monthly invoicing and payments of our purchased power utilities. Therefore, the dollars and usage may not match the income statement exactly due to incoming and reversing accruals.
- b. According to the U.S. Bureau of Labor Statistics, energy experienced an average inflation rate of 3.18% per year between 2000 and 2018. Therefore, adjusting this expense using inflation factors of 2.125% and 2.300% is conservative.
- c. The purchase of power for pumping is based on negotiated rates for approximately 80% of the usage and approximately 20% based on the tariff rates of the utilities in which we purchase power.

Schedule 11 Page 2 of 2

SUEZ Water Pennsylvania Docket No. R-2018-3000834

OCA-IV-38 Attachment Page 1 of 1

2015

Vendor		Cost	Usage
Constellation NewEnergy/4640	\$	788,516	
Direct Energy Business/32179	\$	98,672	n - Salar Distance Herry-Logit 201
Met-Ed/3687	\$	83,010	778,871
PPL Electric Utilities/Allentown	\$	337,877	16,868,732
UGI Utilities Inc	\$	175,818	1,133,776
Grand Total	\$ 1	1,483,893	18,781,378

2016

Vendor	Cost		Usage
Champion Energy Services, LLC/4723	\$	394,415	
Constellation NewEnergy/4640	\$	556,149	
Met-Ed/3687	\$	83,253	835,004
PPL Electric Utilities/Allentown	\$	363,667	17,076,188
UGI Utilities Inc	\$	167,067	1,190,342
Grand Total	\$ 1	1,564,552	19,101,533

Vendor	Cos	st	Usage
Champion Energy Services, LLC/4723	\$	272,670	
ENGIE Resources	\$	519,764	
Met-Ed/3687	\$	75,828	824,131
PPL Electric Utilities/Allentown	\$	385,785	16,017,440
UGI Utilities Inc	\$	182,555	1,285,838
Grand Total	\$ 3	L,436,603	18,127,409

BUREAU OF INVESTIGATION AND ENFORCEMENT INTERROGATORIES

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

I&E-RE-7 (Heppenstall) June 13, 2018

- I&E-RE-7 Reference SWPA Exhibit No. CEH-2, Schedule-1 concerning operation and maintenance expenses. Provide similar schedules in Excel with formulas intact for each year ended 12/31/2015 and 12/31/2016.
- Response: Please see 1&E-RE-7 Attachment.

Page 2 of 2

SUEZ Water Pennsylvania Docket No. R-2018-3000834 Operation and Maintenance Expenses For the Years 2015 and 2016 I&E-RE-7 Attachment Schedule-1 Summary of Adjustments Page 1 of 1

Line No.	Account Number	Utility Operating Expenses		12-Months Ending 12/31/2016		12-Months Ending 12/31/2015
1	601.0	Labor Expense	\$	4,581,783	\$	4,662,122
2	604.0	Employee Group Health & Life		1,019,258		1,015,935
3	604.0	Employee Pension Benefits		1,411,753		1,296,903
4	604.0	Employee Post Retirement Benefits Other than Pension		(458,655)		(32,395)
5	604.0	Other Employee Benefits		218,070		231,345
6	610.0	Purchased Water		70,906		84,246
7	615.0	Purchased Power		1,466,981		1,363,806
8	616.0	Fuel for Power Production		242,225		118,514
9	618.0	Chemicals		587,150		607,875
10	620.0	Materials and Supplies		231,996		322,421
11	634.0	Management and Service Fees		4,393,722		3,238,101
12	635.0	Lab Testing Fees		69,635		71,150
13	636.0	Outside Contractors		729,456		1,173,281
14	636.0	Outside Professional Services		51,134		81,018
15	641.0	Rental - Building/Real Property		54,594		56,867
16	642.0	Rental of Equipment		42,413		35,016
17	650.0	Transportation Expense		406,263		415,044
18	657.0	Prop& Gen Liab. Insurance		5,897		262,198
19	658.0	Worker Compensation		136,030		108,651
20	660.0	Advertising				
21	666-667	Rate Case Expense - Amort		251,307		23,347
22	666-667	Regulatory Commission Expense		186,863		195,783
23	670.0	Bad Debt Expense		130,887		228,050
24	675.0	Fringe Benefit Expense Transfer		(956,856)		(264,117)
25	675.6	Office Expense and Utilities		340,334		445,262
26	675.9	Postage and Air Freight Expense		345,903		354,667
27	Various	Other O&M		246,603		(439,521)
28		Adjustments for Mahoning Twp Acquisition				
29		Total Operation and Maintenance Expenses	\$	15,805,651	\$	15,655,567
30						
31		Taxes Other Than Income				
32		Real Estate Tax				
33		Payroll		559,588		502,183
34		Taxes Other Than Income		241,323	-	429,307
35		Total Taxes Other Than Income	\$	800,911	\$	931,490
36						
37		Depreciation Expense	\$	6,068,785	\$	5,808,449
38		Amortization of Acquisition Adjustment	\$	57,744	\$	57,744
39		Amortization of Regulatory Liability				
40						
41		Income Taxes	\$	8,538,239	\$	5,607,721
42			12		12-	
43		Total	\$	31,271,330	\$	28,060,971

SUEZ WATER PENNSYLVANIA, INC.

(Company Name)

407. WATER OPERATION AND MAINTENANCE EXPENSE ACCOUNTS

				Amount of O	perating Expenses	
Line No.		Account Number and Title (a)	Schedule No. (b)	Current Year (c)	Previoas Year (d)	Increase (Decrease (e)
10.		Salaries and Wages	(0)	XXX	XXX	XXX
2	601.0	Employees	409	4,686,136	4,684,876	1,260
3	603.0	Officers, Directors and Majority Stockholders	409	4,000,130	4,004,070	1,200
4	002.0	Total Salaries and Wages	112	4,686,136	4.684.876	1,260
5	604.0	Employee Pensions and Benefits	409-A	2.514.211	2,255,510	258,700
6	610,0	Purchased Water	408	84,246	127,433	(43,187
7	615.0	Purchased Power		1,368,121	1,416,601	(48,480
8	616.0	Fuel for Power Production		[18,514]	55,963	62,551
9	618.0	Chemicals		609,051	629,186	(20,134
10	620.0	Materials and Supplies		324,181	297,793	26,389
11		Contractual Services		XXX	XXX	XXX
12	631.0	Engineering	411-A		9,516	(9,516
13	632.0	Accounting	411-A		62,014	(62,014
14	633.0	Legal	411-A		28,883	(28,883
15	634.0	Management Fees	411-13	3,238,101	2.433.828	804,273
16	635.0	Testing	411-8		103,516	(103.516
17	636.0	Other - Maintenance	411-13	1.682,936	1.433.506	249,430
18		Fotal Contractual Services		4,921,037	4,071,263	849,775
19	641.0	Rental of Building/Real Property		- minute -	72,844	(72,844
20	642.0	Rental of Equipment		91,883	25,247	66.636
21	650.0	Transportation Expenses		416.220	469,926	(53,706
12		Insurance		XXX	XXX	XXX
23	656.0	Vehicle				•
24	657.0	General Liability		262.281	268,602	(6.321
25	058.0	Workman's Compensation		108 750	1118 .4005	350
20	159.0	Unher				4
27		fotal insurance		371.037	\$77 (0)8	15 971
28	560-0	Advertising Expense - Other than Conservation	412		25,203	(† 856
24	totats (1	Regulatory Commission Expenses-Amore of Rate Case Expense		23.347	116,010	(97,663
30	14711	Regulatory Commission Expenses-Other		195,783	185-350	10,4,33
31	668.0	Water Resource Conservation Expense				
32	670.0	Bad Debi Expense		228,050	£660,Fe11	03440
33		Miscellaneous Expenses		XXX	NXX	XXX
34	675 0	Miscellaneous Other	413	(751.319)	(578,204)	(173.115
35	6751	Membership Dues	-	·	59,118	(59,118
30	1.75.2	Registration Lees for Conventions & Meetings of Industry	414		31.625	(31.625
37	675.2	Communication Services		,	200,688	1200.688
38	1075-1	Trustee Lees and Bank Charges			*	*
-		Stockholders Lypeuses			1.1. 1.1.1	
40	675.6	Office Expenses and Offices		445.512	180 184	259,329
42	675 8	Director's Lees and Expenses		57 305	72.753	(15,449
4.2	1.75 9				265.951	(263 877
1011	075 IV	Nailing Subscriptions		2.(17.1	4.955	1203 877
-	675 11	Subscriptions Write off of expenditures for prehiminary surveys, plans,		· · ·	-1 -7 -7 -	14.9.92
125		investigations etc. included in Account 183.0 - Preliminary				
		Survey and Investigation Charges, relative to projects which				······
		have been abandoned				
te.	67512	Lavel	416		25.0015	(25.645
	675-13	Education	415			3-22
	675 14	Charmable Contributions				
.1.1	4. 12	Loud Miscellaneous Expenses		(246,429)	268 763	1515,192
<11		Total Water Operation and Maintenance Expense Accounts		15,705,388	15 243 578	461 810

SUEZ WATER PENNSYLVANIA, INC.

(Company Name)

407. WATER OPERATION AND MAINTENANCE EXPENSE ACCOUNTS

		a similar a start a st		Amount of Operating Expenses					
			Schedule						
Line	5	Account Number and Title	No.	Current Year	Previous Year	Increase (Decrease			
No		(a)	(b)	(c)	(b)	(e)			
1		Salaries and Wages		XXX	XXX	XXX			
2	601.0	Employees	409	4,608,714	4,686,136	(77,423			
3	603.0	Officers, Directors and Majority Stockholders	409						
4		Total Salaries and Wages		4,608,714	4,686,136	(77.423			
5	604.0	Employce Pensions and Benefits	409-A	2,199,232	2,514,211	(314.978			
6	610.0	Purchased Water	408	70,906	84,246	(13,340)			
7	615.0	Purchased Power		1.466.981	1,368.121	98,861			
8	0.616	Fuel for Power Production		242,225	118,514	123,711			
9	618.0	Chemicals		587,819	609.051	(21.233)			
10	620.0	Materials and Supplies		235,247	324,181	(88.935			
11		Contractual Services		XXX	XXX	XXX			
12	631.0	Engineering	411-A						
13	632.0	Accounting	411-A						
14	633.0	الديما	411-A						
15	634,0	Management Fees	411-B	4,393,722	3,238,101	1,155,621			
16	035.0	Testing	411-8						
17	636.0	Other - Maintenance	411-B	1,212,699	1,682,936	(470,237)			
18		Total Contractual Services		5,606,421	4,921.037	685.384			
19	641.0	Renial of Building/Real Property							
20	642,0	Rental of Equipment		97.007	91,883	5,124			
21	650,0	Transportation Expenses		408,598	416,220	(7.623)			
22		lissurance		XXX	XXX	XXX			
23	656.0	Vehicle			,,,,,,				
24	657.0	General Liability		5,897	262.281	(256,384)			
25	658.0	Workman's Compensation		136,564	108,756	27,808			
26	659.0	Other		1500001	100,700	21,000			
27		Total Insurance		142,461	371.037	(228,576)			
28	660,0	Advertising Expense - Other than Conservation	412	192,907	571.057	(110,000)			
29		Regulatory Commission Expenses-Amort. of Rate Case Expense	411	251,307	23,347	227,960			
30	667.0	Regulatory Commission Expenses-Princit: Of Kale Case Expense Regulatory Commission Expenses-Other		186,863	195.783	(8,920)			
31	568.0	Water Resource Conservation Expense		C00,001	(43,783	(3,720)			
32	670.0			130,887	378.050	(07.171)			
33	070.0	Bed Dobt Expense		XXX	228,050 XXX	(97,163) XXX			
33 34	478.0	Missellaneous Expenses	412		the second se	the second s			
	675.0	Miscellaneous Other	413	(\$14,829)	(751,319)	(63,510)			
35	675.1	Membership Dues							
36	675.2	Registration Fees for Conventions & Moetings of Industry	414						
37	675.3	Communication Services							
38	675.4	Trustee Fees and Bank Charges							
39	675.5	Stockholders Expenses							
40	675.6	Office Expenses and Utilities		340,584	445,512	(104,927)			
41	675.7	Uniforms		104.576	57,305	47,272			
42	675.8	Director's Fees and Expenses							
43	675.9	Mailing			2,074	(2,074)			
44	675.10	Subscriptions							
45	675.11	Write off of expenditures for preliminary surveys, plans,	1						
1		investigations etc., included in Account 183.0 - Preliminary							
1		Survey and Investigation Charges, relative to projects which							
		have been abandoned.							
45	675.12	Travel	416						
47	675.13	Education	415						
48	675.14	Charitable Contributions							
49		Total Miscellaneous Expenses		(309,669)	(246,429)	(123.240)			
50		Total Water Operation and Maintenance Expense Accounts		15.864.997	15,705,388	159,609			

Schedule 13 Page 3 of 3

SUEZ WATER PENNSYLVANIA, INC.

(Company Name)

407. WATER OPERATION AND MAINTENANCE EXPENSE ACCOUNTS

			[Amo	unt of Operating Exp	enses
Line No.		Account Number and Title	Schedule No. (b)	Current Year (c)	Provious Year (d)	increase (Decrease (c)
1		Salaries and Wages		XXX	XXX	XXXX
2	601.0	Employees	409	4,529,640	4,549,369	(19,728)
3	603.0	Officers, Directors and Majority Stockholders	409			x
4	1	Total Salaries and Wages		4,529,640	4,549,369	(19,728)
5	604.0	Employee Pensions and Benefits	409-A	2,523,514	2,199,232	324,281
6	610.0	Purchased Water	408	68,621	70,906	(2,285)
7	615.0	Purchased Power		1,242,836	1,466,981	(224,145
8	616.0	Fuel for Power Production		184,165	242,225	(58,060)
9	618.0	Chemicals		\$40,832	587,819	(46,986)
10	620.0	Materials and Supplies		255,653	235,247	20,406
11		Contractual Services		XXX	XXX	XXX
12	631.0	Engineering	411-A			
13	632.0	Accounting	411-A			
14	633.0	Legal	411-A			
15	634.0	Management Fees	411-8	4,921,757	4,393,722	528,035
16	635.0	Testing	411-B			
17	636.0	Other - Maintenance	411-B	1,308,781	1,212,699	96,083
18		Total Contractual Services		6,230,538	5,606,421	624,117
19	641.0	Rental of Building/Real Property				
20	642.0	Rental of Equipment		109,505	97,007	12,498
21	650.0	Transportation Expenses		410,968	408,598	2,371
22		lassrance		XXXX	XXX	XXX
23	656.0	Vehicle				
24	657.0	: General Liability		4,732	5,897	(1.165)
25	658.0	Workman's Compensation		103,028	136,564	(33,535)
26	659.0	Other				
27		Total Insurance		107,760	142,461	(34,700)
28	660.0	Advertising Expense - Other than Conservation	412	ransuoutariu Mar	or a settion of an	
29	666.0 F	Regulatory Commission Expenses-Amort. of Rate Case Expense		140,080	251,307	(111,226)
30	667.0	Regulatory Commission Expenses-Other		199,002	186,863	12,139
31	668.0	Water Resource Conservation Expense				
32	670.0	Bad Debt Expense		155,640	130,887	24,753
33		Miscellancous Expenses		XXX	XXX	XXX
34	675.0	1 Miscellaneous Other	413	(1,024,783)	(814,829)	(209,954)
35	675.1	i Membership Dues				
36	675.2	Registration Fees for Conventions & Meetings of Industry	414	6 ₁₁ .01.00		
37	675.3	Communication Services				
38	675.4	Trastee Fees and Bank Charges	-			
39	675.5	Stockholders Expenses				
40	675.6	Office Expenses and Utilities		450,104	340,584	109,520
41	675.7	Uniforms		108,869	104,576	4,293
42	675.8	Director's Fees and Expenses	a and a state of the state of the			
43	675.9] Mailing			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
44	675,10	i Subscriptions				
45	675 .11	Write off of expenditures for preliminary surveys, plans, investigations etc., included in Account 183.0 - Preliminary Survey and Investigation Charges, relative to projects which				
46	176 13	have been abandoned.	114			
46	675.12	l Travel	416			
47	675.13	Education	412			
48 49	675,14	The second s		1248 B101	(369,669)	(96,141)
		Total Miscellaneous Expenses		(465,810)	(202,002)	427,292

BUREAU OF INVESTIGATION & ENFORCEMENT DATA REQUESTS

SUEZ WATER PENNSYLVANIA, INC.

Docket No. R-2018-3000834

I&E RE-1 (Walker, Heppenstall, Cagle) June 11, 2018

I&E-RE-17 Provide the following Suez Water Pennsylvania, Inc. (SWPA) schedules in working Excel format with all formulas intact:

- A. SWPA Exhibit No. CEH-1, Schedule-1
- B. SWPA Exhibit No. CEH-1, Schedule-1.1;
- C. SWPA Exhibit No. CEH-2, Schedule-1 through Schedule-34;
- D. SWPA Exhibit No. CEH-2, Workpaper CEH-2.1;
- E. SWPA Exhibit No. CEH-2, Workpaper CEH-2.2;
- F. SWPA Exhibit No. HW-1, Schedule-1 through Schedule-27;
- G. SWPA Exhibit No. D III-06, Attachment A;
- H. SWPA Exhibit No. D III-11, Attachment;
- I. Exhibit JCC-1.
- **Response:**

A. - E. Please refer to the Company's response to OCA-IV-24

- F. Please refer to I&E-RE-1 Attachment HW
- G. Please refer to I&E-RE-1 Attachment D-III-6 which shows the summary of Shared Services fees from SUEZ Water Management & Services (SWM&S) and a more detailed Shared Services fees schedule by SWM&S Department. Please refer to I&E-RE-1 Attachment D-III-6 A for a calculation of the depreciation expense and return component (Common Asset Allocation) charged to SWPA for common assets booked on the SWM&S Company.

In reviewing I&E-RE-1 Attachment D-III-6 A, the Company discovered that the original amount of Common Asset Allocation included in the FTY and FPFTY (\$897,647 and \$867,014 respectively) was overstated. The correct figures are shown on I&E-RE-1 Attachment D-III-6 A and amount to \$795,686 for the FTY and \$727,078 for the FPFTY.

BUREAU OF INVESTIGATION & ENFORCEMENT DATA REQUESTS

SUEZ WATER PENNSYLVANIA, INC.

Docket No. R-2018-3000834

- H. Please refer to I&E-RE-1 Attachment D-III-11
- I. Please refer to I&E-RE-1 Attachment JCC-1.

Suez Water Pennsylvania M&S Shared Services Allocation Shared Assets

		Annualize	d Amount
Line	Description	12/31/2018	12/31/2019
110.		(a)	(b)
1	Plant in Service	\$42,510,450	\$42,510,450
2	Accumulted Depreciation	13,339,436	19,356,696
3	ADIT	3,534,674	3,334,427
4	Net Rate Base	25,636,339	19,819,327
5	Pre-Tax ROR (1)	10.32%	10.32%
6	Return, Interest, and Income Taxes	2,645,670	2,045,355
7	Depreciation Expense	6,127,039	5,970,944
8	Total Annualized Amount	8,772,709	8,016,298
9	Allocation Factor	9.07%	9.07%
10	Pro forma total	795,685	727,078

(1) Calculation of Proposed Pre-tax Rate of Return:

	Capital Structure	Cost Rates	Weighted Cost Rates	
LTD	45.82%	4.65%	2.13%	2.13%
Equity	54.18%	10.75%	5.82%	8.19%
			7.95%	10.32%

9.99%
21.00%
28.89%

SUEZ Water Pennsylvania Docket No. R-2018-3000834

Date 12/31/2018

Row Labels	Sum of Current Value	Sum of Ending Reserve	Sum of ADIT	Sum of Curr Depr Expense
Computer Software - AS	335,010	146,567	8,305	6,979
Computer-Hardware	2,578,190	1,391,547	(98,946)	65,855
Computer-Software	34,947,289	10,721,574	3,687,104	411,636
Furniture	959,825	416,871	8,062	10,724
Leased property, expenditures on	3,702,002	663,275	(69,519)	15,425
Non-Utility Property	(11,865)	(399)	(332)	(33)
Grand Total	42,510,450	13,339,436	3,534,674	510,587

Date

12/31/2019

Row Labels	Sum of Current Value	Sum of Ending Reserve	Sum of ADIT	Sum of Curr Depr Expense
Computer Software - AS	335,010	230,319	14,168	6,979
Computer-Hardware	2,578,190	2,072,033	(141,557)	52,848
Computer-Software	34,947,289	15,661,203	3,541,239	411,636
Furniture	959,825	545,563	9,638	10,724
Leased property, expenditures on	3,702,002	848,375	(88,456)	15,425
Non-Utility Property	(11,865)	(798)	(604)	(33)
Grand Total	42,510,450	19,356,696	3,334,427	497,579

BUREAU OF INVESTIGATION AND ENFORCEMENT INTERROGATORIES

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

I&E-RE-58 (Heppenstall / Cagle)

1&E-RE-58

Reference Exhibit No. CEH-2, Schedule-34, concerning income taxes:

- A. Provide a detailed calculation and supporting documentation for the tax savings associated with the reduction of the federal income tax rate for the period January 1, 2018 through the date that rates are expected to become effective in this proceeding;
- B. State the amount of excess 2018 income taxes proposed to be returned to ratepayers and what mechanism the Company proposes, and over what time period;
- C. If the Company is not proposing to return any amount to ratepayers for excess collection of 2018 income taxes, explain why in detail.

Response:

- A. Please see I&E-RE-58 Attachment for a calculation of the estimated amount for the 13 months ended January 31, 2019.
- B. The Company did not make a proposal in its original filing as it had anticipated further guidance regarding this in Case M-2018-2641242. The Company has and will continue to record as a regulatory liability the effect of the change in federal income tax rate from 35% to 21% in anticipation of this amount being returned to ratepayers until such time as the change in rate is reflected in the Company's base rates. The calculation of this monthly amount is based upon the actual results of SWPA. While there are several ways to return this amount to customers, the Company would propose to amortize the \$1.7 M estimate as shown on I&E-RE-58 Attachment, over a 36 month period approximating the period between historic rate cases for SWPA. The monthly amortization would be \$47,805. Additionally, the Company would propose the amortization to the regulatory liability continue until such time as rates go into effect in the next future rate case filing and the remaining balance, either under or over amortized, would be addressed in the Company's next future rate case filing. By this process, the Company proposes to make sure that the correct amount is returned to ratepayers.
- C. N/A

Line Ma.	Description	Dec-17 Federal Income Tax <u>Current Rates</u>	Dec-17 State Proprie Tax Carport Rates	Dec-16 Federal Income Tax Current Roles	Dec/18 State Income Tax Curred Roles	Dec-18 Total Income Taxes	in	Dac-19 Federal come Tax rmit Rains	Oec-19 Stats Income Tax Current Rates	Dec-19 Total 	Dec-19 Factorial Income Tax Processed Raites	Dec-19 State Income Tax <u>Proposed Rates</u>	Dec-19 Total Income Taxes Proposed Rates
5.0 K.2	Operating Income Bofore Income Taxes Interact Expense (1) State Income Tax	\$ 20,648.526 4,465,685 1,289,182	\$ 20,648,526 4,485,685	\$ 16,897,453 4,454,044 1,086,254	\$ 15,897,453 4,485,685		45	18,692,863 5,186,994 1,086,677	\$ 18,692,663 5,185,994		1 24,675,462 5,185,994 1,704,330	\$ 24,875,462 5,185,994	
10 m	Repar Adjustment on 2018 Additions Repair Adjustment on 2019 Additions			1,467,657	1,467,857			2,222,921	2,222,921		2,222,921	2,222,921	
8	Excess Of Tax Depreciation Over Book	3,042,455	3,258,114	P1,872	282,414			506,570	717,113		505,570	717,113	
-	Taxathe Income	\$ 11.831.205	\$ 12,904,728	<u>\$ 8.807.427</u>	\$ 10.051.497		1	0.099.500	\$ 10.505.534		15,254,630	10,748,434	
4.0 9.0	Income Tax Role	35 00%	0.00%	35 00%	9,99%		141/200-1-123804233	35 00%	9.99%		35.00%	9,99%	
	Pro Forma Income Tax Current	4,140 922	\$,289,182	3 432,599	1,065,084			3,391,325	1,055,507		5,339,123	1,673,169	
13	CTA Adjustment Amortization of Flow through Taxes Amortization of bicome Tax Credit			38,123	31,170			39, 123	31,170		30,123	31,170	
枪	Total - Current income Taxes	5 4,140,922	\$ 1,289,182	3 3,470,722	\$ 1,096,254		5	3.429.448	\$ 1,005.677		5 5317.245	1.764.339	
17 18 19 20	Defensed income Tax: Repair Adjustment Less: Brase Deduction (Fr. Sch.6-6) Income Yax Rute Defensed Income Tax - Repair Adjustment			\$ 1,467,857 			-	2,222,821 35,00% 778,022			2,222,921 		
21 22 23 24	Excess Of Tax Depreciation Over Book Less: Stale Deferred Income Tax Income Tax Fate Deferret Income Tax - Tax/Book Deprec.			\$ 71,872 <u>36.00%</u>			5	505,570 35.00%	5.69%		\$ 505,570 35,009	9.09%	
14 14 1,5	Total Deterred income Tax (L20+L24)			28,158 536,905	A Company and the second secon			<u> </u>			177,300 955,322		
29	Total Industria Taxon (L10+L25)	1 4,140,922	5 1,269,182	\$ 4,009,627	5 1098254	\$ 5,105,681		4.384,770	\$ 1,080,677	5 5,471,447	\$ 6,332,568	\$ 1,704,339	\$ 8,036,906
	Acquisitosri												
27 28	Rote Base Weighted Cost Of Debt	\$ 190,763,193 2.13%	\$ 190,763,193 2,13%	\$ 209,048,221 2,13%	\$ 209,048,221 2,13%		5	241,448,860 2,12%	\$ 243,448,960 2,12%		5 243,448,860 2,139		
29	interest Expense (1)	\$ 4,064,458	\$ 4,064,458	<u>\$ 4.455.044</u>	\$ 4.454.04A	1	5	5,105,994	\$ 5,100,004		5 6.105.004	\$ 5165,994	
	Total Income Taxes (Line 26) Original Filling Difference		12 Months 1 Months 13 Months 13 Months (36 Months)	2,421,025 1,928,502 1,32,393 1,720,985 47,805	1,098,254		142.1	2.646.111 1,738,659		<u>8</u> % & \$	\$ 3,814,790 2,517,778		

BUREAU OF INVESTIGATION AND ENFORCEMENT INTERROGATORIES

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

I&E-RE-24 (Cagle) June 22, 2018

- **I&E-RE-24** Reference SWPA Exhibit JCC-1, concerning accumulated deferred income tax and excess deferred income tax regulatory liability.
 - A. Provide similar exhibits for the FTY and the FPFTY in Excel format with formulas intact;
 - B. In reference to Part A clearly specify a breakdown between ADIT and excess ADIT by year for the FTY and the FPFTY;
 - C. Show how the \$265,189 claimed on line 29 is being calculated;
 - D. Provide justification with supporting documentation for using a 40-year amortization period for the excess deferred income tax regulatory liability.

Response:

- A. Exhibit JCC-1 is the calculation of the regulatory liability as a result of the passage of the TCJA and does not change over time. Exhibits for FTY and FPFTY would be identical to Exhibit JCC-1. As stated in testimony, currently the Company is reviewing in detail its income tax records in order to verify the balance of the regulatory liability subject to continued normalization (protected) as well as those that are not (unprotected). The review is also determining amounts subject to ARAM amortization of RSG amortization.
- B. Please see the response to A above.
- C. This amount is the TCJA regulatory liability balance divided by 38.
- D. The calculation for this estimate is simply Net Plant in Service as of 12/31/2017 divided by 2017 Depreciation Expense. \$270,634,313 / \$7,361,991 = 36.76. This exact amount was not utilized as the required amortization amounts by year have not been determined as yet.

Í SUMMARY OF CASH WORKING CAPITAL REQUIREMENTS BASED ON LEAD-LAG STUDY FOR THE TWELVE MONTHS ENDING DECEMBER 31, 2017

I&E MODIFIED

Ulility Operating Expenses	Revenue Days	Expense Days	Net (Lead) Lag Days	Expense Claim 12-Months Ending 12/31/2017	12-Months Ending 12/31/2017 CWC	Expense Claim Future Test Year 12/31/2018	Future Test Year 12/31/2018 CWC	Expense Claim Fully Projected Year Under Present Rates 12/31/2019	Fully Projected Year Under Present Rates 12/31/2019 CWC	Expense Claim Fully Projected Future Test Year Under Proposed Rates 12/31/2019	Fully Projected Future Test Year Under Proposed Rates 12/31/2019 CWC
Labor ExpenseI&E MODIFIED	33.3	13.4	19.9	\$ 4,579,937	\$ 249,701	\$ 5,311,453	\$ 289,583	\$ 5,458,942	\$ 297,625	\$ 5,413,703	\$ 295,158
Employee Group Health & Life-I&E MODIFIED	33.3	12.7	20.6	1,323,689	74,707	1,407,156	79,418	1,439,521	81,244	957,035	54,013
Employee Pension Benefits-I&E MODIFIED	33.3	57.4	(24.1)	1,425,022	(94,091)	1,409,589	(93,071		(95,212)	A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	(63,944)
Purchased WaterI&E MODIFIED	33.3	15.4	17.9	68,621	3,365	76,176	3,736		8,971	74,591	3,658
Purchased PowerI&E MODIFIED	33.3	27.0	6.3	1,242,836	21,452	1,535,374	26,501	1,570,688	27,111	1,357,874	23,437
Fuel for Power Production	33.3	36.7	(3.4)	184,165	(1,716)	23,163	(216	23,696	(221)	23,696	(221)
Chemicals	33.3	25.1	8.2	540,682	12,147	586,048	13,166	599,527	13,469	599,527	13,469
Materials and Supplies	33.3	10,5	22.8	254,476	15,896	277,066	17,307	283,439	17,705	283,439	17,705
Management and Service Fees-I&E MODIFIEI	33.3	14,7	18_6	4,921,757	250,807	5,289,281	269,536	5,359,497	273,114	4,492,483	228,932
Lab Testing Fees	33.3	15.5	17.8	114,698	5,594	81,888	3,993	83,542	4,074	83,542	4,074
Outside ContractorsI&E Modified	33.3	28.7	4_6	748,644	9,435	979,755	12,348	1,147,114	14,457	922,114	11,621
Outside Professional Services	33.3	49.7	(16.4)	64,321	(2,890)	66,660	(2,995) 68,193	(3,064)	68,193	(3,064)
Rental - Building/Real Property	33.3	(14.7)	48_0	60,330	7,934	60,476	7,953	60,476	7,953	60,476	7,953
Rental of Equipment	33.3	(5.1)	38.4	49,175	5,173	50,220	5,283	51,375	5,405	51,375	5,405
Transportation Expense	33.3	31.0	2.3	407,033	2,565	463,897	2,923	560,322	3,531	560,322	3,531
Prop& Gen Liab. Insurance	33.3	(59.6)	92,9	4,732	1,204	4,832	1,230	4,935	1,256	4,935	1,256
Worker Compensation I&E MODIFIED	33.3	13.7	19_6	102,384	5,498	108,228	5,812	110,717	5,945	74,358	3,993
Regulatory Commission Expense	33.3	(77.0)	110.3	198,665	60,035	219,880	66,446	238,664	72,122	270,077	81,615
Office Expense and Ulilities	33.3	4.0	29.3	446,337	35,829	419,541	33,678	540,894	43,420	540,894	43,420
Postage and Air Freight Expense	33.3	30.1	3.2	354,308	3,106	358,563	3,144	366,358	3,212	366,358	3,212
Other O&M	33.3	13.8	19.5	143,806	7,683	199,353	10,650	203,938	10,895	203,938	10,895
Real Estale Tax-I&E MODIFIED	33.3	(26.9)	60.2	270,553	44,623	311,025	51,298	318,178	52,478	304,553	50,230
Payroll - I&E MODIFIED	33.3	18.6	14.7	560,626	22,579	618,438	24,907	650,213	26,187	433,034	17,440
Federal Income Taxes	33.3	37.0	(3.7)	5,168,780	(52,396)	2,420,415	(24,536) 2,645,730	(26,820	3,814,409	(38,667)
State Income Taxes	33.3	28.8	4.6	1,663,801	20,741	1,096,254	13,666	1,086,476	13,544	1,704,138	21,243
Total					\$ 708,981		\$ 821,760		\$ 858,401		\$ 796,364

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION	:	
V.	:	Docket No. R-2018-3000770
SUEZ WATER PENNSYLVANIA, INC.	:	

WITNESS VERIFICATION THE BUREAU OF INVESTIGATION AND ENFORCEMENT

I, D. C. Patel, on behalf of the Bureau of Investigation and Enforcement, hereby verify that the documents preliminarily identified as:

I&E Statement No. 2, and, I&E Exhibit No. 2

were prepared by me or under my direct supervision and control. Furthermore, the facts contained therein are true and correct to the best of my knowledge, information and belief and I expect to be able to prove the same at an Evidentiary Hearing in this matter. This Verification is made subject to the penalties of 18 Pa. C.S. § 4904 relating to unsworn falsification to authorities.

Pennsylvania Public Utility Commission Bureau of Investigation and Enforcement

Dated: September 7, 2018

I&E Statement No. 2 Witness: D. C. Patel

PENNSYLVANIA PUBLIC UTILITY COMMISSION

v.

SUEZ WATER PENNSYLVANIA, INC.

Docket Nos. R-2018-3000834

Direct Testimony

of

D. C. Patel

Bureau of Investigation & Enforcement

Concerning:

Rate of Return

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1 INTRODUCTION OF WITNESS

2	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
3	A.	My name is D. C. Patel. My business address is Pennsylvania Public Utility
4		Commission, P.O. Box 3265, Harrisburg, PA 17105-3265.
5		
6	Q.	BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
7		I am employed by the Pennsylvania Public Utility Commission (Commission) in
8		the Bureau of Investigation & Enforcement (I&E) as a Fixed Utility Financial
9		Analyst.
10		
11	Q.	WHAT IS YOUR EDUCATIONAL AND EMPLOYMENT
12		BACKGROUND?
13	А.	An outline of my education and employment background is set forth in the
14		attached Appendix A.
15		
16	Q.	PLEASE DESCRIBE THE ROLE OF I&E IN RATE PROCEEDINGS.
17	A.	I&E is responsible for representing the public interest in proceedings before the
18		Commission. I&E's analysis in this proceeding is based on its responsibility to
19		represent the public interest. This responsibility requires the balancing of the
20		interests of ratepayers, the regulated utility, and the regulated community as a
21		whole.

1	Q.	WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY?
2	A.	The purpose of my direct testimony is to address the claimed rate of return,
3		including the cost of common equity, and the overall fair rate of return for Suez
4		Water Pennsylvania, Inc. (Suez or Company).
5		
6	Q.	DOES YOUR TESTIMONY INCLUDE AN EXHIBIT?
7	А.	Yes. I&E Exhibit No. 2 contains schedules that support my direct testimony.
8		
9	BAC	KGROUND
10	Q.	WHAT IS THE GENERAL DEFINITION OF RATE OF RETURN (ROR)
11		IN THE CONTEXT OF A RATE CASE?
12	A.	Rate of return is the amount of revenue an investment generates in the form of net
13		income and is usually expressed as a percentage of the amount of capital invested
14		over a given period of time. Rate of return is one of the components of the
15		revenue requirement formula.
16		
17	Q.	WHAT IS THE REVENUE REQUIREMENT FORMULA?
18	A.	The revenue requirement formula used in base rate cases is as follows:
19		$RR = E + D + T + (RB \times ROR)$
20		Where:
21		RR = Revenue Requirement
22		E = Operating Expenses

1		D = Depreciation Expense
2		T = Taxes
3		RB = Rate Base
4		ROR = Overall Rate of Return
5		In the above formula, the rate of return is expressed as a percentage. The
6		calculation of that rate is independent of the determination of the appropriate rate
7		base value for ratemaking purposes. As such, the appropriate total dollar return is
8		dependent upon the proper computation of the rate of return and the proper
9		valuation of a company's rate base.
10		
11	Q.	WHAT CONSTITUTES A FAIR AND REASONABLE OVERALL RATE
11	Q.	WHAT CONSTITUTES A FAIR AND REASONABLE OVERALL RATE
11	Q.	OF RETURN?
	Q. A.	
12	-	OF RETURN?
12 13	-	OF RETURN? A fair and reasonable overall rate of return is one that will allow the utility an
12 13 14	-	OF RETURN? A fair and reasonable overall rate of return is one that will allow the utility an opportunity to recover costs prudently incurred for all classes of capital used to
12 13 14 15	-	OF RETURN? A fair and reasonable overall rate of return is one that will allow the utility an opportunity to recover costs prudently incurred for all classes of capital used to finance the rate base during the prospective period in which its rates will be in
12 13 14 15 16	-	OF RETURN? A fair and reasonable overall rate of return is one that will allow the utility an opportunity to recover costs prudently incurred for all classes of capital used to finance the rate base during the prospective period in which its rates will be in effect.
12 13 14 15 16 17	-	OF RETURN? A fair and reasonable overall rate of return is one that will allow the utility an opportunity to recover costs prudently incurred for all classes of capital used to finance the rate base during the prospective period in which its rates will be in effect. The <i>Bluefield Water Works & Improvements Co. v. Public Service Comm.</i>
12 13 14 15 16 17 18	-	OF RETURN? A fair and reasonable overall rate of return is one that will allow the utility an opportunity to recover costs prudently incurred for all classes of capital used to finance the rate base during the prospective period in which its rates will be in effect. The Bluefield Water Works & Improvements Co. v. Public Service Comm. of West Virginia, 262 U.S. 679, 692-93 (1923), and the FPC v. Hope Natural

1		1. A utility is entitled to a return similar to that being earned by other
2		enterprises with corresponding risks and uncertainties, but not as high as
3		those earned by highly profitable or speculative ventures;
4		2. A utility is entitled to a return level reasonably sufficient to assure financial
5		soundness;
6		3. A utility is entitled to a return sufficient to maintain and support its credit and
7		raise necessary capital; and
8		4. A fair return can change (increase or decrease) along with economic
9		conditions and capital markets.
10		
11	Q.	EXPLAIN HOW THE OVERALL RATE OF RETURN IS
12		TRADITIONALLY CALCULATED IN BASE RATE PROCEEDINGS.
13	A.	In base rate proceedings, the overall rate of return is traditionally calculated using
14		the weighted average cost of capital method. To calculate the weighted average
15		
		cost of capital, a company's capital structure must first be determined by
16		
16 17		cost of capital, a company's capital structure must first be determined by
		cost of capital, a company's capital structure must first be determined by comparing the percentage of each capitalization component to the total capital,
17		cost of capital, a company's capital structure must first be determined by comparing the percentage of each capitalization component to the total capital, which has financed the rate base. In this case, the capital components consist of
17 18		cost of capital, a company's capital structure must first be determined by comparing the percentage of each capitalization component to the total capital, which has financed the rate base. In this case, the capital components consist of long-term debt and common equity. Next, the effective rate of cost for each
17 18 19		cost of capital, a company's capital structure must first be determined by comparing the percentage of each capitalization component to the total capital, which has financed the rate base. In this case, the capital components consist of long-term debt and common equity. Next, the effective rate of cost for each component of capital structure must be determined. The historical component of
17 18 19 20		cost of capital, a company's capital structure must first be determined by comparing the percentage of each capitalization component to the total capital, which has financed the rate base. In this case, the capital components consist of long-term debt and common equity. Next, the effective rate of cost for each component of capital structure must be determined. The historical component of the cost rate of debt can be computed accurately and any future debt issuances are

1	this testimony. Next, each capital structure component percentage is multiplied by
2	the corresponding effective cost rate to determine the weighted cost rate of each
3	component of the capital structure. The I&E table below demonstrates the
4	interaction of each component of the capital structure and its corresponding
5	effective cost rate. Finally, the sum of the weighted cost rates of capital
6	components produces the overall rate of return. This overall rate of return is
7	multiplied by the rate base to determine the return portion of a company's revenue
8	requirement.

10 I&E POSITION

.

Q. SUMMARIZE YOUR RATE OF RETURN RECOMMENDATION IN THIS PROCEEDING.

13 A. I recommend the following overall rate of return for Suez:

14

Type of Capital	Ratio	Cost Rate	Weighted Cost
Long-Term Debt	45.82%	4.65%	2.13%
Common Equity	54.18%	9.13%	4.95%
Total	100.00%		7.08%

1 COMPANY POSITION

2 Q. SUMMARIZE THE COMPANY'S RATE OF RETURN CLAIM IN THIS

- 3 CASE.
- 4 A. The Company's witness, Dylan W. D'Ascendis, has recommended the following
- 5 overall rate of return range (Suez Statement No. 5, p. 3):
- 6

Type of Capital	Ratio	Cost Rate	Weighted Cost Rate
Long-Term Debt	45.82%	4.65%	2.13%
Common Equity	54.18%	10.40% - 11.50%	5.63% - 6.23%
Total	100.00%		7.76% - 8.36%

7 In the filing, the Company claimed an overall rate of return of 7.95% in its

8 revenue requirement calculation for the fully projected future test year (FPFTY)

ending December 31, 2019 as shown in the table below (Suez Exhibit CEH-1,

10 Schedule 1.2):

11

9

Type of Capital	Ratio	Cost Rate	Weighted Cost Rate
Long-Term Debt	45.82%	4.65%	2.13%
Common Equity	54.18%	10.75%	5.82%
Total	100.00%		7.95%

12

13 PROXY GROUP

14 Q. WHAT IS A PROXY GROUP AS USED IN BASE RATE CASES?

- 15 A. A proxy group is a group of companies that acts as a benchmark for determining
- 16 the subject utility's rate of return in a base rate case.

1 **Q**.

WHAT ARE THE REASONS FOR USING A PROXY GROUP?

A. A proxy group is used as a benchmark to satisfy the long-established guideline of
utility regulation that seeks to provide the subject utility with an opportunity to
earn a return equal to that of similar risk enterprises.

5 A proxy group is typically utilized since the use of data exclusively from 6 one company may be less reliable than using data from a group of companies. The 7 lower reliability occurs because the data for one company may be subject to events 8 that can cause short-term anomalies in the marketplace. The rate of return on 9 common equity for a single company could become distorted and would therefore 10 not be representative of similarly situated companies. The use of a proxy group 11 has the effect of smoothing out potential anomalies associated with a single 12 company.

13

14 Q. WHAT CRITERIA DID YOU USE IN SELECTING YOUR PROXY 15 GROUP COMPANIES?

- 16 A. To select a proxy group that resembles the water utility industry, I used the17 following criteria:
- 18
 1. 50% or more of the company's revenues must be generated from the water
 utility industry;
- 20 2. The company's stock must be publicly traded;
- 3. Investment information for the company must be available from more than
 one source; and

1		4. The company must not be currently involved in an announced merger or
2		targeted in an acquisition.
3		
4	Q.	WHAT PROXY GROUP DID YOU USE IN YOUR ANALYSIS?
5	A.	I have selected six regulated water companies in my proxy group: American Water
6		Works Company, Inc., American States Water Co., California Water Service
7		Group, Middlesex Water Co., Aqua America, Inc., and York Water Company
8		(I&E Exhibit No. 2, Schedule 1).
9		
10	Q.	WHAT PROXY GROUP DID MR. D'ASCENDIS USE IN HIS ANALYSIS?
11	A.	Mr. D'Ascendis created two proxy groups: regulated and unregulated. His
12		regulated proxy group contains companies in the Water Utility Industry.
13		Mr. D'Ascendis selected the second group containing non-price regulated
14		companies engaged in various industries.
15		
16	Q.	WHAT COMPANIES DID MR. D'ASCENDIS USE IN HIS REGULATED
17		PROXY GROUP ANALYSIS?
18	A.	Mr. D'Acendis' regulated proxy group consists of the same companies as my
19		utility proxy group (Suez Statement No. 5, p. 11).
20		
21	Q.	WHAT IS MR. D'ASCENDIS' BASIS FOR ALSO USING AN
22		UNREGULATED PROXY GROUP?

1	А.	Mr. D'Ascendis states that the U.S. Supreme Court in the Hope and Bluefield
2		cases did not specify that comparable risk companies had to be utilities. He claims
3		that as rate regulation is a substitute for competition in the marketplace, non-price
4		regulated firms operating in the competitive marketplace make an excellent proxy
5		if they are comparable in total risk to the utility proxy group being used to
6		estimate the cost of common equity (Suez Statement No. 5, p. 31, ln. 5-10).
7		
8	Q.	WHAT CRITERIA DID MR. D'ASCENDIS USE IN SELECTING HIS
9		UNREGULATED PROXY GROUP COMPANIES?
10	A.	Mr. D'Ascendis used the following criteria when selecting his unregulated proxy
11		group:
12		1. The company must be covered by the Value Line Investment Survey
13		(Standard Edition);
14		2. The company must be a domestic, non-price regulated company, i.e., non-
15		utility;
16		3. The company's beta must lie within plus or minus two standard deviations
17		of the average unadjusted beta of the utility proxy group; and
18		4. The residual standard errors of the Value Line regressions which gave rise
19		to the unadjusted beta coefficients must lie within plus or minus two
20		standard deviations of the average residual standard error of the regulated
21		utility proxy group (Suez Statement No. 5, p. 31, lines 23-24 and p. 32,
22		lines 1-6).

Q. WHAT COMPANIES DID MR. D'ASCENDIS USE IN HIS

A. Mr. D'Ascendis selected 17 companies in his unregulated proxy group (Suez
Statement No. 5, Exhibit 5, Schedule DWD 6, p. 3) engaged in various industries,
such as restaurants (Cheesecake Factory), medical services (DaVita), industrial
services (ABM Ind.), brokerage (CBOE), and retail automotive (AutoZone) (I&E
Exhibit No. 2, Schedule 2).

8

9 Q. DO YOU AGREE WITH MR. D'ASCENDIS' USE OF AN

10 UNREGULATED PROXY GROUP?

- A. No. Although Mr. D'Ascendis' unregulated proxy group may have betas that are
 similar to his water group, it is not an acceptable proxy group for Suez.
- 13 Mr. D'Ascendis' unregulated group defies the principles of the *Hope* and *Bluefield*
- 14 cases because the selected companies are not from the water utility industry and
- 15 therefore face different risks, they are not natural monopolies and can be

16 significantly more profitable.

17

18 Q. WHY SHOULD THE COMPANIES OF A PROXY GROUP OPERATE IN 19 THE SAME INDUSTRY AS SUEZ?

A. Proxy groups are used to provide market data for companies that are not publicly
traded. Since each industry faces different types of industry-specific risk, a proxy
group must contain companies in the same industry as the Company for the

1		estimated return to be accurate. Mr. D'Ascendis has chosen companies for his
2		unregulated proxy group from different industries such as retail automotive,
3		broker/exchange, restaurant, food processing, hotel, medical services, insurance,
4		industrial services, information services, medical supplies, and the household
5		products industry. All these industries deal in different products or services and,
6		therefore, face different challenges. Further, the selected company from each of
7		the industry groups is not necessarily representative of its specific industry group.
8		Each industry has its own industry-specific risk profile, so comparing the results
9		of a diversified industry proxy group with the water utility proxy group is not fair
10		and reasonable.
11		
12	Q.	DOES MR. D'ASCENDIS' INCLUSION OF A CRITERION THAT THE
12 13	Q.	DOES MR. D'ASCENDIS' INCLUSION OF A CRITERION THAT THE BETA COEEFICIENTS BE WITHIN TWO STANDARD DEVIATIONS OF
	Q.	
13	Q.	BETA COEEFICIENTS BE WITHIN TWO STANDARD DEVIATIONS OF
13 14	Q. A.	BETA COEEFICIENTS BE WITHIN TWO STANDARD DEVIATIONS OF THE AVERAGE UNADJUSTED BETA OF A REGULATED UTILITY
13 14 15	-	BETA COEEFICIENTS BE WITHIN TWO STANDARD DEVIATIONS OF THE AVERAGE UNADJUSTED BETA OF A REGULATED UTILITY PROXY GROUP ALLEVIATE YOUR CONCERN?
13 14 15 16	-	BETA COEEFICIENTS BE WITHIN TWO STANDARD DEVIATIONS OF THE AVERAGE UNADJUSTED BETA OF A REGULATED UTILITY PROXY GROUP ALLEVIATE YOUR CONCERN? No. Each industry faces different risks, which dramatically affect the future
13 14 15 16 17	-	BETA COEEFICIENTS BE WITHIN TWO STANDARD DEVIATIONS OF THE AVERAGE UNADJUSTED BETA OF A REGULATED UTILITY PROXY GROUP ALLEVIATE YOUR CONCERN? No. Each industry faces different risks, which dramatically affect the future growth or decline of the companies within that industry. Although, the beta can
13 14 15 16 17 18	-	BETA COEEFICIENTS BE WITHIN TWO STANDARD DEVIATIONS OF THE AVERAGE UNADJUSTED BETA OF A REGULATED UTILITY PROXY GROUP ALLEVIATE YOUR CONCERN? No. Each industry faces different risks, which dramatically affect the future growth or decline of the companies within that industry. Although, the beta can indicate market risk, two companies with similar betas do not always face the
13 14 15 16 17 18 19	-	BETA COEEFICIENTS BE WITHIN TWO STANDARD DEVIATIONS OF THE AVERAGE UNADJUSTED BETA OF A REGULATED UTILITY PROXY GROUP ALLEVIATE YOUR CONCERN? No. Each industry faces different risks, which dramatically affect the future growth or decline of the companies within that industry. Although, the beta can indicate market risk, two companies with similar betas do not always face the same type or level of risk in the future. Beta is an indicator of volatility or how
 13 14 15 16 17 18 19 20 	-	BETA COEEFICIENTS BE WITHIN TWO STANDARD DEVIATIONS OF THE AVERAGE UNADJUSTED BETA OF A REGULATED UTILITY PROXY GROUP ALLEVIATE YOUR CONCERN? No. Each industry faces different risks, which dramatically affect the future growth or decline of the companies within that industry. Although, the beta can indicate market risk, two companies with similar betas do not always face the same type or level of risk in the future. Beta is an indicator of volatility or how each company responds when compared with the market as a whole. A beta of

1		beta close to that of his water group (Suez Exhibit No. 5, Schedule DWD-6, p. 3)
2		does not mean that the companies face the same risks or will perform the same in
3		the future.
4		
5	<u>CAI</u>	PITAL STRUCTURE
6	Q.	WHAT IS THE COMPANY'S CLAIMED CAPITAL STRUCTURE?
7	А.	The Company has claimed a capital structure of 45.82% long-term debt and
8		54.18% common equity for the FPFTY ending December 31, 2019 (Suez
9		Statement No. 5, p. 9 and Suez Exhibit No. 5, Schedule DWD-1, p. 1).
10		
11	Q.	WHAT IS THE BASIS FOR THE COMPANY'S CLAIMED CAPITAL
12		STRUCTURE?
13	A.	Mr. D'Ascendis states that his recommended capital structure is based on the
14		January 31, 2018 actual capital structure of Suez Water Resources, the parent
15		company of Suez (Suez Statement No. 5, p. 9).
16		
17	Q.	DO YOU AGREE WITH THE COMPANY'S CLAIMED CAPITAL
18		STRUCTURE?
19	A.	Yes.
20		
21	Q.	WHAT IS THE BASIS FOR YOUR RECOMMENDATION TO USE THE
22		COMPANY'S CLAIMED CAPITAL STRUCTURE?

1	A.	The Company's capital structure is appropriate for this proceeding as it is similar
2		to the range of capital structures of my proxy group. For the past five years, the
3		average capital structure of my proxy group ranged from 39.14% to 53.20% for
4		long-term debt and 46.80% to 60.12% for common equity. The average capital
5		structure of my proxy group companies for the past five years was 44.63% long-
6		term debt and 55.25% common equity (I&E Exhibit No. 2, Schedule 1).
7		
8	COS	T RATE OF LONG-TERM DEBT
9	Q.	WHAT IS THE COMPANY'S CLAIMED COST RATE OF LONG-TERM
10		DEBT?
11	А.	Mr. D'Ascendis uses a debt cost rate of 4.65% based on the actual long-term debt
12		cost rate of Suez Water Resources as of January 31, 2018 (Suez Statement No. 5,
13		p. 10 and Suez Exhibit No. 5, Schedule DWD-1, p. 1).
14		
15	Q.	DO YOU AGREE WITH THE CLAIMED COST RATE OF LONG-TERM
16		DEBT?
17	A.	Yes. I agree with the Company's long-term debt cost rate of 4.65% because it is
18		reasonable as it lies within the range of implied cost rates of my proxy group of
19		3.96% to 7.04% (I&E Exhibit No. 2, Schedule 3).

1 COST OF COMMON EQUITY

2 <u>COMMON METHODS</u>

3 Q. WHAT METHODS ARE COMMONLY PROPOSED TO DETERMINE 4 THE COST OF COMMON EQUITY?

- A. There are four methods commonly proposed to estimate the cost of common
 equity: the Discounted Cash Flow (DCF), the Capital Asset Pricing Model
 (CAPM), the Risk Premium (RP), and the Comparable Earnings (CE) method.
- 8

9 Q. WHAT IS THE THEORETICAL BASIS FOR THE DCF METHOD?

A. The theoretical basis for the DCF method is the "dividend discount model" of
financial theory, which maintains that the value (price) of any security or
commodity is discounted to the present value of all future cash flows. The DCF
method assumes that investors evaluate stocks in the classical economic
framework, which maintains that the value of a financial asset is determined by its
earning power, or its ability to generate future cash flows.

16

17 Q. WHAT IS THE THEORETICAL BASIS FOR THE CAPM?

18 A. The CAPM describes the relationship of a stock's investment risk and its market 19 rate of return. The CAPM identifies the rate of return investors expect so that the 20 return is comparable with returns of other stocks of similar risk. The method 21 hypothesizes that the investor-required return on a company's stock is equal to the 22 return on a "risk free" asset plus an equity premium reflecting the company's

1	investment risk. In the CAPM, two types of risk are associated with a stock: firm-
2	specific risk (unsystematic risk) and market risk (systematic risk) which is
3	measured by a firm's beta. The CAPM only allows for investors to receive a
4	return for bearing systematic risk. Unsystematic risk is assumed to be diversified
5	away and does not earn a return.

7 Q. WHAT IS THE THEORETICAL BASIS FOR THE RP METHOD?

8 A. The theoretical basis for the RP method attempts to measure the relative risk 9 between stocks and bonds and is a simplified version of the CAPM. The RP 10 method's theory is that common stock is riskier than debt and as a result, investors 11 require a higher expected return on stocks than bonds. In the risk premium 12 approach, the cost of equity is made up of the cost of debt and a risk premium. While the CAPM uses the market risk premium, it also directly measures the 13 systematic risk of the company through the use of beta. The RP method does not 14 15 measure the specific risk of the company.

16

17 Q. WHAT IS THE THEORETICAL BASIS FOR THE CE METHOD?

A. The CE method utilizes the concept of opportunity cost. This means that investors
will likely dedicate their capital to the investment offering the highest return with
similar risk to alternative investments. Unlike the DCF, CAPM, and the RP
methods, the CE method is not market-based and relies upon historic financial

- performance data. The most problematic issue with the CE method is determining
 what constitutes comparable companies.
- 3

4 Q. IN THIS PROCEEDING, WHAT METHODS DO YOU RECOMMEND TO 5 DETERMINE THE COST OF COMMON EQUITY?

- A. I recommend using the DCF method as the primary method to determine the cost
 of common equity and using the results of the CAPM as a comparison to the DCF
 results.
- 9

10 Q. PLEASE EXPLAIN WHY YOU CHOSE TO USE THE DCF AS THE 11 PRIMARY METHOD IN YOUR ANALYSIS.

12 I have used the DCF as the primary method for a variety of reasons. The DCF is A. intuitively appealing to investors since it is based upon the concept that the receipt 13 14 of dividends in addition to expected appreciation is the total return requirement 15 determined by the market. The use of a growth rate and expected dividend yield 16 are also strengths of the DCF as they allow it to recognize the time value of money 17 and enable the DCF to be forward-looking. The use of the utilities' own stock 18 prices and growth rates in the calculation causes the DCF to be company-specific. 19 The DCF method is the superior method for determining the rate of return for the 20 current economic market because it measures the cost of equity directly. The 21 CAPM and RP do not measure the cost of equity directly but instead measure the 22 relationship between a security's investment risk and its market rate of return.

Q. WHY HAVE YOU INCLUDED A CAPM ANALYSIS?

2 A. I have included the CAPM analysis as a comparison to the results of the DCF to 3 confirm the reasonableness of the DCF results. I have chosen both the CAPM and 4 the DCF because they include inputs that allow the results to be specific to the 5 utility industry. However, the CAPM is far less responsive to changes in the 6 industry than the DCF. The CAPM is based on the performance of U.S. Treasury 7 bonds and the performance of the market as measured through the S&P 500 and is 8 company-specific only through the use of beta. Beta reflects a stock's volatility 9 relative to the overall market thereby incorporating an industry-specific aspect to 10 the CAPM but only as a measure of how reactive an industry is compared to the 11 market. Although, changes in the utility industry are more likely to be accurately 12 reflected in the DCF as it uses the companies' actual prices, dividends, and growth 13 rates, I have included the results of my CAPM analysis because changes in the 14 market, whether as a whole or specific to the utility industry, affect the outcome of 15 each method in different ways.

16 Out of the four commonly proposed methods identified above, other than 17 the DCF, the CAPM should be used as the second method. Like the DCF, the 18 CAPM is based on the concept of risk and return, is company-specific through the 19 use of beta, which has widespread use in the financial investment community, and 20 it is forward-looking. Although the CAPM is more company-specific than the RP 21 method, there are several disadvantages to using the CAPM, which is why it 22 should not be used as a primary method.

Q. EXPLAIN THE CAPM'S DISADVANTAGES.

2 A. The relevancy of the CAPM (and therefore, the RP method) does not carry over 3 from the investment decision-making process into the regulatory process. The 4 CAPM and RP method give results that indicate to an investor what the equity cost 5 rate should be if current economic and regulatory conditions are the same as those 6 present during the historical period in which the risk premiums were determined. 7 Although, the CAPM and RP results can be useful to investors in making rational 8 buy and sell decisions within their portfolios, the DCF method is the superior 9 method for determining the rate of return for the current economic market and 10 measuring the cost of equity directly. The CAPM and the RP method are less 11 reliable indicators because they measure the cost of equity indirectly and risk 12 premiums vary depending on the debt and equity being compared. Also, 13 regulators can never be certain that economic and regulatory conditions underlying 14 the historical period during which the risk premiums were calculated are the same 15 today or will be the same in the future.

16

Q. CAN THE RESULTS OF THE CAPM AND RP METHOD BE AFFECTED BY THE FACT THAT ECONOMIC AND REGULATORY CONDITIONS TODAY CAN BE AND ARE OFTEN DIFFERENT FROM THE HISTORICAL PERIOD?

1	A.	Yes. The CAPM and the RP methods do not measure the current rate of return on
2		common equity directly. Instead, the CAPM and the RP method determine the
3		rate of return on common equity indirectly by observing the cost of debt.
4		An implicit assumption when using the CAPM and the RP method is that
5		the variables determining the equity cost rate and debt cost rate are the same,
6		which allows the analyst to apply a constant risk premium (the difference between
7		the risk-free rate and the return on the market). However, the variables
8		determining the cost rates in the two markets affect the cost rates differently,
9		leading to a changing risk premium over time. The use of a constant risk premium
10		fails to capture the effect of changing economic conditions on risk premiums over
11		time.
12		While a historical risk premium is the result of the comparison of two cost
13		rates over time, the DCF's constant growth rate is derived directly from the stock
14		and is not a comparative factor.
15		
16	Q.	IS THERE ANY ACADEMIC EVIDENCE THAT QUESTIONS THE
17		CREDIBILITY OF THE CAPM MODEL?
18	A.	Yes. The article, "Market Place; A Study Shakes Confidence In the Volatile-
19		Stock Theory," which appeared in the New York Times on February 18, 1992,
20		summarized a CAPM study conducted by professors Eugene F. Fama and
21		Kenneth R. French (Berg, Eric N. "Market Place; A Study Shakes Confidence In
22		the Volatile-Stock Theory" The New York Times, Feb 1992: nytimes.com

1		Web. 23 Mar 2016). Their study examined the importance of beta, CAPM's risk
2		factor, in explaining returns on common stock. In CAPM theory, a stock with a
3		higher beta should have a higher expected return. They found that the model did
4		not do well in predicting actual returns and suggested the use of more elaborate
5		multi-factor models.
6		A more recent article, "The Capital Asset Pricing Model: Theory and
7		Evidence," which appeared in the Journal of Economic Perspectives states that:
8 9 10 11 12 13		"The attraction of the CAPM is that it offers powerful and intuitively pleasing predictions about how to measure risk and the relation between expected return and risk. Unfortunately, the empirical record of the model is poor, poor enough to invalidate the way it is used in applications,"
14		(Fama, Eugene F. and French, Kenneth R., "The Capital Asset Pricing Model:
15		Theory and Evidence." Journal of Economic Perspectives (2004): Volume 18,
16		Number 3, pp. 25-46).
17		As a result, I conclude that the CAPM's relevance to the investment decision
18		making process does not carry over into the regulatory rate setting process.
19		
20	Q.	EXPLAIN WHY YOU HAVE CHOSEN TO EXCLUDE THE RP METHOD
21		IN YOUR ANALYSIS.
22	A.	The RP method is excluded because it is a simplified version of the CAPM and, in
23		addition to being subject to the same faults listed above, the RP method does not
24		recognize company-specific risk through beta.

Q. EXPLAIN WHY YOU HAVE CHOSEN TO EXCLUDE THE CE METHOD IN YOUR ANALYSIS.

- A. The CE method is excluded because choosing the companies that are comparable
 is subjective, and it is debatable whether historic financial performance or
 accounting values are representative of the future. Moreover, the usage of only
 historic data in this regulatory forum has been minimal.
- 7

8 <u>SUMMARY OF COMPANY'S RESULTS</u>

9 Q. WHAT ARE THE RESULTS OF THE COMPANY'S COST OF EQUITY 10 ANALYSES?

11 A. Mr. D'Ascendis testifies that in analyzing the Company's cost of equity, he 12 applied three cost of common equity models, specifically, the DCF, the RP, and 13 the CAPM to the market data of his proxy group of six water companies and his 14 non-price regulated proxy group. In addition to the non-traditional versions of the 15 RP and CAPM, Mr. D'Ascendis also employs the Predictive Risk Premium 16 Method (PRPM) (which is included under the title of the RP Method) and the 17 Empirical Capital Asset Pricing Model (ECAPM) (which is included under the 18 title of the CAPM). Mr. D'Ascendis applies these models using his proxy group 19 of regulated water utilities. Similarly, he applies these models to his non-price 20 regulated proxy group and averages the mean and median results of these models. 21 He then lists the results for each method for the regulated utility group and the

- 1 average of the median and mean of the results of the three methods for the non-
- 2 price regulated group as shown in table below:
- 3

Method	Cost of
	Common Equity
Utility Proxy Group:	
DCF	9.10%
Risk Premium	12.12%
CAPM	11.31%
Non-Price Regulated Companies	12.63%
(Average of mean and median of three methods)	

Next, Mr. D'Ascendis chooses an indicated range for the common equity
cost rate from 10.20% to 11.30% for the Company. Finally, he recommends that
his cost of common equity be increased by 20 basis points (0.20%) to reflect
Suez's greater business risk based on its smaller size as compared with members
of the utility proxy group, which results in a final recommended adjusted cost of
common equity range from 10.40% to 11.50% (Suez Statement No. 5, p. 4 and
Suez Exhibit No. 5, Schedule DWD-1, p. 3).

11

12 I&E RECOMMENDATION

13 Q. WHAT IS YOUR RECOMMENDATION FOR THE APPROPRIATE COST

- 14 **OF COMMON EQUITY IN THIS PROCEEDING?**
- 15 A. Based upon my analysis, I recommend a cost of common equity of 9.13% as
- 16 shown in the table below:

Type of Capital	Ratio	Cost Rate	Weighted Cost
Long-Term Debt	45.82%	4.65%	2.13%
Common Equity	54.18%	9.13%	4.95%
Total	100.00%		7.08%

1

3 Q. WHAT IS THE BASIS FOR YOUR RECOMMENDATION?

4	A.	I arrived at common equity return of 9.13% using the DCF method. As explained
5		below, I used my CAPM results of 10.48% (forecasted) and 9.36% (historical)
6		only to present to the Commission a comparison to my DCF results. My DCF
7		analysis employed a spot dividend yield, a 52-week dividend yield, and earnings
8		growth forecasts.

9

10 **DISCOUNTED CASH FLOW**

11 Q. PLEASE EXPLAIN YOUR DCF ANALYSIS.

- 12 A. My analysis employs the standard discrete DCF model as portrayed in the13 following formula:
- 14 $K = D_1/P_0 + g$

15 Where:

16	Κ	=	Cost of equity
17	D_1	=	Dividend expected during the year
18	\mathbf{P}_{0}	=	Current price of the stock
19	g	=	Expected growth rate of dividends

1		When a forecast of D_1 is not available, D_0 (the current dividend) must be adjusted
2		by one-half of the expected growth rate to account for changes in the dividend
3		paid in period one. As forecasts for each company in my proxy group were
4		available from Value Line, no dividends were adjusted in my analysis.
5		
6	Q.	PLEASE EXPLAIN HOW YOU DEVELOPED THE DIVIDEND YIELDS
7		USED IN YOUR DCF ANALYSIS.
8	A.	A representative dividend yield must be calculated over a time frame that avoids
9		the problems of both short-term anomalies and stale data series. For the purpose
10		of my DCF analysis, the dividend yield calculation places equal emphasis on the
11		most recent spot and the 52-week average dividend yields. The following table
12		summarizes my dividend yield computations for the proxy group (I&E Exhibit
13		No. 2, Schedule 4, p. 1):

Six Water Company Proxy Group	Dividend Yield
Spot Dividend Yield	2.26%
52-week Average Dividend Yield	2.29%
Average	2.28%

15

16 Q. WHAT INFORMATION DID YOU RELY UPON TO DETERMINE YOUR

- 17 **EXPECTED GROWTH RATE?**
- 18 A. I examined the earnings growth forecasts and used five-year projected growth rate
 19 estimates from Value Line, Yahoo! Finance, Zacks, and Morningstar.

1 Q. WHAT WERE THE RESULTS OF YOUR FORECASTED EARNINGS

2 **GROWTH RATES**?

- 3 A. The following table presents the expected growth rates for the six water companies
- 4 proxy group (I&E Exhibit No. 2, Schedule 4, p. 2):

5

Utility Company	Average Growth Rate
American Water Works	8.00%
American States Water Co.	5.17%
California Water Service Group	9.65%
Middlesex Water Co.	5.35%
Aqua America Inc.	6.00%
York Water Company	6.95%
Average	6.85%

6

7 Q. DO YOU HAVE ANY ADDITIONAL COMMENTS ON THE RESULTS OF

8 THE FIVE-YEAR PROJECTED GROWTH RATES?

- 9 A. Yes. While these five-year projected growth rates can be used in analyses, one
- 10 must be aware that analysts' estimates may be biased. This bias has been
- 11 observed in literature.

1 Q. PLEASE EXPLAIN.

2 A. An article authored by Professors Ciciretti, Dwyer, and Hasan in 2009 observed 3 strong evidence of earnings forecasts being higher than actual earnings.¹ In the 4 spring of 2010, McKinsey on Finance presented an article reporting that after a 5 decade of stricter regulation, analysts' forecasts are still overly optimistic. The 6 article demonstrates that at twelve months out, earnings estimates exceed actual earnings while a one-month forecast is closer to the actual result.² Thus, my return 7 8 on equity recommendation is more than adequate as it is based upon growth rates 9 that are already upwardly biased.

10

11 Q. WHAT IS THE RESULT OF YOUR DISCOUNTED CASH FLOW

12 ANALYSIS BASED ON YOUR RECOMMENDED DIVIDEND YIELDS 13 AND GROWTH RATES?

A. The result of my DCF analysis is 9.13% and is calculated as follows (I&E Exhibit
No. 2, Schedule 4, p. 3):

$$\frac{K}{9.13\%} = \frac{D_1/P_0}{2.28\%} + \frac{g}{6.85\%}$$

¹ Ciciretti, Rocco; Dwyer, Gerald R; and Iftekhan Hasan. "Investment Analysts' Forecasts of Earnings" <u>Federal</u> <u>Reserve Bank of St. Louis Review</u>, September/October 2009, 91 (5, part 2) pp. 545-67.

² Goedhart, Marc J; Raj, Rishi; and Abhishek Saxena. "Equity analyst: Still too bullish" <u>McKinsey On Finance</u> Number 35 Spring 2010, pp. 14-17.

CAPITAL ASSET PRICING MODEL

2	Q.	PLEASE EXPLAIN YOUR CAPM ANALYSIS.
3	A.	My analysis employs the standard CAPM as portrayed in the following formula:
4		$K = R_f + \beta(R_m - R_f)$
5		Where:
6		K = Cost of equity
7		R_f = Risk-free rate of return
8		R_m = Expected rate of return on the overall stock
9		β = Beta measures the systematic risk of an asset
10		
11	Q.	WHAT IS BETA AS EMPLOYED IN YOUR CAPM ANALYSIS?
12	А.	Beta is a measure of volatility or the systematic risk of a stock in relation to the
13		rest of the stock market. A stock's beta is estimated by calculating the linear
14		regression of a stock's return against the return on the overall stock market. The
15		beta of a stock with a price pattern identical to that of the overall stock market will
16		have a beta of one. A stock with a price movement that is greater than the overall
17		stock market will have a beta that is greater than one and would be described as
18		having more investment risk than the market. Conversely, a stock with a price
19		movement that is less than the overall stock market will have a beta of less than
20		one and would be described as having less investment risk than the market.

1	Q.	WHAT BETA DID YOU CHOOSE FOR YOUR CAPM ANALYSIS?
2	A.	In estimating an equity cost rate for my proxy group of six water utilities, I used
3		the average of the betas for the companies as provided in the Value Line
4		Investment Survey. The average beta for the proxy group is 0.74, which indicates
5		that water utilities are less volatile than the overall stock market (I&E Exhibit
6		No. 2, Schedule 5).
7		
8	Q.	WHAT TIME PERIOD HAVE YOU CHOSEN FOR YOUR CAPM
9		ANALYSIS?
10	А.	I calculated both a historical and a forecasted CAPM. My historical CAPM uses a
11		risk-free rate and a market risk premium calculated over the 65 years that
12		information on the 10-year Treasury Note is available.
13		
14	Q.	WHAT RISK-FREE RATE OF RETURN HAVE YOU CHOSEN FOR
15		YOUR HISTORICAL CAPM ANALYSIS?
16	A.	For my historical CAPM analysis, I have chosen to use the risk-free rate of return
17		(R_f) from the projected yield on 10-year Treasury Notes. While the yield on the
18		short-term T-Bill is a more theoretically correct parameter to represent a risk-free
19		yield, this yield can be extremely volatile. The volatility of short-term T-Bills is
20		directly influenced by Federal Reserve policy. At the other extreme, the 30-year
21		Treasury Bond yield exhibits more stability but is not risk-free. Long-term
22		Treasury Bonds have substantial maturity risk associated with market risk and the

1		risk of unexpected inflation. Long-term treasuries normally offer higher yields to
2		compensate investors for these risks. For these reasons, I chose to use the yield on
3		the 10-year Treasury Note because it balances the shortcomings of the other
4		alternative. The historical geometric average for the yield on the 10-year Treasury
5		Note is 5.21% (I&E Exhibit No. 2, Schedule 6).
6		
7	Q.	HOW DID YOU DETERMINE THE HISTORICAL RETURN ON THE
8		OVERALL STOCK MARKET EMPLOYED IN YOUR HISTORIC CAPM
9		ANALYSIS?
10	А.	I used a historical return for the S&P Composite Index as a benchmark for the
11		expected return on the overall stock market. The geometric average for the
12		historical return of the S&P Composite index is 10.80% (I&E Exhibit No. 2,
13		Schedule 6).
14		
15	Q.	WHY HAVE YOU USED THE GEOMETRIC MEAN TO CALCULATE
16		THE HISTORICAL RETURN ON THE MARKET AND THE
17		HISTORICAL RISK-FREE RATE?
18	A.	The geometric mean is appropriate in the calculation of the historical CAPM as it
19		normalizes the returns or yields, and thus measures the change over of more than
20		one period. The arithmetic average is more susceptible to being influenced by
21		outliers and, therefore, is not as good of a representation of the central tendency of
22		a set of numbers. I have chosen to use the geometric mean to calculate a historical

return and risk-free rate because I am calculating a historical CAPM. For the
historical performance of the market to be a valid representation of the future, a
geometric mean should be calculated to minimize the effect of any years that
deviated from normal years. The arithmetic mean is influenced by any outliers in
the data set and, therefore, would not be a better representation of the volatility of
returns than it is of historical performance.

One of the difficulties of calculating the CAPM is that the risk premium is 7 8 measured by the difference between the return on the market and the risk-free rate, 9 and since the return on the market and the risk-free rate do not always change in 10 the same direction or by the same percent, the risk premium itself is not constant 11 over time. When measuring a historical risk premium, these volatilities and, therefore, the potential inaccuracies of the CAPM are accentuated by the use of the 12 13 arithmetic mean. The geometric mean more accurately represents the typical 14 value and, therefore, is a better representation of the historical market risk 15 premium, because it is not as influenced by fluctuation in the market as the 16 arithmetic average.

17

18 Q. WHAT RISK-FREE RATE OF RETURN HAVE YOU CHOSEN FOR 19 YOUR FORECASTED CAPM ANALYSIS?

A. The yield on the 10-year Treasury Note is expected to range between 3.10% and
3.50% from the third quarter of 2018 through the third quarter of 2019 and is
forecasted to be 3.60% from 2019 to 2023. For my forecasted CAPM analysis, I

1		chose 3.35%, which is the average of all the yields I observed (I&E Exhibit No. 2,
2		Schedule 7, p. 2).
3		
4	Q.	HOW DID YOU DETERMINE THE RETURN ON THE OVERALL
5		STOCK MARKET EMPLOYED IN YOUR FORECASTED CAPM
6		ANALYSIS?
7	A.	To arrive at a representative expected return on the overall stock market, I
8		observed Value Line's 1700 stocks and the S&P 500. As shown on I&E Exhibit
9		No. 2, Schedule 7, p. 3, Value Line expects its universe of 1700 stocks to have an
10		average yearly return of 11.83% over the next three to five years, based on a
11		forecasted dividend yield of 2.10% and three to five years' index appreciation of
12		45%. The S&P 500 index is expected to have an average yearly return of 14.10%
13		over the next five years, based upon Barron's forecasted dividend yield of 1.98%
14		and Yahoo's expected increase in the S&P 500 index of 12.00% (I&E Exhibit
15		No. 2, Schedule 7, p. 3).
16		
17	Q.	WHAT ARE THE EXPECTED RETURNS ON THE OVERALL STOCK
18		MARKET BASED ON YOUR FORECASTED AND HISTORICAL
19		ANALYSES?
20	А.	The expected returns on the overall market are 10.80% (I&E Exhibit No. 2,
21		Schedule 6) for my historical analysis and 12.97% (I&E Exhibit No. 2,
22		Schedule 7, p. 3) for my forecasted analysis.

1	Q.	WHAT ARE THE COST OF	FEQUITY RESULTS FR	OM YOUR
2		FORECASTED AND HISTO	ORICAL CAPM ANALY	SES?
3	A.	The results of these two analys	es are as follows (I&E Exh	ibit No. 2, Schedule 6
4		and Schedule 7, p. 1):		
5				
		C	CAPM Cost of Equity	
		Historical	9.36%	
		Forecasted	10.48%	
6				
7				
8	<u>CRI</u>	TIQUE OF THE COMPANY'S	S COST OF EQUITY CL	AIM
9	Q.	DO YOU AGREE WITH MI	R. D'ASCENDIS' PROPO)SED COST OF
10		EQUITY?		
11	A.	No. Mr. D'Ascendis' claimed	cost of equity is overstated	for several reasons.
12		First, by using the results of his	S DCF, CAPM, RP, PRPM	, and ECAPM methods
13		in presenting his final recomme	endation, Mr. D'Ascendis g	gives undue weight to his
14		CAPM, RP, PRPM, and ECAP	M, which is neither valid n	or representative of
15		previous Commission methodo	logy. As previously discus	ssed, Mr. D'Ascendis'
16		use of an unregulated proxy gro	oup compounds this issue.	
17		In addition, Mr. D'Asce	ndis uses an improper risk-	free rate and incorrectly
18		adds 20 basis points (0.20%) to	his recommended cost of	equity range to account

- for the difference between the size of Suez and that of the companies in his proxy
 group.
- 3

4 WEIGHTS GIVEN TO METHODS

5 Q. WHAT IS THE BASIS OF MR. D'ASCENDIS' USE OF MULTIPLE 6 MODELS?

A. Mr. D'Ascendis claims that the use of multiple models "adds reliability and
accuracy when arriving at a recommended common equity cost rate" (Suez
Statement No. 5, p. 5, lines 16-18).

10

11 Q. DO YOU AGREE WITH THE COMPANY'S RELIANCE ON THE CAPM 12 AND RP?

No. While I am not opposed to using the CAPM results as a comparison to the 13 A. results of the DCF calculation, it is inappropriate to give the CAPM and RP 14 models comparable weight as I have discussed previously. The CAPM measures 15 16 the cost of equity indirectly and can be manipulated by the time period, risk-free 17 rate, and measure of the market that is chosen. Since the RP model is a simplified 18 version of the CAPM, it suffers these same flaws and is not company-specific. As discussed below, the results of the lesser-used ECAPM and PRPM models should 19 similarly be rejected. I have not used the ECAPM because it only weights the 20 results of the CAPM in order to flatten the Security Market Line, but it does not 21 correct the previously discussed problems with the CAPM. I have not used 22

1		Mr. D'Ascendis' PRPM, because it is not a widely accepted method and investors
2		must have a statistical software package to use the PRPM.
3		In addition, a recent Commission Order relied primarily on the DCF and
4		rejected giving equal weight to the other methodologies:
5 6 7 8 9 10 11 12 13 14 15 16		[T]he City's cost of equity in this proceeding should be based upon the use of the DCF methodology, with the other methodology results used as a check on the reasonableness of the DCF results. We note that we have primarily relied upon the DCF methodology in arriving at previous determinations of the proper cost of equity and utilized the results of methods other than the DCF, such as the CAPM and RP methods, as a check upon the reasonableness of the DCF derived equity return calculation, tempered by informed judgement. We are not persuaded by the arguments of the City that we should assign equal weight to the multiple methodologies. ³
17		PREDICTIVE RISK PREMIUM MODEL
18	Q.	WHAT IS THE PREDICTIVE RISK PREMIUM MODEL?
19	А.	The PRPM is a method published in August 2011 by Pauline M. Ahern, Frank J.
20		Hanley, and Richard A. Michelfelder in the article New Approach to Estimating
21		the Cost of Common Equity Capital for Public Utilities. ⁴ Mr. D'Ascendis' PRPM
22		requires Eviews [©] statistical software to compute (Suez Statement No. 5, p. 17,
23		lines 10-11).

 ³ Pennsylvania Public Utility Commission v. City of DuBois – Bureau of Water, Docket No. R-2016-2554150, pp. 96-97, Order entered March 28, 2017.
 ⁴ Ahern, Pauline M., Hanley, Frank J., Michelfelder, Richard A. (December 2011, Volume 40, Issue 3). New

⁴ Ahern, Pauline M., Hanley, Frank J., Michelfelder, Richard A. (December 2011, Volume 40, Issue 3). *New Approach to Estimating the Cost of Common Equity Capital for Public Utilities*. Journal of Regulatory Economics, pp. 261-278.

1	Q.	DO YOU AGREE WITH MR. D'ASCENDIS' USE OF THE PRPM?
2	A.	No. The PRPM is not a commonly used method and cannot be evaluated or
3		recreated without the software. I am unaware of any state that has accepted the
4		use of the PRPM. The PRPM does not solve the problem of the RP method
5		because it is still an indirect measure of the cost of equity, and the PRPM
6		complicates the RP method with the introduction of a measurement that requires
7		the use of specialized software.
8		
9		EMPIRICAL CAPITAL ASSET PRICING MODEL
10	Q.	WHAT IS THE BASIS OF MR. D'ASCENDIS' CLAIM FOR USE OF THE
11		ECAPM?
12	А.	Mr. D'Ascendis claims that the Security Market Line (SML) defined by the
13		CAPM is not as steeply sloped as the predicted SML. Mr. D'Ascendis uses a
14		formula to account for the systematic risk that is not accounted for with beta in the
15		CAPM formula. This methodology, called ECAPM, uses a factor, alpha, to
16		account for the additional systematic risk not captured by beta.
17		
18	Q.	DO YOU AGREE WITH MR. D'ASCENDIS' USE OF THE ECAPM?
19	А.	No. Although some studies indicate that the CAPM does not properly define the
20		SML, the degree to which the CAPM would require adjustment varies widely and
21		is dependent on the inputs used to determine the difference between the SML and
22		actual historical figures. I was unable to find the value of alpha Mr. D'Ascendis

1	has chosen to use to adjust the SML in either Suez Statement No. 5 or his Exhibit.
2	The ECAPM attempts to add a factor (alpha) to "correct" the perceived
3	underestimation of the cost of capital for betas lower than one, but as identified in
4	New Regulatory Finance by Roger A. Morin, estimations for alpha range
5	from -9.61% to 13.56%. ⁵ This large range demonstrates the difficulty of
6	accurately and precisely measuring the difference between what the CAPM is
7	estimating and the actual results. The use of the ECAPM in estimating the cost of
8	capital does not increase the validity of the result but merely adds another difficult
9	to measure factor to the CAPM. The CAPM attempts to measure a variable that
10	changes; the difference between a risk-free rate and the market rate is not a
11	constant factor. The ECAPM attempts to correct the CAPM's inability to
12	accurately predict the cost of capital but does so through an additional factor that
13	corrects none of the underlying problems of the model.
14	

15 **<u>RISK-FREE RATE</u>**

16 Q. HOW HAS MR. D'ASCENDIS CALCULATED HIS RISK-FREE RATE 17 USED IN HIS RP AND CAPM MODELS?

A. Mr. D'Ascendis calculated his risk-free rate similar to my calculation; however, he
used the 30-year Treasury Bond yield whereas I used 10-year Treasury Note yield.
Also, where I used a future data point accounting for 2019-2023 predictions,

21 Mr. D'Ascendis used two future data points accounting for 2019-2023 and 2024-

⁵ Morin, Roger A. (2006). New Regulatory Finance. Vienna, VA: Public Utilities Reports, Inc.

1	2028 (Suez Statement No. 5, p. 28, ln. 6-9 and Suez Exhibit No. 5, Schedule
2	DWD-5, p. 2).

4 Q. WHY IS MR. D'ASCENDIS' METHOD INCORRECT?

A. As stated earlier, long-term Treasury Bonds have substantial maturity risk
associated with the market risk and the risk of unexpected inflation and normally
offer higher yields to compensate investors for these risks. Using the 10-year
Treasury Note is more appropriate to balance the short-term volatility risk and the
long-term inflation risk.

Further, the use of a 30-year Treasury Bond yield projection for an additional period of 2024-2028 is an unreliable measure and should not be included in determining the risk-free rate. The Company's FPFTY year ends December 31, 2019, and therefore in my opinion using an estimated risk-free rate that is five to nine years beyond the test year is unnecessary.

15

16

BUSINESS RISK ADJUSTMENT

17 Q. WHAT IS MR. D'ASCENDIS' BUSINESS RISK ADJUSTMENT?

A. Mr. D'Ascendis' 20 basis points (0.20%) adjustment is based on the claim that the
Company has a greater relative business risk than the average company in his
proxy group due to its smaller size. Mr. D'Ascendis states that empirical evidence
supporting the size effect is often based on studies of industries beyond regulated
utilities but notes that "utility analysts" have noted risk associated with small

1		market capitalizations (Suez Statement No. 5, p. 35, lines 2-5). He quotes an
2		article by Michael Annin published in Public Utilities Fortnightly, October 15,
3		1995 that implies the need for a higher investor return due to additional business
4		obstacles (Suez Statement No. 5, p. 35, ln. 8).
5		
6	Q.	DO YOU AGREE WITH MR. D'ASCENDIS' CLAIM THAT THE
7		COMPANY'S SIZE WARRANTS A BUSINESS RISK ADJUSTMENT?
8	А.	No. Mr. D'Ascendis' risk adjustment is based solely on the size of the Company.
9		Although, there is technical literature supporting adjustments relating to the size of
10		a company, this literature is not specific to the utility industry. Even the Public
11		Utilities Fortnightly article referenced by Mr. D'Ascendis depends upon the New
12		York Stock Exchange and makes no attempt to differentiate between the public
13		utility industry and the universe of publicly traded stocks. Additionally, Mr.
14		D'Ascendis has not shown that the Company's size has in any way hampered it
15		from accessing capital markets in the past.
16		
17	Q.	IS THERE ANY ACADEMIC EVIDENCE THAT SUPPORTS THE LACK
18		OF VALIDITY OF A SIZE OR RISK ADJUSTMENT FOR UTILITY
19		COMPANIES?
20	A.	Yes. An article by Dr. Annie Wong, "Utility Stocks and the Size Effect: An
21		Empirical Analysis," from the Journal of Midwest Finance Association in 1993,
22		pp. 95-101, concludes that:

1 2 3 4 5 6 7 8 9 10		The objective of this study is to examine if the size effect exists in the utility industry. After controlling for equity values, there is some weak evidence that firm size is a missing factor from the CAPM for the industrial but not for utility stocks. This implies that although the size phenomenon has been strongly documented for the industrials [sic], the findings suggest that there is no need to adjust for the firm size in utility rate regulations. While this article is older, it remains the most credible study on this topic
11		and, therefore, the proposed adjustment based on size should be rejected.
12		
13	Q.	WHAT IS YOUR RECOMMENDATION REGARDING THE PROPOSED
14		BUSINESS RISK ADJUSTMENT?
15	A.	Given the lack of evidence related to the utility industry's need to adjust the cost
16		of equity to account for the size of a company, Mr. D'Ascendis business risk
17		adjustment should be rejected.
18		
19	<u>OVE</u>	RALL RATE OF RETURN
20	Q.	WHAT IS THE COMPANY'S PROPOSED OVERALL RATE OF
21		RETURN?
22	А.	The Company's proposed overall rate of return is 7.95% (Suez Exhibit CEH-1,
23		Schedule 1.2, p. 3).

.

1 Q. WHAT IS I&E'S RECOMMENDED OVERALL RATE OF RETURN?

- 2 A. The calculation of I&E's recommended overall rate of return of 7.08% for Suez is
- 3 shown in the table below:
- 4

Type of Capital	Ratio	Cost Rate	Weighted Cost
Long-Term Debt	45.82%	4.65%	2.13%
Common Equity	54.18%	9.13%	4.95%
Total	100.00%		7.08%

5

6

7 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

8 A. Yes.

APPENDIX A

Page 1 of 2

D. C. Patel Professional and Educational Background

EXPERIENCE:

Pennsylvania Public Utility Commission, Harrisburg, Pennsylvania June 2015 to present

Fixed Utility Financial Analyst, Bureau of Investigation and Enforcement

Pennsylvania Insurance Department, Harrisburg, Pennsylvania March 2013 - June 2015

Insurance Company Financial Analyst, Bureau of Company Licensing & Financial Analysis

Pennsylvania Department of Revenue, Harrisburg, Pennsylvania November 2010 - March 2013

Accounting Assistant, Bureau of Corporation Taxes (Accounting)

Hersha Hospitality Management, Harrisburg, Pennsylvania June 2007 - November 2010

Staff Accountant (Taxes), Accounting Department

Corporate Experience-India February 1987 – April 2007

Worked as Company Secretary for three different companies during this period that were publicly held companies and whose stocks were listed on the Stock Exchanges.

EDUCATION/CERTIFICATION:

Sujarat State University, Ahmedabad, India:

June 1980 - April 1983 Bachelor of Commerce (Major concentration: Accounting with 38 credits)

D. C. Patel Professional and Educational Background

EDUCATION/CERTIFICATION (continued):

June 1983 - December 1988 Bachelor of Law

> The Institute of Company Secretaries of India, New Delhi, India:

June 1983 - December 1985 Post Graduate Professional Degree: Company Secretary

RATE CASE TRAINING:

Attended 37th Western NARUC Utility Rate School in May 2016

WORKED ON THE FOLLOWING CASES (Testimony not required):

- ▶ R-2018-3001568 PECO Energy Co. Gas Operations (1307(f))
- ▶ R-2018-3000253 Columbia Gas of Pennsylvania, Inc. (1307(f))
- ► A-2017-2629534 PPL Electric Utilities (Restructuring Plan)
- ▶ R-2017-2631441 Reynolds Water Co.
- R-2017-2602611 PECO Energy Co. Gas Operations (1307(f))
- ▶ R-2016-2567893 Andreassi Gas Co.
- > R-2016-2525128 The Columbia Water Co. Marietta Division
- ▶ R-2015-2479962 Corner Water Supply and Service Corporation
- ▶ R-2015-2479955 Allied Utility Services, Inc.
- ▶ R-2015-2493905 Sands, Inc.

SUBMITTED TESTIMONY IN THE FOLLOWING CASES:

- R-2018-2647577 Columbia Gas of Pennsylvania, Inc. (proceeding ongoing)
- ▶ R-2017-2595853 Pennsylvania American Water Co.
- > P-2016-2526627 PPL Electric Utilities Corp. (DSP IV)
- R-2016-2529660 Columbia Gas of Pennsylvania, Inc.
- R-2016-2554150 City of DuBois Bureau of Water
- R-2016-2580030 UGI Penn Natural Gas, Inc.

I&E Exhibit No. 2 Witness: D. C. Patel

PENNSYLVANIA PUBLIC UTILITY COMMISSION

v.

SUEZ WATER PENNSYLVANIA, INC.

Docket Nos. R-2018-3000834

Exhibit to Accompany

the

Direct Testimony

of

D. C. Patel

Bureau of Investigation and Enforcement

Concerning: Rate of Return

Schedule 1

Proxy Group Capital Structure - Water Companies

	201	7	201	6	201	5	201	4	201.	3	Average
American Water Works											
.ong-term Debt	\$ 6,498.000	54.68%	\$ 5,759.000	52.46%	\$ 5,874.000	53.78%	\$ 5,448.245	52.57%	\$ 5,230.058	52.52%	53.20%
Preferred Stock	-	0.00%		0.00%		0.00%	-	0.00%		0.00%	0.00%
Common Equity	5,385.000	45.32%	5,218.000	47.54%	5,049.000	46.22%	4,915.591	47.43%	4,727.804	47.48%	46.80%
	11,883.000	100.00%	10,977.000	100.00%	10,923.000	100.00%	10,363.836	100.00%	9,957.862	100.00%	100.00%
American States Water Co											
Long-term Debt	321.039	37.73%	320.981	39.37%	325.541	41.13%	325.798	39.13%	326.079	39.84%	39.44%
Preferred Stock		0.00%	÷	0.00%		0.00%	-	0.00%	2	0.00%	0.00%
Common Equity	529.945	62.27%	494.297	60.63%	465.945	58.87%	506.801	60.87%	492.404	60.16%	60.56%
	850.984	100.00%	815.278	100.00%	791.486	100.00%	832.599	100.00%	818.483	100.00%	100.00%
California Water Service Group											
Long-term Debt	515.793	42.65%	531.745	44.64%	512.287	44.38%	419.233	40.09%	426.142	41.58%	42.67%
Preferred Stock	()#()	0.00%		0.00%	-	0.00%		0.00%	÷	0.00%	0.00%
Common Equity	693.462	57.35%	659.471	55.36%	642.155	55.62%	626.626	59.91%	598.756	58.42%	57.33%
	1,209.255	100.00%	1,191.216	100.00%	1,154.442	100.00%	1,045.859	100.00%	1,024.898	100.00%	100.00%
Middlesex Water Co							_				
Long-term Debt	139.045	37.51%	134.538	37.85%	136.247	39.45%	136.039	40.52%	129.798	40.38%	39.14%
Preferred Stock	2.433	0.66%	2.436	0.69%	2.436	0.71%	2.436	0.73%	2.886	0.90%	0.73%
Common Equity	229.175	61.83%	218.437	61.46%	206.694	59.85%	197.291	58.76%	188.745	58.72%	60.12%
	370.653	100.00%	355.411	100.00%	345.377	100.00%	335.766	100.00%	321.429	100.00%	100.00%
Aqua America Inc											
Long-term Debt	2,007.753	50.63%	1,737.605	48.43%	1,743.612	50.25%	1,560.695	48.53%	1,468.791	48.90%	49.35%
Preferred Stock		0.00%	-	0.00%	*	0.00%		0.00%		0.00%	0.00%
Common Equity	1,957.621	49.37%	1,850.068	51.57%	1,725.930	49.75%	1,655.343	51.47%	1,534.835	51.10%	50.65%
	3,965.374	100.00%	3,587.673	100.00%	3,469.542	100.00%	3,216.038	100.00%	3,003.626	100.00%	100.00%
York Water Company											
Long-term Debt	90.098	43.01%	84.609	42.59%	87.261	44.45%	84.842	44.79%	84.885	45.06%	43.98%
Preferred Stock		0.00%		0.00%	*	0.00%	-	0.00%	-	0.00%	0.00%
Common Equity	119.405	56.99%	114.061	57.41%	109.070	55.55%	104.563	55.21%	103.511	54.94%	56.02%
	209.503	100.00%	198.670	100.00%	196.331	100.00%	189.405	100.00%	188.396	100.00%	100.00%

Five-Year Average Capital Structure

Long-term Debt	44.63%
Short-term Debt	0.12%
Common Equity	55.25%
	100.00%

Source: Compustate (Dollars in millions)

I&E Exhibit No. 2 Schedule 2

Suez Water Pennsylvania, Inc.

Unregulated Companies Proxy Group

Company Name	Ticker	Value Line Industry
ABM Industries, Inc.	ABM	Industrial Services
AutoZone, Inc.	AZO	Retail Automotive
Cheesecake Factory	CAKE	Restaurant
CBOE Holdings	CBOE	Brokers and Exchanges
Chemed Corp.	CHE	Diversified
C. H. Robinson	CHRW	Industrial Services
Cigna Corp.	CI	Medical Services
Darden Restaurants	DRI	Restaurant
DaVita, Inc.	DVA	Medical Services
Forrester Research	FORR	Information Services
Hormel Foods	HRL	Food Processing
IQVIA Holdings	IQV	Medical Services
Mercury General	MCY	Insurance
Vail Resorts	MTN	Hotel/Gaming
Pinnacle Foods	PF	Food Processing
Spectrum Brands	pectrum Brands SPB Household Product	
West Pharma. Services	WST	Medical Supplies

Source: Value Line

I&E Exhibit No. 2 Schedule 3

Suez Water Pennsylvania, Inc.

Proxy Group Debt Cost

	20)17	
	Interest	Long-	Debt Cost
	Charges	term Debt	
American Water Works	\$350.00	\$6,498.00	5.39%
American States Water Co	\$22.58	\$321.04	7.03%
California Water Service Group	\$36.29	\$515.79	7.04%
Middlesex Water Co	\$5.51	\$139.05	3.96%
Aqua America Inc	\$88.54	\$2,007.75	4.41%
York Water Company	\$5.35	\$90.10	5.94%
	Range:	Low	3.96%
		High	7.04%
		Average	5.63%
Source: Compustat			

Suez Water Pennsylvania, Inc.

Dividend Yields of Six Water Company Proxy Group

Company	American Water Works	American States Water Co.	California Water Service Group	Middlesex Water Co.	Aqua America Inc.	York Water Company
Symbol	AWK	AWR	CWT	MSEX	WTR	YORW
Dividend	1.95	1.15	0.78	0.96	0.91	0.75
52-week low	74.63	43.83	33.30	32.23	31.18	27.45
52-wek high	92.37	60.00	46.15	46.74	39.55	39.86
Spot Price	83.74	55.65	39.75	42.03	34.62	32.60
Spot Dividend Yield	2.33%	2.07%	1.96%	2.28%	2.63%	2.30%
52-week Dividend Yield	2.34%	2.22%	1.96%	2.43%	2.57%	2.23%
Average	2.33%	2.14%	1.96%	2.36%	2.60%	2.26%

	Average
Spot Div Yield	2.26%
52-wk Div Yield	2.29%
Average	2.28%

Source: Barrons - May 11, 2018 and Valueline - May 11, 2018

I&E Exhibit No. 2 Schedule 4 Page 2 of 3

Suez Water Pennsylvania, Inc.

		Yahoo	Zacks	Morningstar	Value Line	Average
Company	Symbol					
American Water Works	AWK	8.20%	7.70%	7.60%	8.50%	8.00%
American States Water Co	AWR	4.00%	5.00%	NA	6.50%	5.17%
California Water Service Group	CWT	9.80%	NA	NA	9.50%	9.65%
Middlesex Water Co	MSEX	2.70%	NA	NA	8.00%	5.35%
Aqua America Inc	WTR	5.00%	NA	NA	7.00%	6.00%
York Water Company	YORW	4.90%	NA	NA	9.00%	6.95%
Average						6.85%

Five-Year Growth Forecast for Proxy Group (Actual)

Source: Internet websites - May 11, 2018

Suez Water Pennsylvania, Inc.

Expected Market Cost Rate of Equity

(Using Data of the Proxy Group of Six Water Companies)

	Time Period	Adjusted Dividend Yield	Growth Rate	Expected Return on Equity
		(1)	(2)	(3 = 1 + 2)
(1)	52-Week Average Ending: May 11, 2018	2.29%	6.85%	9.14%
(2)	Spot Price Ending: May 11, 2018	2.26%	6.85%	9.11%
(3)	Average:	2.28%	6.85%	9.13%

Sources: Value Line - May 11, 2018

Barrons - May 11, 2018

Suez Water Pennsylvania, Inc.

Beta of Six Water Companies Proxy Group

Company	Beta
American Water Works	0.65
American States Water Co	0.75
California Water Service Group	0.75
Middlesex Water Co	0.80
Aqua America Inc	0.70
York Water Company	0.80
Average beta for CAPM	0.74

Source: Value Line - May 11, 2018

I&E Exhibit No. 2 Schedule 6

Suez Water Pennsylvania, Inc.

CAPM with Historic Return

Re		Required return on individual equity security
Rf		Risk-free rate
Rm		Required return on the market as a whole
Be		Beta on individual equity security
Re	=	Rf+Be(Rm-Rf)
Rf	=	5.2103
Rm	=	10.8012
Be	=	0.74
Re	=	9.36

Source: Value Line – May 11, 2018

Suez Water Pennsylvania, Inc.

CAPM with Forecasted Return

Re	Required return on individual equity security
Rf	Risk-free rate
Rm	Required return on the market as a whole
Be	Beta on individual equity security
Re =	Rf+Be(Rm-Rf)
Rf =	3.3500
Rm =	12.9665
Be =	0.74
Re =	10.48

Sources:

Value LineMay 11, 2018Blue ChipMay 1, 2018 &

May 1, 2018 & December 1, 2017

Suez Water Pennsylvania, Inc.

Risk-Free Rate

10-year Treasury Note	Yield
3Q 2018	3.10%
4Q 2018	3.20%
1Q 2019	3.30%
2Q 2019	3.40%
3Q 2019	3.50%
2019-2023	3.60%
Average	3.35%

Source: Blue Chip – May 1, 2018 and December 1, 2017

I&E Exhibit No. 2 Schedule 7 Page 3 of 3

Suez Water Pennsylvania, Inc.

Required Rate of Return on Market as a Whole Forecasted

	Dividend Yield	+	Growth Rate	=	Expected Market Return
Value Line Estimate	2.10%		9.73%	(a)	11.83%
S&P 500	2.10%	(b)	12.00%		14.10%
Average Expected Marke	et Return			=	12.97%

(a) ((1+45%)^.25) -1) Value Line forecast for the 3 to 5 years' index appreciation is 45%.
(b) S&P 500 multiplied by half the growth rate.

Sources:

S&P 500 Growth Rate Yahoo	5/11/2018	12.00%
S&P 500 Dividend Yield Barron's	5/11/2018	1.98%
Value Line Dividend Yield	5/11/2018	2.10%
Value Line Appreciation Potential	5/11/2018	45.00%

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION	:	
V.	:	Docket No. R-2018-3000834
SUEZ WATER PENNSYLVANIA, INC.	:	

WITNESS VERIFICATION THE BUREAU OF INVESTIGATION AND ENFORCEMENT

I, Ethan H. Cline, on behalf of the Bureau of Investigation and Enforcement, hereby verify that the documents preliminarily identified as:

I&E Statement No. 3 and 3-SR, and, I&E Exhibit No. 3 and 3-SR were prepared by me or under my direct supervision and control. Furthermore, the facts contained therein are true and correct to the best of my knowledge, information and belief and I expect to be able to prove the same at an Evidentiary Hearing in this matter. This Verification is made subject to the penalties of 18 Pa. C.S. § 4904 relating to unsworn falsification to authorities.

Éthan H. Cline Pennsylvania Public Utility Commission Bureau of Investigation and Enforcement

Dated: September 10, 2018

I&E Statement No. 3 Witness: Ethan H. Cline

PENNSYLVANIA PUBLIC UTILITY COMMISSION

v.

SUEZ WATER PENNSYLVANIA, INC.

Docket Nos. R-2018-3000834

Direct Testimony

of

Ethan H. Cline

Bureau of Investigation and Enforcement

Concerning:

Test Year Average Rate Base FTY and FPFTY Reporting Present Rate Revenue Proposed Rate Revenue Customer Cost Analysis Customer Charges Scale Back of Rates

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CUSTOMER COST ANALYSIS	

1	Q.	WOULD YOU PLEASE STATE YOUR NAME AND BUSINESS
2		ADDRESS?
3	A.	My name is Ethan H. Cline. My business address is P.O. Box 3265, Harrisburg,
4		PA 17105-3265.
5		
6	Q.	BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
7	A.	I am employed by the Pennsylvania Public Utility Commission ("Commission") in
8		the Bureau of Investigation and Enforcement ("I&E") as a Fixed Utility Valuation
9		Engineer.
10		
11	Q.	WHAT IS YOUR EDUCATIONAL AND PROFESSIONAL
12		BACKGROUND?
13	A.	My education and professional background are set forth in Appendix A, which is
14		attached.
15		
16	Q.	PLEASE DESCRIBE THE ROLE OF I&E IN RATE PROCEEDINGS.
17	A.	I&E is responsible for protecting the public interest in proceedings before the
18		Commission. The I&E analysis in the proceeding is based on its responsibility to
19		represent the public interest. This responsibility requires the balancing of the
20		interests of ratepayers, the regulated utility, and the regulated community as a
21		whole.

Q.	WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY?
A.	My direct testimony relates to Suez Water Pennsylvania, Inc.'s ("SWPA" or
	"Company") requested \$6.2 million overall revenue increase.
Q.	DOES YOUR DIRECT TESTIMONY INCLUDE AN EXHIBIT?
A.	Yes. I&E Exhibit No. 3 contains schedules relating to my testimony.
	MAHONING TOWNSHIP WATER SYSTEM ACQUISITION
Q.	PLEASE DESCRIBE THE MAHONING TOWNSHIP WATER SYSTEM
	ACQUISITION AND THE RELATED BASE RATE CLAIMS.
A.	The Mahoning Township Water System ("MTWS") is a water and wastewater
	system that the Company is attempting to acquire, for an agreed upon purchase
	price of \$9.5 million (SWPA St. No. 1, p. 25). The Company has stated that it
	plans to, at some unspecified time in the second quarter of 2018 (SWPA St. No. 1,
	p. 26), file a Section 1329 application with the Commission to officially acquire
	the MTWS. As of the date of this Testimony, the Company has not yet filed this
	application. The Company is proposing to include 60% of the \$9.5 million ¹
	purchase price in rate base, though the Company may adjust the claim based on
	the appraisals (SWPA St. No. 1, p. 25), O&M expenses, and an increase of 1,200
	А. Q. А.

¹ Per the Company's response to OCA-IV-23, attached as I&E Exhibit No. 3, Schedule 5, \$5.8 million is the portion of purchase price the Company is claiming in rate base.

1		customers in the present filing as a result of the potential acquisition of the
2		MTWS. I will address the proposed additions to rate base and the increase in
3		customers below. I&E witness Grab will address the related O&M expenses in
4		I&E Statement No. 1.
5		
6	Q.	DO YOU AGREE WITH THE COMPANY'S PROPOSAL TO INCLUDE
7		THE COSTS ASSOCIATED WITH THE ACQUISITION OF THE MTWS
8		IN THE PRESENT PROCEEDING?
9	A.	No. I do not agree with the Company's proposal to include the costs associated
10		with the MTWS in the present proceeding for several reasons. First, the
11		Company's proposal to include MTWS in this rate proceeding, before it has even
12		filed the acquisition case or obtained Commission approval to acquire MTWS,
13		goes directly against Section 1329 of the Public Utility Code ("Code"). Second, I
14		do not agree with the Company's proposal to raise the rates of the MTWS
15		customers at the conclusion of this base rate case. Third, I do not agree with the
16		Company's projected timing of the acquisition aligning with the end of the fully
17		projected future test year ("FPFTY").
18		
19	Q.	WHY DO YOU BELIEVE THAT THE COMPANY'S MTWS PROPOSAL
20		DOES NOT COMPORT WITH SECTION 1329 OF THE PUBLIC UTILITY

21 CODE?

A.	To be clear, the Company has not yet requested approval to acquire MTWS or
	filed its Section 1329 case, yet it is requesting to recover those costs in this rate
	case. This violates Section 1329, 66 Pa. C. S. § 1329 (c)(1)(i), as it clearly
	instructs that the ratemaking rate base should be incorporated into the "next" base
	rate case after the approval of the 1329 application:
	 (c) Ratemaking rate baseThe following apply: (1) The ratemaking rate base of the selling utility shall be incorporated into the rate base of: (i) the acquiring public utility during the acquiring public utility's next base rate case; or
	Here, the 1329 filing has not been made and the acquisition has not been
	approved, yet the Company is seeking recovery of the \$5.8 million MTWS plant.
	Additionally, the definition of "ratemaking rate base" in Section 1329(g)
	indicates that the inclusion of the plant into the acquiring utility's rate base is
	intended to occur post acquisition in the next base rate case. Furthermore, 66 Pa.
	C. S. § 1329 (f) also sets forth a mechanism for the Company to follow for plant
	additions that will occur after the acquisition that are not included in a Distribution
	System Improvement Charge ("DSIC") until the next base rate case.
	 (f) Postacquisition projectsThe following apply: (1) An acquiring public utility's postacquisition improvements that are not included in a distribution improvement charge shall accrue allowance for funds used during construction after the date the cost was incurred until the asset has been in service for a period of four years or until the asset is included in the acquiring public utility's next base rate case, whichever is earlier. (2) Depreciation on an acquiring public utility's postacquisition improvements that have not been included in the calculation of a distribution system improvement charge shall be deferred for book and ratemaking purposes.
	A.

1		This further indicates that Section 1329 does not intend for a Company to include
2		the potential acquired plant in rate base in a base rate case before the Commission
3		has approved the acquisition.
4		
5	Q.	YOUR SECOND ISSUE IS THE COMPANY'S PROPOSAL TO INCREASE
6		MTWS RATES AT THE CONCLUSION OF THIS RATE CASE. PLEASE
7		EXPLAIN.
8	A.	The Company's proposal to immediately alter the rates of the MTWS customers ²
9		will produce a 61.76% increase in revenue for a 5/8-inch meter residential
10		customer using 9,000 gallons of water as shown on the Company's response to
11		OCA-I-8 (I&E Ex. No. 3, Sch. 20, p. 2) as compared to a 13.66% increase for a
12		current SWPA 5/8-inch meter residential customer using 9,000 gallons of water
13		(SWPA Ex. No. CEH-1, Sch. 10-1). Including this increase in rates as part of the
14		current rate proceeding does not follow the terms set in Sections $1329(d)(1)(v)$ and
15		(d)(4), which states that the rates that are incorporated into the acquiring
16		company's tariff will be equal to the rates which the customers are currently
17		paying until the next base rate case. Once again, this implies that the "next base

² The proposed changes to the MTWS customers include removing a water allowance for each meter size, decreasing the existing minimum customer charges, and increase the consumption charge for the residential customers and moving from a single block consumption charge to a declining block consumption charge for commercial customers (SWPA Ex. No. PRH-1, Sch. I, p. 2).

	•
2	concurrently.
3	(d) Acquisitions by public utilityThe following apply:
4	(1) If the acquiring public utility and selling utility agree to
5	use the process outlined in subsection (a), the acquiring
6	public utility shall include the following as an attachment to
7	its application for commission approval of the acquisition
8 9	filed pursuant to section 1102 (relating to enumeration of acts requiring certificate):
10	induining certificate).
11	(v) A tariff containing a rate equal to the existing
12	rates of the selling utility at the time of the
13	acquisition and a rate stabilization plan, if
14	applicable to the acquisition.
15	(4) The toriff submitted number to subsection (d)(1)(x) shall
16 17	(4) The tariff submitted pursuant to subsection $(d)(1)(v)$ shall remain in effect until such time as new rates are approved for
18	the acquiring public utility as the result of a base rate case
19	proceeding before the commission. The acquiring public
20	utility may collect a distribution system improvement charge
21	during this time, as approved by the commission under this
22	chapter.
23	
24	Additionally, it is my understanding that the MTWS customers have not
25	received any notice of a rate increase as part of the current proceeding, as they are
26	not currently SWPA customers and the Company has not yet requested
27	Commission approval to acquire those customers. Therefore, under the
28	Company's proposal, MTWS customers will not only be paying their water bills to
29	a new entity but will also have their rates increased. The Company should not be
30	permitted to increase MTWS customer rates, particularly to the degree that is
31	being proposed, given that it does not currently serve those customers, MTWS
32	customers have had no notice that its rates may increase and MTWS customers

•

rate case" is the base rate case that occurs after the acquisition and not

1

have not had an opportunity to participate in this base rate proceeding given that
 they are not SWPA customers.

3	The Company argues that including the Mahoning Township acquisition in
4	this proceeding is in the public interest because it moves the Mahoning Township
5	customers closer to their true cost of service more quickly (SWPA Statement No.
6	1, p. 27). It is premature to design rates for MTWS or state that moving MTWS
7	customers to SWPA is in the public interest given that the application to acquire
8	the system has yet to be filed. In short, the Company is designing rates for
9	customers it has not yet acquired and the Commission has not yet determined that
10	such an acquisition is in the public interest.

11

12 Q. YOUR THIRD ISSUE IS THAT THE MTWS ACQUISITION MAY 13 OCCUR BEYOND THE FPFTY. PLEASE EXPLAIN.

14 The Company implies that inclusion of the MTWS purchase price in this A. 15 proceeding is appropriate because the acquisition will close in the FPFTY (SWPA 16 Statement No. 1, p. 26). To support this contention, the Company anticipates 17 filing the Mahoning Township acquisition sometime in the second quarter of 2018 18 and, based on the timeline set forth on page 26 of SWPA Statement No. 1, the six-19 month time period for the Commission to take final action would end sometime in 20 January 2019. Accordingly, the Company indicates that it has approximately one year to close the transaction before the FPFTY ends on December 31, 2019. 21

1	However, the Company's timeline does not account for any potential
2	appeal to the Pennsylvania Commonwealth Court. Such an appeal would
3	potentially delay the acquisition of the MTWS beyond the end of the FPFTY. As
4	an example, the Aqua Pennsylvania Wastewater, Inc. ("Aqua") acquisition of the
5	New Garden Sewer System filed pursuant to Section 1329, at Docket No. A-2016-
6	2580061, was accepted by the Commission on December 30, 2016, is currently on
7	appeal to Commonwealth Court and has yet to close. As a result, the New Garden
8	acquisition has been pending for approximately 19 months with no guarantee of
9	when or how it will be resolved. Similarly, Aqua's acquisition of the Limerick
10	Township wastewater system assets was filed pursuant to Section 1329, at Docket
11	No. A-2017-2605434, was accepted by the Commission on May 31, 2017 and has
12	not yet closed. If the Company's MTWS acquisition follows a similar timeline,
13	closing would occur beyond the FPFTY. Therefore, the Company's assumption
14	that the MTWS acquisition, which has not even been filed yet, will close within
15	the FPFTY is speculative. The Company's new rates are effective January 1, 2018
16	and it is not just and reasonable to include the \$5.8 million MTWS plant in those
17	rates and begin to recover it from ratepayers given that the MTWS acquisition has
18	not been filed, has not been approved and may not close within the FPFTY.

20 Q. WHAT DO YOU RECOMMEND REGARDING THE MTWS?

A. For the reasons above, I recommend that the inclusion of the MTWS in the current
base rate proceeding be denied and that all associated costs, expenses, and

1		revenues be removed. I discuss the effect on rate base and revenue of my
2		recommended denial of the inclusion of the MTWS below and I&E witness Grab
3		discusses the expenses associated with the MTWS in I&E Statement No. 1.
4		
5	Q.	ARE YOU MAKING ANY RECOMMENDATION IN THIS PROCEEDING
6		ON WHETHER THE COMPANY SHOULD BE ALLOWED TO ACQUIRE
7		THE MTWS?
8	A.	No. Such a determination will be properly addressed when the Company
9		eventually files its application.
10		
11		TEST YEAR
12	Q.	WHAT IS A TEST YEAR AND HOW IS IT USED BY A COMPANY IN A
12 13	Q.	WHAT IS A TEST YEAR AND HOW IS IT USED BY A COMPANY IN A RATE PROCEEDING?
	Q. A.	
13	-	RATE PROCEEDING?
13 14	-	RATE PROCEEDING? A test year is the twelve-month period over which a utility's costs and revenues
13 14 15	-	RATE PROCEEDING? A test year is the twelve-month period over which a utility's costs and revenues are measured as the basis for setting prospective base rates. Previously in rate
13 14 15 16	-	RATE PROCEEDING? A test year is the twelve-month period over which a utility's costs and revenues are measured as the basis for setting prospective base rates. Previously in rate case proceedings, in order to meet its burden of proof, a utility could only use a
13 14 15 16 17	-	RATE PROCEEDING? A test year is the twelve-month period over which a utility's costs and revenues are measured as the basis for setting prospective base rates. Previously in rate case proceedings, in order to meet its burden of proof, a utility could only use a historic test year ("HTY") or a future test year ("FTY"). An HTY is a twelve-
13 14 15 16 17 18	-	RATE PROCEEDING? A test year is the twelve-month period over which a utility's costs and revenues are measured as the basis for setting prospective base rates. Previously in rate case proceedings, in order to meet its burden of proof, a utility could only use a historic test year ("HTY") or a future test year ("FTY"). An HTY is a twelve- month period selected by a company that represents a recent full year of actual
13 14 15 16 17 18 19	-	RATE PROCEEDING? A test year is the twelve-month period over which a utility's costs and revenues are measured as the basis for setting prospective base rates. Previously in rate case proceedings, in order to meet its burden of proof, a utility could only use a historic test year ("HTY") or a future test year ("FTY"). An HTY is a twelve- month period selected by a company that represents a recent full year of actual data. An FTY begins the day after the HTY ends and is used in order to allow for

1		financial information. By using an FTY, a utility makes a projected annualized
2		and normalized estimate of future revenues and expenses and a corresponding
3		measure of value at the end of the period.
4		
5	Q.	HAVE THERE BEEN ANY STATUTORY AMENDMENTS THAT HAVE
6		MODIFIED A UTILITY'S TEST YEAR OPTIONS?
7	А.	Yes. Act 11, which was signed on February 14, 2012, permits utilities to use a
8		fully projected future test year ("FPFTY") in order to meet their burden of proof in
9		rate cases. The FPFTY is defined as the twelve-month period that begins with the
10		first month that the new rates will be placed into effect, after the application of the
11		full suspension period permitted under Section 1308(d). The FPFTY is a shift
12		from the fundamental ratemaking principle that a public utility should only be
13		permitted to include projects in rate base and earn a reasonable return on its
14		investments after they become "used and useful" for the utility's public service.
15		Prior to the passage of Act 11 by the Pennsylvania Legislature, utilities could use
16		either an HTY or an FTY.
17		
18	Q.	WHAT TEST YEARS HAS THE COMPANY USED IN THIS
19		PROCEEDING?

A. The Company used the twelve-month period ending December 31, 2017 as the
HTY, the twelve-month period ending December 31, 2018 as the FTY, and the
twelve-month period ending December 31, 2019 as the FPFTY.

Q. COULD YOU ILLUSTRATE HOW ACT 11 IMPACTS THE TEST YEARS SELECTED BY THE COMPANY?

3 A. Yes. Using the Company's HTY and FTY, without Act 11 and with the Company 4 having filed its rate case on March 16, 2018, the Company's HTY ended 5 December 31, 2017 and its rates would have been based on the FTY ending December 31, 2018. At the end of the suspension period set by the Commission, 6 7 the Company's new rates would have been placed into effect on January 1, 2019. 8 With the addition of the FPFTY, however, the Company has the ability to project 9 plant additions, revenues, and expenses out one more year, using as the FPFTY the 10 twelve-month period that begins with the first month that the new rates will be 11 placed into effect, or January 1, 2019 through December 31, 2019.

12

13 **RATE BASE**

14 Q. WHAT IS RATE BASE?

A. Rate base is the depreciated original cost of a utility's plant-in-service plus other
additions and deductions that the Commission determines to be necessary in order
to keep the utility operating and providing safe and reliable service to its
customers.

19

20 Q. HOW IS RATE BASE USED WITHIN THE RATEMAKING FORMULA?

21 A. Rate base is one part of the financial equation used by the Commission to

determine the appropriate revenue that a utility is granted in a rate proceeding.

1		The revenue determination allows the utility to meet its expense obligations and
2		gives it the opportunity to earn the rate of return established by the Commission in
3		a rate proceeding. The equation used to determine the proper revenue requirement
4		level is:
5		Revenue Requirement = (Rate Base x Rate of Return) + Operating
6		Expenses + Depreciation Expenses + Taxes.
7		
8	Q.	HOW IS THE DEPRECIATED ORIGINAL COST OF PLANT-IN-
9		SERVICE AT THE END OF THE TEST YEAR DETERMINED?
10	A.	The depreciated original cost is equal to the original cost of the plant-in-service
11		that is used and useful in the provision of utility service to the customers less the
12		depreciation reserve as adjusted by other items such as salvage value and removal
13		costs. Before the passage of Act 11, the end of the FTY was the focal point used
14		to calculate the depreciated original cost. With the addition of the FPFTY in Act
15		11, the depreciated original cost of the plant in service is computed by taking a
16		"snapshot" look at the depreciated original cost value of used and useful utility
17		plant estimated to be in service at the end of the FPFTY. It is the "snapshot" look
18		at the depreciated original cost value of used and useful utility plant estimated to
19		be in service at the end of the FPFTY that is used to formulate my average rate
20		base recommendation.

Q.

PLEASE EXPLAIN THE AVERAGE RATE BASE CONCEPT.

2 A. Under the FPFTY, the traditional interpretation of the "used and useful" 3 requirement for rate base inclusion of investments is unclear because when a 4 company employs the use of a FPFTY in a base rate case, the new rates will go 5 into effect before the end of the Company's FPFTY. The inclusion of rate base 6 added in a FPFTY necessarily means that customers will be paying a return on and 7 a return of a utility's plant investment that has not yet been placed in service. By 8 using an average of the rate base that is projected to be in service by the end of the 9 FPFTY, rather than the full year-end amount, the impact of the necessary customer 10 overpayment at the beginning of the year is mitigated. This results in rates that are 11 more just and reasonable because ratepayers are not paying for approximately a 12 year of plant that is not yet in service.

13

14 Q. WHY IS IT APPROPRIATE TO ADOPT AN AVERAGE RATE BASE IN 15 THIS CASE?

A. As discussed above, SWPA is requiring ratepayers, in essence, to pre-pay a return
on its projected investment in future facilities that are not only not in place and
providing service at the time the new rates take effect, but also that are not subject
to any guarantee of being completed and placed into service. As a result,
ratepayers will begin paying for expenses and plant when new rates become
effective on January 29, 2019, but those projected expenses and plant may not be
incurred or placed into service until December 31, 2019 or even later.

Q. WHY DO YOU RECOMMEND THE USE OF THE AVERAGE RATE BASE METHODOLOGY FOR ESTABLISHING RATES?

3 Α. This case was filed on April 30, 2018. SWPA's new rates are expected to become 4 effective on January 29, 2019, which is approximately eleven months before the 5 end of the Company's FPFTY of December 31, 2019. However, several of the 6 Company's capital projects included in the 2019 FPFTY year have an end date 7 that is "various," or in the year 2023 as shown on page 3 of the attachment to the 8 Company's response to I&E-RB-8-D (I&E Ex. No. 3, Sch. 2, p. 4). Thus, with 9 several of the Company's projected plant additions with a projected end date well 10 beyond the end of the FPFTY, allowing the Company to use the December 31, 11 2019 year-end plant-in-service as proposed in this proceeding, could result in 12 customers paying, for approximately eleven months, rates that include costs for 13 projects and plant that are not in service and used or useful to those customers. In 14 other words, SWPA would potentially be collecting a return of and a return on 15 plant that is not used or useful in the provision of utility service to its customers 16 for nearly a year before that plant actually goes into service, or even longer, in 17 some cases.

18

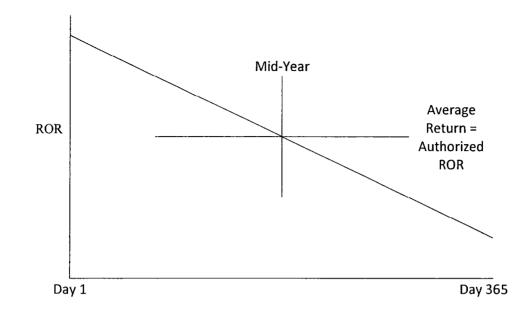
Q. HOW DOES THE YEAR-END PLANT INCLUSION IN FPFTY CALCULATIONS IMPACT CUSTOMER RATES AND COMPANY RETURNS?

1 Α. Using the year-end approach to determine rates, when new rates go into effect on 2 January 29, 2019, the Company will earn a return of and a return on plant 3 investments that will not fully materialize before the final day of the FPFTY on 4 December 31, 2019. Accordingly, customers would pay rates in February 2019 5 that are calculated to recover depreciation expense and a return on investment at 6 the end of the FPFTY, which are in excess of the rates that are necessary to 7 provide the revenue requirement that allows the Company the opportunity to earn 8 its authorized rate of return ("ROR") on the plant and expenses that are used and 9 useful when the new rates become effective. Requiring customers to pay a return 10 of and on plant investments that will not occur for almost one year does not 11 produce just and reasonable rates for ratepayers. Instead, ratepayers reach the 12 projected "just and reasonable" rate point on the final day of the FPFTY, or more 13 specifically, on the first day of the year after the FPFTY.

14

15 Q. HOW DOES THE USE OF AN AVERAGE RATE BASE RESULT IN 16 RATES THAT ARE JUST AND REASONABLE?

A. An average rate base would yield an average annual return on rate base throughout
the FPFTY equal to the authorized ROR. As illustrated below, the sloping line
represents the ROR during the FPFTY. As time pass left to right, the ROR will
decrease over time as the Company places FPFTY plant into service during the
FPFTY:



Under the Company's proposed methodology, only the end-of-year point at Day
365 would coincide with the authorized ROR, which would shift the entire graph
upwards with the entire ROR line shifted above the authorized rate of return for
every point.

1

7 Q. DOES THE COMPANY MAKE OTHER FPFTY CLAIMS THAT 8 FURTHER DEMONSTRATE HOW THE PROPOSED YEAR-END 9 METHODOLOGY RESULTS IN UNJUST AND UNREASONABLE 10 RATES?

A. Yes. As I mentioned previously, the return of investment, or depreciation
 expense, which is recovered on a dollar for dollar basis, will also be overstated to
 reflect an amount greater than the Company's actual recorded depreciation
 expense in the FPFTY. Because the plant is added at different dates throughout

1		the year, the Company will not record a full-year of depreciation expense for plant
2		that is added variably throughout the year, which results in a greater revenue
3		requirement result than necessary when the full end-of-year depreciation expense
4		is included in the Company's FPFTY claim.
5		Likewise, usage declines and customer count adjustments projected to the
6		end of the FPFTY will not accurately reflect the actual FPFTY usage, nor will
7		annualized expenses for which a full year's expense is not realized in the FPFTY
8		accurately reflect the actual FPFTY expenses. Both will impact the revenue
9		requirement through the ratemaking equation on a dollar for dollar basis and
10		overinflate the Company's FPFTY revenue needs. These items will all serve to
11		shift the return graph even further upward, which would result in an end of FPFTY
12		ROR that is even higher than the authorized ROR.
13		The expense issues and authorized ROR will be addressed elsewhere in
14		testimony by I&E witnesses Grab in I&E Statement No. 1 and Patel in I&E
15		Statement No. 2.
16		
17	Q.	WILL THE REDUCTION IN THE REVENUE REQUIREMENT
18		ASSOCIATED WITH THESE ADJUSTMENTS IMPACT RATE CASE
19		FREQUENCY?
20	A.	Possibly. However, companies should file rate cases on the frequency demanded
21		by revenue needs and should not unnecessarily inflate customer rates beyond what
22		is just and reasonable for the sole purpose of decreasing rate case frequency.

1		Imposing rates on customers that are excessive and unreasonable to alleviate a
2		single issue does not comport with a utility's obligation to provide service at just
3		and reasonable rates.
4		Further, utilizing an average rate base could allow earlier implementation of
5		a distribution system improvement charge ("DSIC") if the Company demonstrated
6		that the plant-in-service used to establish rates had been added to rate base. Usage
7		of the DSIC earlier would mitigate the impact of the rate increase that would result
8		from assuming an end-of-year rate base in establishing rates and still provide the
9		Company the opportunity to recover later DSIC-eligible plant investments,
10		potentially within the FPFTY. Earlier implementation of the DSIC could also
11		limit any increase in rate case frequency presumed to be associated with usage of
12		the average rate base method.
13		
14	Q.	IS YOUR DIRECT TESTIMONY MAKING A SPECIFIC ROR
15		RECOMMENDATION?
16	A.	No. I&E witness Patel (I&E St. No. 2) discusses I&E's recommended
17		adjustments to the Company's ROR claims. My testimony simply addresses the
18		impact of the end-of-year versus average rate base, revenue, and expense claims
19		have on the ROR and rates.

Q. IS THIS THE FIRST TIME I&E OR ANY OF THE STATUTORY ADVOCATES HAVE RAISED THIS AVERAGE RATE BASE ISSUE IN PROCEEDINGS BEFORE THE COMMISSION?

- 4 A. No. I&E and the Office of Consumer Advocate ("OCA") recently raised this issue
- 5 in the UGI Utilities, Inc. Electric Division base rate proceeding at Docket No. R-
- 6 2017-2640058 as well as the Pennsylvania American Water Company base rate
- 7 proceeding at Docket No. R-2017-2595853.³ Prior to that, the OCA and the
- 8 Office of Small Business Advocate ("OSBA") raised this issue in the UGI Penn
- 9 Natural Gas, Inc. base rate proceeding at Docket No. R-2016-2580030. OCA also
- 10 raised it in the FirstEnergy base rate proceedings at Docket Nos. R-2016-2537349,
- 11 R-2016-2537352, R-2016-2537355, R-2016-2537359. The UGI Utilities. Inc. –
- 12 Electric Division was litigated, but a Recommended Decision from the
- 13 Administrative Law Judge has not yet been filed. All of the other cases were
- 14 resolved through settlement.
- 15

16 Q. DO ANY OTHER STATE UTILITY COMMISSIONS OR JURISDICTIONS

17 APPLY AN AVERAGE RATE BASE TO THE FPFTY IN THE SAME

- 18 MANNER AS YOU RECOMMEND IN THIS CASE?
- A. Yes. The Illinois Commerce Commission ("Illinois Commission") in its
 Administrative Code at 83 Ill. Adm. Code 287.20, attached as I&E Exhibit No. 3,

In that proceeding, I&E referred to the average rate base as the half-year convention.

1		Schedule 3, allows a utility to propose a "future" test year that is "[a]ny
2		consecutive twelve-month period of forecasted data beginning no earlier than the
3		date new tariffs are filed and ending no later than 24 months after the date new
4		tariffs are filed." This allowed projected time period includes the same time
5		period that Pennsylvania allows as a FPFTY. While the Illinois Administrative
6		Code does not specifically mandate that an average rate base should be used,
7		paragraph (e) of Section 285.2005 mandates specific reporting and calculation
8		requirements in the event that an average rate base is not used (I&E Exhibit No. 3,
9		Schedule 4, p. 2). Additionally, in a recent case the Illinois Commission
10		concluded that an average rate base is more appropriate than a year-end rate base,
11		given a future test year, which, by definition, can match the FPFTY in
12		Pennsylvania (Re North Shore Gas Company, 2013 WL 3762292 (Ill. C. C.), pp.
13		28-29 (Order entered June 18, 2013)).
14		
15		UTILITY PLANT-IN-SERVICE
16	Q.	WHAT IS UTILITY PLANT-IN-SERVICE?
17	A.	Utility plant-in-service comprises all the utility's intangible assets (i.e.,
18		organization costs, franchise and consents costs, and land and land right costs) and

- 19 tangible assets (i.e., facilities and equipment). Moreover, for a utility plant to be
- 20 included in rates, the plant must be used and useful in the provision of utility
- 21 service to the customers. Therefore, by definition, only plant currently providing

1		or capable of providing utility service to customers is eligible to be reflected in
2		rates.
3		
4	Q.	WHAT IS SWPA'S UTILITY PLANT-IN-SERVICE CLAIM FOR ITS FTY
5		AND FPFTY?
6	A.	SWPA's utility plant-in-service claim for the FTY ending November 30, 2018 is
7		\$367,714,123 (SWPA Ex. No. JDH-1, col. 6). The Company's utility plant-in-
8		service claim for the FPFTY ending December 31, 2019 is \$409,389,892 (SWPA
9		Ex. No. JDH-1, col. 10).
10		
11	Q.	PLEASE EXPLAIN YOUR PLANT-IN-SERVICE ADJUSTMENT
12		REGARDING THE MTWS.
13	А.	For the reasons I discussed above, I am recommending the utility plant-in-service
14		related to the proposed MTWS acquisition be rejected. As shown on the
15		Company's response to Office of Consumer Advocate ("OCA") interrogatory
16		OCA-IV-23, the Company is claiming \$5,820,000 in utility plant-in-service
17		related to the MTWS in the FPFTY (I&E Ex. No. 3, Sch. 5). Therefore, my
18		recommended rejection of the MTWS reduces the Company's utility plant-in-
19		service claim in the FPFTY by \$5,820,000 from \$409,389,892 to \$403,569,892
20		(I&E Ex. No. 3, Sch. 1, col. D-F, line 10). As stated on page 26 of SWPA
21		Statement No. 1, the fair market appraisals for the MTWS have not yet been
22		submitted as part of an application. Therefore, once the appraisals are complete, if

the amount the Company proposes to include in rate base associated with the
 MTWS is altered, I recommend the Company provide an update to OCA-IV-23
 that shows a correct breakdown of plant-in-service costs associated with the
 MTWS.

5

Q. DO YOU HAVE ANY OTHER RECOMMENDATIONS REGARDING 7 UTILITY PLANT-IN-SERVICE IN THIS PROCEEDING?

A. Yes, I recommend that SWPA's FPFTY year-end utility plant-in-service claim not
be reflected in rate base. Rather, I recommend a utility plant-in-service amount of
\$385,642,008 be reflected in rate base (I&E Ex. No. 3, Sch. 1, col. H, line 10). I
based my recommendation on the use of an average rate base methodology rather
than the year-end rate base contained in the Company's filing as well as several
adjustments to the Company's claimed utility plant-in-service as discussed below.

14

15 Q. USING AN AVERAGE RATE BASE, HOW DID YOU DETERMINE 16 SWPA'S UTILITY PLANT-IN-SERVICE?

I computed I&E's recommended \$385,642,008 of utility plant-in-service for the
 FPFTY by taking the average of the Company's total utility plant-in-service for

- 19 the FTY ending December 31, 2018 and my recommended total utility plant-in-
- 20 service for the FPFTY ending December 31, 2019 as shown on I&E Exhibit No. 3,
- 21 Schedule 1, line 10 and below:

22
$$(\$367,714,123 + \$403,569,892) \div 2 = \$385,642,008.$$

ANNUAL DEPRECIATION EXPENSE

2	Q.	WHAT IS ANNUAL DEPRECIATION EXPENSE?
3	A.	Depreciation is the loss of value of a utility's assets used and useful in the
4		provision of utility service due to usage, passage of time, etc. The National
5		Association of Regulatory Utility Commissioners defines annual depreciation
6		expense as the annual cost associated with the diminution in the usefulness of an
7		asset over time. Depreciation expense is the way the return of a utility's
8		investment is captured in rates and is generally computed by dividing the original
9		cost of an asset by its expected useful life or by multiplying the annual accrual rate
10		by the original cost.
11		
12	Q.	WHAT IS SWPA'S CLAIMED ANNUAL DEPRECIATION EXPENSE
13		FOR THE FTY AND FPFTY?
14	А.	SWPA's claimed annual depreciation expense for the FTY ending December 31,
15		2018 is \$8,164,788 (SWPA Ex. CEH-2, Sch. 33), and for the FPFTY ending
16		December 31, 2019 is \$8,722,962 (SWPA Ex. CEH-2, Sch. 33).
17		
18	Q.	ARE YOU RECOMMENDING AN ADJUSTMENT TO THE COMPANY'S
19		PROPOSED ANNUAL DEPRECIATION EXPENSE IN THE FPFTY?
20	A.	Yes. Consistent with my recommended removal of the Company's plant-in-
21		service related to the MTWS, the annual depreciation expense must necessarily
22		also be adjusted. Therefore, I recommend that the Company's annual depreciation

1		expense claim in the FPFTY be reduced by \$107,323 from \$8,724,603 to
2		\$8,617,280 (I&E Ex. No. 3, Sch. 7, cols. C-E).
3		
4	Q.	HOW DID YOU DETERMINE YOUR ADJUSTMENT TO THE FPFTY
5		ANNUAL DEPRECIATION EXPENSE?
6	A.	I determined my adjustment to the FPFTY annual depreciation expense by
7		multiplying the adjusted original cost plant-in-service by the composite accrual
8		rate (I&E Ex. No. 3, Sch. 6, lines 14, 16, 25, and 51-55).
9		
10	Q.	DO YOU HAVE A RECOMMENDATION REGARDING THE
11		COMPANY'S ANNUAL DEPRECIATION EXPENSE CLAIM?
12	A.	Yes. Based on my use of average rate base methodology and my FPFTY annual
13		depreciation expense adjustments regarding the MTWS, discussed above, I
14		recommend an annual depreciation expense of \$8,391,033 be reflected in this case,
15		which represents a decrease of \$331,929 to the Company's annual depreciation
16		expense claim (\$8,722,962 - \$8,391,033) (I&E Ex. No. 3, Sch. 7).
17		My \$8,391,033 annual depreciation expense recommendation was
18		determined by taking the average of the annual depreciation expense in the FTY
19		and my adjusted annual depreciation expense in the FPFTY, less the \$950,910
20		depreciation on contribution in aid of construction ("CIAC") / Advances, as shown
21		on I&E Exhibit No. 3, Schedule 7 and below:
22		$(\$9,115,697 + \$9,568,190) \div 2 = \$9,341,943 - \$950,910 = \$8,391,033.$

ACCUMULATED DEPRECIATION

2 Q. WHAT IS ACCUMULATED?

3	A.	A utility's accumulated depreciation is the aggregate of all the annual depreciation
4		expenses over the years that the asset was in service. The accumulated
5		depreciation is subtracted from the original cost of plant in service as part of the
6		total rate base calculation.

7

8 Q. WHAT IS SWPA'S ACCUMULATED DEPRECIATION FOR THE FTY 9 AND FPFTY?

- A. The Company's accumulated depreciation for the FTY is \$78,617,020 and
 accumulated depreciation for the FPFTY is \$85,360,944 (SWPA Ex. No. CEH-1,
 Sch. 1.1).
- 13

14 Q. DO YOU HAVE A RECOMMENDATION REGARDING THE UTILITY'S 15 ACCUMULATED DEPRECIATION AT THE END OF THE FPTFY?

- 16 A. Yes. Based on my recommendation to remove the cost of the MTWS plant, there
- 17 should be a corresponding reduction of \$798,576 in accumulated depreciation
- 18 associated with the MTWS plant. Therefore, I recommend the Company's
- 19 accumulated depreciation in the FPFTY be decreased by \$798,576 from
- 20 \$85,360,943 to \$84,562,367 (I&E Ex. No. 3, Sch. 1, cols. D-F, line 11).

1	Q.	HOW DID YOU DETERMINE YOUR RECOMMENDED ADJUSTMENT		
2		TO THE ACCUMULATED DEPRECIATION AT THE END OF THE		
3		FPFTY?		
4	A.	As shown on I&E Exhibit No. 3, Schedule 6, first I determined the level of future		
5		accruals by multiplying the adjusted accrual amount (col. M) by the remaining life		
6		(column O). My recommended accumulated depreciation level was determined by		
7		subtracting the adjusted future accruals (column J) from the adjusted original cost		
8		plant-in-service (column E).		
9				
10	Q.	DO YOU HAVE A RECOMMENDATION REGARDING THE UTILITY'S		
11		ACCUMULATED DEPRECIATION THAT SHOULD BE REFLECTED IN		
12		RATE BASE?		
13	A.	Yes. Based on my use of average rate base methodology and my accumulated		
14		depreciation adjustment regarding the MTWS, discussed above, I recommend an		
15		accumulated depreciation of \$81,589,693 be reflected in this case, which		
16		represents a decrease of \$3,771,251 (\$81,589,693 - \$85,360,944) to the		
17		Company's accumulated depreciation claim.		
18				
19	Q.	HOW DID YOU DETERMINE YOUR RECOMMENDED		
20		ACCUMULATED DEPRECIATION AMOUNT?		
21	A.	I determined my recommended accumulated depreciation level by taking the		
22		average of the Company's accumulated depreciation for the FTY ending		

1		December 31, 2018 and my adjusted accumulated depreciation for the FPFTY	
2		ending December 31, 2019 as shown on I&E Exhibit No. 3, Schedule 1, line 11	
3		and below:	
4		$(\$78,617,020 + \$84,562,367) \div 2 = \$81,589,693.$	
5			
6		OTHER ADDITIONS AND DEDUCTIONS	
7	Q.	WHAT OTHER ADDITIONS AND DEDUCTIONS TO THE	
8		DEPRECIATED ORIGINAL COST OF UTILITY PLANT ARE	
9		ALLOWED?	
10	A.	Some of the additions to the depreciated original cost of a company's investment	
11		in utility include materials and supplies and cash working capital. Some of the	
12		deductions include deferred income taxes and contributions in aid of construction	
13		("CIAC"). Some additions are applicable to a specific utility or utility type. The	
14		FPFTY depreciated original cost claimed by SWPA in this proceeding is	
15		\$324,028,948 shown on SWPA Exhibit No. CEH-1, Schedule 1.1. The claimed	
16		additions to the Company's depreciated original cost are as follows:	
17		1. Cash Working Capital;	
18		2. Materials and Supplies;	
19		The deductions to the depreciated original cost are:	
20		1. CIAC and Contributions; and	
21		2. Deferred Taxes.	

Q. IS I&E RECOMMENDING ANY ADJUSTMENTS TO THE ADDITIONS AND DEDUCTIONS LISTED ABOVE?

- A. Yes. As discussed below, I am recommending adjustments to Materials and
 Supplies. Additionally, adjustments to cash working capital are discussed by I&E
 witness Grab in I&E Statement No. 1. I am not recommending any changes to the
 Company's CIAC and Contributions claim because the Company reflected the
 same amount in the HTY, FTY, and FPFTY and any adjustments were included in
 the net plant claim, therefore, an average would not change the amount reflected.
- 9

10 MATERIALS AND SUPPLIES

11 Q. HOW DID THE COMPANY DEVELOP ITS CLAIM FOR MATERIALS 12 AND SUPPLIES?

A. The Company's claim for Materials and Supplies was developed by first
calculating a thirteen-month average of plant balances for each in the historic test
year. The \$481,594 claim for Materials and Supplies is a 12-month average of the

- 16 HTY thirteen-month average plant balances as shown on SWPA Exhibit D V-11.
- 17 The Company used the same \$481,594 claim for Materials and Supplies in the
- 18 HTY, FTY, and FPFTY (SWPA Ex. No. CEH-1, Sch. 1.1).

1	Q.	WHAT DO YOU RECOMMEND CONCERNING THE COMPANY'S
2		\$481,594 CLAIM FOR MATERIALS AND SUPPLIES IN THE FPFTY?
3	A.	I recommend the Company's \$481,594 jurisdictional claimed level of Materials
4		and Supplies be increased by \$19,474 to \$501,067 (I&E Ex. No. 3, Sch. 1,
5		line 16).
6		
7	Q.	HOW DID YOU DETERMINE YOUR RECOMMENDED LEVEL OF
8		MATERIALS AND SUPPLIES?
9	A.	I updated the thirteen-month average balances of materials and supplies to account
10		for the additional actual balances provided by the Company in its responses to
11		I&E-RB-9 (supplemented on June 26, 2018), attached as I&E Exhibit No. 3,
12		Schedule 8. This update results in a total Company 12-month average material
13		supplies level of \$501,067 (I&E Ex. No. 3, Sch. 9). Because the Company
14		claimed the same level of Materials and Supplies in the HTY, FTY, and FPFTY,
15		the average of the FTY and FPFTY adjusted balances of Materials and Supplies is
16		the same \$501,067.
17		
18	Q.	IF THE COMPANY PROVIDES FURTHER UPDATES THROUGH THE
19		COURSE OF THIS PROCEEDING, SHOULD THE MATERIALS AND
20		SUPPLIES CLAIM BE ADJUSTED?
21	A.	Yes. It is appropriate to use the most recent data available to determine the

A. Yes. It is appropriate to use the most recent data available to deter
Materials and Supplies balance.

DEFERRED TAXES

2	Q.	WHAT AMOUNT OF DEFERRED TAXES DID THE COMPANY CLAIM
3		IN THE FTY AND FPFTY?
4	А.	The Company's claim for Deferred Taxes is \$18,237,542 in the FTY and
5		\$18,810,736 in the FPFTY (SWPA Ex. No. CEH-1, Sch. 4.1).
6		
7	Q.	ARE YOU RECOMMENDING AN ADJUSTMENT TO THE COMPANY'S
8		DEFERRED TAXES CLAIM THAT IS REFLECTED IN RATE BASE?
9	A.	Yes. I recommend that \$18,524,139 of Deferred Taxes be reflected in rate base
10		(I&E Ex. No. 3, Sch. 1, col. H, line 28).
11		
12	Q.	HOW DID YOU DETERMINE YOUR RECOMMENDED ADJUSTMENT
13		TO THE COMPANY'S CLAIM FOR DEFERRED TAXES?
14	А.	Based on the average rate base methodology, my recommended \$18,524,139 level
15		of Deferred Taxes was determined by taking the average of the Company's
16		Deferred Taxes claim for the FTY and the Company's Deferred Taxes claim for
17		the FPFTY as shown on I&E Exhibit No. 3, Schedule 1, line 15 and below:
18		$(\$18,237,542 + \$18,810,736) \div 2 = \$18,524,139.$
19		
20	Q.	WHAT EFFECT DOES I&E'S RECOMMENDED ADJUSTMENTS HAVE
21		ON SWPA'S RATE BASE AND ANNUAL DEPRECIATION EXPENSE
22		CLAIM?

1	A.	My use of the average rate base methodology and the resulting recommended
2		adjustments discussed above coupled with I&E witnesses Grab's rate base
3		adjustments reduce the Company's claimed rate base as shown on I&E Exhibit
4		No. 3, Schedule 1, line 18 and as follows:
5		

Effects of I&E's Plant in Service, Accumulated Depreciation Expenses, Materials and Supplies, Deferred Income Taxes, CIAC and Contributions, and Cash Working Capital on SWPA's Claimed Rate Base for the Fully Projected Future Test Year ending December 31, 2019

Line Company		I&E	I&E	
<u>No.</u>	Claimed	Adjustment	Recommended	
(A)	(B)	(C)	(D)	
1	\$243,448,860	\$(19,737,946)	\$233,710,914	

The same methodology reduces the annual depreciation expense claim as shown on I&E Exhibit No. 3, Schedule 7 and as follows:

I&E's Recommended Annual Depreciation Expense for the Fully Projected Future Test Year ending September 30, 2019			
Line No.	Company Claimed	I&E Adjustment	I&E Recommended
(A)	(B)	(C)	(D)
1	\$8,722,962	\$(331,929)	\$8,391,033

9

6

7

1 FTY AND FPFTY REPORTING

2	Q.	WHAT AMOUNT OF ADDITIONAL RATE BASE WILL BE
3		ASSOCIATED WITH THE INCLUSION OF THE FPFTY ENDING
4		DECEMBER 31, 2019 FOR SWPA?
5	A.	As mentioned above, the Company's rate base for the FPFTY ending December
6		31, 2019 is \$243,448,860 (SWPA Ex. No. CEH-1, Sch. 1.1). SWPA's rate base
7		for the FTY ending December 31, 2018 is \$209,048,221 (SWPA Ex. No. CEH-1,
8		Sch. 1.1). Therefore, \$47,888,486 (\$243,448,860 - \$209,048,221) of rate base
9		additions are associated with the twelve months between the end of FTY and the
10		end of the FPFTY.
11		
12	Q.	DO YOU HAVE ANY RECOMMENDATIONS REGARDING PLANT
13		ADDITIONS THAT SWPA PROJECTS TO BE IN SERVICE DURING
14		THE FTY ENDING DECEMBER 31, 2018 AND THE FPFTY ENDING
15		DECEMBER 31, 2019?
16	A.	Yes. I recommend that the Company provide the Commission's Bureaus of
17		Technical Utility Services and Investigation and Enforcement with an update to
18		SWPA Exhibit No. JDH-1, no later than April 1, 2019, which should include
19		actual capital expenditures, plant additions, and retirements by month from
20		January 1, 2017 through December 31, 2018 and an additional update for actuals
21		from January 1, 2019 through December 31, 2019, no later than April 1, 2020.

Q. WHY DO YOU RECOMMEND THAT SWPA PROVIDE THESE 2 UPDATES?

A. Although I&E is recommending that SWPA's plant projections be modified by
applying the average rate base methodology, I&E continues to believe that there is
value in determining how closely SWPA's projected investments in future facility
comport with the actual investments that are made by the end of the FTY and
FPFTY. Determining the correlation between SWPA's projected and actual
results will help inform the Commission and the parties in SWPA's future rate
cases.

10 Whether based on the average rate base methodology or an end-of-year rate 11 base value, the updates are important. As I previously explained, through use of 12 the FPFTY, SWPA is essentially requiring ratepayers to pre-pay a return on its 13 projected investment in future facilities that are not in place and providing service 14 at the time the new rates take effect, but also are not subject to any guarantee of 15 being completed and placed into service. While the FPFTY provides for such 16 projections, there should be verification of the projections. Therefore, requiring 17 the Company to provide updates demonstrating that actual investment comports 18 with projections used in setting rates using the FPFTY provides the Commission 19 with actual data to gauge the accuracy of SWPA's projected investments in future 20 proceedings.

21

1	PRESENT RATE REVENUE

2	Q.	WHAT IS THE COMPANY'S CLAIMED PRESENT RATE REVENUE
3		LEVEL IN THE FPFTY?

- A. The Company's claimed revenues under pro forma present rates in the FPFTY
 ending December 31, 2019 is \$47,382,250 (SWPA Exhibit No. CEH-1, Schedule
 4, col. 8).
- 7

8 Q. DOES THE COMPANY'S PRESENT RATE REVENUES INCLUDE AN 9 ADJUSTMENT FOR THE MTWS?

- 10 A. Yes. As stated on page 7 of SWPA Statement No. 2, the adjustment for the
- 11 acquisition of the MTWS is shown on SWPA Exhibit No. CEH-1, Schedule 9.3,
- 12 Adjustment 3 and included in the adjustments on SWPA Exhibit No. CEH-1,
- 13 Schedules 5 and 3. The total adjustment for the MTWS under present rates is an

14 addition of \$613,261 (SWPA Ex. No. CEH-1, Sch. 5, col. 7).

15

16 Q. DO YOU HAVE ANY RECOMMENDATIONS REGARDING THE MTWS

17 **REVENUE ADJUSTMENTS?**

- 18 A. Yes. Consistent with my recommendation above to deny the inclusion of the
- 19 MTWS acquisition in the current base rate case, I recommend that the \$613,261
- 20 revenue adjustments associated with the MTWS be denied.

Q. OTHER THAN THE MTWS REVENUE ADJUSTMENT DISCUSSED ABOVE, IDENTIFY THE BASIS FOR THE COMPANY'S FPFTY PRESENT RATE REVENUE LEVEL.

4 A. As discussed on SWPA Statement No. 2, pages 5-7, the Company's pro forma 5 revenue at present rates is calculated by taking an application of present rates to 6 the consumption analysis shown on SWPA Exhibit No. CEH-1, Schedule 5 and 7 multiplied by an adjustment factor. Then, the pro forma revenue is adjusted for 8 annualized customer growth, declining usage, and the effects of the Company's 9 territory expansion, labeled as Trunk Line, and described on SWPA Statement No. 10 1, pp. 22-24. These adjustments are summarized on SWPA Exhibit No. CEH-1, 11 Schedule 5.

12

13 Q. WHAT DO YOU RECOMMEND REGARDING THE COMPANY'S

14 CLAIMED PRESENT RATE REVENUE?

A. I recommend the Company's present rate revenue level be decreased by \$655,983
from \$47,382,250 to \$46,320,657 (I&E Ex. No. 3, Sch. 10, col. F-G, line 18).

17

18 Q. WHY DO YOU RECOMMEND THE COMPANY'S CLAIMED PRESENT

- 19 **RATE REVENUE BE DECREASED TO \$46,320,657?**
- A. In addition to the MTWS adjustment discussed above, when calculating a revenue requirement in a designated test year, it is vital that the expenses and revenues are assessed using the same time period. In this case, I&E is recommending the

1		application of an average rate base to calculate the Company's rate base and
2		depreciation expense claims, as described above. Therefore, for purposes of
3		consistency, it is also necessary to calculate the Company's present rate revenue
4		level in the FPFTY using a consistent average methodology.
5		
6	Q.	HOW DID YOU DETERMINE YOUR RECOMMENDED PRESENT RATE
7		REVENUE LEVEL IN THE FPFTY.
8	A.	I determined my recommended present rate revenue level in the FPFTY by
9		removing the MTWS adjustment, then applying an average methodology to the
10		remaining customer growth, declining usage, and Trunk Line adjustments.
11		
12	Q.	IDENTIFY AND EXPLAIN YOUR ADJUSTMENT TO THE CUSTOMER
13		GROWTH ADJUSTMENT.
13 14	A.	GROWTH ADJUSTMENT. The Company's adjustment for customer growth is shown on SWPA Exhibit No.
	A.	
14	A.	The Company's adjustment for customer growth is shown on SWPA Exhibit No.
14 15	A.	The Company's adjustment for customer growth is shown on SWPA Exhibit No. CEH-1, Schedule 9.1. The Company projects the same customer growth in the
14 15 16	A.	The Company's adjustment for customer growth is shown on SWPA Exhibit No. CEH-1, Schedule 9.1. The Company projects the same customer growth in the FTY and the FPFTY, therefore, an average of the annualized number of bills (or
14 15 16 17	A.	The Company's adjustment for customer growth is shown on SWPA Exhibit No. CEH-1, Schedule 9.1. The Company projects the same customer growth in the FTY and the FPFTY, therefore, an average of the annualized number of bills (or the forecasted customer growth multiplied by 12), would simply be half of the
14 15 16 17 18	A.	The Company's adjustment for customer growth is shown on SWPA Exhibit No. CEH-1, Schedule 9.1. The Company projects the same customer growth in the FTY and the FPFTY, therefore, an average of the annualized number of bills (or the forecasted customer growth multiplied by 12), would simply be half of the projected number of bills in the FPFTY. These calculations are shown on I&E
14 15 16 17 18 19	A.	The Company's adjustment for customer growth is shown on SWPA Exhibit No. CEH-1, Schedule 9.1. The Company projects the same customer growth in the FTY and the FPFTY, therefore, an average of the annualized number of bills (or the forecasted customer growth multiplied by 12), would simply be half of the projected number of bills in the FPFTY. These calculations are shown on I&E Exhibit No. 3, Schedule 11, line 7. The number of bills is then multiplied by an

1		volume per normalization (I&E Ex. No. 3, Sch. 11, lines 9-11) and a volumetric
2		charge (I&E Ex. No. 3, Sch. 11, lines 4-5) to determine the revenue from the
3		volumetric charge (I&E Ex. No. 3, Sch. 11, lines 13-14). The revenue from the
4		service charge and the revenue from the volumetric charge are then added together
5		to determine the total revenue adjustment for customer growth for each rate class
6		(I&E Ex. No. 3, Sch. 11, line 15). The result of my average methodology is to
7		reduce the total customer growth adjustment by \$162,011 from \$336,786 to
8		\$174,775 (I&E Ex. No. 3, Sch. 11, line 16, col. M-O).
9		
10	Q.	IDENTIFY AND EXPLAIN YOUR ADJUSTMENT TO THE DECLINING
11		USAGE ADJUSTMENT.
12	А.	The Company's adjustment for declining is shown on SWPA Exhibit No. CEH-1,
13		Schedule 9.2. The Company's projected daily usage for the residential class is
14		113.53 gallons per day in the FTY and 111.32 gallons per day in the FPFTY. For
15		the commercial class, the projected daily usage is 808.25 gallons per day in the
16		FTY and 798.96 gallons per day in the FPFTY. In order to determine the usage at
17		the midpoint of the FPFTY, I took the average of the projected daily usage in the
18		FTY and FPFTY (I&E Ex. No. 3, Sch. 12, line 12). The result is an increase in the
19		projected daily usage in the FPFTY of 1.10 gallons per day from 111.32 gallons
20		per day to 112.42 for the residential class and an increase of 4.64 gallons per day
21		from 798.86 gallons per day to 803.6 gallons per day.

1		To determine the revenue adjustment derived from the declining usage, the
2		difference in daily usage between the actual 2017 daily usage and the projected
3		daily usage in the FPFTY is multiplied by 30 and divided by 1,000 to determine
4		the reduction in monthly usage per thousand gallons as shown on I&E Exhibit No.
5		3, Schedule 12, lines 11-15. The result under my recommendation is an average
6		reduction in monthly usage per 1,000 gallons of 0.10 ((112.42 – 115.73) x 30 /
7		1,000) for the residential class and an average reduction in monthly usage per
8		1,000 gallons of 0.42 ((803.60 – 817.54) x 30 / 1,000) for the commercial class.
9		Finally, the average reduction in monthly usage per 1,000 gallons is
10		multiplied by the actual normalized bills for each class shown on line 10 of I&E
11		Exhibit No. 12 and by the first block usage rate under present rates of \$7.7506 per
12		1,000 gallons (I&E Ex. No. 3, Sch. 12, line 17) to determine the revenue
13		adjustment for declining usage. As shown on I&E Exhibit No. 3, Schedule 12,
14		columns C and F, line 18, the adjustment in present rate revenue under my
15		recommendation for the residential class is to increase the adjustment by \$167,415
16		from negative \$669,310 to negative \$501,895 ((0.1) x 652,728 x 7.7506) and for
17		the commercial class is to increase the adjustment by \$61,235 from negative
18		\$245,006 to negative \$183,771 ((0.42) x 56,712 x 7.7506).
19		
20	Q.	IDENTIFY AND EXPLAIN YOUR ADJUSTMENT TO THE TRUNK LINE

ADJUSTMENT.

1	A.	The Company's adjustment for the Trunk Line is shown on SWPA Exhibit No.
2		CEH-1, Schedule 9.4. This adjustment is comprised of two parts; a service charge
3		adjustment for the addition of 252 customers and a volumetric rate adjustment for
4		usage at the projected usage level in the FPFTY. Because the 252 additional
5		customers are projected to be added in the FPFTY, I determined that the number
6		of customers at the mid-point of the FPFTY would simply be half of the
7		customers, or 126.
8		Similar to the customer growth adjustment described above, the service
9		charge adjustment is calculated by multiplying the average number of customers
10		by 12 to determine the number of bills (126 x $12 = 1,512$), the multiplying the
11		number of bills by the present rate service charge of \$13.75, which results in a
12		reduction of \$20,790 from the Company's revenue from service charge of \$41,580
13		to \$20,790 (1,512 x \$13.75) (I&E Ex. No. 3, Sch. 13, line 7).
14		Similar to the usage decline adjustment described above, the revenue
15		adjustment from the volumetric charge is calculated by determining the monthly
16		volumes per normalization, or the projected daily usage in gallons multiplied by
17		30 and divided by 1,000. Using the projected usage for the FPFTY that I
18		recommended above of 112.42, the monthly volumes per normalization is 3.37
19		((112.42 x 30) / 1,000) or an increase of 0.03 from the Company's 3.34 (I&E Ex.
20		No. 3, Sch. 13, line 4). The revenue from the volumetric charge is determined by
21		multiplying the monthly volumes per normalization by the annualized number of
22		bills and by the present rate volumetric charge of \$7.7506. the result under my

1		recommendation is \$39,528 (3.34 x 1,512 x \$7.7506) or a reduction of \$38,754
2		from the Company's adjustment of \$78,282 (I&E Ex. No. 3, Sch. 13, line 13).
3		My total recommended Trunk Line adjustment is the sum of the revenue
4		from the service charge and revenue from the volumetric charge, or \$60,318
5		(\$20,790 + \$39,528). This represents a reduction of \$59,544 from the Company's
6		\$119,862 adjustment level (I&E Ex. No. 3, Sch. 13, line 15).
7		
8	Q.	ARE YOU RECOMMENDING ANY OTHER ADJUSTMENTS TO THE
9		PRESENT RATE REVENUE?
10	A.	Yes. SWPA Exhibit No. CEH-1, Schedule 4 includes an adjustment to present
11		rate revenue for the add back of annualized DSIC revenue. This adjustment is
12		calculated by multiplying the sum of column 5, revenue under present rates, and
13		column 6, adjustments to present rates, by 7.5%. As I described above, my
14		recommendation alters the adjustments to present rates. Therefore, the calculated
15		adjustment for annualized DSIC revenue would also be adjusted under my
16		recommendation. My recommended adjustment for annualized DSIC revenue is a
17		reduction of \$45,766 from \$3,112,098 (SWPA Ex. No. CEH-1, Sch. 4, col. 7) to
18		\$3,066,331 (I&E Ex. No. 3, Sch. 10, col. E, line 18).
19		
20	Q.	WHAT IS YOUR TOTAL RECOMMENDED CHANGE TO THE
21		REVENUE UNDER PRESENT RATES?

1	A.	The adjustments to revenue under present rates by rate class are summarized on
2		I&E Exhibit No. 3, Schedule 14. My recommendation is to reduce present rate
3		revenue by \$655,983 from \$47,382,250 to \$46,320,657 (I&E Ex. No. 3, Sch. 10,
4		line 18, col. F-H).
5		
6		REVENUE UNDER PROPOSED RATES
7	Q.	DOES THE COMPANY INCLUDE ANY ADJUSTMENTS TO ITS
8		REVENUE UNDER PROPOSED RATES?
9	A.	Yes. As shown on SWPA Exhibit No. CEH-1, Schedule 2, column 6, the
10		Company is including \$772,793 in adjustments to its proposed rate revenues.
11		
12	Q.	ARE YOU RECOMMENDING ANY CHANGES TO THE COMPANY'S
13		ADJUSTMENTS TO ITS REVENUE UNDER PROPOSED RATES?
14	A.	Yes. As a result of my recommendation regarding the MTWS acquisition and the
15		average rate base methodology, as discussed above, I am recommending the
16		Company's total adjustments to proposed rate revenue be reduced by \$846,091
17		from \$772,793 to negative \$73,299 (I&E Ex. No. 3, Sch. 15, col. E-G, line 9). My
18		recommendation reduces the Company's total proposed rate revenue by the same
19		\$846,091 from \$53,618,655 to \$52,722,563 (I&E Ex. No. 3, Sch. 15, col. H-K,
20		line 9).

Q. HOW DID YOU DETERMINE YOUR RECOMMENDED REVENUE UNDER PROPOSED RATES?

3	A.	As shown on I&E Exhibit No. 3, Schedule 16, p. 2, I determined my
4		recommended adjustments to the Company's proposed rates by multiplying the
5		number of bills and consumption, adjusted for the average rate base methodology
6		as discussed above, by the Company's proposed rates. I also removed the
7		adjustments to proposed rates associated with the MTWS acquisition. My
8		recommended changes to the proposed revenue adjustments are summarized on
9		I&E Exhibit No. 3, Schedule 17.
10		
11		CUSTOMER COST ANALYSIS
12	Q.	WHAT IS A CUSTOMER COST ANALYSIS AND HOW IS IT USED?
13	A.	A customer cost analysis is part of a cost of service study that includes only direct
14		and some indirect customer costs. It is used to determine the appropriate customer
15		charges for the various classes.
16		
17	Q.	WHAT ARE DIRECT AND INDIRECT CUSTOMER COSTS?
18	•	A direct customer cost is an expense or plant item that changes every time the
	А.	
19	A.	Company adds new customers or when customers leave the system. They are

- 21 Indirect costs are costs that do not change with the addition or subtraction of
- 22 customers but could be considered customer related.

Q. WHY IS IT IMPORTANT TO DISTINGUISH BETWEEN DIRECT AND INDIRECT CUSTOMER COSTS AS YOU HAVE DEFINED THEM?

3 As acknowledged in the seventh edition of the American Water Works A. 4 Association M1 Manual, there is a tradeoff between revenue stability from a high 5 customer charge and affordability and conservation from a low customer charge and higher usage rates.⁴ In providing utility service to ratepayers utilities in 6 7 general, and SWPA in particular, entire business are based around serving 8 customers. Using a loose definition of direct customer costs, such as those costs 9 allocated based on customer count in the cost of service study, as is the case with 10 Mr. Herbert's fully allocated customer cost analysis, could have the effect of 11 driving up the customer charge which adversely effects conservation and low-12 income customers. The Commission has recognized this fact in previous cases and it is now common practice in Pennsylvania to allocate only direct customer 13 14 cost as well as some indirect customer costs int the customer cost analysis.

15

16 Q. DID THE COMPANY PREPARE A CUSTOMER COST ANALYSIS TO

17 SUPPORT ITS PROPOSAL TO INCREASE ITS CUSTOMER CHARGES?

A. The Company provided a breakdown of the various costs included in its proposed
customer charges in a schedule entitled "Direct Customer Costs - Detail" (SWPA
Ex. PRH-1, Schedule H).

⁴ AWWA Manual of Water Supply Practices M1 Principles of Water Rates, Fees, Charges, Seventh Edition. pp. 154-155.

Q. WHAT COSTS ARE INCLUDED IN THE COMPANY'S DIRECT CUSTOMER COST ANALYSIS?

3 The Company's customer cost analysis is split into three categories of allocation: A. 4 Meters, Services, and Billing and Collecting. The costs allocated specifically to 5 Meters are Operation and Maintenance Expenses: T&D Labor – Operation – 6 Employee Salaries – Supervision, Employee Salaries – Meters, and Fringe 7 Benefits, as well as Rate Base: Meters and Depreciation Expense: Meters. The 8 costs allocation specifically to Services are Operation and Maintenance Expenses: 9 T&D Labor – Maintenance – Employee Salaries – Supervision, Employee Salaries 10 - Structures and Improvements, Employee Salaries - Services, and Fringe 11 Benefits, as well as Rate Base: Services and Depreciation Expense: Services. 12 The following costs are allocated across all three categories: Management 13 Fees – Employee Related, Transportation Expense, Worker's Compensation, 14 Advertising Expense, Office Rents as well as the Depreciation Expense costs from 15 Office Buildings and Office Furntiure & Equipment. Also allocated across all

Equipment, Materials and Supplies, and Deferred Taxes, in addition to Payroll
Taxes.

three categories are Rate Base costs from Office Buildings, Office Furntiure &

16

Finally, the following costs are allocated solely to the Billing and
 Collecting category: Total Customer Accounting Expense, Management Fees –
 Customer Related, and Rate Base and Depreciation Expense associated with
 Computer Software – CIS. It should be noted that the Total Customer Accounting

1		Expense includes costs that are not shown on SWPA Exhibit No. PRH-1, Schedule
2		H, p. 2, but instead are detailed on SWPA Exhibit D VIII-01i, p. 4 of 8 as follows:
3		Employee Salaries – Supervision, Employee Salaries – Meter Reading, Employee
4		Salaries – Billing, Fuel for Power Production, Material and Supplies, Outside
5		Services, Outside Services – Mahoning, Rental of Equipment, Transportation
6		Expense, Bad Debt Expense, Fringe Benefits, Miscellaneous Other, Office
7		Expenses, Utilities and Other, and Postage.
8		
9	Q.	WHAT IS THE RESULT OF THE COMPANY'S CUSTOMER COST
10		ANALYSIS?
11	А.	The result of the Company's customer cost analysis is a monthly cost per 5/8-inch
12		Meter of \$14.96 as shown on SWPA Exhibit No. PRH-1, Schedule H, p. 1, that
13		the Company used to support its proposed customer charge of \$15.00.
14		
15	Q.	DO YOU AGREE WITH THE COMPANY'S CUSTOMER COST
16		ANALYSIS?
17	А.	No. Consistent with my rejection of the MTWS above, the \$5,372 of Customer
18		Accounts cost Outside Services – Mahoning (SWPA Ex. D VIII-01i, p. 4 of 8)
19		should be removed from the customer cost analysis. Furthermore, I believe, based
20		on my definition above, that the Company has included costs that are not direct
21		customer costs or the indirect costs that have been allowed by the Commission in
22		the past. The following indirect costs should be removed from the customer cost

1	analysis: Operation and Maintenance Expenses: T&D Labor – Maintenance –
2	Employee Salaries – Structures and Improvements, Transportation Expense,
3	Worker's Compensation, Management Fees – Employee Related, and
4	Management Fees – Customer Related, and a part of the Total Customer
5	Accounting Expense (I&E Ex. No. 3, Sch. 18). The costs that are a part of the
6	Total Customer Accounting Expense that should not be included in the customer
7	cost analysis because they are not direct customer costs are as follows: Fuel for
8	Power Production, Rental of Equipment, Bad Debt Expense, Miscellaneous Other,
9	Office Expenses, and Utilities and Other. These costs do not change with the
10	addition or subtraction of a single customer and, therefore, should not be included
11	in the calculation of the customer charge.

13 Q. WHAT IS THE TOTAL CUSTOMER COST AND PUBLIC FIRE

14 MONTHLY COST PER 5/8-INCH METER?

15 A. The total customer cost and public fire monthly cost per 5/8-inch meter that results

16 from my recommended customer cost analysis is \$14.01 per customer per month

- 17 (I&E Ex. No. 3, Sch. 19, col. D, line 6). This is a reduction of \$0.95 from the
- 18 Company's unit cost per customer of \$14.96 (I&E Ex. No. 3, Sch. 19, col. D-F,

19 line 6).

1 <u>CUSTOMER CHARGES</u>

2	Q.	WHAT IS THE COMPANY'S PRESENT 5/8-INCH SERVICE CHARGE?
3	A.	The Company's current 5/8-inch service charge for all rate classes is \$13.75 per
4		month (SWPA Ex. No. PRH-1, Sch. 1, p. 1). The Company's customer charge
5		rate schedule is based on meter size and is the same for all rate classes (SWPA Ex.
6		No. PRH-1, Schedule I, p. 1).
7		
8	Q.	WHAT 5/8-INCH SERVICE CHARGE IS THE COMPANY PROPOSING
9		FOR THE CUSTOMER CLASSES?
10	A.	The Company is proposing a 5/8-inch service charge of \$15.00 for the residential
11		classes. This is an increase of \$1.25, or approximately 9%, over the Company's
12		current customer charge of \$13.75 (SWPA Ex. No. PRH-1, Sch. I, p. 1).
13		
14	Q.	HOW DO YOU ASSESS THE REASONABLENESS OF A UTILITY'S
15		PROPOSED CUSTOMER CHARGE?
16	A.	Generally, my assessment of the reasonableness of a utility's proposed customer
17		charge is based two factors: the customer cost analysis that properly includes only
18		direct customer costs and some appropriately included indirect customer costs and
19		whether the proposed increase to the customer charge violates the concept of
20		gradualism.

1 Q. WHAT IS GRADUALISM?

2	A.	Gradualism is a well-established ratemaking concept that seeks to limit the
3		immediate increases customers receive when rates are increased and implement
4		significant rate changes on a more gradual basis over time.

5

6 Q. DO YOU AGREE WITH THE COMPANY'S RECOMMENDED 5/8-INCH 7 CUSTOMER CHARGE OF \$15.00?

8 A. No. While the Company's proposed 9% increase to the customer charge does

9 satisfy the concept of gradualism, the Company's proposed customer charge is not
10 supported by a customer cost analysis that properly includes only direct customer
11 costs as well as some appropriately included indirect customers costs, as I discuss
12 above. Therefore, I recommend the Company's proposed \$15.00 customer charge
13 denied.

14

15 Q. WHAT CUSTOMER CHARGE ARE YOU RECOMMENDING?

- A. I am recommending a \$14.00 customer charge for the residential classes. This is an
 increase of \$0.25, or 1.8%, over the Company's current \$13.75 customer charge.
- 18 My recommended \$14.00 customer charge is based on my recommended customer
- 19 cost analysis as described above.
- 20

Q. DID THE COMPANY PROPOSE AN INCREASE TO ANY OTHER RATE CUSTOMER CHARGES?

- A. Yes. The Company rate schedule consists of customer charges based on meter size,
 which are then applied to all rate classes. As shown on PWSA Ex. No. PRH-1,
 Sch. I, p. 1, the Company is recommending an increase to each customer charge of
 approximately 9%, consistent with the 5/8-inch customer charge.
- 5

6 Q. ARE YOU RECOMMENDING ANY ADJUSTMENTS TO THE CUSTOMER 7 CHARGES FOR THE OTHER METER SIZES?

8 A. Yes. I recommend the customer charges of the other meter sizes also be increase by
9 approximately 1.8%, consistent with my recommended increase of the 5/8-inch
10 customer charge. My recommended increase to each customer charge by meter size
11 is shown below:

12

Meter Size	Present Rate	I&E Proposed	Percent Increase
5/8 & 3/4-inch	\$13.75	\$14.00	1.818%
1-inch	\$28.50	\$29.00	1.754%
1 ½-inch	\$57.00	\$58.00	1.754%
2-inch	\$97.63	\$99.40	1.813%
3-inch	\$183.13	\$186.50	1.840%
4-inch	\$305.25	\$310.80	1.818%
6-inch	\$610.50	\$621.60	1.818%
8-inch	\$976.88	\$994.60	1.814%

1 <u>SCALE BACK OF RATES</u>

2 Q. WHAT DO YOU RECOMMEND SHOULD THE COMMISSION GRANT 3 LESS THAN THE COMPANY'S FULLY REQUESTED INCREASE?

- 4 A. Should the Commission grant less than the Company's fully requested increase
- 5 and approves my recommended customer charges described above, I recommend
- 6 the usage rates be scaled back prior to the scale back of my recommended
- 7 customer charge until the usage rates are at present rate levels. However, if the
- 8 usage rates are scaled back to present rate levels, I recommend the customer
- 9 charge then be scaled back.
- 10

11 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

12 A. Yes.

Appendix A

ETHAN H. CLINE

PROFESSIONAL EXPERIENCE AND EDUCATION

EXPERIENCE:

03/2009 - Present

Bureau of Investigation and Enforcement, Pennsylvania Public Utility Commission -Harrisburg, Pennsylvania

<u>Fixed Utility Valuation Engineer</u> – Assists in the performance of studies and analyses of the engineering-related areas including valuation, depreciation, cost of service, quality and reliability of service as they apply to fixed utilities. Assists in reviewing, comparing and performing analyses in specific areas of valuation engineering and rate structure including valuation concepts, original cost, rate base, fixed capital costs, inventory processing, excess capacity, cost of service, and rate design.

06/2008 - 09/2008

Akens Engineering, Inc. - Shiremanstown, Pennsylvania

<u>Civil Engineer</u> – Responsible, primarily, for assisting engineers and surveyors in the planning and design of residential development projects

10/2007 - 05/2008

J. Michael Brill and Associates - Mechanicsburg, Pennsylvania

<u>Design Technician</u> – Responsible, primarily, for assisting engineers in the permit application process for commercial development projects.

01/2006 – 10/2007 CABE Associates, Inc. - Dover, Delaware

<u>Civil Engineer</u> – Responsible, primarily, for assisting engineers in performing technical reviews of the sewer and sanitary sewer systems of Sussex County, Delaware residential development projects.

EDUCATION:

<u>Pennsylvania State University</u>, State College, Pennsylvania Bachelor of Science; Major in Civil Engineering, 2005

• Attended NARUC Rate School, Clearwater, FL

TESTIMONY SUBMITTED:

I have testified and/or submitted testimony in the following proceedings:

- 1. Clean Treatment Sewage Company, Docket No. R-2009-2121928
- 2. Pennsylvania Utility Company Water Division, Docket No. R-2009-2103937
- 3. Pennsylvania Utility Company Sewer Division, Docket No. R-2009-2103980
- 4. UGI Central Penn Gas, Inc., 1307(f) proceeding, Docket No. R-2010-2172922
- 5. PAWC Clarion Wastewater Operations, Docket No. R-2010-2166208
- 6. PAWC Claysville Wastewater Operations, Docket No. R-2010-2166210
- 7. Citizens' Electric Company of Lewisburg, Pa, Docket No. R-2010-2172665
- 8. City of Lancaster Bureau of Water, Docket No. R-2010-2179103
- 9. Peoples Natural Gas Company LLC, Docket No. R-2010-2201702
- 10. UGI Central Penn Gas, Inc., Docket No. R-2010-2214415
- 11. Pennsylvania-American Water Company, Docket No. R-2011-2232243
- 12. Pentex Pipeline Company, Docket No. A-2011-2230314
- 13. Peregrine Keystone Gas Pipeline, LLC, Docket No. A-2010-2200201
- 14. Philadelphia Gas Works 1307(f), Docket No. R-2012-2286447
- 15. Peoples Natural Gas Company LLC, Docket No. R-2012-2285985
- 16. Equitable Gas Company, Docket Nos. R-2012-2312577, G-2012-2312597
- 17. City of Lancaster Sewer Fund, Docket No. R-2012-2310366
- 18. Peoples TWP, LLC 1307(f), Docket No. R-2013-2341604
- 19. UGI Penn Natural Gas, Inc. 1307(f), Docket No. R-2013-2361763
- 20. UGI Central Penn Gas, Inc. 1307(f), Docket No. R-2013-2361764
- 21. Joint Application, Docket Nos. A-2013-2353647, A-2013-2353649, A-2013-2353651
- 22. City of Dubois Bureau of Water, Docket No. R-2013-2350509
- 23. The Columbia Water Company, Docket No. R-2013-2360798
- 24. Pennsylvania American Water Company, Docket No. R-2013-2355276
- 25. Generic Investigation Regarding Gas-on-Gas Competition, Docket Nos. P-2011-227868, I-2012-2320323
- 26. Philadelphia Gas Works 1307(f), Docket No. R-2014-2404355
- 27. Pike County Light and Power Company (Gas), Docket No. R-2013-2397353
- 28. Pike County Light and Power Company (Electric), Docket No. R-2013-2397237
- 29. Peoples Natural Gas Company LLC 1307(f), Docket No. R-2014-2403939
- 30. UGI Penn Natural Gas, Inc. 1307(f), Docket No. R-2014-2420273
- 31. UGI Utilities, Inc. Gas Division 1307(f), Docket No. R-2014-2420276
- 32. UGI Central Penn Gas, Inc. 1307(f), Docket No. R-2014-2420279
- 33. Emporium Water Company, Docket No. R-2014-2402324
- 34. Borough of Hanover Hanover Municipal Water, Docket No. R-2014-2428304
- 35. Philadelphia Gas Works 1307(f), Docket No. R-2015-2465656
- 36. Peoples Natural Gas Company LLC 1307(f), Docket No. R-2015-2465172

- 37. Peoples Natural Gas Company Equitable Division 1307(f), Docket No. R-2015-2465181
- 38. PPL Electric Utilities Corporation, Docket No. R-2015-2469275
- 39. UGI Penn Natural Gas, Inc. 1307(f), Docket No. R-2015-2480934
- 40. UGI Central Penn Gas, Inc. 1307(f), Docket No. R-2015-2480937
- 41. UGI Utilities, Inc. Gas Division 1307(f), Docket No. R-2015-2480950
- 42. UGI Utilities, Inc. Gas Division, Docket No. R-2015-2518438
- 43. Joint Application of Pennsylvania American Water, et al., Docket No. A-2016-2537209
- 44. UGI Utilities, Inc. Gas Division 1307(f), Docket No. R-2016-2543309
- 45. UGI Central Penn Gas, Inc. 1307(f), Docket No. R-2016-2543311
- 46. City of Dubois Company, Docket No. R-2016-2554150
- 47. UGI Penn Natural Gas, Inc., Docket No. R-2016-2580030
- 48. UGI Central Penn Gas, Inc. 1307(f), Docket No. R-2017-2602627
- 49. UGI Penn Natural Gas, Inc. 1307(f), Docket No. R-2017-2602633
- 50. UGI Utilities, Inc. Gas Division 1307(f), Docket No. R-2017-2602638
- 51. Application of Pennsylvania American Water Company Acquisition of the Municipal Authority of the City of McKeesport, Docket No. A-2017-2606103
- 52. Pennsylvania American Water Company, Docket No. R-2017-2595853
- 53. Pennsylvania American Water Company Lead Line Petition, Docket No. P-2017-2606100
- 54. UGI Utilities, Inc. Electric Division, Docket No. R-2017-2640058
- 55. Peoples Natural Gas Company, LLC Peoples and Equitable Division 1307(f), Docket Nos. R-2018-2645278 & R-2018-3000236
- 56. Peoples Gas Company, LLC 1307(f), Docket No. R-2018-2645296
- 57. Columbia Gas of Pennsylvania, Inc., Docket No. R-2018-2647577
- 58. Duquesne Light Company, Docket No. R-2018-3000124

I&E Exhibit No. 3 Witness: Ethan H. Cline

PENNSYLVANIA PUBLIC UTILITY COMMISSION

v.

SUEZ WATER PENNSYLVANIA, INC.

Docket Nos. R-2018-3000834

Exhibit to Accompany

the

Direct Testimony

of

Ethan H. Cline

Bureau of Investigation and Enforcement

Concerning:

Test Year Average Rate Base FTY and FPFTY Reporting Present Rate Revenue Proposed Rate Revenue Customer Cost Analysis Customer Charges Scale Back of Rates

SUEZ Water Pennsylvania, inc. I&E ADJUSTMENTS TO RATE BASE R-2018-3000834

		Company As Filed Rate Base									
Line		As of		As of							
No.	Description	December 31, 2018	Adjustments	December 31, 2019							
		(A)	(B)	(C)							
1	Original Cost of Utility Plant in Service	\$367,714,123	\$41,675,769	\$409,389,892							
2	Accumulated Depreciation	\$78,617,020	\$6,743,924	\$85,360,944							
3	Net Plant in Service	\$289,097,103	\$34,931,845	\$324,028,948							
4	CIAC and Contributions	(\$63,114,693)	\$0	(\$63,114,693)							
5	Add:										
6	Deferred Taxes	(\$18,237,542)	(\$573,193)	(\$18,810,736							
7	Materials and Supplies	\$481,594	\$0	\$481,594							
8	Cash Working Capital	\$821,760	\$41,986	\$863,746							
9	Total Rate Base	\$209,048,221	\$34,400,638	\$243,448,860							

			I&E ADJUSTMENTS TO RATE BASE												
		Company		I&E	Company		18E	1&E							
Line		Pro Forma	Adjusted	Pro Forma	Pro Forma	Adjusted	Pro Forma								
No.	Description	December 31, 2018	From Company	December 31, 2018	December 31, 2019	From Company	December 31, 2019	Adjustments	Average						
		(A)	(B)	(C)	(D)	(E)	(F)	(G)=(H)-(D)	(H)						
10	Original Cost of Utility Plant in Service	\$367,714,123	\$0	\$367,714,123	\$409,389,892	(\$5,820,000)	\$403,569,892	(\$23,747,885)	\$385,642,008						
11	Accumulated Depreciation	\$78,617,020	\$0	\$78,617,020	\$85,360,944	(\$798,577)	\$84,562,367	(\$3,771,251)	\$81,589,693						
12	Net Plant in Service	\$289,097,103	\$0	\$289,097,103	\$324,028,948	(\$5,021,423)	\$319,007,526	(\$19,976,634)	\$304,052,314						
13	CIAC and Contributions	(\$63,114,693)	\$0	(\$63,114,693)	(\$63,114,693)	\$0	(\$63,114,693)	\$0	(\$63,114,693)						
14	Add:														
15	Deferred Taxes	(\$18,237,542)	\$0	(\$18,237,542)	(\$18,810,736)	\$0	(\$18,810,736)	\$286,597	(\$18,524,139)						
16	Materials and Supplies	\$481,594	\$19,474	\$501,067	\$481,594	\$19,474	\$501,067	\$19,474	\$501,067						
17	Cash Working Capital	\$821,760	\$0	\$821,760	\$863,746	(\$67,382)	\$796,364	(\$67,382)	\$796,364						
18	Total Rate Base	\$209.048,221	\$19,474	\$209 067 695	\$243,448,860	(\$5,069,331)	\$238,379,528	(\$19,737,946)	\$223,710,914						

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BUREAU OF INVESTIGATION & ENFORCEMENT DATA REQUESTS

SUEZ WATER PENNSYLVANIA, INC.

Docket No. R-2018-3000834

I&E RB-7-D (Hollenbach) May 21, 2018

I&E-RB-7-D For all plant additions for the future test year ending December 31, 2018, please provide a schedule showing the following for each plant addition:

A. Total monthly amount spent as of December 31, 2018;

B. Location and overall cost of each project;

C. Starting date of each project; and

D. Anticipated completion date of each project.

Response: Please see I&E RB-7-D Attachment which is May 2018's forecast report that captures information to date for the 2018 projects to be in service either by December 2018 or December 2019 except C18M105, Mechanicsburg SOS-Hempt Bros. WTP for \$100,000.

SUEZ Water Pennsylvania Docket No. R-2018-3000834

Project ID	Project Title	an Budget	an RF	an Actual	cb Budget	eb RF	eb Actual	Mar Budget	lar RF	Mar Actual	tpr Budget	Apr RF	Apr Actual	fay Budget	May RF	fay Actual	un Budget
	Carryover	28.0	28.0	84.8	619.5	619.5	152.3	748.5	748.5	22.2	775.3	540.9	602.1	1.344.0	878.3		1,700.0
C18A501 002	Intake and Source Improvements - R								*:	-					*		20.0
C18A502 002	Rockville Intake Improvements	1 .												-	12		
C188501 002	Treatment Needs - R				10.0	10.0	16.2	20.0	20,0	38.6	30.0	40.0	48.9	50.0	50.0		70.0
and the second s	Sixth St_Filter 2 Underdrain		-		-		7.9	10.0	10.0	54.4	25.0	75.0	66.6	60.0	85.0		90.0
C18C501 002	Pumping Improvements- Replacements - R	1		-	10.0	10.0	2.8	15.0	15.0	39.0	30.0	50.0	38.8	50.0	60.0	-	70.0
C18C503_002	Sixth St. HS #5 Pump Repl. and VFD		2			10.0			+		50.0	50,0	50.0		00.0		10.0
C180100 002	New Main	-								24.1	160.0	160.0	237,5	275.0	275.0		500.0
C180300 002	Extensions, Developer Projects	200.0	200.0		125.0	125.0	4.7	320.0	320.0	8.0	515.0	310.0	15.3	715.0	508.0		910.0
C18D300 002	Extensions, Developer Projects, A&C	(200.0)	(200.0)	(0.0)	(400.0)	(400.0)	(0.0)	(600.0)	(600.0)	(38.6)	(800.0)	(800.0)	(105.1)	(1,000.0)	(1,000.0)		(1,200.0)
C18D350 002	Developer Refunds	170.0	170.0	271.0	275.0	275.0	275.4	280.0	280.0	488.4	285.0	490.0	488.4	285.0	492.0		290.0
C180400 002	Extensions for Bona Fide Customer	1.0.0	-	271.0	213.0	-	273.4	200.0	200.0	400.4	205.0	+50.0	400,4	205.0	-52.0		230.0
C18D600 002	Replacement Main Projects	25.0	25.0	46.4	150.0	150.0	258.3	605.0	605.0	530.6	1.570.0	1,228.8	952.0	2,930.0	1,630.0	- 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 1	4,221.0
	Highway Main Projects	25.0	23.0	40.4	130.0	100.0	238.3	80.0	80.0	330:0	200.0	1,228.8	184.2	350.0	300.0	-	500,0
	Distribution Improvments (NRW) - R	-						25.0	25,0		50.0	130.0	104.2	75.0	500.0		100.0
	Distribution Hydraulic Model	-						0.62	23,0	1.6	10.0	5.0	6.4	25.0	25.0		50.0
		1								1.0	100.0	100.0	-	250.0	25.0		375.0
the second se	Tank Painting									:	100.0	100.0		15.0	- annunumiter		375.0
The second s	Stonehedge Tank Replacement:								-			-	-	15.0	4		30.0
	Susquehanna Village Hydrophumatic Tank				· · ·										2	. imitain — — — —	
	01 Optimization-Smart Utility - R							1					· · ·	Same Star			25.0
	SCADA - R	- Anna					1.5	1.5	1,5	4.4	1,5	5.0	4.2	2.5	7.5		5.0
	Building & Facility improvments - R		•		· · · ·		6.9	10.0	10.0	15,3	15.0	18.0	19.3	20.0	20.0		25.0
	Safety & Security Improvements- R					-	1.7	1.7	1.7	2.0	1.7	3,5	1.9	5.0	5.0		10,0
	Mini Excavator				•	•					94.0	•		94.0			94.0
	New and Replacement Small Tools & Equip R		•		•	+	3.6	5.D	5.0	6,2	60,0	15.0	6.2	60.0	25.0		0,00
	Electrical Upgrades/Repl - R		+	•		*	2.8	5.0	5.0	7.6	5.0	10.0	9.0	10.0	15.0		20,0
C18K505_002	Dallas Skid Steer Loader	-	-	14			¥.	· · · ·	×	141	35.0		35.8	35.0	35.8	Construction and	35.0
	Mahoning Township Interconnection		5	13.0			(6.4)	15.0	15.0	(8.0)	50.0	(8.0)	(8.0)	125.0		Start Bridge	175,0
	Mahening Acquisition	20.0	20.0		25.0	25.0	37.3	40.0	40.0	56,6	45.0	60,0	70.1	50.0	75.0		55,0
	Adams Drive Addition		-	.*	•	*		10.0	10.0	•	25.0	15	4.9	50.0	•		75.0
Frank Street Str	Rabold Sed Tank DBP Study					•					10.0			25.0	1000		50.0
and the second se	Mechanicsburg SOS - Hempt Bros WTP (move from C17A101)	-	3			*			-	-				•			25,0
	New Fire Hydrants		•	4.7	4.7	4.7	5.1	5.5	5.5	5.3	6.0	7.5	6.3	10.0	10.0	-	25.0
	New Short Mains & Valves			24.3	50,0	50.0	53.0	75.0	75.0	82.4	100.0	100.0	112.7	125.0	125.0		150.0
CYYOS01_002	Replacement Fire Hydrants - DSIC		÷	(1.5)	÷		2.4	4.0	4.0	1.6	6,0	6.0	2.9	10.0	10.0		15:0
and the second second	Replacement Short Mains & Valves - DSIC	80.0	80,0	97.7	110.0	110.0	1,66,0	200.0	200.0	228.4	250.0	250.0	259.1	350.0	350.0		450.0
CYYFC01_002	New Domestic Services (Company Only)			11,0	20.0	20.0	38.1	45.0	45.0	58.3	50.0	65.0	59.1	70.0	70.0		0.08
CYYF003_002	New Fire Services (Company Only)			0.4			0.3	5.0	5.0	0.3	10,0	2.0	0.5	15.0	4.0		20.0
CYYF501_002	Replacement Domestic Services - DSIC	25.0	25.0	50.0	75.0	75.0	71.7	100.0	100.0	139.7	125.0	150.0	172.5	175.0	200.0		225.0
CYYF503_002	Replacement Fire Services						-	- H				Sec. Sec. of	0.9	in Star	0.9		
CYYG001_007	New Customer Meters	4.0	4.0	б.б	8.0	8.0	8.2	12.0	12.0	20.6	15.0	50.0	33.6	75.0	75.0		0,00
CYYG501_002	Replacement Customer Meters Regulatory- DSIC	20.0	20.0	29.3	30.0	30.0	70.1	80.0	80.0	124.2	100.0	175.0	167.1	300.0	300.0		340.0
OVERHEAD	LOCAL OVERHEAD	137.5	137.5	102.6	275.0	275.0	205.7	412.5	412.5	372.3	550.0	550.0	483,4	687.S	687.5		825.0
		510	510	740	1,387	1,387	1,385	2.531	2,531	2.286	4,505	3,809	3,977	7,718	5,319		10,590

I&E Exhibit No. 3 Schedule 2 Page 2 of 4

Project ID	Project Title	un RF	un Actual	ul Budget	ul RF	ul Actual	Aug Budget	Aug RF	Aug Actual	Sept Budget	Sept RH	Sept Actual	Oct Budget	Oct RF	Oct Actual	Vov Budget
	Carryover	1.171.5		1,891.6	1,400.1	-	2,046.5	1,796.6		2,143.6	2.095.1	~~	1,915.6	1,874.1		1,914.5
C18A501 002	Intake and Source Improvements - R	20.0		40.0	40.0		60.0	60.0	1000	80.0	80.0		100.0	100.0	-	110.0
C18A502_002	Rockville Intake Improvements			÷	+		-			-	*		340.0	340.0		370.0
C188501 002	Treatment Needs - R	70.0		90.0	B0.0		110.0	110.0		140.0	140.0		160.0	150.0		180.0
C188502 002	Sixth St.Filter 2 Underdrain	90.0		90.0	90,0	A. 11112-11	90.0	90.0		90.0	90.0		90.0	90.0	100	90,0
C18C501 002	Pumping Improvements- Replacements - R	70.0		90.0	90.0		110.0	110.0		140.0	140.0		150.0	150.0		175.0
C18C503_002	Sixth St. HS #5 Pump Repl. and VFD	4		•	-		-			50.0	50.0		100.0	100.0		250.0
C18D100_002	New Main	300.0		625.0	450.0		715.3	715.3		715.3	715.3		945.3	945.3	the company of the	1,065.3
C18D300_002	Extensions, Developer Projects	690.0		1,100.0	890,0		1,280.0	1,280.0		1,470.0	1,285.0		1,650.0	1,483.0	633	1,825,0
C18D300_002	Extensions, Developer Projects, A&C	(1,200.0)		[1,400.0]	(1,400.0)		(1,500.0)	(1,600.0)	1.1	(1,800.0)	(1,800.0)		(2,000.0)	(2,000.0)		(2,200.0)
C18D350 002	Developer Refunds	510,0		300.0	510.0		320.0	320.0		330.0	515.0		350.0	517.0		375.0
C180400_002	Extensions for Bona Fide Customer								100							-
C18D600 002	Replacement Main Projects	2,440.0	112	5,645.0	3,922.7		7,169.7	6,821.4	1000	8,249.2	7,383.4		9,031.5	8,817.2		8,881.5
C180700 002	Highway Main Projects	S25.0		675.0	703.8		825.0	825.0		975.0	1,003.8		1,075.0	1,103.8	and the state	1,150.0
C18D900 002	Distribution Improvments (NRW) - R	50.0	T-D-WZ	110.0	75.0	-	125.0	125.0		150.0	150,0		175.0	175.0		200.0
C180901 002	Distribution Hydraulic Model	50,C		65.0	65.0		80.0	80.0		110.0	110.0		130,0	130.0	Instanting -	150.0
C18E501 002	Tank Painting			500.0		11.5	650.0			800.0	50.0	1	1,000.0	75.0		1,100.0
C18E503 002	Stonehedge Tank Replacement			40.0			50.0	-		50.0	5.0		75.0	5.0	111222114	85.0
C18E504 002		-					-			50.0	50.0		125.0	125.0		140.0
C18J101 002	OT Optimization-Smart Utility - R	25.0		30.0	30.0	111 B. HE. T. H.	50.0	50.0	0.111-0.1.12	60.0	60.0		65.0	65.0		75.0
C18J501 002	SCADA - R	8.5		10.0	10.0	1.1	30.0	30.0		60.0	60.0		80.0	80.0	- A COMPANY	90.0
C18K001 002	Building & Facility Improvments - R	25.0		30.0	30.0		50.0	50.0		80.0	80.0		100.0	100.0	Second Designed	110.0
C18K101 002	Safety & Security Improvements- R	10.0		25.0	25.0	0.000	40.0	40.0		55.0	55.0		60,0	60.0		70.0
C18K102 002	Mini Excavator	94.0		94.0	94.0		94.0	94.0		94.0	94.0	1. 1. 1. 1.	94.0	94.0	-10	94.0
C18K501 002	New and Replacement Small Tools & Equip R	40.0		60.0	50.0		60.0	60.0	Weight Ber	75.0	75.0		80.0	80.0		85.0
C18K502_002	Electrical Upgrades/Repl - R	20.0		30.0	30.0		40.0	40.0		50.0	50.0		70.0	70.0		75.0
C18KS05 D02	Dallas Skid Steer Loader	35.8		35.0	35.8		35.0	35.0		35.0	35.8		35.0	35.8		35.0
C18M101 C02	Mahoning Township Interconnection	50.0		230.0	125.0		230.0	230.0	-	230.0	230.0			-		L. (1973-194
C18M102_002	Mahoning Acquisition	77.0		60.0	80.0		65.0	65.0		70.0	85.0		75.0	85.0	111.23	80.0
C18M103_002	Adams Drive Addition	25.0		90.0	75.0	e l'interne	90.0	90.0		90.0	90.0		90.0	90.0		90.0
C18M104_002	Rabold Sed Tank DBP Study			75,0	25.0		100.0	100.0	ALC: NO	100.0	100.0		100.0	100.0		100.0
C18M105_002	Mechanicsburg SOS - Hempt Bros WTP (move from C17A101)	25.0		75.0	75.0		100.0	100.0		100.0	100.0		100.0	100.0		100.0
CYYD001_002	New Fire Hydrants	15.0		25.0	25.0		30.0	30.0		35.0	35.0	100	36.0	36.0	Contraction (1991)	35.0
CYYDC02_002	New Short Mains & Valves	150.0		175.0	175.0		185.0	185.0		200.0	200.0		210.0	210.0		230.0
CYYD501_002	Replacement Fire Hydrants - DSIC	15.0		25.0	25.0		30.0	30.0		35.0	35.0		36.0	36.0		36.0
CYYD502_002	Replacement Short Mains & Valves - DSIC	450,0		500.0	500.0		650.0	650.0		700.0	700.0		750.0	750.0	_	800.0
CYYF001_002	New Domestic Services (Company Only)	80.0		90.0	90.0		100.0	190.0	- innin	110.0	110.0		115.0	115.0		125.0
CYYF003_002	New Fire Services (Company Only)	15.0		25.0	25.0		30.0	30.0	- 100 - 100 -	35.0	35.0		40,0	40.0		45.0
CYYF501_002	Replacement Domestic Services - DSIC	225.0		250.0	250.0		375.0	375.0		385.0	385.0		300.0	300.0		325.0
CYYF503_002	Replacement Fire Services	0,9			0.9			1. Course	1	Section Section	0.9	-	20.0	20.0		30.0
CYYG001_002	New Customer Meters	90.0		100.0	100.0	and the second second	110.0	110.0	distance.	120.0	120.0	and the second	150.0	150.0		165.0
CYYGS01_002	Replacement Customer Meters Regulatory- DSIC	340,0		400.0	400,0		450.0	450.0		500.0	500.0		650.0	650.0		700.0
OVERHEAD	LOCAL OVERHEAD	825.0		962.5	962.5		1,100.0	1,100.0	Constitution in	1,237.5	1,237.5		1,375.0	1,375.0		1,512.5
		7,428	•	13,259	10,165		16,076	14,777		18,210	16,537	1	20,053	18,842	12	20,870

I&E Exhibit No. 3 Schedule 2 Page 3 of 4

I&E-RB-7-D

Project ID	Project Title	Nov RF	Nov Actual	Dec Budget	Dec RF	Dec Actual	Start Month	n-Service Month
	Carryover	1,880,1		1,913.6	1,885.1		1	
18A501 002	Intake and Source Improvements - R	110.0		120.0	120.D-		May	Dec
18A502 002	Rockville Intake Improvements	370.0	and the best	420.0	420.0	2122	Jan	2019
189501 002	Treatment Needs - R	180.0		200.0	200.0		Jan	Dec
183502 002	Sixth St.Filter 2 Underdrain	90.0		90.0	90.0		Jan	May
180501 002	Pumping Improvements- Replacements - R	175.0		200.0	200.D		Jan	Dec
180503_002	Sixth St. HS #5 Pump Repl. and VFD	250.0		375.0	375.0		Aug	Nov
18D100_002	New Main	1,065.3		1,215.3	1,215.3		Various	Various
180300 002	Extensions, Developer Projects	1,582.0	14.1	2,500.0	2,500.0		1	
180300 002	Extensions, Developer Projects, A&C	(2,200.0)		12,500.0)	(2.500.0)		1	18
180350 002	Developer Refunds	518.C	1 martin	400.0	520.0	9	1	
18D400_002	Extensions for Bona Fide Customer	-		10.0	10.0		1	
18D600 002	Replacement Main Projects	9,500.0		9,206.5	10,229.7		Various	Various
180700 002	Highway Main Projects	1,178,5		1,698.2	1,727.0		Various	Various
180900 002	Distribution Improvments (NRW) - R	200.0		200,0	200.0		May	Dec
	Distribution Hydraulic Model	150,0		150.0	150.D		Feb	Dec
18E501 002	Tank Painting	351.2		1,100.0	351.2	et 5. 30	Aug	Dec
18E503 002	Stonehedge Tank Replacement	5.0	1111 <u></u> 0007	100.0	5.0	6	Aug	Dec
18E504 002	Susquehanna Village Hydrophumatic Tank	340.0		150.0	150.0		Aug	Dec
183101 002	OT Optimization-Smart Utility - R	75.0		80.0	80.0		May	Dec
18/501 002	SCADA - B	90,0		96.0	96.0		Jan	Dec
C18K001 002	Building & Facility Improvments - R	110.0	1	120.0	120.0		Jan	Dec
C18K101_002	Safety & Security Improvements- R	70.0	1122	80,0	80.0		Jan	Dec
18K102 002	Mini Excavator	94.0	No Con di	94.0	94.0	CONTRACTOR	May	Jun
C18K501 002	New and Replacement Small Tools & Equip R	85.0		96.0	96.0		lan	Dec
18K502 002	Electrical Upgrades/Repl - R	75.0		80.0	80.0	1-1	Jan	Dec
C18K505 002	Dallas Skid Steer Loader	35.8		35.0	35.8		Mar	Apr
18M101 002	Mahoning Township Interconnection	-		6			Apr	2019
18M102 002	Mahoning Acquisition	85.0		85.0	85.0		Jan	2019
18M103 002	Adams Drive Addition	90.0		90.0	90.0		Mar	2019
18M104 002	Rabold Sed Tank DBP Study	200.0		100.0	100.0		lun	2019
18M105 002	Mechanicsburg SOS - Hempt Bros WTP (move from C17A101)	100.0		100.0	100.0		May	2023
TYYD001 002	New Fire Hydrants	36.0		36.0	36.0		Uan	Dec
CYYD002 002	New Short Mains & Valves	Z30.0		240.0	240.0		Jan	Dec
YYD501 002	Replacement Fire Hydrants - DSIC	36.0		36.0	36.0		lan	Dec
CYYD502 002	Replacement Short Mains & Valves - DSIC	800.0		900.0	900.0		Jan	Dec
YYF001_002	New Domestic Services (Company Only)	125.0		125.0	125.0		Jan	Dec
CYYF003_002	New Fire Services (Company Only)	45.0		50.0	50.0		Jan	Dec
YYF501_002	Replacement Domestic Services - DSIC	325.0		376.0	376.0	Contraction (Contraction)	lan	Dec
TYYF503_002	Replacement Fire Services	30.0		35.0	35.0		Mar	Dec
TYYG001_002	New Customer Meters	165.0		140.0	140.0		Jan	Dec
WG501_002	Replacement Customer Meters Regulatory- DSIC	700.0		760,0	760.0		Jan	Dec
OVERHEAD	LOCAL OVERHEAD	1,512.5		1,650.0	1,650.0			
		20,560		22.953	23,254			

I&E RB-7-D Attachment Page 3 of 3

Joint Committee on Administrative Rules ADMINISTRATIVE CODE

TITLE 83: PUBLIC UTILITIES CHAPTER I: ILLINOIS COMMERCE COMMISSION SUBCHAPTER b: PROVISIONS APPLICABLE TO MORE THAN ONE KIND OF UTILITY PART 287 RATE CASE TEST YEAR SECTION 287.20 TEST YEAR OPTIONS

Section 287.20 Test Year Options

A utility, at its option, may propose either one of the following periods as its proposed test year:

- a) Historical. Any consecutive 12 month period, beginning no more than 24 months prior to the date of the utility's filing, for which actual data are available at the time of filing new tariffs; or
- b) Future. Any consecutive 12 month period of forecasted data beginning no earlier than the date new tariffs are filed and ending no later than 24 months after the date new tariffs are filed.

Joint Committee on Administrative Rules ADMINISTRATIVE CODE

TITLE 83: PUBLIC UTILITIES CHAPTER I: ILLINOIS COMMERCE COMMISSION SUBCHAPTER b: PROVISIONS APPLICABLE TO MORE THAN ONE KIND OF UTILITY PART 285 STANDARD INFORMATION REQUIREMENTS FOR PUBLIC UTILITIES AND TELECOMMUNICATIONS CARRIERS IN FILING FOR AN INCREASE IN RATES SECTION 285.2005 SCHEDULE B-1: JURISDICTIONAL RATE BASE SUMMARY BY ICC ACCOUNT

Section 285.2005 Schedule B-1: Jurisdictional Rate Base Summary by ICC Account

- a) Schedule B-1 shall present, by ICC Account with appropriate subtotals, data for the jurisdiction for which a rate increase is requested for the test year. Where rates are being sought for more than one applicable service or for more than one service area (e.g., district, division), a separate B-1 shall be provided for each utility service type and/or service area. Information provided shall include:
 - 1) ICC Account number;
 - 2) ICC Account description;
 - 3) Amount included in the unadjusted test year jurisdictional rate base;
 - 4) Amounts of any adjustments; and
 - 5) Amount included in the pro forma jurisdictional balance.
- b) The presentation of each rate base component shall include the unadjusted total company balance, the total of all adjustments to each rate base component, and the applicable service pro forma balance. The source for the unadjusted balance shall be the general ledger for a historical test year as defined in 83 111. Adm. Code 287 or the utility's forecast for a future test year as defined in 83 111. Adm. Code 287. The resulting jurisdictional pro forma balance shall represent that level of rate base investment attributable to the provision of services to jurisdictional customers.
- c) The components of rate base shall include, but not be limited to, the following:
 - 1) Gross utility plant in service at original cost;
 - 2) Reserve for accumulated depreciation;
 - 3) Net utility plant in service;
 - 4) Other individual items comprising rate base separately listed, such as working capital, construction work in progress included in rate base, customer advances, and accumulated deferred income taxes; and

- 5) Total rate base.
- d) All items shall be supported by schedules. If the item requires a schedule other than as described by the standard information requirements, a schedule shall be provided that includes the following:
 - 1) Dollars involved by account; and
 - 2) Reasons for additions or deletions to rate base.
- e) If the rate base components of a future test year are not derived from average data for the test year or from monthly average data, provide work papers supporting Schedule B-1 that reflect the 13 month-end balances of all rate base items commencing with the month-end balance for the month prior to the beginning of the test year and ending with the month-end balance for the last month of the test year.

Pennsylvania Public Utility Commission

V.

SUEZ Water Pennsylvania, Inc.

Docket No. R-2018-3000834

Interrogatories of the Office of Consumer Advocate Set IV

> OCA-IV-23 (Hollenbach) June 6, 2018

OCA-IV-23 Please provide the supporting documentation showing the determination of the 60% of the Mahoning purchase price which was included in rate base in this proceeding.

Response:

The appraisals for the Mahoning Township system should be finalized by early June and the Company reserves the right to update information as necessary. However, based on the balance sheet data that we did have at the time, below is the estimated value of the water assets:

Pennsylvania Public Utility Commission

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SUEZ Water Pennsylvania, Inc.

Docket No. R-2018-3000834

Interrogatories of the Office of Consumer Advocate Set IV

Assets		Plant Account	Esti	mated Value
5.8 Acres		303.2	\$	3,000
23 easements or Rights-of-Way		303.2	\$	3,000
	Year Built			
300,000 Gallon Tank	1968	330.4	\$	
500,000 Gallon Tank	1990	330.4	\$	308,800
75,000 Gallon Tank	2007	330.4	\$	95,240
Route 11 Water Booster Station		304.4	\$	12,450
Montgomery Village Booster Station		304.4	\$	33,700
Edgewood Booster Station		304.4	\$	40,000
Woods of Welsh Booster Station		304.4	\$	30,000
Pressure Reducing Station		304.4	\$	5,000
Chlorination Building		304.3	\$	5,000
Storage Building		304.5	\$	70,000
137 Hydrants		335.4	\$	214,953
	Feet			
4" main in feet	3,485	331.4	\$	121,975
6" main in feet	44,141	331.4	\$	1,677,358
8" main in feet	45,302	331.4	\$	1,721,476
10" main in feet	12,778	331,4	\$	488,759
12" main in feet	10,454	331.4	\$	402,689
1200 meters		334.4	\$	180,000
1200 services		333.4	\$	405,600
			\$	5,820,000

SUEZ WATER PENNSYLVANIA, INC. I&E ADJUSTMENTS TO TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, ORIGINAL COST, BOOK RESERVE AND I&E ADJUSTMENTS TO CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO WATER PLANT AS OF DECEMBER 31, 2019

												ANNUAL			
Line		COMPANY ORIGINAL		I&E ORIGINAL	COMPANY BOOK		I&E BOOK	COMPANY FUTURE		J&E FUTURE	COMPANY ACCRUAL		I&E ACCRUAL	ACCRUAL	REMAINING
No	DEPRECIABLE GROUP	COST	ADJUSTMENT	COST		ADJUSTMENTS	RESERVE	ACCRUALS	ADJUSTMENTS	ACCRUALS	AMOUNT	ADJUSTMENT	AMOUNT	RATE	LIFE
	(A)	(C)	(D)	(E)	(F)	(F)	(G)	(H)	(1)	(J)	(K)	(L)	(M)	(N)	(0)
INTANG	IBLE PLANT														
1 301	ORGANIZATION	66,399.00		66,399.00	152,179		152,179								
2 302	FRANCHISES AND CONSENTS	64,265,56		64,265,56											
3 303	MISCELLANEOUS INTANGIBLE PLANT	4,429,099.01	6,000	4,423,099,01	(130,715)		(130,715)								
4	TOTAL INTANGIBLE PLANT	4,559,763.57	6,000	4,553,763,57	21,464		21,464								
DEPRE	CIABLE PLANT														
	STRUCTURES AND IMPROVEMENTS														
5 304.2	PUMPING	3,721,078_15		3,721,078_15	1,038,181	0	1,038,181	2,682,897	0	2,682,897	82,531	0	82,531	2.22	32.5
6 304 3	WATER TREATMENT PLANT														
7	BLOOMSBURG TREATMENT PLANT	181,380.86		181,380,86	121,462	0	121,462	59,919	0	59,919	8,185	(0)	8,185	4.51	7.3
8	BLOOMSBURG TREATMENT PLANT - NEW	5,829,778,36		5,829,778.36	429,119	0	429,119	5,400,659	0	5,400,659	135,084	0	135,084	2.32	40.0
9	SIXTH STREET PLANT	4,160,026,78		4,160,026.78	1,715,268	0	1,715,268	2,444,759	0	2,444,759	113,621	(0)	113,621	2.73	21.5
10	RICHARD C. RABOLD	1,619,181,24		1,619,181_24	859,750	0	859,750	759,431	0	759,431	40,356	(0)	40,356	2.49	18.8
11	MARKET STREET	101,359,72	. 0	101,359,72	82,692	0	82,692	18,668	0	18,668	4,432	(0)	4,432	4.37	4.2
12 13	OLD HUMMELSTOWN PLANT HUMMELSTOWN MEMBRANE PLANT	86,583 70 4,410,545.60		86,583 70 4,410,545,60	86,584 1,235,044	0	86,584 1,235,044	3,175,501	0	3,175,501	104,571	0	104,571	2.37	30.4
	OTHER TREATMENT FACILITIES	3,093,200.07	5,000	3,088,200.07	559,316	(904)	558,411	2,533,884	(4,096)	2,529,789	70,447	(114)	70,333	2.37	36.0
14	OTHER TREATMENT PAGETTES	3,033,200,07	5,000	3,065,200.07	559,510		000,411	2,555,664	[4,030]						36.0
15	TOTAL WATER TREATMENT PLANT	19,482,056.33		19,477,056.33	5,089,235	(904)	5,088,331	14,392,821	(4.096)	14,388,726	476,696	(114)	476,582	2.45	30.2
16 304.4	TRANSMISSION AND DISTRIBUTION	419,271.11	121,150	298,121.11	31,008	(8,960)	22,048	388,263	(112,190)	276,073	12,150	(3,511)	B,639	2.90	32.0
17 304 51	OFFICES						_								
18	BLOOMSBURG TREATMENT PLANT	9,243,292,21	• •	9,243,292.21	671,672	0	671,672	8,571,620	0	8,571,620	213,998	0	213,998	2.32	40.1
19	OTHER OFFICES	901,676.60		901,876,60	234,777	0	234,777	667,100	0	667,100	23,413	(0)	23,413	2.60	28.5
20	TOTAL OFFICES	10,145,168,81	0	10,145,168.81	906,449	0	906,449	9,238,720	0	9,238,720	237,411	(0)	237,411	2.34	38.9
21 304 52	STORES, SHOP AND GARAGE														
22	SUMMIT VIEW MAINTENANCE BUILDING	3 796 397 30	•	3,796,397.30	521,667	0	521,667	3,274,730	0	3,274,730	155,349	(0)	155,349	4.09	21.1
23	OTHER MAINTENANCE BUILDINGS	539,833.39		539,833.39	103,288	0	103.288	436,546	0	436,546	19,010		19,010	3.52	23.0
24	TOTAL ACCOUNT STORES, SHOP AND GARAGE	4,336,230.69	0	4,336,230.69	624,955	0	624,955	3,711,276	0	3,711,276	174,359	(0)	174,359	4.02	21.3
25 304.53	MISCELLANEOUS	351,471.62	70,000	281,471.62	182,461	(36,339)	146,121	169,011	(33,661)	135,350	16,055	(3,198)	12,857	4.57	10.5
26	TOTAL STRUCTURES AND IMPROVEMENTS	38,455,276 71	196,150	38,259 126 71	7,872,288	(46,203)	7,826,085	30,582,988	(149,947)	30,433,042	999,202	(6,822)	992,380	2.58	30.8
27 305	COLLECTING AND IMPOUNDING RESERVOIRS	434,632,39		434,632,39	115,869	0	115,869	318,763	0	318,763	7,983	0	7,983	1.84	39.9
28 306	LAKE, RIVER AND OTHER INTAKES														
28 306	ROCKVILLE INTAKE	4.662.260.11	•	4,662,260.11	685,138	0	685,138	3,977,122	0	3,977,122	166.366	(0)	166,366	3.57	23.9
30	HUMMELSTOWN INTAKE	1.335,191.80		1.335.191.80	317.516	ő	317,516	1,017,676	ő	1,017,676	29,235	(0)	29,235	2.19	34.8
31	OTHER INTAKES	509,724,53		509.724.53	83,586	<u>0</u>	83.586	426,139	0	426,139	13,184	(0)	13,184	2.59	32.3
32	TOTAL LAKE, RIVER AND OTHER INTAKES	6_507_176_44	٥	6 507,176 44	1,086,240	0	1,086,240	5,420,937	0	5,420,937	208,785	(0)	208,785	3 21	26.0
22 207	WELLS AND SPRINGS	1.028,041.81		1,028,041.81	545,289	0	545,289	482,753	0	482,753	17,514	(0)	17,514	1.70	27.6
33 307 34 308	INFILTRATION GALLERIES AND TUNNELS	13,358.04		13,358.04	2,857	0	2,857	10,501	0	10,501	400	(0)	400	2.99	26.3
	PUMPING EQUIPMENT														
35 311.2	ELECTRIC PUMPING EQUIPMENT	16,307,072,06		16,307,072.06	5,224,981	0	5,224,981	11,082,091	0	11,082,091	583,227	(0)	583 227	3,58	19.0
36 311 3	OIL ENGINE PUMPING EQUIPMENT	314,155.59		314 155 59	254.820	0	254.820	59,336	0	59,336	3.833	(0)	3,833	1.22	15.5
37	TOTAL PUMPING EQUIPMENT	16,621,227 65	0	16,621,227,65	5,479,801	0	5,479,801	11,141,427	O	11,141,427	587,060	(0)	587,060	3.53	19.0

I&E Exhibit No. 3 Schedule 6 ⁹ Page 1 of 2

												ANNUAL			
		COMPANY		1&E	COMPANY		1& E	COMPANY		I&E	COMPANY		1& E	COMPOSITE	
Line		ORIGINAL		ORIGINAL	BOOK		BOOK	FUTURE		FUTURE	ACCRUAL		ACCRUAL	ACCRUAL	REMAINING
No	DEPRECIABLE GROUP	COST	ADJUSTMENT	COST	RESERVE	ADJUSTMENT	RESERVE	ACCRUALS	ADJUSTMENTS	ACCRUALS	AMOUNT	ADJUSTMENT	AMOUNT	RATE	LIFE
	(A)	(C)	(D)	(E)	(F)	(F)	(G)	(H)	(1)	(L)	(K)	(L)	(M)	(N)	(0)
	WATER TREATMENT PLANT	I		Ť	1		1	1		1	1		1		
38 320 1	STRUCTURES AND IMPROVEMENTS														
39	BLOOMSBURG TREATMENT PLANT	338,354,21	• *	338,354,21	328,623	0	328,623	9.731	0	9,731	1,217	0	1,217	0.36	8.0
40	BLOOMSBURG TREATMENT PLANT - NEW	13.979.069.61	•	13,979,069,61	1,705,396	0	1.705.396	12.273.674	0	12,273,674	393,097	(0)	393,097	2.81	31.2
41	SIXTH STREET PLANT	10,675,645.55	· *	10.675.645.55	6,119,550	0	6,119,550	4,556,095	0	4,556,095	220,695	0	220,695	2.07	20.6
42	RICHARD C. RABOLD	1,756,585,15		1,756,585,15	1,226,980	0	1,226,980	529,605	0	529,605	27,972	0	27,972	1.59	18.9
43	MARKET STREET	192,621.85	•	192,621.85	177,020	0	177,020	15,602	0	15,602	3,522	(0)	3,522	1.83	4 4
44	OLD HUMMELSTOWN PLANT	858,433.64		858,433 64	858,434	0	858,434	0	0	0	0	0	0		
45	HUMMELSTOWN MEMBRANE PLANT	9,469,382,38	•	9,469,382.38	3,882,532	0	3,882,532	5,586,851	0	5,586,851	198,547	(0)	198,547	2.10	28.1
46	OTHER TREATMENT FACILITIES	892,814,19		892,814.19	498,465	0	498,465	394,349	0	394,349	16,328	0	16,326	1.83	24.2
47	TOTAL STRUCTURES AND IMPROVEMENTS	38,162,906,58	0	38,162,906,58	14,797,000	0	14,797,000	23,365,907	0	23,365,907	861,376	(0)	861,376	2.26	27.1
48 320 2	PAINTING	447,524.82		447,524 82	262.661	0	262,661	184,863	0	184,863	39,209	0	39,209	8.76	4.7
49 320.3	CHEMICAL EQUIPMENT	8,436,076,94		8,436,076,94	1.197.295	0	1,197,295	7 238 782	0	7.238.782	572,150	(0)	572,150	6.78	12.7
50	TOTAL WATER TREATMENT PLANT	47,046,508 34	0	47,046,508.34	16,256,957	0	16,256,957	30,789,552	0	30,789,552	1,472,735	(0)	1,472,735	3,13	20.9
51 330	DISTRIBUTION RESERVOIRS AND STANDPIPES	13,813,043,79	405,040	13,408,003.79	3,680,088	(107,911)	3.572.177	10,132,956	(297,129)	9,835,827	385,353	(11,300)	374.053	2.79	26.3
52 331	TRANSMISSION AND DISTRIBUTION MAINS	192,092,452.47	4,412,257	187,680,195,47	17,895,858	(411.058)	17.484,800	174,196,594	(4,001,199)	170,195,395	2,992,182	(68,729)	2,923,453	1.56	58.2
53 333	SERVICES	41,020,732.30	405,600	40,615,132.30	10,799,668	(106,784)	10,692,884	30,221,064	(298,816)	29,922,248	736,362	(7,281)	729,081	1.80	41.0
54 334	METERS	21,503,128,88	180,000	21,323,128.88	6,960,056	(58,262)	6,901,794	14,543,073	(121,738)	14,421,334	955,415	(7,998)	947.417	4.44	15.2
55 335	HYDRANTS	8,108,690.83	214,953	7,893,737,83	2,578,680	(68,358)	2,510,322	5,530,011	(146,595)	5,383,416	135,573	(3,594)	131,979	1.67	40.8
56 339	OTHER PLANT AND MISC EQUIPMENT	539,255,49		539,255,49	387,356	0	387,356	151,899	0	151,899	8,424	0	8,424	1.56	18.0
														230	
	OFFICE FURNITURE AND EQUIPMENT	0													
57 340 1	COMPUTERS AND SOFTWARE	2,646,180,68		2,646,180,68	2,550,409	0	2,550,409	95,772	0	95,772	80,752	42	80,794	3.05	1.2
58 340 11	SOFTWARE - LARGE	3,665,579.00		3,665,579.00	3,659,926	0	3,659,926	5,653	0	5,653	5,653	(0)	5,653	0_15	1.0
59 340.2	FURNITURE	659,446.10		659,446.10	303,872	0	303,872	355,574	0	355,574	33,197	(0)	33,197	5.03	10.7
					0.544.007		0.544.007	150.000		450.000	440.000	10		4.70	
60	TOTAL OFFICE FURNITURE AND EQUIPMENT	6,971,205,78	0	6,971,205,78	6,514,207	0	6,514,207	456,999	0	456,999	119,602	42	119,644	1,72	3.8
61 341	TRANSPORTATION EQUIPMENT - TRUCKS	1,057,45		1,057.45	530	0	530	528	0	528	215	(0)	215	20.33	2.5
	TOOLS, SHOP AND GARAGE EQUIPMENT									and the second se					
62 343 1	SHOP AND GARAGE EQUIPMENT	1,140,592,94		1,140,592.94	403,155	0	403,155	737,438	0	737,438	48,767	0	48,767	4.28	15.1
63 343 2	TOOLS AND WORK EQUIPMENT	2,185,518.00		2,185,518.00	773.731	0	773,731	1,411,787	0	1,411,787	109,759	0	109,759	5.02	12.9
64	TOTAL TOOLS SHOP AND GARAGE EQUIPMENT	3,326,110.94	0	3,326,110.94	1,176,886	0	1,176,886	2,149,225	0	2,149,225	158,526	0	158,526	4.77	13.6
					1							_			7.6
65 344	LABORATORY EQUIPMENT	127,367.71		127,367.71	93,143	0	93,143	34,224	0	34,224	4,514	0	4,514	3 54	7.6
66 346	COMMUNICATION EQUIPMENT	7 073 007 59		7.073.007.59	3,853,331	0	3,853,331	3,219,677	0	3,219,677	553,841	(0)	553,841	7.83	5.8
67 347	MISCELLANEOUS EQUIPMENT	147,854.10		147.854.10	40,376	0	40,376	107,479	00	107,479	10,332	(0)	10,332	6,99	10.4
68	TOTAL DEPRECIABLE PLANT	404,830,128.71	5,814,000	399,016,128.71	85,339,479	(798,576)	84,540,903	319,490,650	(5,015,424)	314,475,226	9,354,018	(105,681)	9,248,337	2.28	34,5
69	AMORTIZATION OF NET SALVAGE										319,853	0	319,853		
		0.081388.320300		0.000200-00-000	CHC200102							1405 554			
70	TOTAL UTILITY PLANT IN SERVICE	409,389,892.28	5,820,000	403,569,892.28	85,360,943	(798,576)	84,562,367	319,490,650	(5,015,424)	314,475,226	9,673,871	(105,681)	9,568,190		

* Life Span Procedure was used. Curve shown is Interim Survivor Curve.

SUEZ WATER PENNSYLVANIA, INC. I&E ADJUSTMENTS TO ANNUAL DEPRECIATION EXPENSE R-2018-3000834

No. Description		Company	y As Filed and I&E Recom	mended		AVERAGE ANNUA	L DEPRECIATION
	Pro Forma		Pro Forma	2019 I&E	I&E Adjusted	2019 I&E	I&E Average
	December 31, 2018	Adjustments	December 31, 2019	Adjustments	December 31, 2019	Average Adjustment	Annual Depreciation
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
1 Total Water	\$9,115,697	\$558,175	\$9,673,872	(\$105,682)	\$9,568,190	(\$331,929)	\$9,341,943
2 Depreciation on CIAC/Advances	(\$950,910)	\$0	(\$950,910)	\$0	(\$950,910)	\$0	(\$950,910)
3 Total Annual Depreciation Expense	\$8,164,787	\$558,175	\$8,722,962	(\$105,682)	\$8,617,280	(\$331,929)	\$8,391,033

BUREAU OF INVESTIGATION & ENFORCEMENT DATA REQUESTS

SUEZ WATER PENNSYLVANIA, INC.

Docket No. R-2018-3000834

I&E RB-9-D (Heppenstall) June 26, 2018

I&E-RB-9-D Reference SUEZ Exhibit No. CEH-2, Schedule 11 regarding Materials and Supplies. Provide the monthly balance of Materials and Supplies from January 2015 to the most recent month available. Please provide updates to this data request as monthly data becomes available.

Supplemental Response:

Please refer to I&E-RB-9 Supplemental Attachment which corrects errors that were made in 2018 on the original attachment.

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SUEZ Water Pennsylvania Docket No. R-2018-3000834

SUEZ Water Pennsylvania

Materials and Supplies Inventory Balances

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	427,382	449,336	485,239	585,809	606,550	621,323	695,352	567,468	601,807	601,807	569,987	417,841
2015	417,841	455,455	452,160	458,578	527,495	517,551	457,259	466,397	465,746	467,638	433,480	446,482
2017	440,840	489,854	481,801	476,077	463,267	507,868	441,119	583,376	612,773	618,416	509,708	504,193
2018	501.550	504,926	502,600	566,921	852,810							

I&E Exhibit No. 3 Schedule 8 Page 2 of 2

SUEZ WATER PENNSYLVANIA, INC. I&E ADJUSTMENTS TO PLANT MATERIALS AND SUPPLIES

Line				Actual Balan					
<u>No.</u>	<u>2015</u> (A)	<u>Amount</u> (B)	<u>2016</u> (C)	Amount (D)	<u>2017</u> (E)	<u>Amount</u> (F)	<u>2018</u> (G)	Amount (H)	
1	January	427,382	January	417,841	January	440,840	January	501,550	
2	February	449,336	February	455,455	February	489,854	February	504,926	
3	March	485,239	March	452,160	March	481,801	March	502,600	
4	April	585,809	April	458,578	April	476,077	April	566,921	
5	May	606,550	May	527,495	Мау	463,267	Мау	852,810	
6	June	621,323	June	51 7,551	June	507,868			
7	July	695,352	July	457,529	July	441,119			
8	August	567,468	August	466,397	August	583,376			
9	September	601,807	September	465,746	September	612,773			
10	October	601,807	October	467,638	October	618,416			
11	November	569,987	November	433,480	November	509,708			
12	December	417,841	December	446,482	December	504,193			
13	SUM:	6,629,901	SUM:	5,566,352	SUM:	6,129,292			
		13-Month Av	verage Balances						
	<u>2017</u> (A)	Amount (B)	<u>2018</u> (C)	<u>Amount</u> (D)					
14	January	462,092	January	510,065					
15	February	467,631	February	514,994					
16	March	469,658	March	515,975					
17	April	471,498	April	522,523					
18	Мау	471,858	Мау	551,502					
19	June	470,348	12-month total:	6,012,807					
20	July	464,469	12-month Average:	501,067					
21	August	474,150							
22	September	485,409							
23	October	497,153							
24	November	500,389							
25	December	505,829							

SUEZ WATER PENNSYLVANIA INC. I&E ADJUSTMENTS TO SUMMARY OF REVENUE UNDER PRESENT RATES AND PRO FORMA REVENUES UNDER PRESENT RATES FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2017 AND 2019

Line No,	Customer Classification	Pr	Adjusted Revenues, Per Books resent Rates 1/31/2017 (a)	Pr	Bill Analysis Revenues, resent Rates Schedule 5)		ustment actor		venues Under esent Rates	F Ad Pre	Company Pro Forma djustments esent Rates edule 5 and 7)	Ann	Add Back nualized DSIC Revenue	T Pro Re Prese	mpany fotal Forma venue nt Rates	
			(A)		(B)		(C)		(D)		(E)		(F)		(G)	
	METERED SALES															
1	Residential	\$	26,796,924	\$	26,824,015	0.99	9899003	\$	26,796,924	\$	500,770	\$	2,047,327	\$ 29.	345.020	
2	Commercial		11,045,912		11,048,045	0.99	9980693	\$	11,045,912		78,401	\$	834,324		958,637	
3	Industrial		1,278,641		1,278,758	0.99	9990886	\$	1,278,641		86,299	\$	102,371	\$ 1,	467,311	
4	Public Sales		1,772,512		1,787,388	0.99	9167720	\$	1,772,512		(64,825)	\$	128,076		835,763	
5	Total Sales of Water	\$	40,893,989	\$	40,938,206			\$	40,893,989	\$	600,645	\$	3,112,098	\$ 44,	606,731	
6	Private Fire	\$	1,436,836	\$	1,436,836		0000000		1,436,836	\$	9,211				436,837	
7	Public Fire		923,861		923,861	1.00	0000000		923,861						923,862	
8	Other Operating Revenues		405,611		405,611				405,611			+			405,611	
9	Total	\$	43,660,297	\$	43,704,514			\$	43,660,297	\$	609,856	\$	3,112,098	\$ 47,	373,041	
Line	Customer Classification		venues Under resent Rates	А	Company Pro Forma adjustments resent Rates	Adi	ustment	A	I&E Pro Forma djustments esent Rates	Ann	I&E Add Back ualized DSIC Revenue	F	Company Total Pro Forma Revenue esent Rates	Adiu	stment	I&E Total Pro Forma Revenue Present Rates
			(A)		(B)		(C)		(D)		(E)		(F)		(G)	(H)
40	METERED SALES Residential	¢	26,796,924	s	500,770	¢ /,	461.055)	\$	39,715	¢	2,012,748	¢	29,345,020	\$ (405 624)	£ 00 040 007
	Commercial	\$	20,790,924	9	78,401	· ·	153,214)	Ф	(74,813)	\$ \$	822,832		29,345,020		495,634) 164,705)	\$ 28,849,387 \$ 11,793,932
11 12	Industrial		1,278,641		86,299	\$	100,214)		86,299	φ \$	102,371		1,467,311	(104,703)	\$ 1,467,311
	Public Sales		1,772,512		(64,825)	\$	4,052		(60,774)	\$	128,380		1,835,763		4,355	\$ 1,840,118
10			1,112,012		(0,,020)	•	1,002		(00,111)	•	-		1,000,100		1,000	• 1,010,110
14	Total Sales of Water	\$	40,893,989	\$	600,645	\$ (6	510,217)	\$	(9,572)	\$	3,066,331	\$	44,606,731	\$ (655,983)	\$ 43,950,748
15	Private Fire		1,436,836	\$	9,211	\$		\$	9,211				1,446,048		-	1,446,048
16	Public Fire		923,861										923,861		-	923,861
17	Other Operating Powerway												405 044			
	Other Operating Revenues	-	405,611					-					405,611		-	· · · · · · · · · · · · · · · · · · ·

I&E Exhibit No. 3 Schedule 10

I&E ADJUSTMENTS TO CUSTOMER GROWTH REVENUE ADJUSTMENT UNDER PRESENT RATES FOR THE TEST YEARS ENDING DECEMBER 31, 2017, 2018 AND 2019

-	Company Residential (A)	Adjustment (B)	I&E Residential (C)	Company Commercial (D)	Adjustment (E)	I&E Commercial (F)	Company Public Authority (G)	Adjustment	I&E Public Authority (I)	Company Private Fire (J)	Adjustment (K)	I&E Private Fire (L)	Company Total (M)	Adjustment (N)	I&E Total (O)
Historic TY Customer Customer Levels and Rates		(0)	(0)			(1)	(6)	((1)	(1)	(5)		(L)	(141)	(14)	(0)
1 Actual Normalized Bills	652,728			56,712			2,952			1,018			714,022		
2 Actual Annualized Bills	656,760			56,712			2,784			1,016			717,884		
3 Average Service Charge	13.75		\$ 13.75	\$ 28,50		\$ 28,50	\$ 13.75		\$ 13.75	\$ 110,98		\$110.98			
4 Volume Charge - First Block 5 Volume Charge - Second Block	7,7506		7.7506	7 7506 5 4321		7.7506 5.4321	7.7506 5.4321		7.7506 5.4321						
Fully Projected Future Test Year Customer Growth Calculat	ion.														
6 Forecasted Customer Growth	562.6	-	562 6	28.3	8	28.3	(1.2)	2.3	(1.2)	3.5	-	3.5			
7 Annualized Bills (Line 6 X 12)	6,751	(3,375.5)	3,376	339	(169.5)	170	(14)	7	(7)	42		42			
Average Volumes Per Normalization 8 Priced At First Block 9 Priced At Second Block	3.34		3.34	23.97	i	23.97	25.00 68.35	-	25 00 68 35						
10 Total	3.34	•	3.34	23.97		23.97	93.35		93.35		1				
11 Normalized Volumes (Line 7 X Line 8)	22,548	(11,274.2)	11,274	8,125	(4,062.7)	4,063	(350)	175	(175)						
12 Revenue From Service Charge (Line 7 X Line 3)	92,826	(46,413.1)	\$ 46,413	\$ 9,662	(4,830.8)	\$ 4,831	\$ (193)	\$ 96	\$ (96)	\$ 4,661	\$ -	\$ 4,661	\$ 107,149	\$ (51,244)	\$ 55,905
Revenue from Volumetric Charge (Line 4 X Line 11) 13 Priced At First Block 14 Priced At Second Block	5 174,763 5 -	(87,381.6)	\$ 87,382 \$ -	\$ 62,977 \$ -	(31,468,7)	\$ 31,489 \$ -	\$ (2,713) \$ (5,198)		\$ (1,356) \$ (2,599)			5 -	\$ 237,741 \$ -	\$ (118,870) \$ -	\$ 118,870 \$ -
15 Total FPFTY Adjustment (Line 12 + Line 13 + Line 14)	\$ 267,589	\$ (133,795)	\$ 133,795	\$ 72,639	\$ (36,319)	\$ 36,319	\$ (8,103	\$ 4,052	\$ (4.052)	\$ 4,661	\$.	\$ 4,661	\$ 336,786	\$ (162,011)	\$ 174,775
16 Total Adjustment	615,087	(133,794.7)	\$ 481,292	\$ 145,278	(36,319.5)	\$ 108,958	\$ (64,825)	\$ 4,052	\$ (60,774)	\$ 9,211	s -	\$ 9,211	\$ 704,751	\$ (162,011)	\$ 542,740

(a) For residential and commercial, see declining usage workpaper. For Industrial and Public, based on 2017 usage

				Private Fire	
Number of Customers	Residential	Commercial	Public Authority	Protection	
Period Ending 12/31/15	53,269 3	4,669.0	248.5	1,011_1	
Period Ending 12/31/16	53,604.7	4,686.8	248 2	1,021.9	
Historic Test Year Period Ending 12/31/17	54,394 4	4,725.6	246.2	1,018.2	
Increase 2015-2016	535.4	17.8	(0.3)	10.8	
Increase 2016-2017	589,8	38.8	(2.0)	(3.8)	
Average Growth/(Decline)	562 6	28.3	(1.2)	3.5	

SUEZ WATER PENNSYLVANIA ADJUSTMENT 2 - DECLINING USAGE REVENUE ADJUSTMENT - PRESENT RATES FOR THE TEST YEAR ENDING DECEMBER 31, 2018 Docket No. R-2018-3000834

	Residential (A)	Commercial (B)
1 Actual Normalized Bills	652,728	56,712
2 Actual 2017 Daily Usage (Gallons)	115.73	817.54
3 Projected Daily Usage in gallons - 2018	113.53	808.25
4 Difference in Daily Usage - Line 3 - Line 2	(2.20)	(9.29)
5 Difference in 1000 gallon Monthly Usage - Line 4 X 30 divided by 1000	(0.07)	(0.28)
6 Annual Declining Usage Adjustment - Line 1 X Line 5	(43,155)	(15,810)
7 Priced At First Block 8 First Block Under Present Rates 9 Adjustment Under Present Rates	(43,155) \$ 7.7506 \$ (334,479)	(15,810) \$ 7.7506 \$ (122,536)

I&E ADJUSTMENTS TO DECLINING USAGE REVENUE ADJUSTMENT - PRESENT RATES FOR THE TEST YEAR ENDING DECEMBER 31, 2019

	Company Residential (A)	Adjustment (B)	I&E Residential (C)	Company Commercial (D)	Adjustment (E)	I&E Commercial (F)
10 Actual Normalized Bills	652,728	-	652,728	56,712	2	56,712
11 Actual 2017 Daily Usage (Gallons)	115.73	_	115.73	817.54		817.54
12 Projected Daily Usage in gallons - 2019	111.32	1.10	112.42	798.96	4.64	803.60
13 Difference in Daily Usage - Line 11 - Line 12	(4.41)	1.10	(3.31)	(18.58)	4.64	(13.94)
14 Difference in 1000 gallon Monthly Usage - Line 13 X 30 divided by 1000	(0.13)	0.03	(0.10)	(0.56)	0.14	(0.42)
15 Annual Declining Usage Adjustment - Line 10 X Line 5	(86,356)	21,600	(64,756)	(31,611)	7,901	(23,711)
16 Priced At First Block 17 First Block Under Present Rates 18 Adjustment Under Present Rates 19 Incremental Adjustment over 2018	(86,356) \$ 7.7506 \$ (669,310) \$ (334,831)	21,600 \$- \$167,415 \$167,415	(64,756) \$7,7506 \$(501,895) \$(167,415)	(31,611) \$ 7.7506 \$ (245,006) \$ (122,471)	7,901 \$- \$61,235 \$61,235	(23,711) \$ 7.7506 \$(183,771) \$ (61,235)

SUEZ WATER PENNSYLVANIA I&E ADJUSTMENTS TO ADJUSTMENT 4 - CUSTOMER GROWTH REVENUE ADJUSTMENT UNDER PRESENT RATES FOR TRUNK LINE FOR THE TEST YEARS ENDING DECEMBER 31, 2017, 2018 AND 2019 Docket No. R-2018-3000834

FPFTY Customer Growth Calculation - Trunk Line		ipany dential	Adjustmer	<u>it</u>	I&E Residential	с —	ompany Total	Adjustment	l&E Γotal
1 Projected Estimated Increase in Customers		252	(126	3)	126		252	(126)	126
2 Annualized Bills		3,024	(1,51)	2)	1,512		3,024	(1,512)	1,512
3 Projected Daily Usage in gallons (a)		111.32	1.10)	112.42		111.32	1.10	112.42
4 Monthly Volumes per Normalization (1000 Gallons) Line 3 X30 /1	10	3.34	0.03	3	3.37			2	
5 FPFTY Customer Annualized Growth Volumes (Line 4 X Line 2)		10,100	(5,000))	5,100		10,100	(5,000)	5,100
6 Priced At First Block 7 Priced At Second Block		10,100	(5,000))	5,100		10,100 -	(5,000)	5,100 -
FPFTY Customer Growth Revenue Calculation - Trunk Line									
8 Average Service Charge	\$	13.75			\$ 13.75	\$	13.75		\$ 13.75
9 Revenue From Service Charge (Line 8 X Line 2)	\$	41,580	\$ (20,790))	\$ 20,790	\$	41,580	\$ (20,790)	\$ 20,790
10 Volume Charge - First Block 11 Volume Charge - Second Block		7.7506		0	7.7506			0	
12 Revenue from Volumetric Charge (Line 6 X Line 10) 13 Priced At First Block 14 Priced At Second Block	\$	78,282	\$ (38,754	4)	\$ 39,528	\$	78,282	\$ (38,754)	\$ 39,528
15 Total FPFTY Adjustment (Line 9 + Line 12)	\$ 1	19,862	\$ (59,544	4)	\$ 60,318	\$	119,862	\$ (59,544)	\$ 60,318

I&E Exhibit No. 3 Schedule 13

SUEZ WATER PENNSYLVANIA INC. I&E ADJUSTMENTS TO SUMMARY OF APPLICATION OF PRESENT RATES TO CUSTOMER BILL ANALYSIS AND PRO FORMA ADJUSTMENTS FOR THE TWELVE MONTHS ENDING DECEMBER 31, 2017, 2018 AND 2019

(E) (F) (G) (H) (I) 8.045 \$ - \$ 11,048,045 \$ 664,035 \$ - \$ 664,035 8.045 \$ - \$ 11,048,045 \$ 664,035 \$ - \$ 664,035 $9,897$) \$ - \$ (49,897) - \$ - \$ -
8,045 \$ - \$ 11,048,045 \$ 664,035 \$ - \$ 664,035 9,897) \$ - \$ (49,897) 9,897) \$ - \$ (49,897) \$ - \$ - \$ - \$
8,045 \$ - \$ 11,048,045 \$ 664,035 \$ - \$ 664,035 9,897) \$ - \$ (49,897) 9,897) \$ - \$ (49,897) \$ - \$ - \$ - \$
9,897) <u>\$ - \$ (49,897)</u> 9,897) <u>\$ - \$ (49,897)</u> <u>\$ - \$ - \$ -</u>
9,897) <u>\$ - \$ (49,897)</u> <u>\$ - </u> \$ - <u>\$</u> -
9,897) <u>\$ - \$ (49,897)</u> <u>\$ - </u> \$ - <u>\$</u> -
9.832) \$ 24.916 \$ (24.916)
9.832) \$ 24.916 \$ (24.916)
\$ - \$ - \$ - \$ - 8,130 \$ (178,130) \$ -
8,298 \$ (153,214) \$ (24,916) \$ - \$ - \$ -
B,401 \$ (153,214) \$ (74,813) \$ - \$ - \$ - \$
Company i&E
any I&E Metered Metered thority Adjustment Public Authority Total Adjustment Total
(E) (F) (G) (H) (I)
7,388 \$ - \$ 1,787,388 \$ 40,938,206 \$ - \$ 40,938,206
7,388 \$ - \$ 1,787,388 \$ 40,938,206 \$ - \$ 40,938,206
6,722) \$ - \$ (56,722) \$ (7,302) \$ - \$ (7,302)
6,722) \$ - \$ (56,722) \$ (7,302) \$ - \$ (7,302)
8,103) \$ 4,052 \$ (4,052) \$ (125,176) \$ 62,588 \$ (62,588)
\$ - \$ 119,862 \$ (59,544) \$ 60,318 \$ - \$ 613,261 \$ (613,261) \$ -
8.103) \$ 4,052 \$ (4,052) \$ 607,947 \$ (610,217) \$ (2,270)
4,825) \$ 4,052 \$ (60,774) \$ 600,645 \$ (610,217) \$ (9,572)

SUEZ WATER PENNSYLVANIA INC. I&E ADJUSTMENTS TO SUMMARY OF PRO FORMA REVENUES UNDER PROPOSED RATES FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2017 AND 2019 AND THE CALCULATION OF THE REVENUE INCREASE UNDER PROPOSED RATES

									Company		I&E
		I&E	1&E			Company		1&E	Total		Total
		Pro Forma	Bill Analysis		18E	Pro Forma		Pro Forma	Pro Forma		Pro Forma
Lin	Customer	Revenues	Revenues	Adjustment	Revenues	Adjustments		Adjustments	Revenue		Revenue
No	Classification	Present Rates	Proposed Rates	Factor	Proposed Rates	Proposed Rates	Adjustment	Proposed Rates	Proposed Rates	Adjustment	Proposed Rates
6401.8		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)	(J)
	METERED SALES										
1	Residential	\$ 28,849,387	\$ 32,053,919	0.99899003	\$ 32,021,545	\$ 613,893	\$ (903,561)	\$ (289,668)	\$ 32,635,438	\$ (903,561)	\$ 31,731,B77
2	Commercial	11,793,932	13,732,962	0.99980693	13,730,311	231,245	(326,857)	(95,611)	13,961,556	(326,857)	13,634,699
3	Industrial	1,467,311	1,742,130	0,99990886	1,741,971	-	-	-	1,741,971	-	1,741,971
4	Municipal	1,840,118	2,275,357	0.99167720	2,256,420	(83,123)	3,503	(79,620)	2,173,296	3,503	2,176,799
5	Total Metered Sales	43,950,748	49,804,367		49,750,246	762,015	(1,226,915)	(464,900)	50,512,261	(1,226,915)	49,285,347
6	Private Fire	1,446,048	1,681,110	1.00000000	1,681,110	10,778		10,778	1,691,887	-	1,691,887
7	Public Fire	923,861	1,008,895	1.00000000	1,008,895				1,008,895		1,008,895
6	Other Operating Revenues	405,611	405,611	-	405,611				405,611		405,611
9	Total	\$ 46,726,267	\$ 52,899,983	-	\$ 52,845,862	\$ 772,793	\$ (1,226,915)	\$ (454,122)	\$ 53,618,655	\$ (1,226,915)	\$ 52,391,740

SUEZ WATER PENNSYLVANIA INC. I&E ADJUSTMENTS TO APPLICATION OF PRESENT RATES AND PROPOSED RATES TO PROFORMA ADJUSTMENTS YEAR ENDED DECEMBER 31, 2017, 2018 AND 2019

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	953 (46,413) 953 (46,413) 313) (225,200) 639 (271,613) 323 (4,831)) 208,539) (414,513)) (414,513)
Customer Charge 1 5/8 13,75 5 25. 2 Subtotal 15,167 - - 5 13,75 5 25. 3 All Usage - Test Year - - (24,426) (29,056) (53,481) 7.7506 (185) 4 Subtotal 18,542 (3,376) 15,167 (24,426) (29,056) (53,481) 65 5 Total Residential 18,542 (3,376) 15,167 (24,426) (29,056) (53,481) 65 5 Total Residential 18,542 (3,376) 15,167 (24,426) (29,056) (53,481) 65 5 Total Residential 18,542 (3,376) 15,167 (24,426) (29,056) (53,481) 65 6 5/8 13,75 3 13,75 13,75 13,75 13,75 13,75 13,75 13,75 13,75 13,75 13,75 13,75 13,75 14 13,75 14,820 14,820 14,820 14,820 14,820 14,820 14,820 14,820	953 (46,413) <u>313) (225,200)</u> 313) (225,200) 639 (271,613)) 208,539) (414,513)) (414,513)) (414,513)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	953 (46,413) <u>313) (225,200)</u> 313) (225,200) 639 (271,613)) 208,539) (414,513)) (414,513)) (414,513)
3 All Usage - Test Year - - $(24,426)$ $(29,056)$ $(53,481)$ 7.7506 (186) 5 Total Residential 18,542 $(3,376)$ 15,167 $(24,426)$ $(29,056)$ $(53,481)$ 65 5 Total Residential 18,542 $(3,376)$ 15,167 $(24,426)$ $(29,056)$ $(53,481)$ 65 Customer Charge - - 13.75 - 13.75 - 13.75 8 - - 13.75 - - 13.75 - 13.75 9 Subtotal 678 (170) 509 - - 13.75 - 11 - - 13.75 11 - 13.75 - 11 - - - 13.75 - 11 - - - 13.75 - 11 - - - 13.75 - 11 - - - 13.75 - - 11 - - - - - - - - - -	313) (225,200) 313) (225,200) 639 (271,613)) (414,513) (414,513) (205,974)
4 Subtotal - - $(24,426)$ $(29,056)$ $(53,481)$ (165) 5 Total Residential 18,542 $(3,376)$ 15,167 $(24,426)$ $(29,056)$ $(53,481)$ 65 5 Total Residential 18,542 $(3,376)$ 15,167 $(24,426)$ $(29,056)$ $(53,481)$ 65 5 Total Residential 18,542 $(3,376)$ 15,167 $(24,426)$ $(29,056)$ $(53,481)$ 65 6 5/6 - - 13,75 - - 13,75 - <td>313) (225,200) 639 (271,613)</td> <td>) (414,513)) (205,974)</td>	313) (225,200) 639 (271,613)) (414,513)) (205,974)
4 Subtotal - - $(24,426)$ $(29,056)$ $(53,481)$ (185) 5 Total Residential 18,542 $(3,376)$ 15,167 $(24,426)$ $(29,056)$ $(53,481)$ 65 5 Total Residential 18,542 $(3,376)$ 15,167 $(24,426)$ $(29,056)$ $(53,481)$ 65 6 S/6 - - 13,75 - - 13,75 -	639 (271,613) 	(414,513)
Commercial - Monthly Customer Charge 13.75 5 5/8 13.75 9 Subtotal 678 (170) 509 - - 13.75 9 Subtotal 678 (170) 509 - - 15.560 19 10 Test Year First Block (First 25) - - (15,360) 3,838 (11,522) 7,7506 (111) 11 Test Year Second Block (Over 25) - - (15,360) 3,838 (11,522) 7,7506 (111) 12 Subtotal - - (15,360) 3,838 (11,522) (111) 13 Total Class 678 (170) 509 (15,360) 3,838 (11,522) (94) 14 Customer Charge - - - - 305,25 15 4 - - - - - - - - - - - - - - -		
$\begin{array}{c} \text{Customer Charge} \\ 6 & 5/6 \\ 7 & 3/4 \\ 8 & 1 \\ 1 & 678 \\ 11 \\ 7 & \text{Subtal} \end{array} \qquad \begin{array}{c} 678 \\ 678 \\ (170) \\ 509 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ $		
$\begin{array}{c} \text{Customer Charge} \\ 6 & 5/6 \\ 7 & 3/4 \\ 8 & 1 \\ \hline \\ 8 & 5 \\ 1 \\ \hline \\ 9 & 5 \\ 1 \\ 9 & 5 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1$		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
8 1 678 (170) 509 - - 28 50 19 9 Subtotal 678 (170) 509 - - 28 50 19 10 Test Year First Block (First 25) - - (15,360) 3,838 (11,522) 7,7506 (111) 11 Test Year Second Block (Over 25) - - (15,360) 3,838 (11,522) - (111) 12 Subtotal - - (15,360) 3,838 (11,522) - (111) 13 Total Class 676 (170) 509 (15,360) 3,838 (11,522) (111) 14 Customer Charge - - - 305,25 6 15 4 - - - - - - 305,25 6 15 4 - <td></td> <td></td>		
s Subtotal 678 (170) 509 11 10 Test Year First Block (First 25) - - (15,360) 3,838 (11,522) 7,7506 (111) 11 Test Year Second Block (Over 25) - - (16,360) 3,838 (11,522) 7,7506 (111) 13 Total Class 678 (170) 509 (15,360) 3,838 (11,522) (11) 14 Customer Charge - - (16,360) 3,838 (11,522) (93) 14 Customer Charge - - - 610,50 11 15 4 - - - 610,50 11 11 15 4 - - - 610,50 11		*
10 Test Year First Block (First 25) - - (15,360) 3,838 (11,522) 7,7506 (119) 11 Test Year Second Block (Over 25) - - (15,360) 3,838 (11,522) 7,7506 (119) 12 Subtotal - - (15,360) 3,838 (11,522) (119) (119) 13 Total Class 678 (170) 509 (15,360) 3,838 (11,522) (9) Large Industrial - Monthly - - - 305,25 (9) 14 Customer Charge - - - 610,50 - 15 6 - - - 610,50 - - 610,50 - - 10,500 - - 10,500 - - - - 10,500 -		
11 Test Year Second Block (Over 25) 5.4321 12 Subtotal - (15,360) 3,838 (11,522) (11 13 Total Class 678 (170) 509 (15,360) 3,838 (11,522) (98 Large Industrial - Monthly 4 Customer Charge 5 4 505,25 610,50 15 4 - - 610,50 17 Subtotal 505,25 610,50 16 6 - - 610,50 17 Subtotal 18 Take or Pay Volume - 23,942 - 23,942 3,6045 610	323 (4,831)	14,492
12 Subtotal - (15,360) 3,838 (11,522) (111 13 Total Class 678 (170) 509 (15,360) 3,838 (11,522) (95 Larce Industrial - Monthly 14 Customer Charge 305.25 66 509 610.50 509 115 4 505.25 610.50 50 115 <td< td=""><td>051) 29,746</td><td>(89,305)</td></td<>	051) 29,746	(89,305)
13 Total Class 678 (170) 509 (15,360) 3,838 (11,522) (99 Larce Industrial - Monthly 14 Customer Charge 305,25 6 610,50 610,50 16 6 6 610,50 610,50 610,50 610,50 18 Take or Pay Volume - 23,942 - 23,942 3,6045 610	·	· · · ·
Large Industrial - Monthly 14 Customer Charge 15 4	051) 29,746	(89,305)
14 Customer Charge 305.25 15 4 - 305.25 16 - - 610.50 17 Sublotal - - 18 Take or Pay Volume - 23.942 - 23.945 86	.728) 24,915	(74,613)
15 4		
16 6 610.50 17 Sublotal 610.50 18 Take or Pay Volume - 23,942 - 23,942 3.6045 BK		
17 Sublotal 18 Take or Pay Volume - 23,942 - 23,942 3,6045 86	S 54	2
18 Take or Pay Volume - 23,942 - 23,942 3,6045 86	* *	
18 Take or Pay Volume - 23,942 - 23,942 3.6045 Bit 19 Subtotal - 23,942 - 23,942 86	± *.	
19 Subtotal	299 -	86,299
	299 -	86,299
20 Total - 23,942 - 23,942 86	- 299	86,299
Public Authority - Monthly		
Customer Charge	540) 453 OVO	454 700
	540) 163,240	
22 Subtotal (112) 7 (105) (1	540) 163,240	161,700
	702) -	(21,702)
24 Second Block (Over 160) (7,655) 478 (7,177) 5,4321 (4	584) 2,599	
25 Sublotal	286) 2,599	(60,687)
26 Total (112) 7 (105) (10,455) 478 (9,977) (64	,826) 165,839	101,013
27 Total 19,108 (3,538) 15,570 (50,241) (24,739) (74,980) (9) (179,774)

SUEZ WATER PENNSYLVANIA INC. I&E ADJUSTMENTS TO APPLICATION OF PRESENT RATES AND PROPOSED RATES TO PROFORMA ADJUSTMENTS YEAR ENDED DECEMBER 31, 2017, 2018 AND 2019

				YEAR	ENDED DECEM	BER 31, 2017, 2	018 AND 2019				
Line		Company Number Of Bills	Adjustment	I&E Number Of Bills	Company Total Consumption	_Adjustment_	I&E Total Consumption	I&E Proposed Rate	Company Proposed Revenue	Adjustment	I&E Adjusted Proposed Revenue
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)	(L)
					Reside	ential - Monthly					
	Customer Charge 5/8	18,542	(3,376)	15,167				\$ 15.00	\$ 278,13	0 (50,633)	\$ 227,498
1		18,542	(3,376)	15,167				a 13.00	278,13		227,498
1	0.0010101	10,042	(0,510)	10,107					2,0,10	(55,555)	221,400
3	All Usage - Test Year				(24,426)	(29,056)	(53,481)	9.6700	(236,196	6) (280,970)	(517,166)
- 4	Subtotal				(24,426)	(29,056)	(53,481)		(236,19	6) (280,970)	(517,166)
5	Total Residential	18,542	(3,376)	15,167	(24,426)	(29,056)	(53,481)	5	41,93	4 (331,602)	(289,668)
					C	and Manthhe					
	Customer Charge				Comm	ercial - Monthly					
6	5/8				000	-	1	15.00	-	-	-
7	3/4				.*3		2	15.00	-	-	-
в	1	678	(170)	509			· · · · · ·	31.09	21,07		15,809
9	Sublotal	678	(170)	509		-	-		21,07	9 (5,270)	15,809
10	Test Year First Block (First 25)	10		-	(15,360)	3,838	(11,522)	9 6700	(148,53-	4) 37,113	(111,421)
11 12	Test Year Second Block (Over 25) Sublotal				(15,360)	3,838	(11,522)	7.1020	(148,53	4) 37,113	(111,421)
12	Subiotal	1.1	-	-	(13,300)	3,030	(11,322)		(140,03	4) 37,115	(111,421)
13	Total Class	878	(170)	509	(15,360)	3,838	(11,522)		(127,45	5) 31,844	(95,611)
	Large Industrial - Monthly										
14											
15					*		-	333.00 666.00			
16 17	6 Subtotal				•		-	666,00	*		
17	Subtoral			-	19	100	a))		10	157	25
18	Take or Pay Volume	24	-	-	23,942		23,942	*			
19	Subtotal		-	-	23,942	· · · ·	23,942		-		
20	Total	2	-	-	23,942		23,942			1.72	
	Customer Charge			Public Autho	ority - Monthly						
21	Customer Charge 5/8	(112)	7	(105)	-		-	15.00	(1.68	0) 105	(1,575)
22	Subiotal	(112)	7	(105)	-	-	-		(1,68)		(1,575)
23	First Block (First 160)		-	-	(2,800)	-	(2,800)	9.6700	(27,07)		(27,076)
24	Second Block (Over 160)			<u> </u>	(7,655)	478	(7,177)	7.1020	(54,36)		(50,969) (78,045)
25	Sublotal	*	-	•	(10,455)	4/8	(9,977)		(81,44	3) 3,398	(10,040)
26	Total	(112)	7	(105)	(10,455)	478	(9,977)		(83,12	3) 3,503	(79,620)
27	Total	19,108	(3,538)	15,570	(50,241)	(24,739)	(74,980)		(168,64	4) (296,256)	(464,900)

SUEZ WATER PENNSYLVANIA INC. I&E ADJUSTMENTS TO SUMMARY OF APPLICATION OF PROPOSED RATES TO CUSTOMER BILL ANALYSIS AND PRO FORMA ADJUSTMENTS FOR THE TWELVE MONTHS ENDING DECEMBER 31, 2017 AND 2019

Line No		Company Residential (A)	Adjustment (B)	I&E Residential (C)	Company Commercial (D)	Adjustment (E)	I&E Commercial (F)	Company Industrial (G)	Adjustment (H)	I&E Industrial (I)
	Proposed Rate Application	<u>n</u>								
1	Total Revenue	\$ 32,053,919	\$ -	\$ 32,053,919	\$ 13,732,962	\$ -	\$ 13,732,962	\$ 888,772	<u>\$</u> -	\$ 888,772
2	Total	\$ 32,053,919	<u> </u>	\$ 32,053,919	\$ 13,732,962	<u>\$</u>	\$ 13,732,962	\$ 888,772	\$	\$ 888,772
	Pro Forma Adjustments									
3 4	All Including Trunk Line Mahoning Twp.	\$	\$ 49,221 \$ (571,959)	\$ 91,155 \$ -	\$ (127,455) \$ 358,700	\$ 31,844 \$ (358,700)	\$ (95,611) \$ -	\$- \$-	\$- \$-	\$- \$-
5	Total	\$ 613,893	\$ (522,738)	\$ 91,155	\$ 231,245	\$ (326,857)	\$ (95,611)	\$	<u>\$ -</u>	\$
		Company Large Industrial (A)	Adjustment (B)	I&E Large Industrial (C)	Company Municipal (D)	Adjustment (E)	I&E <u>Municipal</u> (F)	Company Metered Total (G)	Adjustment (H)	I&E Metered (i)
	Proposed Rate Applicatio	Large Industrial (A)	the second se	Large Industrial	Municipal		Municipal	Metered Total		Metered Total
6	Proposed Rate Applicatio	Large Industrial (A)	the second se	Large Industrial	Municipal		Municipal	Metered Total		Metered Total
6		Large Industrial (A)	(B)	Large Industrial (C)	Municipal (D)	(E)	<u>Municipal</u> (F)	Metered Total (G)	(H)	Metered Total (I)
	Total Revenue	Large Industrial (A) <u>n</u> <u>\$ 853,358</u>	(B)	C)	<u>Municipal</u> (D) \$ 2,275,357	(E) \$	Municipal (F) \$ 2,275,357	Metered Total (G) \$ 49,804,367	(H) \$ -	Metered Total (I) \$ 49,804,367
	Total Revenue Total	Large Industrial (A) <u>n</u> <u>\$ 853,358</u>	(B)	C)	<u>Municipal</u> (D) \$ 2,275,357	(E) \$	Municipal (F) \$ 2,275,357	Metered Total (G) \$ 49,804,367	(H) \$ -	Metered Total (I) \$ 49,804,367

SUEZ WATER PENNSYLVANIA INC. I&E ADJUSTMENTS TO ANALYSIS OF DIRECT CUSTOMER COSTS METERS AND SERVICES

Line		Com	pany	Adjustn	nent	18E		
No.	Description	Meters	Services	Meters	Services	Meters	Services	
_	Operation and Maintenance Expenses							
	T&D Labor - Operation							
1	Employee Salaries - Supervision	\$ 7,978		\$ -		\$ 7,978		
2	Employee Salaries - Meters	141,836		•		141,836		
3	Fringe Benefits	58,775		2		58,775		
	T&D Labor - Maintenance							
4	Employee Salaries - Supervision		\$ 6,408				\$ 6,408	
5	Employee Salaries - Structures and Impro	ovments	19,032		(19,032)		*	
6	Employee Salaries - Services		74,524		2.45		74,524	
7	Fringe Benefits		41,018		57.		41,018	
8	Total Customer Accounting Expenses							
9	Management Fees - Customer Related							
10	Management Fees - Employee Related	10,211	6,959	(10,211)	(6,959)	-	-	
11	Transportation Expense	3,666	2,396	(3,666)	(2,396)	-	-	
12	Worker's Compensation	3,421	2,236	(3,421)	(2,236)	-		
13	Advertising Expense	114	74			114	74	
14	Office Rents	1,868	1,221			1,868	1,221	
15	Subtotal	227,868	153,869	(17,298)	(30,624)	210,570	123,245	
	Depreciation Expense							
16	Meters	976,632				976,632		
17	Services		696,307			0.0,001	696,307	
18	Office Buildings	7,415	4,847		0	7,415	4,847	
19	Office Furniture & Equipment	1,026	671	-	0	1,026	671	
20	Computer Software - CIS	1,020						
21	Subtotal	985,074	701,825		o	985,074	701,825	
	Taxes Other Than Income							
22	Payroll Taxes	21.847	14,890	-	0	21,847	14,890	
23	Assessments	-		·				
24	Subtotal	21,847	14,890		0	21,847	14,890	
	Rate Base							
25	Meters	14,543,019				14,543,019		
26	Services		27,943,391				27,943,391	
27	Office Land/Buildings	315,200	206,053			315,200	206,053	
28	Office Furniture and Equipment	10,987	7,183		-	10,987	7,183	
29	Computer Software - CIS	10,001	.,					
30	Materials and Supplies	14,881	9,728	-	(a)	14,881	9,728	
31	Deferred Taxes	(1,092,904)	(2,042,846)		0	(1,092,904)	(2,042,846)	
32	Subtotal	13,791,184	26,123,508		0	13,791,184	26,123,509	
33	Return and Income Taxes	1,409,175	2,669,285		0	1,409,175	2,669,285	
34	Total Direct Customer Costs	2,643,964	3,539,869	(17,298)	(30,623)	2,626,666	3,509,245	

I&E Exhibit No. 3 Schedule 18 Page 2 of 2

SUEZ WATER PENNSYLVANIA INC. I&E ADJUSTMENTS TO ANALYSIS OF DIRECT CUSTOMER COSTS BILLING AND COLLECTING

Line No.	Description	Company Billing & Collecting	Adjustment	I&E Billing & Collecting
140.	Operation and Maintenance Expenses		Aujustment	Collecting
	T&D Labor - Operation			
1	Employee Salaries - Supervision			
2	Employee Salaries - Meters			
3	Fringe Benefits			
U.	T&D Labor - Maintenance			
4	Employee Salaries - Supervision			
5	Employee Salaries - Structures and Impro	ovments		
6	Employee Salaries - Services	SVINCING.		
7	Fringe Benefits			
1	Total Customer Accounting Expenses	\$ 1,960,672	(190,523)	\$ 1,770,150
2	Management Fees - Customer Related	377,179	(377,179)	
3	Management Fees - Employee Related	55,857	(55,857)	
4	Transportation Expense	27,000	(27,000)	-
5	Worker's Compensation	25,199	(25,199)	
6	Advertising Expense	836		836
7	Office Rents	13,759	<u>1</u> 2	13,759
8	Subtotal	2,460,501	(675,757)	1,784,744
	Depreciation Expense			
9	Meters			
10	Services			
11	Office Buildings	54,617	2	54,617
12	Office Furniture & Equipment	7,560	-	7,560
13	Computer Software - CIS	5,528_	-	5,528_
14	Subtotal	67,706	2	67,706
	Taxes Other Than Income			
15	Payroll Taxes	119,509	-	119,509
16	Assessments			-
17	Subtotal	119,509		119,509
	Rate Base			
18	Meters			
19	Services			
20	Office Land/Buildings	2,321,667	-	2,321,667
21	Office Furniture and Equipment	80,929		80,929
22	Computer Software - CIS	5,528	5	5,528
23	Materials and Supplies	109,611	-	109,611
24	Deferred Taxes	(331,069)	-	(331,069)
25	Subtotal	2,186,666	1	2,186,666
26	Return and Income Taxes	223,432	-	223,432
27	Total Direct Customer Costs	2,871,148	(675,757)	2,195,391

SUEZ WATER PENNSYLVANIA INC. I&E ADJUSTMENTS TO CALCULATION OF CUSTOMER COST PER MONTH FOR A 5/8-INCH METER BASED ON DIRECT COSTS

Cost Function (1)	Direct Cost of Service (2)	Total <u>Units</u> (3)	Cost Per 5/8-inch Meter (4)	Cost Per 5/8-inch Meter <u>Monthly Bill</u> (5)
Meters	2,626,666	77,769 5/8-inch Equivalents	\$33.78	\$2.82
Services	3,509,391	63,972 3/4-inch Equivalents	54.86	4.57
Billing, Collecting and Meter Reading	2,196,290	62,282 Customers	35.26	2.94
Subtotal Customer Costs	\$8,332,347			10.33
Unrecovered Public Fire	3,438,063	77,769 5/8-inch Equivalents	44.21	3.68
Total Customer Costs and Public Fire	\$11,770,411			\$14.01

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION	:	
V.	:	Docket No. R-2018-3000834
SUEZ WATER PENNSYLVANIA INC	:	

WITNESS VERIFICATION THE BUREAU OF INVESTIGATION AND ENFORCEMENT

I, Brenton Grab, on behalf of the Bureau of Investigation and Enforcement, hereby verify that the documents preliminarily identified as:

I&E Statement No. 1-R, and, I&E Exhibit No. 1-R were prepared by me or under my direct supervision and control. Furthermore, the facts contained therein are true and correct to the best of my knowledge, information and belief and I expect to be able to prove the same at an Evidentiary Hearing in this matter. This Verification is made subject to the penalties of 18 Pa. C.S. § 4904 relating to unsworn falsification to authorities.

motion Drah

Brenton Grab Pennsylvania Public Utility Commission Bureau of Investigation and Enforcement

Dated: August 30, 2018

I&E Statement No. 1-R Witness: Brenton Grab

PENNSYLVANIA PUBLIC UTILITY COMMISSION

v.

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

Rebuttal Testimony

of

Brenton Grab

Bureau of Investigation and Enforcement

Concerning:

CONTRIBUTIONS IN AID OF CONSTRUCTION

1	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
2	А.	My name is Brenton Grab, and my business address is Pennsylvania Public Utility
3		Commission, P.O. Box 3265, Harrisburg, PA 17105-3265.
4		
5	Q.	BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
6	А.	I am employed by the Pennsylvania Public Utility Commission ("Commission" or
7		"PUC") in the Bureau of Investigation and Enforcement ("I&E") as a Fixed Utility
8		Financial Analyst.
9		
10	Q.	ARE YOU THE SAME BRENTON GRAB THAT SUBMITTED DIRECT
11		TESTIMONY IN I&E STATEMENT NO. 1 IN THIS PROCEEDING?
12	А.	Yes.
13		
14	Q.	WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
15	А.	The purpose of my rebuttal testimony is to respond to the direct testimony of the
16		Pennsylvania Builders Association ("PBA") witness Daniel E. Durden (PBA
17		Statement No. 1) regarding Suez Water Pennsylvania Inc.'s ("Suez," "SWPA," or
18		"Company") rate case filed on April 30, 2018. Specifically, Mr. Durden's
19		testimony addresses the proposal of Suez "insofar as it relates to the impact of
20		the Federal Tax Cuts and Jobs Act ("TCJA") on the requirement for water and
21		sewer utilities to recognize Contributions in Aid of Construction ("CIAC") as

1		taxable income and the associated effect on charges to developers and customers
2		who remit those CIAC charges." ¹
3		
4	Q.	DOES YOUR TESTIMONY INCLUDE AN ACCOMPANYING EXHIBIT?
5	A.	Yes. I&E Exhibit No. 1-R contains schedules that support my rebuttal testimony.
6		
7	Q.	WHAT IMPACT DOES THE TCJA HAVE ON CIAC FOR WATER
8		COMPANIES?
9	A.	Prior to the TCJA, water utilities were operating under a long-standing exemption
10		that did not require received CIAC to be treated as income for income tax
11		purposes. Implementation of the TCJA eliminated this exemption for water
12		utilities.
13		
14	Q.	SUMMARIZE SUEZ'S PROPOSAL RELATED TO THE IMPACT OF THE
15		TCJA ON THE REQUIREMENT FOR WATER AND SEWER UTILITIES
16		TO RECOGNIZE CIAC AS TAXABLE INCOME.
17	А.	Suez proposes to gross-up the CIAC charged to developers at the net present value
18		of cash flows resulting from the taxability of the CIAC and the future deductibility
19		for income tax purposes of the resulting asset. The Company also proposes that
20		the deferred income tax impact of the transaction be held outside of the

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¹PBA Statement No. 1, p. 2.

o utilize the capital structure and debt cost rate of its ez Water Resources, and the water proxy group return on ect as of December 31 of each year and update this calculation reatment of the contribution requires the contributor to pay associated with the contribution, so that Suez customers do tribution. (SWPA Statement No. 3, pp. 8-9.) C WITH THE COMPANY'S PROPOSALS COVE?
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WITH THE COMPANY'S PROPOSALS
SOVE?
GREE WITH SUEZ'S PROPOSAL RELATED TO THE
ГСЈА ON THE REQUIREMENT FOR WATER AND
S TO RECOGNIZE CIAC AS TAXABLE INCOME?
A'S RECOMMENDATION REGARDING HOW SUEZ
T FOR CIAC?
ends that Suez adopt the "no gross-up" method to account for
the proposal of Pennsylvania America Water Company

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1		income taxes paid on CIAC to a deferred account and include those taxes in rate
2		base in future base rate proceedings (PBA Statement No. 1, p. 4). Under this
3		method, the contributor of the capital is not charged the income tax associated
4		with the contribution as it is recovered from existing customers.
5		
6	Q.	WHAT IS MR. DURDEN'S BASIS FOR RECOMMENDING THIS
7		ALTERNATE METHOD?
8	A.	Mr. Durden argues that the new financial burden associated with paying the tax on
9		CIAC may deter developers from commencing construction projects of main and
10		line extensions for Suez, which is not in the public interest because Suez should
11		have adequate resources to invest in new infrastructure and capital developments
12		and to increase water accessibility (PBA Statement No. 1, p. 3). Also, he states a
13		larger customer base spreads the overall cost of service to more customers, which
14		lowers the customer cost (PBA Statement No. 1, p. 3). By not allowing the
15		Company to spread fixed costs over a greater number of customers Mr. Durden
16		states it will increase costs in the long run, which is contrary to PUC policy (PBA
17		Statement 1, p. 4). He also argues that by imposing the tax on the new customers
18		or the developer it could create a disincentive to use public utilities to serve new
19		customers' water needs and push them to use wells which will increase customers'
20		costs in the long run (PBA Statement No. 1, p. 4).
21		Mr. Durden states that under his new proposal customers will benefit from
22		advances that are funded through CIAC and any costs related to taxable CIAC will

1		be offset by additional customers. He also states that the tax expense for Suez will
2		be recovered over the life of the property, which is a better result (PBA Statement
3		No. 1, p. 5).
4		
5	Q.	DID MR. DURDEN PROVIDE ANY OTHER REASONS IN SUPPORT OF
6		HIS ALTERNATE PROPOSAL?
7	A.	Yes. Mr. Durden mentioned that the Commission approved the no gross-up
8		taxable CIAC method for Columbia Gas of Pennsylvania, Inc. (Columbia Gas)
9		and York Water Company (York Water), indicating that the method is lawful,
10		nondiscriminatory, and reasonable (PBA Statement No. 1, p. 5).
11		
12	Q.	DO YOU AGREE WITH MR. DURDEN'S RECOMMENDATION?
13	А.	No.
14		
15	Q.	
16		PLEASE EXPLAIN.
	А.	PLEASE EXPLAIN. I oppose Mr. Durden's request to adopt the no gross-up method because current
17	А.	
17 18	А.	I oppose Mr. Durden's request to adopt the no gross-up method because current
	А.	I oppose Mr. Durden's request to adopt the no gross-up method because current customers should not be required to subsidize the cost to construct new plant and
18	А.	I oppose Mr. Durden's request to adopt the no gross-up method because current customers should not be required to subsidize the cost to construct new plant and serve new customers. Suez should be required to continue to use the "gross-up"
18 19	Α.	I oppose Mr. Durden's request to adopt the no gross-up method because current customers should not be required to subsidize the cost to construct new plant and serve new customers. Suez should be required to continue to use the "gross-up" method as it has proposed where the contributor bears the total uneconomic cost of
18 19 20	Α.	I oppose Mr. Durden's request to adopt the no gross-up method because current customers should not be required to subsidize the cost to construct new plant and serve new customers. Suez should be required to continue to use the "gross-up" method as it has proposed where the contributor bears the total uneconomic cost of the extension. including income taxes. Such taxes would not be included in rate

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1	extensively addressed this issue and adopted the gross-up method for water and
2	wastewater utilities in an Opinion and Order Entered on June 14, 1989 (1989
3	Order), which regulated water and wastewater utilities have followed and should
4	continue to follow for future projects (I&E Exhibit No. 1-R, Schedule 1). The
5	1989 Order was rendered inapplicable regarding CIAC for water and wastewater
6	utilities after the 1996 federal tax law change, since CIAC for water and
7	wastewater utilities were declared tax exempt in the 1996 tax law change. Now
8	that the TCJA eliminated this federal tax exemption, the 1989 Order is again
9	applicable and should be given its full force and effect, and Suez and all water and
10	wastewater utilities should use the gross-up method in calculating CIAC as was
11	previously ordered in the 1989 Order. The Commission stated in the 1989 Order
12	that "The contributor bears the total cost, including taxes of the plant because he
13	also will reap its full benefit" (I&E Exhibit No. 1-R, Sch. 1, p. 25).
14	Mr. Durden indicated that his no gross-up proposal is consistent with
15	PAWC's proposal at Docket No. R-2018-3002504 (PBA Statement No. 1, p. 4).
16	Note that Mr. Durden's references are to PAWC's wastewater docket; the correct
17	docket for the equivalent water proposal is R-2018-3002502. I&E filed a
18	complaint against both proposals on July 24, 2018, and the Commission
19	suspended PAWC's filing pending a full investigation on August 2, 2018. A
20	proposal in another ongoing contested proceeding has no weight in this Suez
21	proceeding. I should also note that in the 1989 investigation, a great majority of
22	the water and sewer utilities agreed that current customers should be insulated

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1	from costs arising from CIAC or Customer Advances for Construction (CAC)
2	(I&E Exhibit No. 1-R, Sch. 1, p. 25). During the 1989 investigation, PAWC
3	indicated that it preferred using the full gross-up method, meaning PAWC agreed
4	with charging the full tax to the contributor and insulating current customers from
5	the cost (I&E Exhibit No. 1-R, Sch. 1, p. 9).
6	Mr. Durden did not provide any proof such as studies, examples, or
7	documentation to support his claim that including the tax costs with the CIAC will
8	decrease the amount of contributions Suez will receive. Without any kind of
9	support for his assertion, there is no guarantee that developers paying the tax on
10	CIAC will decrease the extension of services to new customers and cause
11	detrimental effects to Suez and its customers. Under the no gross-up method as
12	proposed by Mr. Durden, existing customers would be charged the tax on CIAC as
13	opposed to the developers, which is an unnecessary socialization of line extension
14	costs. His reasoning that the CIAC tax should be paid by customers to avoid a
15	possible detriment experienced by reduced extensions and customer additions is
16	unsound. Under the no gross-up method, current customers are going to
17	experience a detriment from having to pay the tax on CIAC. Further, Mr. Durden
18	presents no substantial evidence that, under the gross-up method, customers or
19	Suez will experience a detriment based on Mr. Durden's belief that developers'
20	willingness to pay CIAC will be reduced. It is reasonable to assume that any
21	additional CIAC paid by a developer due to the tax gross up would simply be

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passed along to its eventual customers, thereby making the developer whole for its
 investment.

3

4 Q. IS THERE ANY INFORMATION FROM A WATER AND/OR 5 WASTEWATER UTILITY INDICATING THAT THE NO GROSS-UP 6 METHOD WILL CAUSE A SIGNIFICANT INCREASE IN COSTS 7 DESIGNATED TO CUSTOMERS?

8 A. Yes. In response to TUS Data Request Set 1, R-5 related to Docket No. R-2018-9 3002502, PAWC compared the net present value ("NPV") of the effect on 10 water customers based on an annual CIAC estimate of \$5 million for its no 11 gross-up proposal (CIAC Method 3) and the three gross-up methods (CIAC 12 Method 2, CIAC Modified Method 2, and CIAC Method 5) approved in the 13 Commission's 1989 Order (I&E Exhibit No. 1-R, Sch. 2, pp. 2-3). The 14 Company's no gross-up proposal had an NPV of \$931,000, which would be 15 recovered from all customers, while the three gross-up methodologies either 16 decrease rates (CIAC Method 2) or do not affect customer rates (CIAC Modified 17 Method 2 and CIAC Method 5) (I&E Exhibit No. 1-R, Sch. 2, pp. 2-3). 18 19 WHAT IS YOUR RESPONSE TO MR. DURDEN'S ARGUMENT THAT Q. 20 HIS PROPOSAL IS JUST, REASONABLE, AND NONDISCRIMINATORY BASED ON THE COMMISSION'S APPROVAL OF THE NO GROSS-UP 21 22 **METHOD FOR COLUMBIA GAS AND YORK WATER?**

1	A.	During the 1989 investigation the Commission recognized the value of adopting
2		an appropriate methodology for accounting for CIAC and CAC on an industry-by-
3		industry basis due to different industries and their customers having varying
4		circumstances and needs that necessitate different methodologies (I&E Exhibit
5		No. 1-R, Sch. 1, p. 23). For gas (such as Columbia Gas) and electric industries the
6		Commission approved the no gross-up method, even if existing customers share in
7		the cost (I&E Exhibit No. 1-R, Sch. 1, p. 24). The Commission reasoned that this
8		method promotes growth since electric and gas utilities operate in an energy
9		competitive environment and have the potential to provide a "public benefit" in
10		the form of economic development (I&E Exhibit No. 1-R, Sch. 1, p. 24).
11		However, for water and wastewater the Commission approved the gross-up
12		method since the same considerations did not apply (I&E Exhibit No. 1-R, Sch. 1,
13		p. 25). The Commission stated that for the water and wastewater industry
14		"competition within the industry is not as vital a force as it is in the energy-based
15		industries. Economic development, while an important consideration, is not as
16		sensitive to water utility pricing as it is to energy costs." (I&E Exhibit No. 1-R,
17		Sch. 1, p. 25.) Therefore, Mr. Durden's argument that his no gross-up method
18		proposal is just, reasonable, and nondiscriminatory based on Columbia's
19		utilization of the method does not support its use by Suez or any other water or
20		wastewater company.
21		Mr. Durden further opines his proposal is nondiscriminatory, just, and

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21 Mr. Durden further opines his proposal is hondiscriminatory, just, and
 22 reasonable since York Water is using a no gross-up method in accounting for

1		CIAC (PBA Statement No. 1, p. 5). To my knowledge, York Water is the only
2		jurisdictional water and wastewater Company authorized to use the no gross-up
3		method. Since York Water's CIAC accounting methodology is not uniform with
4		the other Commission regulated water and wastewater utilities, it is I&E's
5		intention to address this in York Water's current base rate case (Docket No.
6		R-2018-3000019) and recommend that York Water utilize the gross-up CIAC
7		accounting method to establish uniformity with the other water and wastewater
8		utilities.
9		
10	Q.	PLEASE SUMMARIZE YOUR RECOMMENDATION.
11	А.	I recommend that the Company's proposed gross-up methodology be approved as
12		it appropriately recommended that the contributor, not existing customers, pay for
13		the income taxes associated with the contribution. The PBA's recommendation
14		should be rejected as it shifts the responsibility from the contributor to existing
15		customers, which violates the Commission's 1989 Order and is not the
16		methodology utilized by other regulated water and wastewater utilities.
17		
18	Q.	DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?
19	A.	Yes.

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I&E Exhibit No. 1-R Witness: Brenton Grab

PENNSYLVANIA PUBLIC UTILITY COMMISSION

v.

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

Exhibit to Accompany

the

Rebuttal Testimony

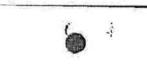
of

Brenton Grab

Bureau of Investigation & Enforcement

Concerning:

CONTRIBUTIONS IN AID OF CONSTRUCTION



I&E Exhibit No. 1-R Schedule 1 Page 1 of 33

PENNSYLVANIA PUBLIC UTILITY COMMISSION Harrisburg, PA 17120

Public Meeting held May 11, 1989

Commissioners Present:

Bill Shane, Chairman William H. Smith, Vice Chairman Joseph Rhodes, Jr. Frank Fischl

Investigation of Accounting and Ratemaking Associated with Contributions in Aid of Construction and Customer Advances

OPINION AND ORDER



Docket No. 1-880083



BY THE COMMISSION:

I. INTRODUCTION

Contributions in Aid of Construction ("CIAC") and Customer Advances ("CAC") were given taxable status under the Tax Reform Act of 1986 ("TRA86"). On August 10, 1987, the Office of Trial Staff ("OTS") filed a Petition at Docket No. P-870246 requesting that an Investigation be initiated to address the proper accounting and ratemaking treatment of CIAC and CAC, given their new taxable status. The OTS also expressed concern that there was no uniform treatment of CIAC and CAC among jurisdictional utilities and noted that many utilities had no tariffs that specifically covered such charges to ratepayers. The OTS expressed the concern that the taxes now assessed by the Internal Revenue Service on these revenues, would be charged directly to current ratepayers, rather than to the new ratepayers and developers, for whom the new plant was constructed.

In it's Petition, the OTS identified and analyzed six ratemaking methods that could be employed for CIAC and two for



I&E Exhibit No. 1-R Schedule 1 Page 2 of 33

CAC. The analysis included Net Present Value ("NPV") computations of the revenue streams from both current ratepayers and contributors. $\frac{1}{}$ (The computations were adjusted slightly in the OTS Reply comments based upon the critique of these calculations by other Respondents in the Investigation. The six CIAC and two CAC methodologies were described as follows.

- <u>CIAC Method 1</u> The new customer or developer <u>guarantees a</u> <u>certain level of revenues</u> (assumed to be \$1000 in order to make the analysis of this method consistent with other CIAC methods). This revenue initially reduces current ratepayers' revenue requirement, however the plant enters rate base and current ratepayers pay a return on it and provide a reimbursement through depreciation expense over the plant life. The cost to the developer under Method 1 is \$1000 while the NPV of the effect on existing ratepayers is \$232.67.
- CIAC Method 2 The CIAC is "grossed-up" for the full amount of the Federal Income Tax and is charged to the contributor. There would be no rate base inclusion. However, all tax depreciation would be flowed through to the benefit of existing ratepayers over the tax life. Under this method the contributors cost is \$1655.90 while the NPV of the effects upon existing customers revenue requirement is (\$284.35).

^{1/} In the analysis the OTS made all assumptions and variables constant across all methods, and assumed the plant to be constructed would be valued at \$1000. (The assumptions and variables employed are presented at Page 8 of the original OTS Petition and were adjusted per pages 3 and 4 of the OTS reply comments. The OTS calculations have been reviewed and it has determined that they accurately reflect the NPV of the cash flows produced by each methodology. The costs identified in this Opinion and Order reflect all of the corrections made by the OTS to their NPV analysis. These corrections arose from the Respondents' Initial Comments.



I&E Exhibit No. 1-R Schedule 1 Page 3 of 33

- CIAC Method 2 (Modified) The CIAC is "grossed-up" for the full amount of the Federal Income tax and is charged to the contributor. There would be no rate base inclusion and all tax depreciation benefits would flow back to the contributors as they are realized by the utility. Under this method, the contributor's NPV cost is dependent upon the timing of the realization of the tax depreciation benefits by the utility. In any case, the cost will be lower than under the full gross up methodology of the original CIAC Method 2. Existing customer rates are unaffected under the method.²/
- <u>CIAC Method 3</u> <u>No gross-up of CIAC</u> occurs. The utility pays the tax on the \$1000 contribution and the resulting <u>deferred</u> <u>tax debit is added to rate base</u>. It is removed from rate base as the utility receives the tax depreciation effects. The NPV of the effect on current ratepayers is \$281.50.
- CIAC Method 4 Full tax effects are currently charged to ratepayers as a result of the base contribution of \$1000. Tax benefits are flowed through to current ratepayers over the plant life. The NPV of the effect on current ratepayers is \$311.93.
- CIAC Method 5 CIAC is "grossed-up" by the NPV of the tax liability of CIAC, less the tax reductive effects of the tax depreciation that will be received over the plant's life. The resultant contribution is \$1363.91. There is no effect on current ratepayers' revenue requirement.

^{2/} CIAC Method 2 - Modified was first proposed in the Initial Comments of several utilities and was then further addressed by the OTS as a viable option in its Reply Comments.



I&E Exhibit No. 1-R Schedule 1 Page 4 of 33

- <u>CIAC Method 6</u> <u>No gross-up of CIAC</u> is made. The <u>related tax</u> of \$396.63 is a rate base addition. Current Ratepayers pay a return on rate base and for book depreciation. They receive the benefits of the tax depreciation when received. The NPV of the effect on current ratepayers is \$280.54.
- CAC Method A A <u>full gross-up</u> method for advances in which the contributor pays \$1655.90 in year one, then receives refunds that are fully "grossed-up". The NPV of the costs to contributor using the OTS assumption is \$1226.62. The NPV of the increased cost to current ratepayers is \$110.41. The increased ratepayer cost results from the effects of refunded amounts entering the rate base of the utility.
- <u>CAC Method B</u> <u>A net of tax gross-up method</u> in which the contributor provides advances of \$1655 less the NPV of tax depreciation effects or a total of \$1441.06. The contributor receives refunds of \$360.00 and the NPV of his cost is \$1050.82. The NPV of the ratepayers cost is \$325.27. The ratepayer cost is higher than in Method A since in Method B the tax depreciation benefits accrue to the contributors benefit, not the ratepayers.

II. OTS PETITION

In its Petition, the OTS' preferred CIAC method was Method 5. It states:

Only those methods that leave general revenue requirements unchanged and increase contributor payments should be considered under normal circumstances. This pares the methods down to one, Method 5. Because the revenue requirement remains substantially unchanged using this method, OTS prefers this method with respect to ratepayers interests... This method holds general ratepayers harmless while minimizing the total CIAC and associated taxes to be paid by contributors....

- 4 -



I&E Exhibit No. 1-R Schedule 1 Page 5 of 33

The OTS states that since CIAC are used to construct plant that is to be employed by new customers, it is those new customers that should bear the rate increase effects. Current ratepayers should not subsidize the addition of new customers.

The OTS also supported CIAC Method 1 of <u>guaranteed</u> <u>revenues</u> in instances where it can be shown that CIAC "gross-up" will create true hardship, and where the plant additions will, to some degree, benefit all ratepayers or where the general populace of the area will benefit through economic development.

As regards Advances, the OTS prefers CAC Method A, a full gross-up method. It is preferred because it "more efficiently assigns costs to the customer/developer to whom the assets are attributable..." and because the full gross-up method is not dependent on the amount or timing of refund forecasts, unlike "net of tax" gross-ups such as CAC Method B. The OTS also concludes with regard to advances, that non gross-up methods could be employed where hardship or public good is a factor.

III. COMMISSION ACTION

In response to the Petition of the OTS we initiated an Investigation on August 18, 1988 at Docket No. I-880083, to consider the appropriate accounting and ratemaking for CIAC and CAC. All jurisdictional fixed utilities were named as respondents and the Office of Consumer Advocate (OCA) was invited to participate. Initial and Reply Comments were solicited from all Respondents: (1) addressing the OTS methodologies; (2) providing alternative methodologies using NPV; (3) providing draft tariff pages for proposed methodologies; and (4) addressing the subject of what free construction allowance should be adopted for future application. A 45 day period for Initial Comments and a 30 day period for Reply Comments was established.

IV. INITIAL COMMENTS

I&E Exhibit No. 1-R

Schedule 1 Page 6 of 33

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Approximately thirty-five (35) Initial Comments were provided by Respondents to the Investigation. We shall review characterize the comments of each industry below:

A. Electric

Eight major electric utilities were evenly split between support for OTS CIAC Method 3 and OTS CIAC Method 5. Those supporting Method 3 cited the adverse effects upon economic development of gross-up methods such as Method 5; the potential effects of tax law changes on gross-up methods; consistency with Federal Energy Regulatory Commission (FERC) or Generally Accepted Accounting Principles (GAAP) with regard to Method 3; simplified record-keeping; lack of adverse effects on utility earnings with Method 3; and Method 3's minimal impact on current customers. They also cited the insignificant effects in the electric utility industry.

Those electric utilities supporting OTS CIAC Method 5 did so because they believed current general revenue requirements should not be affected by new contributions to the utility and because Method 5 at the same time minimizes the effects upon contributions.

With regard to Advances the eight companies were split between methods requiring no gross-up (i.e. CIAC Method 3), a net gross-up (i.e. CIAC Method 5) and a full gross-up (i.e. CAC Method A).

B. Telecommunications

Initial Comments were received from only a few telecommunication utilities including Bell Telephone Company of Pennsylvania (Bell), Contel, Inc. (Contel) and United Telephone



I&E Exhibit No. 1-R Schedule 1 Page 7 of 33

Company of Pennsylvania (United). All maintained that the effect upon these utilities of CIAC and CAC was either de minimis or nonexistent, and that CIAC and CAC should be handled on a case-by-case basis.

C. Gas

Twenty-one gas distribution companies filed Initial Comments in the CIAC/CAC Investigation. This total includes several companies that were represented by the Pennsylvania Gas Association (PGA) and the various members of the Penn Fuel Gas group.

While the PGA recommends a company-by-company methodology, most of it's membership supported OTS Method 3, in which there is no gross-up and the CIAC related taxes increase rate base. This was supported in the individual comments of several large gas companies including Equitable Gas., T.W. Phillips Gas, UGI Corporation, Columbia Gas and Peoples Gas. Reasons for supporting Method 3 and not Method 5 included:

- Method 3 does not gross-up the contribution. To do so would discourage economic development.
- A gross-up methodology (Method 5) would put the gas industry at a competitive disadvantage with other energy sources.
- Because the cost and circumstances of every project may be vastly different it is easier to employ Method 3 for both CIAC and CAC.
- Gross-up methodologies will dampen new customer activity.
- Method 3 represents a fair balancing of the interests of the existing customers, potential new customers and the utility.

The companies supporting Method 3 for CIAC also support it for use with CAC.



I&E Exhibit No. 1-R Schedule 1 Page 8 of 33

Four major companies, including the Penn Fuel Gas group, Pennsylvania Gas and Water, Pennsylvania and Southern, and National Fuel Gas supported OTS Method 5, the NPV "gross-up". Reasons for supporting Method 5 as opposed to Method 3 included:

- Method 5 properly reimburses companies for the time value of money on the net cost created by the payment of the tax when the CIAC is received and recovery of the tax through the tax depreciation deduction.
- Income tax consequences of CIAC and CAC are kept out of the ratemaking process, thereby insulating existing customers from any increases in rates resulting from the CIAC and CAC.
- Method 5 places the minimum burden on developers while correctly insulating current customers from any rate effects of CIAC and CAC not related to existing customers.

Those firms supporting Method 5 appeared to do so for CAC also.

It should be noted that the gas industry in general believed that the choice of method should be left to each individual company and not mandated by the Commission.

D. Water and Sewer

Water utilities are the largest users of CIAC and CAC accounting of all utility industries. Many water companies indicated in their Initial Comments that the Commission should not impose a generic method on utilities but allow companies the flexibility of an individual choice of methodology. The water utilities did have preferred methodologies, however, which they would choose for their individual firms.



I&E Exhibit No. 1-R Schedule 1 Page 9 of 33

Of those water companies responding the great majority preferred the use of a gross-up methodology. By a 2 to 1 majority the gross-up methodology of choice was OTS Method 2, full gross-up, over OTS Method 5, NPV gross-up. The reasons cited were the simplicity of Method 2's calculation for small companies; non-necessity of predicting future events; and the insulation of current ratepayers. While several water utilities favor OTS Methods 3 or 6 in which rate base is increased by the deferred taxes associated with the CIAC timing difference, in general, small water companies supported Method 2, full gross-up due to its simplicity. The larger water utilities held more varied positions although they too leaned toward gross-up:

York Water Co.	Method 5	NPV gross-up
Philadelphia Suburban Water	Method 5	NPV gross-up
Pennsylvania-American Water	Method 2	Full gross-up
Western Pa. Water	Method 2	Full gross-up
General Waterworks	Method 6	Rate Base Increased By Tax

V. <u>Separate Filings of Citizens Utilities</u>, Docket No. R-881180 through R-881186 and Dauphin Consolidated Water Supply Company, Docket No. A-210700.

A. York Water Company

At Docket No. R-881158, the York Water Company ("York Water") filed Supplement No. 53 to Tariff water-Pa. P.U.C. No. 13 on November 21, 1988, proposing to include within its presently filed tariff, York Water policies concerning extension of facilities, to become effective January 17, 1989. On April 28, 1988, the Commission had previously approved these procedures at Docket Nos. R-870769 and P-870225.

York Water developed the net present value gross-up procedure (OTS Method 5) to increase the amount charged to developers to provide for the effect of the inclusion of CIAC and CAC in taxable income. The procedure results in no increases to



I&E Exhibit No. 1-R Schedule 1 Page 10 of 33

rates, holding existing customers harmless from the tax effects of CIAC and CAC.

B. Citizens

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On December 23, 1988, the Citizens Utilities (Citizens) group of Stamford, Connecticut filed for changes to the tariffs of its Pennsylvania jurisdictional affiliates with regard to Contributions in Aid of Construction and Customer Advances. On January 24, 1989, the OTS filed a Petition in response as did the OCA on February 1, 1989. The filing of Citizens asked the Commission to allow the adoption of a tariff that reflected the NPV gross-up of OTS Method 5 but with above-the-line ratemaking effects not advanced by the OTS in it's CIAC petition. The Citizens proposal would use a NPV gross-up but also add the deferred tax created by the CIAC tax timing difference to rate base, rather than have it absorbed by the utilities' stockholders or the developers. The OTS replied in it's Petition that this creates substantial additional revenue burden to be borne by current ratepayers and that the burden is more than that calculated by Citizens when ongoing CIAC is assumed. It reiterated that OTS Method 5 should be adopted with all ratemaking accounting below the line as ordered in York Water Company (see Commission Orders at Docket Nos. R-881158, R-870769 and P-579225). The OCA responded in a similar fashion and concurred with the OTS. Citizens filed an Answer to the OTS Petition on February 7, 1989. In that Answer, it agreed with OTS that it's proposed methodology was, in essence, OTS Method 5. Citizens disagreed with OTS as to the ratemaking accounting for OTS Method 5. It reiterated its position that such accounting should be above the line and that the CIAC NPV gross-up method necessitated an increase to rate base for deferred taxes. Citizens concluded, however, that it was willing to have such matters addressed by the Commission in the generic investigation instead of the R-881180 et seq. proceeding. In the Orders at R-881180 et seq. on February 16, 1989 we suspended the filings and indicated

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I&E Exhibit No. 1-R Schedule 1 Page 11 of 33

that they be consolidated and addressed within the CIAC Investigation at I-880083. On February 28, 1989, Citizens filed a Petition for Special Permission to File Tariff Supplements to Become Effective Upon One Days Notice that would allow their utilities to file Tariffs enabling them to receive CIAC in conformance with OTS Method 5. The Company reasons that without such a tariff on file their contribution-aided construction program would be halted and the public would not be served. By only approving the tariffs, no ratemaking ramifications would be approved and ratemaking treatment would not be resolved until such matters were addressed in the generic investigation. In the Public Meeting of March 30, 1989, we approved the tariff filings of Citizens Utilities allowing that group of companies to immediately adopt Method 5, as an interim measure, pending the outcome of this investigation.

C. Dauphin Consolidated

On August 23, 1988 at Docket No. A-210700, the Dauphin Consolidated Water Company (Dauphin) filed an application to begin to furnish water service to the public in Newberry Township, York County. Included in the Application was a proposal that a system of developer-guaranteed revenues be instituted rather than a CIAC or CAC process. The guaranteed revenues would be treated as part of the revenue requirement of the utility rather than a rate base deduction. There would be no additional tax consequence since the developer supplied revenues would merely be substituted for those of current ratepayers. The proposal was essentially a restatement of OTS Method 1 in which the guaranteed revenues can be assumed to be equal to what CIAC would have been, but the plant enters rate base and the ratepayers bear the relative cost of such.

By Order entered February 3, 1989, we approved Dauphin's Application to provide the water service but denied the request to record Developer payments as revenues. The matter was ordered to be considered in the generic CIAC Investigation.

- 11 -



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On February 15, 1989, Dauphin filed a Petition for Rehearing and Reconsideration on the matter requesting evidentiary hearings.

On March 7, 1989, the OTS filed a Response to the Petition for Rehearing and Reconsideration. The OTS opposed Dauphin's Petition because the methodology advanced was the same as OTS Method 1 which the OTS deemed unfair to current ratepayers as compared to other methods under investigation. The OTS noted that OTS method 1 was "almost universally criticized by those utilities which filed Initial Comments on the six CIAC methods identified at I-880083. <u>Dauphin itself criticized Method 1 in</u> <u>its Initial Comments (Initial Comments of Dauphin Consolidated</u> Water Supply Company, et al., Docket no. I~880083, pp. 2-3)".

The OTS further stated:

II. Review of OTS Methods

A. Method 1

Require usual CIAC (no tax gross-up) but credit such receipts to revenues rather than plant. This reduces rates flowing through CIAC to revenue requirement (reducing it immediately). All customers therefore pay for the CIAC through depreciation over the life of the property. In effect, the utility finances the plant, because the CIAC is given to ratepayers up front in reduced revenue requirement. This procedure avoids any additional current tax liability.

Comments:

1. The major problem with Method 1 is that Company revenue would fluctuate based on the level of CIAC or construction. If, for example, a test year for a rate case were to occur in a year with significant contributions, revenue requirement would be artificially diminished, whereas in a subsequent case, with lower CIAC, revenue requirement would be artificially inflated.



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2. An additional problem which impacts this method more than the others is that of timing. In the year in which a utility receives a contribution, tax liability arises because of that contribution. The revenue requirement of the Company will not be reduced by the amount of the contribution until the Company receives a rate award. Thus, unless a rate case is filed for each year in which there is CIAC, there will be additional current tax liability."

The OTS also cited the Initial Comments of other utilities in rejecting CIAC Method 1:

As indicated in the Initial Comments of Philadelphia Electric Company, PP&L and UGI, among others, Method 1 violates accounting rules as set forth by the FERC in the uniform system of accounts since FERC accounting requires CIAC to be credited against the capital cost of the asset. It also fails to comport with the Uniform System of Accounts for Water Companies (see, Initial Comments of Pennsylvania - American Water Company and Western Pennsylvania Water Company). In addition, Method 1 would require a significant deviation from traditional ratemaking principles (see, e.g., Initial Comments of National Fuel Gas; York Water Company; Reply Comments of Office of Consumer Advocate).

Other criticisms of Method 1 are that it would cause severe revenue fluctuations (see, e.g., Initial Comments of Pennsylvania -American Water Company and Western Pennsylvania Water Company; Philadelphia Suburban Water Company; and Newtown Artesian Water Company and Indian Rock Water Company), it would not provide funds for daily operations since the funds are committed to plant construction (see, e.g., Initial Comments of York Water Company; National Fuel Gas; and Columbia Gas of Pa.), and that it would actually produce permanent increases in rates when viewed over the long run (see, e.g., Initial Comments of National Fuel Gas (NFG); Allied Gas Company, et al.; and York Water Company).

On May 11, 1989, we ordered that the Petition for





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Rehearing and Reconsideration be granted and that matter be assigned to the Office of Administrative Law Judge for hearing.

VI. The Reply Comments of the Parties

On February 21, 1989, the OTS filed its Reply Comments in the CIAC/CAC Investigation at Docket No. I-880083.

Based upon the Initial Comments of all Respondents, the OTS first adjusted its original analysis to correct four computational errors. These included a correction of the tax depreciation lives; recognizing the deductibility of State Income taxes prior to the calculation of Federal Income taxes; adjusting the pretax rate of return; adjusting Method 4 to comply with normalization laws and the flow-through of State Income taxes. The revised NPV computations did not change the relative significance of the OTS' initial analysis.

The following is a summarization of the OTS Reply Comments with regard to the various methods reviewed and/or proposed by the Respondents:

The Six (6) Methods For Reflecting CIAC

Respondents' Initial comments indicated minimal support for Methods 1, 4 and 6. A strong preference was shown for Methods 3 and 5, with York Water Company, National Fuel Gas, West Penn Power Company and Duquesne Light Company, among others, indicating that they had already received Commission approval to use Method 5. There was also some support for Method 2 or a modified version of Method 2, which will be discussed, infra.

Much of the Reply Comments of the OTS, regarding the specific Initial Comments by the Respondents on the various methodologies were similar to those observations that were previously set forth. We shall now address and summarize additional comments and criticisms of the various methodologies in the order found in the OTS' Reply Comments:



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<u>Method 1</u>: Refer to our previous discussion in this Opinion and Order of the methodology as regards the filing of Dauphin. (Also refer to the OTS Reply Comments page 6.) The OTS recommends rejection of this method.

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<u>Method 4</u>: (Refer to pages 7-8 of the OTS Reply Comments). Criticisms included: tax burden on ratepayers rather than developers; wide variations in revenue requirement for small firms; complicated and difficult to implement; and, violates normalization rules. The OTS recommends rejection of this method.

<u>Method 6</u>: (Refer to page 8 of the OTS Reply Comments). Criticisms included; "up-front" payment of the tax on CIAC by small water utilities is burdensome as these utilities would have trouble financing such payment; most electric and gas utilities found this method to be a more complicated version of Method 3. The OTS recommends rejection of this method.

<u>Method 2</u>: (Refer to pages 9 through 11 of the OTS Reply Comments). According to the OTS the full "gross-up" of Method 2 was opposed by most electric, gas and some larger water companies as adversely impacting upon economic development and competition and would unfairly provide tax depreciation benefits to current ratepayers on plant that was CIAC funded and was not in rate base. Several utilities proposed a Modified Method 2, that would be fairer to contributors because the tax depreciation would inure to the benefit of those making the CIAC rather than to current ratepayers as advanced by the original Method 2. The contributor would then bear only the "time value of money" resulting from netting the original gross-up for taxes against the recovery of the benefit of tax depreciation over the asset's tax life.

The OTS observed that many smaller water companies supported the original Method 2 as the only viable CIAC method for



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small utilities. All other methods would necessitate external financing and increase capital costs. As to whether the original Method 2 or the modified Method 2 was the more desirable, the OTS reported a split in the opinion among the utilities. Some respondents contended that the ratepayers should retain the benefits of tax depreciation (Method 2) because contributors (developers) would recover the full cost from lot purchasers. If the developers were given the tax depreciation they might be tempted to reap a "double benefit." But as the OTS noted not all contributors are developers, and, further, lot prices are driven by the market and as a result, developers might be constrained from recouping the tax benefits. The OTS noted that returning all tax depreciation to contributors (Modified Method 2) could be administratively difficult for small utilities. The OTS concluded that small, financially constrained utilities be allowed to choose between Method 2 and Modified Method 2.

<u>Method 3</u>: (Refer to the OTS Reply Comments, pages 11 through 13). The OTS stated that several large utilities favored this "non-gross-up" method that increased rate base by the deferred taxes associated with CIAC. The method was preferred because of: (1) consistency with FERC accounting; (2) ease of administration; (3) recognition of competition; (4) economic development concurs; (5) understandability; and (6) <u>alleged</u> minimal impact on ratepayers.

The OTS observed , however, that the rate base addition of deferred taxes is a <u>"very costly alternative for ratepayers</u>," as shown by its NPV analysis. The OTS, while recognizing the existence of positive aspects of Method 3, rejects its general use because the cost to current ratepayers outweighs any of the advantages. The OTS does, however, believe that "the Commission could make Method 3 available for use in projects that have demonstrated public benefit" and notes that several Respondents also suggested this approach. The OTS also recommends that if Method 3 is chosen by a utility, that the firm be required to



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provide advance notice of the choice and be prepared to defend it in a subsequent rate proceeding.

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<u>Method 5</u>: (Refer to the OTS Reply Comments, pages 13 through 17). The OTS after considering the Initial Comments of all Respondents still supports the NPV "gross-up" as the preferred primary methodology. In the opinion of the OTS, it achieves a balance among the interests of ratepayers, utilities and contributors. It is the only method that achieves the OTS goal of minimizing the effect of the taxability of contributions while keeping current ratepayers unaffected. The OTS cites the Initial Comments of NFG in this regard:

> First, it excludes entirely from the ratemaking process both taxes paid with respect to Contributions and tax depreciation benefits received with respect to Contributions; as a result, there will be no change to the ratemaking process as a result of TRA-86 changes to the tax treatment of Contributions. Second, this methodology avoids placing on ratepayers any burden related to the income tax expense related to Contributions. Third, it places the "time value of money" burden of a Contribution upon the contributor, while reducing, to a minimum, the amount of Contribution required to be made by the contributor initially.

The OTS acknowledges that more bookkeeping is involved with NPV gross-up than with a rate base addition, but points out that customer advances currently represent the largest portion of monies now received from developers. As such, this type of bookkeeping is already largely in place. Requiring it for CIAC as well would not be unduly burdensome. Further many large utilities (West Penn Power, Duquesne Light Company, NFG, Metropolitan Edison, Penelec and Columbia Gas of PA) already use Method 5 and for the most part did not report that it is burdensome for them to administer. The OTS does not consider determining discount rates or changing tax rates to be important problems in using Method 5. All ratemaking choices are subject to the variability



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of these factors. One cannot single out their effects on Method 5 without considering their effect upon other methods under consideration or upon all other ratemaking decisions for that matter.

The OTS views Method 5 as middle ground. It does not hinder economic development to the extent of Method 2 (full gross-up). Conversely, Method 5 would cost developers more than Method 3 (rate base tax addition). But Method 5 also does not transfer the full tax effect of TRA86 to ratepayers as Method 3 does.

Customer Advances (CAC);

The OTS set forth the following position with regard to Customer Advances:

OTS requests that the Commission specify the use of Method 5, as adapted for CAC, for general CAC purposes. For instances where use of Modified Method 2 or Method 3 would be appropriate, OTS requests that use of these methods, as adapted for CAC, be permitted. As with CIAC, the use of Method 5 (or any other "gross-up" method) for CAC in those situations where the Commission's underground service regulations are applicable would likely require revisions to 52 Pa. Code §57.83(4) and 52 Pa. Code §63.41.

OT'S Reply comments, Page 19

VII. The OTS Review of Proposed Alternatives From Respondents

In its Reply Comments, the OTS addresses various approaches other than those advanced in the original Petition of the OTS. The OTS addresses these approaches on pages 19 through 25 of its Reply Comments.

(1) The Philadelphia Suburban Water Company (PSWC) proposed an alternative CIAC/CAC method that has contributors pay \$1000 to



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the utility as a "construction deposit" plus a "tax deposit" to pay the associated tax costs. The "tax deposit" would be in the form of an unsecured, non-interest bearing loan to the utility to be repaid over 15 years. The OTS opposes this methodology because it believes that the "loan" would be considered a true CIAC/CAC by IRS, in accordance with Internal Revenue Bulletin No. 1987-51, since the loan would "lack the economic characteristics of a genuine loan for Federal income tax purposes." The OTS reaches this conclusion primarily because the contributor will benefit from utility services relating to the loan. This would, in OTS' view, trigger taxability under the IRS rules.

(2) Glendale Year-round Water Company and Glendale Yearround Sewer Company filed Initial Comments proposing a method similar to that of PSWC. The OTS rejected the method for the same reasons as stated above.

(3) Citizens Utilities Company proposed to use Method 5 in determining CIAC and CAC, but also proposed a ratemaking rate base addition not contemplated by the OTS in its original presentation of Method 5. A discussion of the Citizens proposal may be found in a prior section of this report. The OTS opposes the above-the-line ratemaking aspects of the Citizens proposal. (Refer to the OTS Reply Comments, pages 21 through 24).

(4) West Penn Power Company (WP) proposed that it is exempt from the Commission's decision in this Investigation due to a settlement provision in the proceeding at R-850220, adopted by the Commission on February 11, 1988. The OTS does not agree that WP is exempt. WP was exempted from the original proceeding at P-870246, but not specifically from the current Investigation at I-880083. Further, the OTS contends that WP cannot claim exemption from future changes in Commission policy or regulations which may be necessitated by this Investigation.



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VIII. The OTS Reply Comments Regarding the Application of CIAC/CAC Tax Changes To Telecommunications

The OTS noted that there were very few Initial Comments from telephone utilities and that little insight was received into the proper accounting and ratemaking treatment of CIAC and CAC. The OTS disagrees with the contention of Contel that telephone utilities were exempted from tax on contributions under both the previous IRS Code or the TRA86 based new IRS Code. The OTS based its conclusion on discussions with IRS personnel.

IX. The OTS Conclusions As Regards the CIAC and CAC Methodologies Advanced in It's Petition

The OTS concludes that it must continue to advocate the use of Method 5, (NPV Gross-up) generally, to establish the proper amount of CIAC and CAC to be received from developer/customers and that the example of an acceptable Method 5 tariff was furnished by Citizens Utilities with its Initial Comments.

The OTS is also not opposed to the use of Method 2 (full gross-up with tax benefits to ratepayers) or Modified Method 2 (full gross-up with tax benefits to contributors) by smaller less sophisticated companies that may also have external financing constraints.

Method 3 also appears to be acceptable to the OTS where the utility can demonstrate "public benefit" and would be expected to do so in subsequent rate proceedings.

X. The Reply Comments of Other Respondents

(1) Philadelphia Electric Company (PECO) agrees with the OT'S in their rejection of Methods 1 and 4 since both violate FERC accounting, Generally Accepted Accounting Principles (GAAP) and tax normalization and would also result in wide income swings.



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PECO reiterates it's preference for Method 3 but contends that each utility should be allowed to adopt the methodology best suited to its particular circumstances.

(2) ALLTEL Pennsylvania, Inc. (ALLTEL) et al. agree with the Initial Comments of CONTEL that TRA86 changes to CIAC do not alter the tax exempt status of Telecommunication industry contributions and advances.

(3) The Small Water and Sewer Companies Group submits that "[m]ethod No. 2 appears to be the best way to insulate small utilities and their customers from the dramatic economic tax effects of CIAC and CAC. The Pennsylvania Public Utility Commission should consider permitting utilities having less than 7,000 customers to use Method No. 2."

Other methods they contend "<u>may result in small com-</u> panies being forced to borrow significant sums to pay the IRS the margin between what is due to the IRS that year and what [the] utility is allowed to collect from the cost-causer (usually a developer) during such year."

(4) The Pennsylvania Power and Light Company (PP&L) reiterated its Initial Comments and urged "that the Public Utility Commission adopt OTS Method 3 for addressing the income tax liability associated with Contributions in Aid of Construction and implement this recommendation in a manner consistent with the Company's initial comments. In the alternative, PP&L suggests that the Commission adopt a utility-by-utility approach to address these issues."

XI. CONCLUSION

The question of proper regulatory accounting for CIAC and CAC is properly approached by the OTS as a cost-benefit analysis using the net present value of the various cash flows. We

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should first ask ourselves, however, who should bear the added costs associated with the new taxable status of CIAC and CAC as a result of TRA86. Logic would dictate that where a contributor is a developer who may pass costs on to lot purchasers and all of the dollars contributed are committed to plant that will be used solely to provide utility services to that developer and his future potential clients, the increased tax cost should generally rest with the developer and eventually the new lot owners. Current customers would have no vested interest in such a contribution and would not benefit from it. As such, they should not be responsible for the related income taxes. Similarly, if the contributor is a single large user of utility service, the taxes associated with the contribution are not reasonably assignable to other existing ratepayers, absent special circumstances. Such circumstances could be present in many transactions. Many water utility extension projects involve the construction of upgraded mains and other such backbone facilities that benefit current customers to an extent, as well as the contributor and new customers. Another special circumstance might be where a new large user of utility services will provide a "public good" that will benefit the existing community, at large, including current ratepayers. This "public good" could take the form of increased jobs for the area or even general economic development. In instances such as these, there may be room for a sharing of the additional tax cost even though the new plant is not directly used to the benefit of existing ratepayers. If we accept the premise that costs should be shared in some circumstances and that costs should be fully assignable to developers in others, we can then proceed to examine the various circumstances of the separate utility industry groups and the various methodologies advanced in this Investigation.

We will begin by addressing the case-by-case or <u>ad hoc</u> approach advanced by many Respondents in which each firm would decide how to account for CIAC and CAC based upon their particular circumstances. While we believe that a regulatory agency



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should not act in such a way as to assume the duties and decision making responsibilities of utility management or board of directors, regulatory bodies are charged with the responsibility to protect the interests of ratepayers by assuring reliable service and reasonable rates. A laisee-faire approach to regulation with regard to this issue will not ensure the accomplishment of those goals. Where the options with respect to a given issue are varied and the rate effects across such options are broad, a regulatory agency must set general policy and guidelines while attempting to retain as much flexibility in setting rates as it can without jeopardizing the interest of ratepayers or effectively bringing financial harm to the utilities it regulates. The CIAC/CAC issue is an instance that necessitates a Commission policy with enough flexibility that such policy creates neither unreasonable rates nor financial burden, that assigns cost to those who will reap benefits and at the same time helps maintain an environment in the Commonwealth that is conducive to economic development and the growth of commerce. Therefore, some degree of consistency and uniformity must be established with regard to this issue in order to maintain fairness in setting utility rates. As such, We have endeavored to formulate a Commission policy which is flexible with regard to this issue, but not so loose as to permit total freedom with regard to the choice of CIAC/CAC methodology.

Establishing a viable methodology for accounting for CIAC and CAC will be approached on an industry basis. The different utility industries and their customers have varying needs and circumstances that may necessitate methodologies that differ.

A. Electric and Gas

Electric and Gas utilities operate in an energy competitive environment. Consumers of these services can quite readily switch between them for heating, cooking and cooling

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purposes. This is particularly true in the developmental stage of a residential area or in the construction of new factories, shopping centers or other large users of energy. Furthermore, it is the electric and gas utility rates that are the critical utility costs associated with promotion of economic development. For these reasons, our CIAC/CAC methodology should be comparable across these two industries in order to allow a level playing field in the competition to provide energy services. Because these are also the utility industries which have the potential to provide a "public benefit" in the form of economic development, a methodology that promotes such growth should be available. Such a methodology is necessary, therefore, even if existing ratepayers must share in the costs associated with the new plant. OTS Method No. 3, in which deferred taxes associated with a contribution or advance are added to rate base fulfills both requirements of promoting competition and economic growth. It requires only the base contribution or advance and shares the burden of taxes with current ratepayers who may also share in the "public benefits" inherent in the increased economic growth.

This was the methodology favored by most electric and gas utilities in the Initial and Reply Comments and, as such, we anticipate that adoption of Method 3 will also necessitate the least problems with any conversions to this method. An example of a recommended tariff for Method 3 is contained in Appendix A to this Opinion and Order. Those electric or gas utilities, which currently employ Method 5 and do not wish to adopt Method 3, may continue to use Method 5.

Should any electric or gas utility wish to deviate from these methods it must file a petition, complete with proposed tariffs, to deviate from this method. The utility should also be prepared to defend the effect upon rates of the alternative proposed method in any subsequent rate proceedings.

B. Water and Sewer

It is the water and sewer industry that is affected most by the TRA86 changes to CIAC/CAC taxability. A very substantial amount of utility plant is financed in this fashion. However, competition within the industry is not as vital a force as it is in the energy based industries. Economic development, while an important consideration, is not as sensitive to water utility pricing as it is to energy costs. Therefore, a "gross-up" methodology is more appropriate. The contributor bears the total cost, including taxes of the plant because he also will reap its full benefit. A great majority of the Water and Sewer utilities that supplied comments agreed that current ratepayers should be insulated from any costs arising from CIAC or CAC. What was not agreed upon was the "gross-up" method to be used. Larger and more sophisticated companies agreed with the OTS that the NPV "gross-up" (Method 5) properly insulated current ratepayers while minimizing the cost to contributors. Many smaller firms expressed the concern that NPV "gross-up" would be difficult for such firms to use due to the complexity of the records it would necessitate. Many of these smaller utilities, as a result, supported a full "gross-up" (Method 2) in which current ratepayers retained the tax depreciation benefits or the somewhat more balanced full "gross-up" of Modified Method 2 by which over time the tax benefits are returned to contributors as they are realized by the utility. We find modified Method 2 attractive because of its fairness and balance and because it is, at the same time, easier for small firms to employ than Method 5. It does not require net present value calculations nor forecasting discount rates, tax rates or company profitability. Only those tax benefits that are actually achieved are returned to contributors if and when they are realized by the utility.

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Given the varying degrees of sophistication in the water and sewer industry we shall authorize a great deal of flexibility. Therefore, we adopt a policy to allow the water and

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sewer utilities to select one of the following gross up methodologies: OTS Method No. 2, OTS Modified Method No. 2 or OTS Method No. 5. All jurisdictional water and sewer companies are ordered to file the appropriate tariffs supplements necessary to employ one or more of these methodologies. An example of acceptable tariff supplements can be found in Appendix A.

Any departure from the use of one of these three methodologies will require approval, in the fashion described above, in our discussion of the electric and gas industries.

C. Telephone

We are not convinced by the arguments of Contel and ALLTEL that telecommunications utilities are exempt from the taxability of CIAC and CAC as provided by TRA86. Our reading of the Internal Revenue Code both prior to and subsequent to TRA86 does not lead us to the conclusion that telecommunication companies are not to be taxed on such revenues. This is a question to be ultimately decided by the industry and the IRS. Until such time as that question is resolved, Pennsylvania telecommunication utilities must address the potential tax consequences of CIAC and CAC.

Contributions and Advances do not constitute a very large percentage of plant in the telecommunications industry. As a result, the issue is not considered to be one of great import by the industry. Because telecommunications is an industry that is experiencing increased levels of competition, it necessitates a CIAC/CAC methodology which is commensurate with the industry's competitive status. We, therefore, shall allow all jurisdictional telecommunication utilities to employ Method 3. We base this upon many of the same factors expressed above in our discussion of a methodology to be employed in the gas and electric industries.



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Telecommunication utilities are directed to immediately file the tariff supplements necessary to employ Method 3. An example of an acceptable tariff supplement can be found in Appendix A.

D. Proceedings That Have Been Incorporated Into This Investigation

At the Public Meeting of January 12, 1989, we permitted the newly tariffed procedures of York Water Company to become effective but subject to the conclusions reached in this generic investigation. Because the method tariffed by York Water comports with OTS Method 5 as allowed for use by water utilities in this Opinion and Order, we shall permit the York Water Main Extension tariffs to remain as approved on January 12, 1989, at Docket No. R-881158.

In the Public Meeting of March 30, 1989, We approved the tariff filings of Citizens Utilities at Docket No. R-881180 through R-881186, allowing that group of water and telephone utilities to immediately adopt Method 5, as an interim measure pending the outcome of this investigation. We now reaffirm that action and approve the continued use of that methodology. We reject for ratemaking purposes, however, the companies' addition to rate base of the deferred taxes associated with any tax timing difference caused by the contribution. Should the Citizens telephone affiliate wish to adopt Method 3 as approved for use for all telecommunications utilities, it is allowed to do so. Any further variance from those specifically approved methods are required to be approved in advance and are subject to review in rate proceedings as we have previously described.

E. Customer Advances

We order that where methods prescribed for general use with CIAC are employed by a utility, a similar methodology,



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adapted for CAC, be used. Those companies having approval to use alternative CIAC methodologies shall adapt such methodology for use with CAC. All jurisdictional utilities are required to immediately file CAC tariff language with the tariff supplement necessitated by the adoption of the CIAC methodologies.

F. Cash Flow

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It may be that non-gross-up methodologies, such as Method 3, present cash flow problems for small companies. This is due to the timing differences between tax liabilities created by CIAC and the related tax depreciation benefits. Should a utility determine that the methodology adopted for its industry creates such cash flow difficulties, the utility may petition for a waiver from that methodology.

XII. Facility Extension Policies - Free Construction Allowances

In the Order that initiated this Investigation, we directed the Respondents to address the subject of free construction allowances. Our analysis of the record indicates the following.

The general basic principles in establishing Extension Policies have been developed by various fixed utility committees, sub-committees and individuals dealing with the subject. The basic principles observed are:

- (1) Extension policies should be non-discriminatory.
- (2) Extension policies should be based upon business principles.
- (3) Extension policies should assure that the extensions will be self-supporting.
- (4) Extension policies should provide for developer/customer participation in the financing of extensions, into localities within the utility





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service territory and where service is needed, if the anticipated revenue is insufficient to warrant the utility making the extension unassisted.

- (5) Extension policies should be implemented by the adoption and promulgation of comprehensive rules.
- (6) Extension rules should be reviewed periodically.

We have carefully and thoroughly reviewed the Initial Comments submitted addressing the subject of the existing and/or proposed free construction allowance for future application. The considerations involved in determining the amount of the allowance, and the methods utilized to determine the allowance fall within the general principles stated above.

The term "free construction allowance" ("allowance") used throughout this proceeding is in reality the investment a utility can make in an extension for each bonafide customer taking service from the extension. A bonafide customer is defined as a customer that has made application for service and stands ready to receive service when the extension is completed or takes service within the extension contract period. The allowance should be calculated so that existing customers would not be required to support the revenue requirement of the utilities' investment.

Probably the most controversial allowance rule known as the "Thirty-five Foot Rule" ("Rule") exists in the water industry. This rule simply states that the utility will invest in the extension an amount equal to the cost of thirty-five feet of the extension for each bonafide customer receiving service from the extension. The investment will be made one time for each customer during the length of the contract, usually ten years, in the form of a refund to the party executing the extension deposit agreement.

The Rule, because of its simplicity, has been adopted by the majority of small and medium sized water utilities in



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Pennsylvania. However, the largest regulated water utility, Pennsylvania-American, has been using the Rule for many years. In the past, we have accepted the Rule as one of several methods of calculating the allowance.

Historically, the Rule was developed relating to the typical frontage of an average residential lot. The theory was that 35 feet is the approximate length by which a main would have to be extended to serve one additional house in a linear progression on an average residential block.

Pennsylvania-American has presented a justification for the use of the Rule that may also apply to the small water utilities using the Rule. The Rule has been justified economically by the marginal revenue, not marginal expense, required to provide a reasonable after-tax return on the original cost of customerspecific facilities to provide typical residential service. The utility will install without cost a water service line, which is the lateral running from a distribution main to the curb stop, as well as the customer's meter. In addition, the utility will extend an 8" diameter main up to 35 feet for each service connection. Below is an illustration of the economical justification of the use of the Rule.

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Average Residential Water Sale	25		\$250
Less Revenue Deductions:			
Variable Operating Expens Depreciation State Income Tax Federal Income Tax Total Revenue Deductions	5e	\$25 29 6 <u>37</u>	97
Utility Operating Income			\$153
Return on Rate Base			11%
Calculation of Rate Base:			
35' - 8" Main 1 - 3/4" Service 1 - 5/8" Meter Utility Plant Accumulated Depreciation Cash Working Capital Deferred Tax	\$875 500 75	\$1,450 (29) 5 15	
Total Rate Base		<u>\$1,411</u>	

We find that the utilities' comments in response to Docket No. I-880083, specifically the "free construction allowance" considerations, fall within general principles established for the extension of facilities. Since each utility type and each company within a specific type have different variables related to the determination of the allowance, we shall not establish specific equations for the calculation of the allowance. All utilities are ordered to state any allowance rules in their tariffs and be subject to the test of reasonableness in their next formal rate proceeding.

Tariff Considerations:

In the past, Main Extension and Contributions in Aid of Construction procedures were based upon the internal operating decisions of individual utilities and were approved by the Commission on a case-by-case basis. Such approval was granted based upon Commission policy that was formulated over many years of reviewing and approving such transactions. The Main Extension



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policies adopted by utilities in the past are considered valid until new tariffs are filed based upon our Order in this proceeding. We addressed this issue in our Order pertaining to the Philadelphia Suburban Water Company at C-871234 entered March 18, 1988. The existing practices concerning Main Extensions were accepted as valid and controlling, despite the alternative offered by developers. The utility was ordered to file a tariff that set forth the existing practice. That tariff would be applicable to all past and future Main Extension agreements until such time as the tariff was adjusted.

Many Main Extension Agreements and their related tariffs have, in the past, contained language concerning the collection of costs, by a utility that are attributable to the construction of contributed property. We deem such language to have included a broad range of costs including <u>income</u> taxes, where such income taxes are applicable. As a result, all Main Extension Agreements that have included such cost language are deemed to have provided for the collection of income taxes as well as other costs related to the transfer of or construction of contributed property.

Compliance

All Respondents must comply with this Order in accordance with the alphabetized schedule contained in Appendix B. All Respondents will file their tariffs on sixty days' notice; THEREFORE:

IT IS ORDERED:

1. That all Respondents to this Investigation are to comply with the directions given in the Conclusion section of this Opinion and Order.

2. That all Respondents to this Investigation are to file appropriate tariff supplements in compliance with this



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Opinion and Order as set forth in Appendix B of this Opinion and Order.

3. That the Secretary serve a copy of this Opinion and Order upon all parties to the investigation,

BY THE COMMISSION,

Jer ich

Secretary

(SEAL)

ORDER ADOPTED: May 11, 1989

ORDER ENTERED: June 14, 1989

Morgan Lewis

I&E Exhibit No. 1-R Schedule 2 Page 1 of 3

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July 5, 2018

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PA PUBLIC UTILITY COMMISSION SECRETARY'S BUREAU

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

RE: Pennsylvania-American Water Company Supplement No. 6 to Tariff-Water Pa. P.U.C. No. 5 Docket No. R-2018-3002502

Dear Secretary Chiavetta:

Enclosed for filing at the above-referenced docket are the **responses of Pennsylvania**-**American Water Company ("PAWC" or the "Company") to the data requests issued by the Bureau of Technical Utility Services ("TUS") on June 20, 2018.** As evidenced by the enclosed Certificate of Service, copies of the Company's responses are being served on the Bureau of Investigation and Enforcement, the Office of Consumer Advocate and the Office of Small Business Advocate. Additionally, as requested by TUS, copies of the Company's responses are being sent via e-mail to Paul Zander at <u>pzander@pa.gov</u>.

Very truly yours, elusalos

Anthony C_DeCusatis

ACD/tp Enclosures

c: Per Certificate of Service (w/encl.) Paul Zander (via e-mail) (w/encl.)

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Pennsylvania-American Water Company's Response to TUS Data Request Set 1 Dated: June 20, 2018

Pennsylvania-American Water Company Supplement No. 6 to Tariff Water–PA P.U.C. No. 5

Docket No. R-2018-3002502

- R-5. Please compare PAWC's proposed tariff with CIAC Method No. 2, CIAC Modified Method No. 2, and CIAC Method No. 5 identified in the 1989 Order for the following:
 - a. Please calculate the net present value of the effect on ratepayers from an average year's contributions and advances; and
 - Please explain the immediate and long-term impact on the amount of PAWC's required contribution for line extensions for bona fide applicants.

Response:

The Company's proposed tariff, which does not require the gross up of CIAC and CAC, is similar to CIAC Method No. 3 as detailed in the Commission Order at Docket No. I-880083, page 3. Under this method, the Company will be able to continue to accept Contributions and Advances from both governmental and non-governmental entities thereby offsetting increases in rate base with the CIAC and having the ability of spreading future upgrades to plant over a larger number of customers added through CAC.

a. See below.

CIAC – Annual estimate of \$5 million

- Company's proposal Method No. 3 please refer to Attachment No. 3 page 1. NPV of \$931,000.
- Method No. 2 please refer to Attachment No. 3 page 2. NPV of (\$722,000).
- Modified Method No. 2 and Method No. 5 Please refer to the Commission Order at Docket No. I-880083, page 3. Existing customers' rates are unaffected under these methods. Therefore, no computation was completed and the NPV is \$0.

I&E Exhibit No. 1-R Schedule 2 Page 3 of 3

Pennsylvania-American Water Company's Response to TUS Data Request Set 1 Dated: June 20, 2018

Pennsylvania-American Water Company Supplement No. 6 to Tariff Water–PA P.U.C. No. 5

Docket No. R-2018-3002502

R-5 (Continued)

CAC – Annual estimate of \$6 million

- Please refer to Attachment No. 3 pages 3 through 5 for an analysis of the impact of the Company's proposed no gross-up Method No. 3 on CAC. In order to develop the impact on customers, the Company first, on page 4, developed the impact to customers of taxable CAC recorded under method 3 (no-gross up method). Second, as a base line, the Company developed the impact to customers of CAC before the TCJA of 2017. These two amounts were subtracted and resulted in NPV of \$621,000 as shown on page 3 of Attachment No. 3
- b. Under the Company's proposed no-gross up method the required contributions, which are the project costs above the amount that PAWC will invest per bona fide customers, will not be grossed up. If the Company is ordered to gross up CIAC and CAC any costs borne by the boni fide applicant will increase by the full gross-up factor of 40.631%.

Responsible Witness: John Cox Director of Rates and Regulations

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION	:		
v.	:	Docket No. R-2018-3000834	
SUEZ WATER PENNSYLVANIA INC	:		

WITNESS VERIFICATION THE BUREAU OF INVESTIGATION AND ENFORCEMENT

I, Brenton Grab, on behalf of the Bureau of Investigation and Enforcement, hereby verify that the documents preliminarily identified as:

I&E Statement No. 1-SR, and, I&E Exhibit No. 1-SR were prepared by me or under my direct supervision and control. Furthermore, the facts contained therein are true and correct to the best of my knowledge, information and belief and I expect to be able to prove the same at an Evidentiary Hearing in this matter. This Verification is made subject to the penalties of 18 Pa. C.S. § 4904 relating to unsworn falsification to authorities.

to Droh

Brenton Grab Pennsylvania Public Utility Commission Bureau of Investigation and Enforcement

Dated: August 30, 2018

I&E Statement No. 1-SR Witness: Brenton Grab

PENNSYLVANIA PUBLIC UTILITY COMMISSION

v.

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

Surrebuttal Testimony

of

Brenton Grab

Bureau of Investigation & Enforcement

Concerning:

OPERATING AND MAINTENANCE EXPENSES TAXES CASH WORKING CAPITAL

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FEDERAL INCOME TAX ADJUSTMENTS DUE TO TAX CUTS AND JOBS	ACT.28
CASH WORKING CAPITAL	

1	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
2	A.	My name is Brenton Grab. My business address is Pennsylvania Public
3		Utility Commission, P.O. Box 3265, Harrisburg, PA 17105-3265.
4		
5	Q.	BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
6	A.	I am employed by the Pennsylvania Public Utility Commission
7		(Commission or PUC) in the Bureau of Investigation and Enforcement
8		(I&E) as a Fixed Utility Financial Analyst.
9		
10	Q.	ARE YOU THE SAME BRENTON GRAB WHO SUBMITTED I&E
11		STATEMENT NO. 1 AND I&E EXHIBIT NO. 1?
12	А.	Yes.
13		
14	Q.	WHAT IS THE PURPOSE OF YOUR SURREBUTTAL
15		TESTIMONY?
16	А.	The purpose of my surrebuttal testimony is to respond to the rebuttal
17		
		testimony of Suez Water Pennsylvania (Suez, SWPA, or Company)
18		testimony of Suez Water Pennsylvania (Suez, SWPA, or Company) witnesses Constance E. Heppenstall (SWPA Statement No. 2R), James C.
18 19		

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1	Q.	DOES YOUR SURREBUTTAL INCLUDE AN ACCOMPANYING
2		EXHIBIT?
3	A.	Yes. I&E Exhibit No. 1-SR accompanies this surrebuttal testimony.
4		Additionally, I refer to my direct testimony and its accompanying exhibit in
5		this surrebuttal testimony (I&E Statement No. 1 and I&E Exhibit No. 1).
6		
7	Q.	HAS SUEZ ACCEPTED ANY OF YOUR RECOMMENDATIONS?
8	A.	Yes. The Company agreed to remove the Mahoning Township Acquisition,
9		my payroll tax adjustment (SWPA Statement No. 2R, p. 2), and my
10		recommendation that rate case expense be normalized (SWPA Statement
11		No. 2R, p. 11). The Company also accepted my recommendations related
12		to employee group health and life insurance, and labor expense but the
13		Company altered my recommended adjustments, which I will discuss
14		below.
15		
16	Q.	PLEASE SUMMARIZE YOUR ADJUSTMENTS AS CONTAINED
17		IN THIS SURREBUTTAL TESTIMONY.
18	А.	The following table summarizes my recommended adjustments to the
19		Company's updated position as claimed in SWPA Exhibit No. CEH-2-R
20		and SWPA Statement No. 4R, Updated Schedule 1.

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	Company Revised <u>Claim</u>	I&E Recommended <u>Allowance</u>	I&E Adjustment
O&M Expenses and Taxes:			
Outside Contractors	\$1,147,114	\$1,027,314	(\$119,800)
Purchased Water	\$182,928	\$74,591	(\$108,337)
Management and Service Fees	\$5,219,561	\$4,990,062	(\$229,499)
Real Estate Taxes	\$318,178	\$304,553	(\$13,625)
O&M and Tax Expense			(\$471,261)
 Adjustments			· · · · · · · · · · · · · · · · · · ·
Rate Base Adjustments:			
Cash Working Capital	\$843,094	\$816,703	(\$26,391)

3 SUMMARY OF I&E OVERALL UPDATED POSITION

WHAT IS I&E'S TOTAL UPDATED RECOMMENDED REVENUE 4 Q.

5 **REQUIREMENT?**

- 6 A. I&E's updated total recommended revenue requirement for the Company is
- 7 \$46,601,747. This recommended revenue requirement represents an
- increase of \$281,091 to I&E's adjusted present rate revenues of 8
- \$46,320,656. This total recommended increase incorporates adjustments 9
- 10 made in this testimony and those made in the testimonies of all other I&E
- 11 witnesses.

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Suez Water Pennsylvania		TABLE I			
R-2018-3000834		INCOME	SUMMARY		
	12/31/19 Proforma	[]	INVESTIGATION &	ENFORCEMENT]
	Present Rates	Adjustments	Present Rates	Allowances	Proposed
	\$	\$	\$	\$	\$
Operating Revenue	46,722,995	-402,339	46,320,656	281,091	46,601,747
Deductions:					
O&M Expenses	18,363,318	-457,636	17,905,682	1,001	17,906,683
Depreciation	8,408,315	-486,835	7,921,480		7,921,480
Taxes, Other	962,957	-15,651	947,306	1,415	948,721
Income Taxes					
Current State	1,140,177	92,511	1,232,688	27,840	1,260,528
Current Federal	2,174,145	175,039	2,349,184	52,675	2,401,859
Deferred Taxes	548,301	0	548,301		548,301
ITC	0	0	0		0
Total Deductions	31,597,213	-692,572	30,904,641	82,931	30,987,572
Income Available	15,125,782	290,233	15,416,015	198,160	15,614,175
Measure of Value	237,757,639	-17,218,450	220,539,189	0	220,539,189
Rate of Return	6.36%		6.99%		7 08%

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5 **ADJUSTMENTS FOR THE MAHONING TOWNSHIP**

6 ACQUISITION

7 Q. SUMMARIZE YOUR RECOMMENDATION IN DIRECT

8 TESTIMONY RELATED TO ADJUSTMENTS FOR THE

9 MAHONING TOWNSHIP ACQUISITION.

10 A. I recommended disallowance of the Company's \$430,783 claim in its

- 11 entirety for adjustments related to the Mahoning Township Acquisition
- 12 (I&E Statement No. 1, p. 6). This claim was improper since the

1		Application to acquire Mahoning Township was not yet filed or approved
2		by the Commission. Allowing the recovery for costs associated with the
3		Mahoning Township acquisition in this rate proceeding would violate
4		Section 1329 of the Public Utility Code as explained in more detail by Mr.
5		Cline (I&E Statement No. 3, pp. 5-6). Also, Mr. Cline explained that there
6		is no guarantee the Mahoning Township acquisition would be approved
7		before the end of the fully projected future test (FPFTY) ending December
8		31, 2019 (I&E Statement No. 3, p. 6). Mr. Cline explained that the
9		Mahoning Township customers have had no opportunity to participate in
10		this rate case and the customers have had no notice of a potential rate
11		increase (I&E Statement No. 3, p. 6). For more information on Mr. Cline's
12		recommendations see I&E Statement No. 3 and I&E Statement No. 3-SR.
13		
14	Q.	DID THE COMPANY ACCEPT YOUR RECOMMENDATION?
15	A.	Yes. Suez witness Constance E. Heppenstall (SWPA Statement No. 2R,
16		p. 2) accepted my recommendation.
17		
18		OTHER ADJUSTMENTS FOR MAHONING TOWNSHIP
19		ACQUISITION
20	Q.	WHAT OTHER ADJUSTMENTS IN YOUR DIRECT TESTIMONY
21		WERE RELATED TO YOUR RECOMMENDED DISALLOWANCE
22		OF MAHONING TOWNSHIP ACQUISITION COSTS?

1	A.	The other sections in my direct testimony recommended removal of
2		\$58,635 for the following costs associated with the Mahoning Township
3		acquisition: labor expense (I&E Statement No. 1, pp. 7-10), payroll taxes
4		(I&E Statement No. 1, pp. 10-11), employee group health and life
5		insurance (I&E Statement No. 1, pp. 11-14), and fringe benefits transferred
6		(I&E Statement No. 1, pp. 14-17). The adjustment for these expenses all
7		stemmed from the removal of the employee the Company planned to hire
8		from Mahoning Township after the Mahoning Township acquisition was
9		completed.
10		
11	Q.	DID THE COMPANY ACCEPT YOUR RECOMMENDATION TO
12		REMOVE ALL COSTS RELATED TO THE MAHONING
12 13		REMOVE ALL COSTS RELATED TO THE MAHONING TOWNSHIP ACQUISITION?
	A.	
13	A.	TOWNSHIP ACQUISITION?
13 14	A.	TOWNSHIP ACQUISITION? Yes. Suez witness Constance E. Heppenstall indicated that the Company
13 14 15	A.	TOWNSHIP ACQUISITION? Yes. Suez witness Constance E. Heppenstall indicated that the Company has agreed to remove all costs related to the Mahoning Township
13 14 15 16	A.	TOWNSHIP ACQUISITION? Yes. Suez witness Constance E. Heppenstall indicated that the Company has agreed to remove all costs related to the Mahoning Township acquisition from the current rate case. This includes all necessary
13 14 15 16 17	A.	TOWNSHIP ACQUISITION? Yes. Suez witness Constance E. Heppenstall indicated that the Company has agreed to remove all costs related to the Mahoning Township acquisition from the current rate case. This includes all necessary adjustments to labor expense, employee group health and life insurance,
 13 14 15 16 17 18 	A.	TOWNSHIP ACQUISITION? Yes. Suez witness Constance E. Heppenstall indicated that the Company has agreed to remove all costs related to the Mahoning Township acquisition from the current rate case. This includes all necessary adjustments to labor expense, employee group health and life insurance, payroll taxes, and fringe benefits transferred (SWPA Statement No. 2R.
 13 14 15 16 17 18 19 	A.	 TOWNSHIP ACQUISITION? Yes. Suez witness Constance E. Heppenstall indicated that the Company has agreed to remove all costs related to the Mahoning Township acquisition from the current rate case. This includes all necessary adjustments to labor expense, employee group health and life insurance, payroll taxes, and fringe benefits transferred (SWPA Statement No. 2R. p. 2). These adjustments totaling \$52,473 have been included in SWPA

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1		which I did not. Also, the Company's group health and life insurance
2		adjustment is slightly less than mine due to rounding.
3		
4	Q.	DO YOU ACCEPT THE COMPANY'S UPDATES TO LABOR
5		EXPENSE, EMPLOYEE GROUP HEALTH AND LIFE
6		INSURANCE, PAYROLL TAXES, AND FRINGE BENEFITS?
7	A.	Yes. I accept the Company's modified labor amount since it is reasonable
8		to also adjust for reallocation of overtime.
9		
10		OUTSIDE CONTRACTORS
11	Q.	SUMMARIZE YOUR RECOMMENDATION IN DIRECT
12		TESTIMONY FOR OUTSIDE CONTRACTORS.
12 13	A.	TESTIMONY FOR OUTSIDE CONTRACTORS. I recommended an allowance of \$922,114 or a reduction of \$225,000
	A.	
13	А.	I recommended an allowance of \$922,114 or a reduction of \$225,000
13 14	A.	I recommended an allowance of \$922,114 or a reduction of \$225,000 (\$1,147,114 - \$225,000) to the Company's claim based on disallowance of
13 14 15	A.	I recommended an allowance of \$922,114 or a reduction of \$225,000 (\$1,147,114 - \$225,000) to the Company's claim based on disallowance of the \$150,000 that the Company claimed for the Non-Revenue Water
13 14 15 16	A.	I recommended an allowance of \$922,114 or a reduction of \$225,000 (\$1,147,114 - \$225,000) to the Company's claim based on disallowance of the \$150,000 that the Company claimed for the Non-Revenue Water (NRW) study and \$75,000 that the Company claimed for the inventory
13 14 15 16 17	A.	I recommended an allowance of \$922,114 or a reduction of \$225,000 (\$1,147,114 - \$225,000) to the Company's claim based on disallowance of the \$150,000 that the Company claimed for the Non-Revenue Water (NRW) study and \$75,000 that the Company claimed for the inventory process study included in the outside contractors expense (I&E Statement
 13 14 15 16 17 18 	Α.	I recommended an allowance of \$922,114 or a reduction of \$225,000 (\$1,147,114 - \$225,000) to the Company's claim based on disallowance of the \$150,000 that the Company claimed for the Non-Revenue Water (NRW) study and \$75,000 that the Company claimed for the inventory process study included in the outside contractors expense (I&E Statement No. 1, p. 18). I had multiple reasons for my recommendation. First, the

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1		Second, it appeared the Company was still in the very early planning
2		stages of these projects and as such does not know what these studies will
3		cost or what the studies will entail (I&E Statement No. 1, p. 19). The
4		Company indicated that as of the filing date of its instant rate case
5		(April 30, 2018) it had yet to receive bids for either of these studies (I&E
6		Statement No. 1, pp.19-20). For the NRW study, the Company indicated
7		that it expected to receive bids on June 15, 2018, but it had not provided
8		these bids (I&E Statement No. 1, pp. 19-20). For the inventory process
9		study the Company stated that the study had yet to go out for vendor bids as
10		of June 11, 2018, and the Company had a meeting in July to discuss what
11		the inventory process study would entail (I&E Statement No. 1, p. 19).
12		These factors indicated that the Company is still in the early planning
13		stages of these studies, and the Company does not know what these studies
14		will entail. As such, the related expenses should not be allowed (I&E
15		Statement No. 1, p. 19).
16		
17	Q.	DID ANY COMPANY WITNESS SUBMIT REBUTTAL
18		TESTIMONY IN RESPONSE TO YOUR RECOMMENDATION?
19	А.	Yes. Suez witness Constance E. Heppenstall (SWPA Statement No. 2R.
20		p. 10) disagrees with my recommendation.

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Q. SUMMARIZE MS. HEPPENSTALL'S RESPONSE IN REBUTTAL TESTIMONY.

3	А.	Ms. Heppenstall states that the reason the Company is performing the NRW
4		study and the inventory process study is because of recommendations listed
5		in the Focused Management and Operations Audit from 2017 and both
6		studies need to be funded in this rate case. She also states that the
7		Company should complete an NRW study every two years until the
8		Company achieves an NRW that is acceptable to the PUC. Also, the
9		Company provided two bids for its NRW study and included these bids in
10		SWPA Exhibit No. CEH-3R. For these reasons the Company disagrees
11		with my recommended adjustment to outside contractors expense (SWPA
12		Statement No. 2R, p. 10).

13

14 Q. WHAT IS YOUR RESPONSE TO MS. HEPPENSTALL'S

15 **REBUTTAL TESTIMONY CONCERNING OUTSIDE**

16 CONTRACTORS EXPENSE?

A. First, the PUC is not requiring the Company to fund both the NRW study
and the inventory process project in the current rate case, so I am uncertain
why Ms. Heppenstall states in her rebuttal testimony that both of these
studies need to be funded in the current rate case. However, since the
Company has provided bids for its NRW study, I am adjusting my
recommendation for the NRW study expense based on this new

1		information. Since the Company still has not provided any bids or
2		documentation from vendors to support its cost of \$75,000 for its inventory
3		process project, I am not changing my recommendation from direct
4		testimony that the expense related to the inventory process study of \$75,000
5		be disallowed.
6		
7	Q.	WHAT IS YOUR UPDATED RECOMMENDATION REGARDING
8		THE NRW STUDY?
9	A.	I recommend an updated allowance of \$105,200 or a reduction of \$44,800
10		(\$150,000 - \$105,200) to the Company's claim of \$150,000 (SWPA
11		Exhibit No. CEH-2-R, Schedule-14) for the NRW study expense based on
12		the bid provided by American Leak Detection on June 13, 2018 (SWPA
13		Exhibit. No. CEH-3R). The reason I am using this bid of the two bids
14		provided is because this bid provides an estimate for the entirety of the
15		project while the other bid only provides an estimate for a portion of the
16		project. The total amount of this bid is \$436,800. In the bid, an amount of
17		\$16,000 is included for Mahoning Township. As the Company agreed to in
18		rebuttal testimony, all adjustments included in this proceeding related to the
19		Mahoning Township acquisition should be removed, so I am excluding the
20		\$16,000 from the NRW study expense. This produces a total NRW study
21		expense of \$420.800 (\$436,800 - \$16.000).

•

1	The Company normalized this expense over a two-year period in
2	direct testimony (SWPA Exhibit No. CEH-2, Schedule-14) and continues
3	to recommend a two-year normalization period in rebuttal testimony
4	(SWPA Statement No. 2R, p. 10). I disagree with this normalization period
5	and recommend that a four-year normalization be used instead. This is in
6	line with OCA witness Lafayette K. Morgan, Jr.'s recommendation of a
7	four-year normalization period (OCA Statement No. 1, pp. 27-28). I agree
8	with Mr. Morgan's reasoning that a four-year normalization of this cost
9	should be used to moderate the impact of the projected cost to ratepayers
10	(OCA Statement No. 1, p. 28). Ms. Heppenstall provided rebuttal
11	testimony in response to Mr. Morgan's testimony stating that the Company
12	believes these studies (the NRW study and the inventory process study)
13	should be normalized over a two-year period (SWPA Statement No. 2R,
14	p. 10). She also stated, "The NRW study should be completed every two
15	years until the Company achieves a NRW percentage acceptable to the
16	Pennsylvania PUC" but she did not provide any support for why this
17	study should be completed every two years. Since the Company did not
18	provide any new information in rebuttal testimony negating Mr. Morgan's
19	four-year normalization period, I am incorporating a four-year
20	normalization period in my updated recommendation for NRW study costs.
21	Based on the recommended four-year normalization period and the
22	\$420,800 calculated from the Company's bid provided in rebuttal

•

1		testimony, my total recommended NRW study expense is \$105,200
2		(\$420,800 / 4 years). This is a reduction of \$44,800 (\$150,000 - \$105,200)
3		to the Company's claimed NRW study expense of \$150,000 (SWPA CEH-
4		2R, Schedule-14).
5		
6	Q.	WHAT IS YOUR UPDATED RECOMMENDATION FOR OUTSIDE
7		CONTRACTORS EXPENSE?
8	А.	My updated recommendation for outside contractors expense is \$1,027,314
9		or a reduction of \$119,800 (\$1,147,114 - \$1,027,314) to the Company's
10		claim of \$1,147,114 reported on SWPA CEH-2-R, Schedule-14. This
11		recommendation includes my newly recommended decrease of \$44,800
12		(discussed above) related to the NRW study and my continued
13		recommended disallowance of the \$75,000 related to the inventory process
14		study.
15		
16		PURCHASED WATER
17	Q.	SUMMARIZE YOUR RECOMMENDATION IN DIRECT
18		TESTIMONY FOR PURCHASED WATER.
19	А.	I recommended an allowance for purchased water expense of \$74,591 or a
20		reduction of \$108.337 (\$182,928 - \$74,591) to the Company's claim. which
21		was based on the disallowance of the Susquehanna Area Regional Airport
22		Authority (SARAA) additional purchased water of \$105,000 and

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1	disallowance of the Company's future test year (FTY) and FPFTY
2	inflationary increases included in the Company's claim (I&E Statement
3	No. 1, p. 22). There were multiple reasons I recommended disallowance of
4	the SARAA additional purchased water. First, in the Company's prior case
5	at Docket No. R-2015-2462723 the Company stated it would purchase
6	water from SARAA but it did not purchase water from it according to the
7	Company's purchased water history (I&E Statement No. 1, p. 22). Second,
8	the Company indicated that it did not purchase water from SARAA in the
9	past several years due to contamination, but the Company indicated this
10	issue will be fixed in the near future and it will start purchasing water from
11	SARAA again. However, the Company provided no supporting
12	documentation from SARAA that this contamination issue will be fixed or
13	when the Company will start purchasing water from SARAA again. Thus,
14	there was no proof provided by the Company indicating that it will or will
15	be able to purchase water from SARAA within the FPFTY (I&E Statement
16	No. 1, p. 23). Lastly, the Company has not purchased water from SARAA
17	in the past several years, and it did not provide documentation to support
18	the need for this water to provide safe and reliable service to customers, or
19	that the lack of water purchases from SARAA caused any detriment to the
20	Company's operations (I&E Statement No. 1, p. 23).
21	Additionally, I recommended disallowance of the Company's
22	inflation adjustments for the FTY and the FPFTY for computing its FPFTY

1		purchased water allowance because purchased water expense is dependent
2		on rates set by the water suppliers, and the Company did not provide
3		supporting documentation from its water suppliers indicating that the rates
4		will increase in the FTY and the FPFTY (I&E Statement No. 1, p. 24).
5		
6	Q.	DID ANY COMPANY WITNESS SUBMIT REBUTTAL
7		TESTIMONY IN RESPONSE TO YOUR RECOMMENDATION?
8	A.	Yes. SWPA witness Constance E. Heppenstall disagrees with both of my
9		adjustments (inflation and elimination of SARAA purchased water) (SWPA
10		Statement No. 2R, p.7).
11		
12	Q.	WHY DOES MS. HEPPENSTALL DISAGREE WITH YOUR
13		RECOMMENDED DISALLOWANCE OF AN INFLATION
14		ADJUSTMENT FOR PURCHASED WATER?
15		
16		Ms. Heppenstall states that the Company should be able to inflate
10		Ms. Heppenstall states that the Company should be able to inflate purchased water expense for the FTY and the FPFTY because according to
17		
		purchased water expense for the FTY and the FPFTY because according to
17		purchased water expense for the FTY and the FPFTY because according to "Water and Wastewater Annual Price Escalation Rate for Selected Cities
17 18		purchased water expense for the FTY and the FPFTY because according to "Water and Wastewater Annual Price Escalation Rate for Selected Cities across the United States" dated September 2017, the average annual
17 18 19		purchased water expense for the FTY and the FPFTY because according to "Water and Wastewater Annual Price Escalation Rate for Selected Cities across the United States" dated September 2017, the average annual increase for the price of water from 2008 through 2016 was 4.1%, which is

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1		Exhibit. No. 1, Sch. 6, p. 2) because the Company was able to buy less
2		water from Steelton (a high cost producer) in 2017 (SWPA Statement
3		No. 2R, p. 7).
4		
5	Q.	WHAT IS YOUR RESPONSE TO MS. HEPPENSTALL'S
6		REBUTTAL TESTIMONY REGARDING INFLATION OF
7		PURCHASED WATER?
8	А.	My original recommended disallowance of the inflation adjustment for
9		purchased water for the FTY and FPFTY is still valid. My original
10		argument was that purchased water prices are dependent on rates set by the
11		Company's water suppliers, and the Company has not provided
12		documentation from its water supplier indicating these rates are going to
13		increase for the FTY or the FPFTY. The Company did not provide any
14		additional documentation from its water suppliers showing an increase in
15		rates for the FTY and FPFTY in its rebuttal testimony, so my original
16		argument still stands (I&E Statement No. 1, p. 24).
17		Ms. Heppenstall's assertion that purchased water expense decreased
18		from 2016 to 2017 because the Company decreased the amount of water
19		purchased from Steelton (a high cost producer) (SWPA Statement No. 2R,
20		p. 7) actually supports my point. According to the Company's purchased
21		water history provided in response to OCA-IV-37, the Company's
22		purchased water costs have decreased the last three years (I&E Exhibit

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15

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1	No. 1, Sch. 6, p. 2). For 2015, the purchased water expense was \$84,246,
2	for 2016 the purchased water expense was \$70,906, and for 2017 the
3	purchased water expense was \$68,621 (I&E Exhibit No. 1, Sch. 6, p. 2).
4	Even if the Company's purchased water costs are decreasing because of
5	reduced purchases from Steelton, the fact is that the amount is decreasing,
6	so the Company is not justified in increasing the FTY and FPFTY amounts
7	for inflation. Also, the Company does not indicate that its trend of
8	purchasing less water from Steelton is going to stop in the FTY and
9	FPFTY, so it is safe assume that this trend of purchasing less water from a
10	high cost water supplier will decrease the purchased water expense moving
11	forward into the FTY and FPFTY.
12	Also, although the Company provided the "Water and Wastewater
13	Annual Price Escalation Rate for Selected Cities across the United States"
14	indicating the average annual increase for the price of water from 2008
15	through 2016 was 4.1%, which is higher than the requested 2.3% inflation
16	factor used for purchased water by the Company, this document is not
17	specific to Suez. According to Suez's history, the purchased water expense
18	has been decreasing. and the Company has provided no proof of rate
19	increases from its water suppliers. A generic multi-city report should not
20	be the basis for increasing the FTY and FPFTY purchased water costs for
21	inflation.

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1	Q.	WHY DOES MS. HEPPENSTALL DISAGREE WITH YOUR
2		RECOMMENDED ADJUSTMENT FOR THE PURCHASED
3		WATER EXPENSE FROM SARAA?
4	А.	Ms. Heppenstall disagrees with my recommended \$105,000 decrease to
5		purchased water for the related SARAA expense because, she asserts, the
6		contamination of SARAA water has been resolved, and the Company
7		provided documentation from SARAA indicating that its water is safe for
8		drinking (SWPA Statement No. 2R, p. 7 and SWPA Exhibit No. CEH-3R).
9		
10	Q.	WHAT IS YOUR RESPONSE TO MS. HEPPENSTALL'S
11		REBUTTAL TESTIMONY REGARDING THE PURCHASED
12		WATER EXPENSE FROM SARAA?
12	٨	
13	А.	Although the Company has provided documentation in rebuttal testimony
13	A.	from SARAA that indicated it resolved its contamination issue (SWPA
	A.	
14	A.	from SARAA that indicated it resolved its contamination issue (SWPA
14 15	Α.	from SARAA that indicated it resolved its contamination issue (SWPA Exhibit No. CEH-3R). I continue to recommend that the \$105,000 in
14 15 16	Α.	from SARAA that indicated it resolved its contamination issue (SWPA Exhibit No. CEH-3R). I continue to recommend that the \$105,000 in SARAA purchased water expense be disallowed. As stated in my direct
14 15 16 17	Α.	from SARAA that indicated it resolved its contamination issue (SWPA Exhibit No. CEH-3R). I continue to recommend that the \$105,000 in SARAA purchased water expense be disallowed. As stated in my direct testimony, the Company still has not provided documentation indicating
14 15 16 17 18	Α.	from SARAA that indicated it resolved its contamination issue (SWPA Exhibit No. CEH-3R). I continue to recommend that the \$105,000 in SARAA purchased water expense be disallowed. As stated in my direct testimony, the Company still has not provided documentation indicating that it needs to purchase water from SARAA to provide safe and reliable
14 15 16 17 18 19	Α.	from SARAA that indicated it resolved its contamination issue (SWPA Exhibit No. CEH-3R). I continue to recommend that the \$105,000 in SARAA purchased water expense be disallowed. As stated in my direct testimony, the Company still has not provided documentation indicating that it needs to purchase water from SARAA to provide safe and reliable service to its ratepayers. According to the Company's breakdown of

1		has not indicated that the lack of purchased water from this entity has
2		caused any detriment to the Company's operations (I&E Statement No. 1,
3		pp. 23-24).
4		
5	Q.	DO YOU HAVE ANY CHANGES TO YOUR RECOMMENDATION
6		FOR PURCAHSED WATER?
7	А.	No.
8		
9		PURCHASED POWER
10	Q.	SUMMARIZE YOUR RECOMMENDATION IN DIRECT
11		TESTIMONY FOR PURCHASED POWER.
12	А.	I recommended an allowance for purchased power of \$1,357,874 or a
13		reduction of \$212,814 (\$1,570,688 - \$1,357,874) to the Company's claim
14		(I&E Statement No. 1, p. 25) based on two different adjustments. First, I
15		recommended that the Company's three-year historic average that it used to
16		calculate purchased power in FPFTY be adjusted to reflect more accurate
17		historic information. I recalculated the Company's three-year historic
18		average based on the Company's filing, information the Company provided
19		in discovery, and the Company's annual reports (I&E Statement No. 1,
20		pp. 26-29). Second, I recommended that the Company's inflation
21		adjustments for the FTY and FPFTY be disallowed (I&E Statement No. 1,
22		p. 25).

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1		The reason I recalculated the Company's three-year historic average
2		is because the Company provided convoluted, contradictory, and
3		inconsistent information in its filing and during discovery (I&E Statement
4		No. 1, p. 26-29). I based my calculation on the historic information
5		provided for purchased power in the Company's response to I&E-RE-7 and
6		the Company's reported 2017 purchased power in its filing on SWPA
7		Exhibit No. CEH-2, Schedule-8, since this information was mostly in
8		agreement with the Company's PUC annual reports (I&E Statement No. 1,
9		p. 28).
10		The reason I recommended disallowance of the inflation adjustment
11		for purchased power expense is because purchased power rates are
12		determined by the Company's supplier, and the Company did not provide
13		support from its electric suppliers indicating that the rate will increase in
14		the FTY or the FPFTY (I&E Statement No. 1, p. 29).
15		
16	Q.	DID ANY COMPANY WITNESS SUBMIT REBUTTAL
17		TESTIMONY IN RESPONSE TO YOUR RECOMMENDATIONS?
18	А.	Yes. Suez witness Ms. Heppenstall (SWPA Statement No. 2R, pp. 8-9)
19		submitted rebuttal testimony in response to my recommendations.
20		
21	Q.	DID MS. HEPPENSTALL ACCEPT ANY OF YOUR
22		RECOMMENDED ADJUSTMENTS FOR PURCHASED POWER?

1	А.	Yes. Ms. Heppenstall agrees with my recommendation to disallow the
2		inflationary increases for FTY and FPFTY purchased power expense
3		(SWPA Statement No. 2R, p. 8).
4		
5	Q.	DID MS. HEPPENSTALL ACCEPT YOUR RECOMMENDED
6		THREE-YEAR HISTORY IN CALCULATING PURCHASED
7		POWER?
8	А.	No.
9		
10	Q.	SUMMARIZE MS. HEPPENSTALL'S RESPONSE IN REBUTTAL
11		TESTIMONY TO YOUR RECOMMENDED PURCHASED POWER
12		THREE-YEAR HISTORY.
13	А.	Ms. Heppenstall disagrees with my use of the 2017 historic purchased
14		power amount of \$1,242,836 stating that the amount should be \$1,404,353
15		since this includes \$161,516 in purchased power expense that was
16		incorrectly included in the fuel for power production in 2017 (SWPA
17		Statement No. 2R, p. 8). The Company shows a corresponding offsetting
18		adjustment to fuel for power production in SWPA Exhibit No. CEH-2-R,
19		Schedule-9.
20		Ms. Heppenstall agrees with my 2015 and 2016 purchased power
21		expenses used in the calculating the three-year historic average for
22		purchased power expense due to the conflicting information provided by

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1		the Company (SWPA Statement No. 2R, p. 9). The 2015 purchased power
2		expense used in the Company's update is \$1,363,806, and the 2016
3		purchased power expense used in the Company's update is \$1,466,981
4		(SWPA Exhibit No. CEH-2-R, Schedule-8). These updated figures along
5		with the corrected 2017 figure of \$1,404,353 and no adjustment for
6		inflation produce a FPFTY purchased power claim of \$1,411,713 (SWPA
7		Statement No. 2R, p. 9 and SWPA Exhibit No. CEH-2-R, Schedule-8).
8		
9	Q.	WHAT IS YOUR RESPONSE TO MS. HEPPENSTALL'S
10		REBUTTAL TESTIMONY?
11	A.	I accept Ms. Heppenstall's changes made to purchased power expense.
12		
13	Q,	DO YOU HAVE ANY CHANGES TO YOUR RECOMMENDATION
14		FOR PURCHASED POWER?
15	A.	Yes. Based on the Company's rebuttal testimony and a misinterpretation
16		on my part in the balances due to reclassifications of fuel for power
17		production, I accept the Company's updated claim for purchased power
18		expense of \$1,411,713 (SWPA Exhibit No. CEH-2-R, Schedule-8).
19		
20		MANAGEMENT AND SERVICE FEES
21	Q.	SUMMARIZE YOUR RECOMMENDATION IN DIRECT
22		

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1	А.	I recommended an allowance of \$4,492,483 or a reduction \$867,014 to the
2		Company's claim (\$5,359,497 - \$4,492,483) based on my recommendation
3		that the common asset allocation of \$867,017 included in M&S fees be
4		disallowed (I&E Statement No. 1, p. 30). I recommended a disallowance of
5		the common asset allocation because there are too many unknown factors
6		involved with it and it is far too speculative for it to be allowed as part of
7		Suez's M&S fees. Also, in the Company's calculation of the common asset
8		allocation, it claims a rate of return on assets provided by the Company's
9		service company (I&E Statement No. 1, pp. 31-32).
10		
11	Q.	DID ANY COMPANY WITNESS SUBMIT REBUTTAL
12		TESTIMONY IN RESPONSE TO YOUR RECOMMENDATION?
13	A.	Yes. Suez witnesses Constance E. Heppenstall (SWPA Statement No. 2R,
14		p. 9) and James C. Cagle (SWPA Statement No. 3R, pp. 11-12) disagree
15		with my recommended adjustment.
16		
17	Q.	SUMMARIZE MS. HEPPENSTALL'S RESPONSE IN REBUTTAL
18		TESTIMONY.
19	A.	Ms. Heppenstall states that adjustments to M&S fees of \$101,961 for the
20		FTY and \$139.936 for the FPFTY are incorporated into the Company's
21		rebuttal exhibits. This creates an updated FPFTY claim of \$5,219,561 for
22		M&S fees (SWPA Exhibit No. CEH-2-R. Schedule-1). She states that Suez

1		witness James C. Cagle addresses M&S fees in his testimony. These
2		adjustments are in line with the Company's response to I&E-RE-1 in which
3		the Company updated the amount for common asset allocation for the FTY
4		to \$795,686 and for the FPFTY to \$727,078 (I&E Exhibit No. 1, Sch. 14,
5		p. 1).
6		
7	Q.	DO YOU ACCEPT THE COMPANY'S UPDATED AMOUNTS IN
8		REBUTTAL TESTIMONY?
9	A.	No. I continue to recommend an adjustment as discussed below.
10		
11	Q.	SUMMARIZE MR. CAGLE'S RESPONSE IN REBUTTAL
12		TESTIMONY.
13	А.	Mr. Cagle explains the Company's methodology of allocating the cost of
14		common assets. He explains that the common asset allocation
15		"calculation is made by calculating a "rate base" for the shared services
16		assets and applying the return component, utilizing the same return which is
17		used for ratemaking purposes. By recording the amounts as the Company
18		proposes, ratepayers in each of the Company's states are paying the same
19		amount that would have been paid had the assets been inappropriately split

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¹ SWPA Statement No. 3R. p. 11.

1		He also states that I proposed in direct testimony a different method
2		for the Company to recognize the common asset allocation of which a
3		percentage based on a one-time allocation factor be applied to the book
4		value of common assets and then recorded on Suez's books (SWPA
5		Statement No. 3R, pp. 11-12).
6		Mr. Cagle further explains it is appropriate to record common assets
7		as the Company proposes because it is not appropriate to record assets on
8		the books of a company that does not own those assets. He states that this
9		would create a fictitious asset on the books, since Suez does not own the
10		asset. Under the Company's methodology the effects to ratepayers will be
11		the same as if the assets were in rate base because the calculation utilizes
12		the same formula (SWPA Statement No. 3R, p. 12).
12 13		the same formula (SWPA Statement No. 3R, p. 12).
	Q.	the same formula (SWPA Statement No. 3R, p. 12). WHAT IS YOUR RESPONSE TO THE WITNESSES' TESTIMONY?
13	Q. A.	
13 14		WHAT IS YOUR RESPONSE TO THE WITNESSES' TESTIMONY?
13 14 15		WHAT IS YOUR RESPONSE TO THE WITNESSES' TESTIMONY? I continue to disagree with the Company claiming a rate of return on the
13 14 15 16		WHAT IS YOUR RESPONSE TO THE WITNESSES' TESTIMONY? I continue to disagree with the Company claiming a rate of return on the assets that it is sharing with other affiliates through its service company
13 14 15 16 17		WHAT IS YOUR RESPONSE TO THE WITNESSES' TESTIMONY? I continue to disagree with the Company claiming a rate of return on the assets that it is sharing with other affiliates through its service company because it will allow the affiliate to profit on the transaction (I&E
 13 14 15 16 17 18 		WHAT IS YOUR RESPONSE TO THE WITNESSES' TESTIMONY? I continue to disagree with the Company claiming a rate of return on the assets that it is sharing with other affiliates through its service company because it will allow the affiliate to profit on the transaction (I&E Statement No. 1, p. 31-32). The point of using a service company is not to
 13 14 15 16 17 18 19 		WHAT IS YOUR RESPONSE TO THE WITNESSES' TESTIMONY? I continue to disagree with the Company claiming a rate of return on the assets that it is sharing with other affiliates through its service company because it will allow the affiliate to profit on the transaction (I&E Statement No. 1, p. 31-32). The point of using a service company is not to profit but to save the Company money since the service company will have

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1		Also, in direct testimony I did not propose that a percentage based
2		on a one-time allocation factor be applied to the book value of common
3		assets and then recorded on the books of SWPA as Mr. Cagle states. I also
4		did not recommend that the Company create fictitious assets on its books to
5		make up for the common asset allocation as Mr. Cagle implies. My
6		recommendation was to eliminate the common asset allocation from the
7		M&S fees due to the Commission having limited regulatory oversight on
8		the common asset allocation and because the service company should not
9		receive a profit on assets or services it is providing to Suez (I&E Statement
10		No. 1 pp. 31-32).
11		Lastly, Suez still has not explained why the deprecation expense
12		amounts on I&E Exhibit No. 1 Sch. 14, p. 4 for the FTY and FPFTY are so
13		much smaller than the depreciation expenses used in its calculation of
14		common asset allocation on I&E Exhibit No. 1 Sch. 14, p. 3, or why the
15		depreciation expense used in the common asset allocation on I&E Exhibit
16		No. 1 Sch. 14, p. 1 is such a large percentage of the accumulated
17		depreciation claimed on the same page (I&E Statement No. 1, p. 33).
18		
19	Q.	DO YOU HAVE ANY CHANGES TO YOUR RECOMMENDATION
20		FOR M&S FEES?
21	А.	Yes. I recommend an amount of \$497.579 for the common asset allocation
22		included in the M&S fees. This produces an adjustment of \$229,499

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1		(\$727,078 - \$497,579) to the Company's claimed common asset allocation
2		of \$727,078. Based on the adjustment to the common asset allocation I
3		recommend an allowance of \$4,990,062 for M&S fees or an adjustment of
4		\$229,499 (\$5,219,561 - \$4,990,062) to the Company's updated claim.
5		I am recommending an allowance of \$497,579 as the common asset
6		allocation as this was what the Company reported for depreciation expense
7		in response to I&E-RE-1 (I&E Exhibit No. 1, Sch. 14, p. 4). I agree with
8		the assignment of the depreciation expense as it is the standard method by
9		which companies ratably recover the cost of assets over their useful life, but
10		I do not agree with an equity return for service company owned assets.
11		
12		REAL ESTATE TAXES
12 13	Q.	<u>REAL ESTATE TAXES</u> SUMMARIZE YOUR RECOMMENDATION IN DIRECT
	Q.	
13	Q . A.	SUMMARIZE YOUR RECOMMENDATION IN DIRECT
13 14	-	SUMMARIZE YOUR RECOMMENDATION IN DIRECT TESTIMONY FOR REAL ESTATE TAXES.
13 14 15	-	SUMMARIZE YOUR RECOMMENDATION IN DIRECT TESTIMONY FOR REAL ESTATE TAXES. I recommended an allowance of \$304,553 or a reduction \$13,625 to the
13 14 15 16	-	SUMMARIZE YOUR RECOMMENDATION IN DIRECT TESTIMONY FOR REAL ESTATE TAXES. I recommended an allowance of \$304,553 or a reduction \$13,625 to the Company's claim of \$318,178 (\$318,178 - \$304,553) based on my
13 14 15 16 17	-	SUMMARIZE YOUR RECOMMENDATION IN DIRECT TESTIMONY FOR REAL ESTATE TAXES. I recommended an allowance of \$304,553 or a reduction \$13,625 to the Company's claim of \$318,178 (\$318,178 - \$304,553) based on my recommendation that FTY and FPFTY inflationary adjustments for PURTA
 13 14 15 16 17 18 	-	SUMMARIZE YOUR RECOMMENDATION IN DIRECT TESTIMONY FOR REAL ESTATE TAXES. I recommended an allowance of \$304,553 or a reduction \$13,625 to the Company's claim of \$318,178 (\$318,178 - \$304,553) based on my recommendation that FTY and FPFTY inflationary adjustments for PURTA and property tax be disallowed (I&E Statement No. 1, pp. 34-36). I
 13 14 15 16 17 18 19 	-	SUMMARIZE YOUR RECOMMENDATION IN DIRECT TESTIMONY FOR REAL ESTATE TAXES. I recommended an allowance of \$304,553 or a reduction \$13,625 to the Company's claim of \$318,178 (\$318,178 - \$304,553) based on my recommendation that FTY and FPFTY inflationary adjustments for PURTA and property tax be disallowed (I&E Statement No. 1, pp. 34-36). I recommended disallowance of the inflationary adjustments for PURTA tax

1		Revenue or the County Tax Assessor Offices indicating that the PURTA
2		tax is going to increase within the FTY and the FPFTY (I&E Statement
3		No. 1, pp. 34-35).
4		I recommended disallowance of the FTY and FPFTY inflationary
5		adjustment for property tax because property tax is imposed by local
6		authorities and the Company did not provide any documentation from those
7		local authorities indicating that property taxes will increase in the FTY or
8		the FPFTY.
9		
10	Q.	DID ANY COMPANY WITNESS SUBMIT REBUTTAL
11		TESTIMONY IN RESPONSE TO YOUR RECOMMENDATION?
12	A.	Yes. Suez witness Constance E. Heppenstall (SWPA Statement No. 2R,
13		p. 11) disagrees with my recommendation.
14		
15	Q.	SUMMARIZE MS. HEPPENSTALL'S RESPONSE IN REBUTTAL
16		TESTIMONY.
17	А.	Ms. Heppenstall states in rebuttal testimony that, "Taxes are set by local
18		authorities which experience an inflationary increase in costs year after year
19		just like the Company. These costs are typically passed on to taxpayers in
20		the form of a tax increase often equal to or exceeding the cost of inflation." ²

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² SWPA Statement No. 2R, p. 11.

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Q. WHAT IS YOUR RESPONSE TO MS. HEPPENSTALL'S

2 **REBUTTAL TESTIMONY?**

3	A.	I continue to disagree with the Company adjusting real estate taxes by an
4		inflationary adjustment. Although local tax authorities may experience
5		inflation in each year, there is no guarantee that the taxes will increase in
6		the FTY and FPFTY. In fact, according to the most recent PURTA Tax
7		Notice of Determination for the 2016 year provided by the Company in
8		response to I&E-RE-55, PURTA has decreased each year from 2011 to
9		2016 (2011 in \$303,368; 2012 in \$290,311; 2013 in \$285,486; 2014 in
10		\$279,062; 2015 in \$251,104; and 2016 in \$245,256) (I&E Exhibit. No. 1,
11		Sch. 1, pp. 3-4).
12		
13	Q.	DO YOU HAVE ANY CHANGES TO YOUR RECOMMENDATION
13 14	Q.	DO YOU HAVE ANY CHANGES TO YOUR RECOMMENDATION FOR REAL ESTATE TAXES IN RESPONSE TO MS.
	Q.	
14	Q. A.	FOR REAL ESTATE TAXES IN RESPONSE TO MS.
14 15	-	FOR REAL ESTATE TAXES IN RESPONSE TO MS. HEPPENSTALL'S REBUTTAL TESTIMONY?
14 15 16	-	FOR REAL ESTATE TAXES IN RESPONSE TO MS. HEPPENSTALL'S REBUTTAL TESTIMONY?
14 15 16 17	-	FOR REAL ESTATE TAXES IN RESPONSE TO MS. HEPPENSTALL'S REBUTTAL TESTIMONY? No.
14 15 16 17 18	-	FOR REAL ESTATE TAXES IN RESPONSE TO MS.HEPPENSTALL'S REBUTTAL TESTIMONY?No.FEDERAL INCOME TAX ADJUSTMENTS DUE TO TAX CUTS
14 15 16 17 18 19	A.	FOR REAL ESTATE TAXES IN RESPONSE TO MS. HEPPENSTALL'S REBUTTAL TESTIMONY? No. FEDERAL INCOME TAX ADJUSTMENTS DUE TO TAX CUTS AND JOBS ACT

1	A.	I addressed the Company's over-recovery of 2018 taxes and the excess
2		deferred income taxes associated with the TCJA (I&E Statement No. 1,
3		pp. 39-49).
4		
5		FTY Over-Recovery
6	Q.	SUMMARIZE YOUR RECOMMENDATION IN DIRECT
7		TESTIMONY REGARDING THE FTY OVER-RECOVERY OF
8		INCOME TAXES.
9	A.	I recommended the Company be required to flow back to ratepayers via a
10		reconcilable 1307 surcharge mechanism (which could be entitled the
11		Federal Tax Adjustment Credit, or FTAC) over a one-year period the net
12		savings associated with the reduction in federal income taxes from
13		January 1, 2018 through the effective date of new rates. I recommended the
14		interest rate on the over or under collection be applied at the residential
15		mortgage lending rate specified by the Secretary of Banking in accordance
16		with the Loan Interest and Protection Law (41. P.S. §§ 101, et. seq.), in
17		effect on the last day of the month the over collection or under collection
18		occurs. For any over/under credit balance that remains after the twelve-
19		month refund period elapses, I recommended that the Company make a
20		final additional FTAC adjustment in the thirteenth month to ensure the
21		balance is eliminated (I&E Statement No. 1, pp. 42-43).

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1		I also proposed that a reconciliation statement be submitted to the
2		Commission at the end of the twelfth month, and that a final reconciliation
3		statement should be filed with the Commission within 30 days after the
4		final over/under balance has been eliminated in the thirteenth month after
5		the effective date of new rates. The FTAC revenues and reconciliation
6		would then be subject to audit by the Commission's Bureau of Audits (I&E
7		Statement No. 1, p. 43).
8		Further, I recommended that the Company's claimed amount of \$1.7
9		million (I&E Exhibit No. 1, Sch. 15, p. 1) be increased to reflect the flow
10		back of 2018 excess accumulated deferred income tax (ADIT) of \$265,189
11		(SWPA Exhibit JCC-1) (I&E Statement No. 1, pp. 41-43). This is to
12		ensure that Suez returned any excess FTY taxes collected to ratepayers.
13		
14	Q.	DID ANY COMPANY WITNESS SUBMIT REBUTTAL
15		TESTIMONY IN RESPONSE TO YOUR RECOMMENDATION?
16	A.	Yes. Suez witness James C. Cagle (SWPA Statement No. 3R, pp. 8-9)
17		responded to my recommendation.
18		
19	Q.	SUMMARIZE MR. CAGLE'S RESPONSE IN REBUTTAL
20		TESTIMONY.
21	А.	Mr. Cagle states that returning the FTY tax reconciling amount through a
22		surcredit mechanism over 12 months is certainly possible if ordered by the

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1		Commission (SWPA Statement No. 3R, p. 8). He does propose though that
2		any reconciling amount be recorded and addressed in a future rate case
3		(SWPA Statement No. 3R, p. 8). His reasoning for this is that it is more
4		pragmatic than my suggestion to deal with the reconciling amount (i.e.,
5		over/under passback) in the thirteenth month which "would require an
6		immediate recalculation of the surcredit just for the over/under amount
7		which would have to then be implemented without sufficient review by the
8		Commission." ³ He further argues that there will be an additional small
9		amount remaining from that reconciliation which would have to be
10		addressed at a future date (SWPA Statement No. 3R, pp. 8-9). Finally, he
11		opines that an adjustment to the 12-month surcredit for the amortization of
12		excess ADIT (i.e., the TCJA regulatory liability) is unnecessary since the
13		Company will not begin the amortization of the regulatory liability until the
14		resolution of the current rate case (SWPA Statement No. 3R, p. 9).
15		
16	Q.	WHAT IS YOUR RESPONSE TO MR. CAGLE'S PROPOSAL TO
17		RECORD THE OVER/UNDER PASSBACK AND ADDRESS IT IN A
18		FUTURE RATE CASE?
19	А.	I disagree with Mr. Cagle's reasoning that addressing the over/under
20		passback in a future rate case is necessary. This reconciling amount only

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³ SWPA Statement No. 3R, p. 8.

1	stems from approximately one year of recognizing a higher tax rate of 35%,
2	therefore, it would not be reasonable to wait until the next rate case
3	(possibly years from now) to resolve any reconciling amount. Since the
4	over recovery of the 2018 income tax will only accumulate over
5	approximately one year until new rates go into effect it should not take
6	years to fully resolve any issues related to reconciling and truing it up or
7	down. Also, any interest stemming from this issue would only increase the
8	longer it takes to be reconciled, which causes an inflated and unnecessary
9	expense to ratepayers or to the Company.
10	Additionally, in terms of the Commission not being able to
11	sufficiently review this thirteenth-month reconciling amount, in direct
12	testimony I stated that a reconciliation statement should be submitted to the
13	Commission at the end of 12-month recovery period and a final
14	reconciliation statement should be filed with the Commission within 30
15	days after the final over/under balance has been eliminated in the thirteenth
16	month after the effective date of new rates (I&E Statement No. 1, p. 43). I
17	also stated that these documents are subject to audit by the Commission's
18	Bureau of Audits. As long as the Company provides the requested
19	documentation the Commission should be able to sufficiently review the
20	over/under passback.

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1	Q.	DO YOU ACCEPT MR. CAGLE'S ASSERTION THAT NO
2		FLOWBACK OF THE EXCESS ADIT IS REQUIRED IN THE
3		SURCHARGE?
4	А.	Yes. I am willing to accept Mr. Cagle's assertion, as long as the Company
5		does not begin amortizing the regulatory liability related to the flowback of
6		excess ADIT prior to the effective date of new rates. Note that this is
7		unclear in that the exhibits of Ms. Heppenstall as referenced by Mr. Cagle
8		reflect an amortization of the excess ADIT in 2018 (SWPA Exhibit No.
9		CEH-2-R, Sch. 1). If this amount has been amortized by the Company in
10		2018, not including this amount in the surcharge refund will prevent
11		customers from recovering the full amount of excess ADIT that is owed to
12		them.
13		
14	Q.	DO YOU HAVE ANY CHANGES TO YOUR RECOMMENDATION
15		FROM DIRECT TESTIMONY?
16	А.	I withdraw my recommendation that the Company's over recovery of 2018
17		taxes be increased to reflect the flowback of 2018 excess ADIT, subject to
18		confirmation that the amortization did not begin in 2018 as reflected in
19		Company exhibits. I accept the Company's update for the 2018 over
20		recovery of taxes reported on SWPA Exhibit No. JCC-2 Rebuttal, p. 1 of
21		\$2,420,245, since this is the 2018 over recovery grossed up for income
22		taxes. However, similar to my recommendation in direct testimony.

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1		continue to recommend that the Company be required to flow back to
2		ratepayers via a reconcilable 1307 surcharge mechanism (which could be
3		entitled the Federal Tax Adjustment Credit, or FTAC) over a one-year
4		period the net savings associated with the reduction in federal income taxes
5		from January 1, 2018 through the effective date of new rates.
6		
7	Q.	DO YOU HAVE CHANGES TO YOUR PROPOSED LANGUAGE
8		FOR THE FTAC FROM YOUR DIRECT TESTIMONY?
9	A.	Yes. I am updating my proposed language (I&E Statement No. 1,
10		pp. 42-43) to take into account the effective date of February 1, 2019 for
11		the Company's new rates. I proposed the following language be adopted,
12		which is modeled on but not identical to, PECO Electric's proposed
13		surcharge (Docket No. R-2018-3000164):
14 15 16 17 18 19 20 21		<u>Federal Tax Adjustment Credit (FTAC)</u> A credit value of x.xx% will apply to all Pennsylvania Public Utility Commission jurisdictional distribution charges during the period February 1, 2019 through January 31, 2020 to pass the January 1, 2018 through January 31, 2019 effects of the Tax Cuts and Jobs Act (TCJA) to customers. The FTAC will be computed annually, will be effective ten days after filing, and will continue until the effect of the change in tax rates
22 23		resulting from the TCJA has been refunded to customers.
24 25 26 27 28		The FTAC will be based on the difference in total annual revenue requirement before and after implementing the 2018 and January 2019 effects of the TCJA and the calculation will reflect the reduction in required revenues. The reduction in required revenues will be divided by estimating annual
29 30		applicable base revenues to develop the FTAC to be applied to customers' bills for service rendered during the twelve-

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		month period beginning on the effective date of new rates. The difference between the actual reduction in required revenue and the reduction in revenues produced by the FTAC as applied will be subject to refund or recovery in an annual revision to the FTAC. The interest rate on the over or under collection will be applied at the residential mortgage lending rate specified by the Secretary of Banking in accordance with the Loan Interest and Protection Law (41. P.S. §§ 101, et. seq.), in effect on the last day of the month the over collection or under collection occurs. For any over/under credit balance that remains after the twelve-month refund period elapses, the Company shall propose a final additional FTAC adjustment in the thirteenth month to ensure the balance is eliminated. A reconciliation statement will be submitted to the
16		Commission at the end of the twelfth month. A final
17		reconciliation statement will be filed with the Commission
18		within 30 days after the final over/under balance has been
19		eliminated in the thirteenth month after the effective date of
20		new rates. The FTAC revenues and reconciliation will be
21		subject to audit by the Commission's Bureau of Audits.
22		
23	Q.	DO YOU HAVE ANY RECOMMENDATIONS IF THE
24		COMMISSION ACCEPTS MR. CAGLE'S PROPOSAL TO
25		ADDRESS THE FTY RECONCILING AMOUNT IN A FUTURE
26		RATE CASE?
27	А.	Yes. If the Commission accepts Mr. Cagle's proposal to wait until the next
28		rate case to reconcile any remaining balance, I recommend that if the
29		Company under refunds the tax credit, the Company should be required to
30		pay interest on the difference to ratepayers. However, if the Company over
31		refunds the tax credit. ratepayers should not be required to pay interest to

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	the Company. Ratepayers should not be penalized for the Company's
	decision to zero out the remaining balance at some unknown future date.
	Excess Accumulated Deferred Income Taxes
Q.	SUMMARIZE YOUR RECOMMENDATIONS IN DIRECT
	TESTIMONY REGARDING A REDUCTION TO RATE BASE FOR
	THE EXCESS ADIT REMAINING BALANCE.
A.	First, I recommended that the Company be required to provide an update
	showing a breakdown of its excess ADIT between the protected and
	unprotected balances, since these balances are subject to different
	requirements in determining the amortization period to refund monies to
	ratepayers. Second, I recommended that the Company use its claimed 40-
	year amortization for the protected portion and a five-year amortization for
	the unprotected portion. My 40-year amortization recommended for the
	protected portion matches what the Company claimed in its filing. I
	recommended a five-year amortization of the unprotected balance because
	it should be returned in a shorter time period than the protected balance,
	since there is no limitation or requirement on the number of years that
	companies can take to return the unprotected balance. Finally, I
	recommended that the Company be required to show the excess ADIT
	calculations and breakdowns for protected and unprotected balances for the
	HTY, the FTY, and the FPFTY periods in future filings, and that the

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1		Company be required to continue reducing rate base in future filings for the
2		remaining balance until the full amount is refunded to ratepayers (I&E
3		Statement No. 1, pp. 47-48).
4		
5	Q.	DID ANY COMPANY WITNESS SUBMIT REBUTTAL
6		TESTIMONY IN RESPONSE TO YOUR RECOMMENDATION?
7	А.	Yes. Suez witness James C. Cagle responded to my recommendations
8		(SWPA Statement No. 3R).
9		
10	Q.	SUMMARIZE MR. CAGLE'S RESPONSE IN REBUTTAL
11		TESTIMONY.
12	A.	Mr. Cagle indicated that the Company completed its review of ADIT
13		balances and incorporated this into SWPA Exhibit No. JCC-1 Rebuttal filed
14		with the Company's rebuttal testimony. The Company indicated that all
15		excess ADIT and ADIT in the current rate case is considered protected
16		(SWPA Statement No. 3R, pp. 3-4 and SWPA Exhibit No. JCC-1
17		Rebuttal). Mr. Cagle stated that the he provided the amount of ADIT and
18		TCJA regulatory liability to Ms. Heppenstall to include in her rebuttal
19		schedules and these amounts agree with the amounts included in SWPA
20		Exhibit No. JCC-1 Rebuttal (SWPA Statement No. 3R, p. 9). He indicated
21		that since the amortization of the TCJA regulatory liability begins on the
22		first day of the FPFTY, he reduced the balance of the excess by the amount

1		of amortization and made the corresponding change in ADIT to reflect the
2		impact of the amortization (SWPA Statement No. 3R, p. 9).
3		Mr. Cagle also proposed that the Company is in the process of
4		determining a switch from the Reverse South Georgia Method (RSGM) to
5		the Average Rate Assumption Method (ARAM) for the protected balance
6		and it proposes to determine and track any difference between the methods
7		through the next base rate filing and propose any necessary adjustment at
8		that time in order to be compliant with requirements surrounding the use of
9		accelerated depreciation for income tax purposes (SWPA Statement
10		No. 3R, pp. 3-7).
11		
12	Q.	DO YOU HAVE ANY CHANGES TO YOUR
12 13	Q.	DO YOU HAVE ANY CHANGES TO YOUR RECOMMENDATIONS AS A RESULT OF MR. CAGLE'S
	Q.	
13	Q. A.	RECOMMENDATIONS AS A RESULT OF MR. CAGLE'S
13 14		RECOMMENDATIONS AS A RESULT OF MR. CAGLE'S REBUTTAL TESTIMONY?
13 14 15		RECOMMENDATIONS AS A RESULT OF MR. CAGLE'S REBUTTAL TESTIMONY? Yes. Since Mr. Cagle indicated that the Company completed its review of
13 14 15 16		RECOMMENDATIONS AS A RESULT OF MR. CAGLE'S REBUTTAL TESTIMONY? Yes. Since Mr. Cagle indicated that the Company completed its review of ADIT, and since this review revealed all excess ADIT is categorized as
 13 14 15 16 17 		RECOMMENDATIONS AS A RESULT OF MR. CAGLE'S REBUTTAL TESTIMONY? Yes. Since Mr. Cagle indicated that the Company completed its review of ADIT, and since this review revealed all excess ADIT is categorized as protected, and since it appears the Company is taking excess ADIT as a
 13 14 15 16 17 18 		RECOMMENDATIONS AS A RESULT OF MR. CAGLE'S REBUTTAL TESTIMONY? Yes. Since Mr. Cagle indicated that the Company completed its review of ADIT, and since this review revealed all excess ADIT is categorized as protected, and since it appears the Company is taking excess ADIT as a reduction to rate base, I accept his assertion that the entire amount should
 13 14 15 16 17 18 19 		RECOMMENDATIONS AS A RESULT OF MR. CAGLE'S REBUTTAL TESTIMONY? Yes. Since Mr. Cagle indicated that the Company completed its review of ADIT, and since this review revealed all excess ADIT is categorized as protected, and since it appears the Company is taking excess ADIT as a reduction to rate base, I accept his assertion that the entire amount should be considered protected for this rate filing and that in the next rate filing the

	provide a clear breakdown of ADIT and a regulatory liability related to
	excess ADIT and provide a clear calculation of these amounts for the HTY,
	the FTY, and the FPFTY. Doing so will make it easier to verify that the
	Company is properly including excess ADIT and ADIT in its calculation of
	rate base and will reduce the number of interrogatories from the parties in
	the rate case.
	I also recommend, going forward, that if the Company reclassifies
	any excess ADIT as unprotected, that it should be required to show the
	breakdown of excess ADIT by protected and unprotected and show how the
	unprotected excess ADIT is being amortized. This is necessary because the
	Company indicated there is still uncertainty about whether excess ADIT
	recognized via ARAM should be viewed as protected or unprotected and
	that this categorization issue could be revisited in future rate cases (SWPA
	Statement No. 3R, pp. 3-4).
	CASH WORKING CAPITAL
Q.	SUMMARIZE YOUR RECOMMENDATION IN DIRECT
	TESTIMONY FOR CASH WORKING CAPITAL (CWC).
А.	I recommended an allowance of \$796,364 or reduction of \$67,382
	(\$863,746 - \$796,364) to the Company's claim (I&E Exhibit No. 1.
	Sch. 17). My CWC recommendation adjusted the Company's claim based
	on all recommended adjustments to O&M expenses as discussed in my
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1		direct testimony. Additionally, my recommendation reduced the
2		Company's claimed expenses by the fringe benefits capitalized/transferred
3		out as detailed on line 24 of SWPA Exhibit No. CEH-2, Schedule-1 and
4		further broken down on SWPA Exhibit No. CEH-2, Schedule-25 (I&E
5		Statement No. 1, pp. 50-53).
6		
7	Q.	DID ANY COMPANY WITNESS SUBMIT REBUTTAL
8		TESTIMONY IN RESPONSE TO YOUR RECOMMENDATION?
9	Α.	No. However, Suez witness Harold Walker, III (SWPA Statement No. 4-R)
10		provided an updated CWC worksheet that incorporated all of the
11		Company's adjustments made in rebuttal testimony (SWPA Statement No.
12		4R, Updated Schedule 1). Mr. Walker updated the Company's CWC to
13		\$843,094 (SWPA Statement No. 4R, Updated Schedule 1)
14		
15	Q.	DO YOU HAVE ANY CHANGES TO YOUR RECOMMENDATION
16		FOR CWC?
17	А.	Yes. I recommend an updated allowance of \$816,703 or a reduction of
18		\$26,391 (\$843,094 - \$816,703) to the Company's claim (I&E Exhibit
19		No. 1-SR, Sch. 2).
20		
21	Q.	PLEASE EXPLAIN THE BASIS OF YOUR UPDATED
22		RECOMMENDED ALLOWANCE.

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1	A.	I have updated my CWC recommendation to incorporate all of the changes
2		I made to O&M expenses and taxes. Additionally, I continue to
3		recommend that the fringe benefits transferred (capitalized) included in the
4		CWC calculation by the Company should be removed (I&E Statement No.
5		1, pp. 51-52). The Company did not remove the duplicative fringe benefits
6		included in expenses and taxes on its updated CWC worksheet, but I
7		continue to reflect these adjustments to expenses and taxes to avoid having
8		the Company earn a return on the capitalized portions and a duplicative
9		CWC allowance on the inflated expenses. Therefore, I removed the
10		32.84% of employee group health, employee pension benefits, workers
11		compensation, and payroll taxes to eliminate the fringe benefits transferred
12		amounts. All of these changes are incorporated into I&E Exhibit 1-SR,
13		Schedule 2, which is an I&E modified version of SWPA Statement No. 4R,
14		Updated Schedule 1.
15		
16	Q.	SUMMARIZE WHERE EACH OF THE I&E RECOMMENDED
17		EXPENSE ADJUSTMENTS ARE REFLECTED IN THE CWC
18		COMPUTATION.
19	А.	The following recommended adjustments must be incorporated into the
20		CWC calculation on the corresponding line item to arrive at my
21		recommended allowance:

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		Expense	(Decrease)
		Outside Contractors	(\$119,800)
		Purchased Water	(\$108,337)
		Management and Service Fees	(\$229,499)
		Real Estate Taxes	(\$13,625)
2			
3		All of these recommended adjustments	to CWC are incorporated into the
4		Company's workpaper and produce a re	ecommended allowance of
5		\$816,703.	
6			
7	Q.	IS YOUR RECOMMENDED CWC	ALLOWANCE A FINAL
8		RECOMMENDATION?	
9	A.	No. All adjustments to the Company's	claims for revenues, expenses,
10		taxes, and rate base must be continually	brought together in the
11		Administrative Law Judge's Recommendation	nded Decision and again in the
12		Commission's Final Order. This proce	ss, known as iteration, effectively
13		prevents the determination of a precise	calculation until all adjustments
14		have been made to the Company's clair	n.
15			
16	Q.	DOES THIS CONCLUDE YOUR SU	JRREBUTTAL TESTIMONY?
17	А.	Yes.	

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I&E Exhibit No. 1-SR Witness: Brenton Grab

PENNSYLVANIA PUBLIC UTILITY COMMISSION

v.

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

Exhibit to Accompany

the

Surrebuttal Testimony

of

Brenton Grab

Bureau of Investigation & Enforcement

Concerning:

OPERATING AND MAINTENANCE EXPENSES TAXES CASH WORKING CAPITAL

BUREAU OF INVESTIGATION AND ENFORCEMENT INTERROGATORIES

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

I&E-RE-55 (Heppenstall) June 13, 2018

I&E-RE-55 Reference SWPA Exhibit No. CEH-2, Schedule-31, concerning real estate taxes:

- A. Provide a copy of the Company's three most recent PURTA Notification of Determination statements in their entirety and indicate payment status for the most recent payment due;
- B. If the PURTA tax HTY claim of \$245,256 does not match the most recent PURTA Notification, explain why and state the method used to determine the claim, along with supporting calculations and detailed explanations for any allocations;
- C. Explain why the Company received a PURTA refund of \$34,000 in the HTY;
- D. Provide an explanation with supporting documentation for why the Company is excluding the \$34,000 HTY PURTA refund from the FTY and FPFTY real estate tax calculation, since the HTY PURTA is being used as the basis for calculating the FTY PURTA and FPFTY PURTA;
- E. Provide documentation such as property tax payment reports, bills, or invoices to support the \$59,297 in property tax reported for the HTY;
- F. Provide the property tax by year for 2015 and 2016;
- G. Provide justification for increasing the property tax and PURTA by the FTY and the FPFTY inflation factors when property tax and PURTA rates and amounts are determined by government agencies.

Response:

- A. Please see I&E-RE-55A Attachment for copies of three most recent PURTA statements. All three are paid and 90% of the estimated PURTA tax payment was made in May 2018.
- B. The PURTA tax HTY claim of \$245,256 does match the most recent PURTA Notification.
- C. Although the Company did receive refunds in prior years due to overpayment (2014: \$41,487 and 2015: \$48,435), the adjustment shown on CEH-2, Schedule-31 was to show that the Company made an adjustment in the accounting of the 2017 PURTA Tax to not over accrue. Upon further review, the \$245,256 as shown on the 2017 PURTA Notification and the \$59,297 actual property taxes total \$304,553 and should have been listed as the HTY actual, but it was used in the calculation of the FTY estimated expense of \$311,025.

I&E Exhibit No. 1 Schedule 1 Page 1 of 4

I&E Exhibit No. 1 Schedule 1 Page 2 of 4

SUEZ WATER PENNSYLVANIA INC.

Docket No. R-2018-3000834

- D. Please see the response in "C".
- E. Please see 1&E-RE-55E Attachment.
- F. The 2016 Property Tax was \$59,049.
- G. Property tax and PURTA tax rates were not determined for the FTY and the FPFTY by the time of the filing. An inflation factor applied to the HTY expense is a reasonable adjustment for property and PURTA tax rates that vary from year to year.

SUEZ Water Pennsylvania Docket No. R-2018-3000834

BUREAU OF CORPORATION TAXES PO BOX 280704 HARRISBURG PA 17128-0704



August 1, 2017

I&E Exhibit No. 1 Schedule 1 Page 3 of 4

UNITED WATER PENNSYLVANIA INC. 200 OLD HOOK ROAD

HRRNGTN PARK, NJ 07640

Re 2016 Pennsylvania Public Utility Realty Tax Notice of Determination

Dear Taxpayer:

Pursuant to the Public Utility Realty Tax Act, the Department of Revenue herein provides notice of the state taxable values of PURTA realty and the millage rate for tax year 2016 This notice is based on information provided by County Tax Assessor offices. Any discrepancies must be addressed with that agency and not with the Pennsylvania Department of Revenue. Please note, any net liabilities resulting from prior years' adjustments are due and payable along with the current year liability.

Payment of tax is required within 45 days of the mailing date of this notice. Previous payments, adjustments and credits should be taken into consideration Payments and correspondence relevant to the PURTA tax or this notice should be mailed directly to the above address.

All payments of \$1,000 or more must be made electronically or by certified or cashier's check remitted in person or by express mail courier. For information on electronic filing options, visit www.etides.state.pa.us.

Thank you for your attention to this matter

Sincerely,		Tax Year	2016
Department of Revenue	1)	Total Realty Tax Equivalent (RTE)	\$ 28,877,472
Bureau of Corporation Taxes	2)	Total State Taxable Value (STV) for all utilities.	\$ 1,256,835,302
PURTA Tax Unit	3)	PURTA Millage Rate, including 7.6 mills for PTA.	30 5763 mills
	4)	Utility STV:	\$8,021,118
	5)	Liability (Line 3 x Line 4)	\$245,256
	6)	Utility Transition Credit:	N/A
PLEASE SEE PAGE 2	7)	Utility Liability Adjustment	N/A
FOR YEÀRS 1998 - 2015	8)	Utility Transition Credit Adjustment.	N/A

Account ID: 3508576

Page 1 of 2

Name: UNITED WATER PENNSYLVANIA INC. Account Id: 3508576

				Ţ	<u>Details</u>						SUE
	Tax Year	2015	2014	2013	2012	2011	2010	2009	2008	2007	ketn
					sted Totals						SUEZ Water Pennsylvania Docket No. R-2018-3000834
1)	Total RTE:	\$ 29,109,811	\$ 28,905,293	\$ 31,034,425	\$ 30,821,809	\$ 30,739,060	\$ 30,171,210	\$ 31,135,225	\$ 30,472,864	\$ 28,772,799	Per R-20
2)	Total STV for all utilities	S 1,247,781,685	\$ 1,236,404,466	\$ 1,251,010,700	\$ 1,264,818, 9 68	\$ 1,342,814,786	\$ 1,406,722,546	\$ 1,530,324,73	\$ 1,617,969,120	\$ 1,643,059,438	18-3
3)	PURTA Millage Rate:	30 9293 mills	30.9785 mills	32,4075 milts	31,9686 mills	30,4915 mills	29 0479 mills	27 9455 mills	26, 434 mills	25.1117 nulls	lvan 3000
				Utility	Adjustments						lia 1834
4)	Utility STV.	\$8,118,645	\$9,008,241	\$8,809,262	\$9,081,124	\$9,949,275	\$10,067,602	\$12,088,762	\$11,739,137	\$11,235,256	
5)	Liability (Line 3 1 Line 4)	\$251,104	\$279,062	\$285,486	\$290,311	\$303,368	\$292,443	\$337,826	\$310,312	\$282,136	
6)	Utility Transition Credit:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7)	Utility Liability Adjustment:	(\$461)	\$28	(\$155)	\$105	\$104	\$8	529	518	\$10	
8)	Transition Credit Adjustment:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
							•				-
	Tax Year	2006	2005	2004	2003	2002	<u>2001</u>	2000	<u>1999</u>	<u>1998</u>	-
	Tax Year	<u>2006</u>	2005		2003 ited Totals	2002	2001	2 <u>000</u>	<u>1999</u>	<u>1998</u>	,
1)	Tax Yesr Total RTE:	<u>2006</u> \$ 30,419,051	<u>2005</u> 5 30,590,906			<u>2002</u> \$ 28,915,213	<u>2001</u> \$ 28,994,534	2 <u>000</u> \$ 27,970,152	<u>1999</u> \$ 38,487,965	<u>1998</u> \$ 40,694,555	-
1) 2)	Total RTE: Total STV for all utilities:			Adjus	ted Totals						-
	Total RTE:	\$ 30,419,051	\$ 30,590,906	<u>Adjus</u> 5 29,280,567	sted Totals \$ 29,231,251	\$ 28,915,213	\$ 28,994,534	\$ 27,970,152	\$ 38,487,965	\$ 40,694,555	-
2)	Total RTE: Total STV for all utilities:	\$ 30,419,051 \$ 1,613,550,291	\$ 30,590,906 \$ 1,517,813,632	<u>Adjus</u> 5 29,280,567 5 1,419,682,028 28.2247 mile	sted Totals \$ 29,231,251 \$ 1,354,657,470	\$ 28,915,213 \$ 1,348,545,899	\$ 28,994,534 \$ 1,322,028,254	\$ 27,970,152 \$ 1,344,824,961	\$ 38,487,965 \$ 2,032,653,620	\$ 40,694,555 \$ 2,069,309,124	,
2)	Total RTE: Total STV for all utilities:	\$ 30,419,051 \$ 1,613,550,291	\$ 30,590,906 \$ 1,517,813,632	<u>Adjus</u> 5 29,280,567 5 1,419,682,028 28.2247 mile	sted Totals \$ 29,231,251 \$ 1,354,657,470 29.1783 mills	\$ 28,915,213 \$ 1,348,545,899	\$ 28,994,534 \$ 1,322,028,254	\$ 27,970,152 \$ 1,344,824,961	\$ 38,487,965 \$ 2,032,653,620	\$ 40,694,555 \$ 2,069,309,124	-
2) 3)	Total RTE: Total STV for all utilities: PURTA Millage Rate:	\$ 30,419,051 \$ 1,613,550,291 26 4522 mills	\$ 30,590,906 \$ 1,517,813,632 27.7546 mills	<u>Adjus</u> 5 29,280,567 5 1,419,682,028 28.2247 milis <u>Utility.</u>	ted Totals \$ 29,231,251 \$ 1,354,657,470 29.1783 mils Adjustments	\$ 28,915,213 \$ 1,348,545,899 29 0418 mills	\$ 28,994,534 5 1,322,028,254 29.5319 mills	S 27,970,152 S 1,344,824,961 28.3984 mills	\$ 38,487,965 \$ 2,032,653,620 26.5348 mills	\$ 40,694,555 \$ 2,069,309,124 71 9693 mills	-
2) 3) 4)	Total RTE: Total STV for all utilities: PURTA Millage Rate; Utility STV:	\$ 30,419,051 \$ 1,613,550,291 26 4522 mills \$9,872,167	5 30,590,906 S 1,517,813,632 27.7546 mills S8,835,475	<u>Adjus</u> 5 29,280,567 5 1,419,682,028 28.2247 mils <u>Utility,</u> 57,798,008	sted Totals \$ 29,231,251 \$ 1,354,657,470 29.1783 mills Adjustments \$7,662,097	\$ 28,915,213 5 1,348,545,899 29 0418 mills \$7,724,604	\$ 28,994,534 5 1,322,028,254 29.5319 mills \$7,549,335	\$ 27,970,152 \$ 1,344,824,961 28.3984 mills \$7,692,753	\$ 38,487,965 \$ 2,032,653,620 26.5348 mills \$8,039,213	\$ 40,694,555 \$ 2,069,309,124 71 9693 mills \$7,774,519	-
2) 3) 4) 5)	Total RTE: Total STV for all utilities: PURTA Millage Rate: Utility STV: Liability (Line 3 x Line 4):	\$ 30,419,051 \$ 1,613,550,291 26 4522 mills \$9,872,167 \$261,141	\$ 30,590,906 \$ 1,517,813,632 27.7546 mills \$8,835,475 \$245,225	<u>Adjus</u> 5 29,280,567 5 1,419,682,028 28.2247 mils <u>Utility.</u> 57,798,008 5220,096	tied Totals \$ 29,231,251 \$ 1,354,657,470 29.1783 mills Adjustments \$7,662,097 \$223,567	\$ 28,915,213 5 1,348,545,899 29 0418 mills \$7,724,604 \$224,336	\$ 28,994,534 5 1,322,028,254 29.5319 mills \$7,549,335 \$222,946	\$ 27,970,152 \$ 1,344,824,961 28.3984 mills \$7,692,753 \$218,462	\$ 38,487,965 \$ 2,032,653,620 26.5348 mills \$8,039,213 \$213,319	\$ 40,694,555 \$ 2,069,309,124 71 9693 mills \$7,774,519 \$559,527	-

If you do not agree with this Notice of Determination for 2016 PURTA, you may file a Petition for Recalculation with the Board of Finance and Revenue pursuant to Section 1109-A of the Tax Reform Code of 1971. The petition must be postmarked by the U.S. Postal Service or received by the Board of Finance and Revenue within 30 days of the mailing date of this notice. Under separate cover you will receive a Statement of Account. Please review it to confirm the status of payments made, transition credits and adjustments to previous tax liabilities or balances still due. Any overpayment is available for transfer within the account, and any net credit balance for the account is available for refund/assignment.

I&E Exhibit No. Schedule 1 Page 4 of 4

Page 2 of 2

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SUMMARY OF CASH WORKING CAPITAL REQUIREMENTS
BASED ON LEAD-LAG STUDY FOR THE TWELVE MONTHS ENDING DECEMBER 31, 2017

Utility Operating Expenses	Revenue Days	Expense Days	Net (Lead) Lag Days	Expense Claim 12-Months Ending 12/31/2017	12-Months Ending 12/31/2017 CWC	Expense Claim Future Test Year 12/31/2018	Future Test Year 12/31/2018 CWC	Expense Claim Fully Projected Year Under Present Rates 12/31/2019	Fully Projected Year Under Present Rates 12/31/2019 CWC	Expense Claim Fully Projected Future Test Year Under Proposed Rates 12/31/2019	Fully Projected Future Test Year Under Proposed Rates 12/31/2019 CWC
Labor Expense	33 3	13.4	19.9	\$ 4,579,937	\$ 249,701	5095561 \$	277,813	5419097	\$ 295,452	5419097	\$ 295,452
Employee Group Health & Life	33.3	12.7	20.6	1,323,689	74,707	1336815	75,448	1425129	80,432	procession and a second	54,018
Employee Pension Benefits	33 3	57.4	(24.1)	1,425,022	(94,091		(93,071)	1442010	(95,212)	the state of the s	(63,944)
Purchased Water	33.3	15.4	17.9	68,621	3,365	76176	3,736	182928	8,971	74,591	3,658
Purchased Power	33 3	27.0	6.3	1,242,836	21,452	1411713	24,367	1411713	24,367	1411713	24,367
Fuel for Power Production	33.3	36.7	(3.4)	184,165	(1,716	23163	(216)	23696	(221)		
Chemicals	33.3	25.1	8.2	540,682	12,147	586048	13,166	599527	13,469	599527	13,469
Materials and Supplies	33.3	10.5	22.8	254,476	15,896	250065	15,620	255816	15,980	255816	15,980
Management and Service Fees	33,3	14.7	18.6	4,921,757	250,807	5187320	264,340	5219561	265,983	4,990,062	254,288
Lab Testing Fees	33.3	15.5	17.8	114,698	5,594	81888	3,993	83542	4,074	83542	4,074
Outside Contractors	33.3	28.7	4.6	748,644	9,435	979755	12,348	1147114	14,457	1,027,314	12,947
Outside Professional Services	33.3	49.7	(16.4)	64,321	(2,890	66660	(2,995)	68193	(3,064)	68193	Carried States and States and States and
Rental - Building/Real Property	33.3	(14.7)	48.0	60,330	7,934	60476	7,953	30219	3,974	30219	3,974
Rental of Equipment	33,3	(5,1)	38.4	49,175	5,173	50220	5,283	51375	5,405	51375	5,405
Transportation Expense	33.3	31.0	2.3	407,033	2,565	463897	2,923	560322	3,531	560322	3,531
Prop& Gen Liab. Insurance	33.3	(59.6)	92.9	4,732	1,204	4832	1,230	4935	1,256	4935	1,256
Worker Compensation	33.3	13.7	19.6	102,384	5,498	108228	5,812	110717	5,945	74,358	3,993
Regulatory Commission Expense	33.3	(77.0)	110.3	198,665	60,035	219880	66,446	235344	71,119	262302	79,266
Office Expense and Utilities	33.3	4.0	29.3	446,337	35,829	419541	33,678	540894	43,420	540894	43,420
Postage and Air Freight Expense	33.3	30,1	3.2	354,308	3,106	358563	3,144	366358	3,212	366358	3,212
Olher O&M	33.3	13.8	19.5	143,806	7,683	199353	10,650	203938	10,895	203938	10,895
Real Estate Tax	33.3	(26.9)	60.2	270,553	44,623	311025	51,298	318178	52,478	304,553	50,230
Payroll	33.3	18.6	14.7	560,626	22,579	597949	24,082	644779	25,968	433,034	17,440
Federal Income Taxes	33.3	37.0	(3.7)	5,168,780	(52,396	2558166	(25,932)	2722446	(27,597)	3725392	(37,764)
Stale Income Taxes	33.3	28.8	4.6	1,663,801	20,741	1217505	15,177	1140177	14,213	1670247	20,821
Total					\$ 708,981	-	796,293	1	\$ 838,507		816,703

1&E Modified

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION	::	
V.	:	Docket No. R-2018-3000770
SUEZ WATER PENNSYLVANIA, INC.		

WITNESS VERIFICATION THE BUREAU OF INVESTIGATION AND ENFORCEMENT

I, D. C. Patel, on behalf of the Bureau of Investigation and Enforcement, hereby verify that the documents preliminarily identified as:

I&E Statement No. 2-SR

were prepared by me or under my direct supervision and control. Furthermore, the facts contained therein are true and correct to the best of my knowledge, information and belief and I expect to be able to prove the same at an Evidentiary Hearing in this matter. This Verification is made subject to the penalties of 18 Pa. C.S. § 4904 relating to unsworn falsification to authorities.

Pennsylvania Public Utility Commission Bureau of Investigation and Enforcement

Dated: September 7, 2018

I&E Statement No. 2-SR Witness: D. C. Patel

PENNSYLVANIA PUBLIC UTILITY COMMISSION

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v.

SUEZ WATER PENNSYLVANIA, INC.

Docket No. R-2018-3000834

Surrebuttal Testimony

of

D. C. Patel

Bureau of Investigation & Enforcement

Concerning:

Rate of Return

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RISK PREMIUM METHOD 16
SIZE ADJUSTMENT 17
OVERALL RATE OF RETURN

1 INTRODUCTION OF WITNESS

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2	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
3	А.	My name is D. C. Patel. My business address is Pennsylvania Public Utility
4		Commission, P.O. Box 3265, Harrisburg, PA 17105-3265.
5		
6	Q.	BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
7	А.	I am employed by the Pennsylvania Public Utility Commission (Commission) in
8		the Bureau of Investigation & Enforcement (I&E) as a Fixed Utility Financial
9		Analyst.
10		
11	Q.	ARE YOU THE SAME D. C. PATEL WHO IS RESPONSIBLE FOR THE
12		DIRECT TESTIMONY CONTAINED IN I&E STATEMENT NO. 2 AND
13		THE SCHEDULES IN I&E EXHIBIT NO. 2?
14	А.	Yes.
15		
16	Q.	WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?
17	А.	The purpose of my surrebuttal testimony is to address statements made by Suez
18		Water Pennsylvania, Inc. (Suez or Company) witness Dylan D'Ascendis in his
19		rebuttal testimony regarding rate of return topics including the cost of common
20		equity or return on equity (ROE) and the overall fair rate of return, which will be
21		applied to the Company's rate base.

1	Q.	DOES YOUR SURREBUTTAL TESTIMONY INCLUDE AN
2		ACCOMPANYING EXHIBIT?
3	A.	No. However, I will refer to my direct testimony and exhibit in this surrebuttal
4		testimony (I&E Statement No. 2 and I&E Exhibit No. 2).
5		
6	<u>SUN</u>	IMARY OF MR. D'ASCENDIS' REBUTTAL TESTIMONY
7	Q.	SUMMARIZE MR. D'ASCENDIS' RESPONSE IN REBUTTAL
8		TESTIMONY TO YOUR RECOMMENDATIONS MADE IN DIRECT
9		TESTIMONY.
10	А.	Mr. D'Ascendis disputes my criticism of his non-regulated proxy group, business
11		size adjustment, use of the Risk Premium method (RP), and Empirical Capital
12		Asset Pricing Model (ECAPM). He also disagrees with the use of the Discounted
13		Cash Flow (DCF) as a primary method, my Capital Asset Pricing Model (CAPM)
14		risk-free rate, and the use of a geometric mean.
15		
16	<u>PRO</u>	XY GROUP
17	Q.	WHAT IS MR. D'ASCENDIS' REBUTTAL TESTIMONY REGARDING
18		HIS USE OF A NON-REGULATED PROXY GROUP?
19	А.	Mr. D'Ascendis claims that he has proven that the companies contained in his
20		non-regulated proxy group have a similar total risk to those in his water utility
21		proxy group based on the unadjusted beta and standard error of the regression

•

being inside the range of the water utility proxy group (Suez Statement No. 5R,
 p. 30).

3

4 Q. HAS MR. D'ASCENDIS PROVEN THAT THE RISKS FACED BY HIS 5 NON-REGULATED PROXY GROUP ARE SIMILAR TO THAT OF HIS 6 REGULATED UTILITY GROUP?

7 No. Mr. D'Ascendis uses historical beta and the standard error of the regression A. 8 of selected non-regulated companies, which have betas close to his utility proxy 9 group betas, to determine that the non-regulated companies' total risks are similar 10 to the risk of his regulated utility proxy group. For a non-regulated company to be 11 similar to the regulated utility industry, it is not only the past that must be similar 12 but also the future expectations of the industry in which the non-regulated 13 company operates. Mr. D'Ascendis' measures of risk are both completely 14 historical measures and do not include any expectations for whether the industries 15 will be the same in the future.

As stated in I&E Statement No. 2, pages 10-11, the risks faced in each industry for the companies used in Mr. D'Ascendis' unregulated group differ from the risks faced by his regulated water utility group. Mr. D'Ascendis has chosen companies for his non-regulated proxy group from industries such as retail automotive, broker/exchange, restaurant, food processing, hotel, medical services, insurance, industrial services, information services. medical supplies, and the

1		household products industry. The assertion that risk between industries can be
2		evaluated based on beta and standard error regression while ignoring current
3		events and the fact that one group is regulated and the other is not, leads to an
4		incorrect assessment of risk. Although at one point in time, each industry may
5		have a similar degree of risk when compared to the market as a whole,
6		Mr. D'Ascendis has ignored what the industry is expected to face in the future.
7		Mr. D'Ascendis' non-regulated barometer group may have a beta similar to that of
8		his proxy regulated water group, but that does not mean that the proxy water group
9		is expected to face the same business and financial risks and challenges as that of
10		the non-regulated group because each industry has its own industry-specific risk
11		profile, operating platform, and market segment.
12		Therefore, it is entirely inappropriate to rely on the results of the
13		application of the DCF, RP, and CAPM analyses to the non-price regulated proxy
14		group.
15		
16	DISC	COUNTED CASH FLOW (DCF)
17	Q.	WHAT DID MR. D'ASCENDIS ARGUE IN REBUTTAL TESTIMONY
18		REGARDING YOUR USE OF THE DCF?
19	А.	Mr. D'Ascendis asserts that my recommendation relies in its entirety on the DCF
20		method and that other methods must be relied upon when recommending a cost of

21 common equity. He claims that the Commission's decisions in the 2013 Columbia

1		Water Company base rate case and in the 2014 Emporium Water Company base
2		rate case are contrary to my recommendation. In addition, Mr. D'Ascendis claims
3		that the market-to-book ratios of the utility proxy group indicate that the DCF
4		result understates the return on equity (Suez Statement No. 5R, pp. 6-13).
5		
6	Q.	WERE ANY METHODS OTHER THAN THE DCF EMPLOYED IN YOUR
7		ANALYSIS?
8	А.	Yes. Although, my recommendation was based primarily on the results of my
9		DCF analyses, I also employed the CAPM and presented results as a comparison
10		to my DCF results. The result of my DCF is 9.13%, which is fair and reasonable
11		as compared with the CAPM results.
12		
13	Q.	ARE THERE ANY OTHER RECENT ORDERS THAT STATE THE
14		METHOD RELIED ON BY THE COMMISSION FOR ITS RETURN ON
15		EQUITY DETERMINATION?
16	А.	Yes. In the City of Dubois - Bureau of Water Order entered on March 28, 2017,
17		the Commission relied primarily on the DCF results and rejected giving equal
18		weight to the other methodologies:
19 20 21		[T]he City's cost of equity in this proceeding should be based upon the use of the DCF methodology, with the other methodology results used as a check on the reasonableness of
22		the DCF results. We note that we have primarily relied upon
23		the DCF methodology in arriving at previous determinations
24		of the proper cost of equity and utilized the results of methods

1 other than the DCF, such as the CAPM and RP methods, as a 2 check upon the reasonableness of the DCF derived equity 3 return calculation, tempered by informed judgement. We are 4 not persuaded by the arguments of the City that we should 5 assign equal weight to the multiple methodologies.¹ 6 7 Q. DO THE CASES MR. D'ASCENDIS CITED GIVE EQUAL WEIGHT TO 8 THE DCF, CAPM, RP, AND A NON-REGULATED PROXY GROUP FOR 9 WHICH MR. D'ASCENDIS ADVOCATES? 10 No. Mr. D'Ascendis' quote from the Columbia Water base rate case (Docket No. A. 11 R-2013-2360798) states that the Commission found that the testimony, data, and 12 cost models presented in that case supported a range that used "the DCF method as the foundation"² (Suez Statement No. 5R, p. 6). The Emporium Water Company 13 14 Order (Docket No. R-2014-2402324) quoted by Mr. D'Ascendis also states that 15 the Commission chose a return on equity based on its review of the testimony, 16 data, and cost models presented by the parties³ (Suez Statement No. 5R, p. 7). I 17 am unaware of any statement in either Order that offers support for Mr. 18 D'Ascendis' method of giving equal weight to the DCF, CAPM, RP, and an un-19 regulated proxy group. The Commission in its Order in the Emporium Water rate 20 case mentioned that Emporium Water utilized DCF, RP, and CAPM analyses, but

¹ Pennsylvania Public Utility Commission v. City of DuBois – Bureau of Water, Docket No. R-2016-2554150, pp. 96-97. Order entered March 28, 2017.

² Pennsylvania Public Utility Commission v The Columbia Water Company, Docket No. R-2013-2360798, p. 43, Order entered January 23, 2014.

³ Pennsylvania Public Utility Commission v. Emporium Water Company, Docket No R-2014-2402324, p. 35, Order entered January 28, 2015.

1		that does not mean the Commission endorsed or approved giving equal weight for
2		determining Emporium's cost of common equity. I am also unaware of any
3		language in either Order that states the DCF should not be used as the primary
4		method with the CAPM used to confirm the reasonableness of the DCF results.
5		To the contrary, as I stated above, in the 2013 Columbia Water rate case, the
6		Commission stated that it used the DCF as the foundation of its determination. ⁴
7		
8	Q.	DOES A MARKET-TO-BOOK RATIO ABOVE 1.0 CAUSE THE DCF TO
9		INCORRECTLY ESTIMATE THE INVESTOR-REQUIRED RETURN ON
10		EQUITY?
11	A.	No. Although, there are differences between the book value and market value of
12		water utilities, Mr. D'Ascendis asserts that the difference causes the DCF to
13		undervalue the rate of return when a market based common equity cost rate is
14		applied to a book value rate base (Suez Statement No. 5R, pp. 8-13). The
15		forecasted growth rates used in the DCF are set by analysts based on current
16		conditions and what they expect the future could be for the stock. As Mr.
17		D'Ascendis points out, the current market-to book-ratio of the water proxy group
18		has exceeded the ten-year average market-to-book ratio (above 1.0) (Suez

⁴ Pennsylvania Public Utility Commission v. The Columbia Water Company. Docket No. R-2013-2360798, p. 43, Order entered January 23, 2014.

1		utility stock that has been trading above book value for several years and be
2		surprised that rates continue to be set based on the book value capital structure. A
3		market-to-book ratio of above 1.0 for utility stocks reflects their value in the
4		market and implies that investors expect future cash flows to be more valuable
5		than the historical accounting value of the company. Since the stock market is
6		impacted by regulatory policies, and the economic and financial conditions, a
7		market-to-book ratio could be less than 1.0 when the stock market is in a
8		depression phase, so it is inappropriate to evaluate DCF results with the market-to-
9		book ratio.
10		
11	Q.	DID MR. D'ASCENDIS ADVOCATE A SPECIFIC LEVERAGE
12		ADJUSTMENT TO THE DCF RESULT TO COMPENSATE FOR THE
13		DIFFERENCE IN MARKET-TO BOOK RATIO?
14	А.	No.
15		
16	Q.	HAVE YOU CHANGED YOUR METHODS USED TO DETERMINE A
17		RETURN ON EQUITY RECOMMENDATION BASED ON
18		MR. D'ASCENDIS' REBUTTAL TESTIMONY?
19	А.	No. For the reasons discussed in I&E Statement No. 2. the DCF method is the
20		most reliable. and since it is a direct measure of water utilities, it reflects the

1		current conditions of the regulated water utility industry more accurately than the
2		CAPM does with its indirect measurement.
3		Additionally, I have considered the fact that no method can perfectly
4		predict the return on equity; therefore, I have used the CAPM as a comparison to
5		the DCF results. Although, no single method can capture every factor that
6		influences an investor, including methods less reliable than the DCF does not
7		make the return on equity more reliable or more accurate.
8		
9	<u>CAP</u>	PITAL ASSET PRICING MODEL
10	Q.	SUMMARIZE MR. D'ASCENDIS' REBUTTAL TESTIMONY
11		REGARDING YOUR APPLICATION OF THE CAPM.
12	A.	Mr. D'Ascendis disagrees with my use of a 10-year Treasury Bond as the risk-free
13		rate and my reliance on geometric mean to calculate a market risk premium. He
14		also states that I did not employ the ECAPM (Suez Statement No. 5R, pp. 15-21).
15		
16		RISK-FREE RATE
17	Q.	WHAT IS MR. D'ASCENDIS' REBUTTAL TESTIMONY REGARDING
18		YOUR USE OF THE YIELD ON THE 10-YEAR U.S. TREASURY BOND?
19	А.	Mr. D'Ascendis claims his use of the yield on a 30-year U.S. Treasury Bond is
20		more appropriate than my use of the yield on a 10-year Treasury Bond because it
21		better reflects the life of the underlying investment. He also claims that not

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1		incorporating the longest projection available is inconsistent with the DCF
2		assumption of a constant rate of dividend growth and the assumption that all
3		available information is considered by investors when making investments.
4		Therefore, he opines that the 2024-2028 forecasted data should be included in my
5		CAPM analysis (Suez Statement No. 5R, pp. 15-17).
6		
7	Q.	IS THE LIFE OF THE INVESTMENT THE ONLY FACTOR THAT
8		SHOULD BE CONSIDERED IN THE CHOICE OF A RISK-FREE RATE?
9	A.	No. The risk-free rate is the return that can be earned without accepting any risk,
10		and while the life of the investment can be considered in the choice of risk-free
11		rates, the most important consideration is that the rate be as risk-free as possible.
12		As stated in I&E Statement No. 2, pages 28-29, I chose the 10-year Treasury
13		Bond, a medium-term investment, as it balances the short-comings of the short-
14		term T-Bill and the long-term 30-year Treasury Bond. Although, long-term
15		Treasury Bonds have less risk of being influenced by federal policies, they have
16		substantial maturity risk associated with market risk. In addition, the long-term
17		Treasury Bonds bear the risk of unexpected inflation. As such, my choice of a 10-
18		year Treasury Bond is appropriate and reflects investors' expectation of return.
19		
20	Q.	DOES THE PROJECTED RISK-FREE RATE NEED TO REPRESENT
21		THE LONGEST TIME PERIOD AVAILABLE?

•

1	А.	No. The time period reflected in a projected risk-free rate should reflect the period
2		in which rates will be in effect. Since Suez is not setting rates for 2024-2028,
3		using projections for six or more years from now is inappropriate. The yield on
4		the 10-year Treasury Note is expected to range between 3.10% and 3.50% from
5		the third quarter of 2018 through the third quarter of 2019 and is forecasted to be
6		3.60% from 2019-2023 (Suez Statement No. 5R, Schedule 7, p. 2). For my
7		forecasted CAPM analysis I chose 3.35%, which is the average of all the yields I
8		observed. In addition, the further out into the future one forecasts (e.g., 2024-
9		2028), the less reliable and more speculative the estimates become; therefore, to
10		give more weight to less reliable estimates would not be prudent. My calculation
11		provides a balance of historical, measurable, and accurate yields and the future
12		estimates.
13		
14		GEOMETRIC MEAN
15	Q.	WHAT IS MR. D'ASCENDIS' REBUTTAL TESTIMONY REGARDING
16		THE USE OF AN ARITHMETIC MEAN RATHER THAN A GEOMETRIC
17		MEAN?
18	А.	Mr. D'Ascendis opines that the arithmetic mean should be used instead of the
19		geometric mean in determining an appropriate market return because the
20		geometric mean consists of a rate of return taken from the initial and terminal
21		years' value (1926 and 2017). and a constant rate of return is calculated by

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geometric average. He claims that geometric mean does not capture year to year
 variation for the entire 1926 to 2017 time period in returns (Suez Statement No.
 5R, p. 19).

4

Q. IS THE USE OF A GEOMETRIC MEAN FOR THE CALCULATION OF THE HISTORICAL CAPM INAPPROPRIATE AS MR. D'ASCENDIS ASSERTS?

8 A. No. First, it is important to recognize that I used the geometric mean only in my 9 *historic* CAPM analysis. It is appropriate to calculate the *historic* CAPM this way 10 as it normalizes the returns or yields, and thus, measures the change over more 11 than one period. The arithmetic average is more susceptible to being influenced 12 by outliers, and therefore, is not as good at representing the central tendency of a 13 set of numbers. I have chosen to use the geometric mean to calculate a historical 14 return because I am calculating a historical CAPM. For the historical performance 15 of the market to be a valid representation of the future, a geometric mean should 16 be calculated to minimize the effect of any individual years that deviated from 17 normal years. The arithmetic mean is influenced by any outliers in the data set, 18 and therefore would be a better representation of the volatility of returns than it is 19 of historical performance.

1 Q. PLEASE CONTINUE.

•

2	А.	One of the difficulties of calculating the CAPM is that the risk premium is
3		measured by the difference between the return on the market and the risk-free rate,
4		and since the return on the market and the risk-free rate do not always change in
5		the same direction or by the same percent, the risk premium itself is not constant
6		over time. When measuring a historical risk premium, these volatilities, and
7		therefore the potential inaccuracies of the CAPM, are accentuated using the
8		arithmetic mean. The geometric mean more accurately represents the typical
9		value, and as a result is a better representation of the historical market risk
10		premium because it is not as influenced by fluctuation in the market as the
11		arithmetic mean.
12		
13	Q.	DOES MR. D'ASCENDIS' REFERENCE TO THE DUFF & PHELPS 2018
14		SBBI YEARBOOK (P. 10-22) INVALIDATE YOUR USE OF THE
15		GEOMETRIC MEAN? ⁵
16	А.	No. Again, I have only used the geometric mean to find a <i>historical</i> return;
17		therefore, Mr. D'Ascendis' reference to the Duff & Phelps 2018 SBBI Yearbook
18		is not applicable. As stated by Roger G. Ibbotson, "The geometric mean is
19		backward-looking. ^{~~6}

⁵ Suez Statement No. 5R, p. 18 ⁶ 2017 SBBI Yearbook Stocks, Bonds, Bills, and Inflation, Duff & Phelps, p. 6-2.

Q. CAN YOU PROVIDE A SIMPLE EXAMPLE DEMONSTRATING THE SHORTCOMINGS OF APPLYING THE ARITHMETIC MEAN IN A REGULATORY SETTING?

•

4	А.	Yes. Suppose a hypothetical investor has \$100 to invest over a two-year period.
5		The first year the investor earns a 100% return so that his ending wealth at the end
6		of period 1 is \$200. The second year the investor has a -50% return (loses \$100)
7		so that his ending wealth at the end of period 2 is \$100. It is quite clear that the
8		investor has not earned a return since he ends the two-year period with the same
9		\$100 that he started with. The calculated geometric return is $0\% =$
10		$(100/100)^{1/2}$, which shows the lack of increased wealth. However, the
11		calculated arithmetic return is $25\% = (100\% - 50\%)/2$. This means an investor
12		relying on the arithmetic mean would expect to have an ending wealth of \$125,
13		but instead would only have an ending wealth of \$100. This illustrates the
14		inherent bias of using the arithmetic mean to calculate period results. As a result,
15		it is quite clear that the use of the arithmetic mean for cost of capital purposes in a
16		regulatory setting will produce biased results and that the geometric mean is more
17		accurate and appropriate.

1		EMPIRICAL CAPITAL ASSET PRICING MODEL
2	Q.	WHAT IS MR. D'ASCENDIS' REBUTTAL TESTIMONY REGARDING
3		YOUR CRITICISM IN DIRECT TESTIMONY OF THE ECAPM?
4	A.	Mr. D'Ascendis claims that the Security Market Line, which is the graphical
5		representation of the CAPM, is flatter than what is described in the traditional
6		CAPM and claims that the Fama and French article I referenced on I&E Statement
7		No. 2, p. 20 describes the poor empirical evidence of the CAPM, thus providing
8		support for the ECAPM (Suez Statement No. 5R, p. 20).
9		
10	Q.	WHY HAVEN'T YOU EMPLOYED THE ECAPM IN YOUR
11		ANALYSIS?
12	A.	I have not employed the ECAPM as it has the same problems as the
	A.	
12	A.	I have not employed the ECAPM as it has the same problems as the
12 13	A.	I have not employed the ECAPM as it has the same problems as the CAPM that were discussed in I&E Statement No. 2, pages 18-20. The
12 13 14	A.	I have not employed the ECAPM as it has the same problems as the CAPM that were discussed in I&E Statement No. 2, pages 18-20. The Fama and French article Mr. D'Ascendis references (Suez Statement No.
12 13 14 15	A.	I have not employed the ECAPM as it has the same problems as the CAPM that were discussed in I&E Statement No. 2, pages 18-20. The Fama and French article Mr. D'Ascendis references (Suez Statement No. 5R, p. 20) does not support the use of the ECAPM as he asserts. Mr.
12 13 14 15 16	A.	I have not employed the ECAPM as it has the same problems as the CAPM that were discussed in I&E Statement No. 2, pages 18-20. The Fama and French article Mr. D'Ascendis references (Suez Statement No. 5R, p. 20) does not support the use of the ECAPM as he asserts. Mr. D'Ascendis has taken the article out of its context of invalidating the
12 13 14 15 16 17	A.	I have not employed the ECAPM as it has the same problems as the CAPM that were discussed in I&E Statement No. 2, pages 18-20. The Fama and French article Mr. D'Ascendis references (Suez Statement No. 5R, p. 20) does not support the use of the ECAPM as he asserts. Mr. D'Ascendis has taken the article out of its context of invalidating the CAPM method. The Fama and French article does not conclude that the

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1		the point when it is generally acknowledged that the CAPM has potentially
2		fatal problems." ⁷
3		
4	<u>RIS</u>	K PREMIUM METHOD
5	Q.	WHAT WAS YOUR DIRECT TESTIMONY REGARDING THE RISK
6		PREMIUM METHOD?
7	A.	I stated, among other weaknesses, the RP method does not measure the current
8		rate of return on common equity directly but determines the rate of return on
9		common equity indirectly by observing the cost of debt (I&E statement No. 2, p.
10		19). Also, the RP method does not measure specific risk of the company (I&E
11		statement No. 2, p. 15).
12		
13	Q.	WHAT IS MR. D'ASCENDIS' REBUTTAL TESTIMONY REGARDING
14		THE LACK OF DIRECT MEASUREMENT IN THE RP METHOD?
15	А.	Mr. D'Ascendis claims that since the Predictive Risk Premium (PRP) method
16		measures the "risk-return relationship directly," my concerns are misplaced (Suez
17		Statement No. 5R, p. 27).

⁷ Fama, Eugene F. and French, Kenneth R., "The Capital Asset Pricing Model: Theory and Evidence" *Journal of Economic Perspectives* (2004). Volume 18, Number 3, pp. 25-46.

Q. DOES MR. D'ASCENDIS' PRP METHOD MEASURE THE COST OF EOUITY DIRECTLY?

3 A. No. Although, the PRP method does include the historical returns of the utility 4 proxy group, it uses them to develop a market risk premium, not to estimate the 5 cost of equity. To estimate the forecasted cost of equity, the PRP method attempts 6 to measure the difference between the 30-year Treasury Yield and the historical 7 returns of the utility proxy group (Suez Statement No. 5, p. 17), which means that 8 the cost of equity is not directly measured from data specific to the proxy group. The PRP method assumes that there is a constant, predictable relationship between 9 10 the 30-year Treasury Yield and the returns on the proxy group. In addition, the 11 PRP method produces high estimates of the cost of equity compared to Mr. 12 D'Ascendis' calculations of the return on the market in his CAPM. All companies 13 in the proxy group have betas below one (1.0), which means that the return they 14 earn should reflect less risk than the overall market.

15

16 SIZE ADJUSTMENT

17 Q. WHAT WAS YOUR DIRECT TESTIMONY REGARDING A SIZE

ADJUSTMENT?

In I&E Statement No. 2. pages 37-39, I stated that Mr. D'Ascendis' 20-basis point
 size adjustment is unnecessary because none of the technical literature he cited in
 his direct testimony supporting investment adjustments related to the size of a

1		company is specific to the utility industry. In addition, I presented an article by
2		Dr. Annie Wong that demonstrated there is no need to make an adjustment for the
3		size of a company in utility rate regulation (I&E Statement No. 2, pp. 38-39).
4		
5	Q.	WHAT IS MR. D'ASCENDIS' REBUTTAL TESTIMONY REGARDING A
6		SIZE ADJUSTMENT?
7	А.	Mr. D'Ascendis claims that smaller companies face increased risk due to smaller
8		size; therefore, a size adjustment should be considered in the allowed rate of return
9		on common equity (Suez Statement No. 5R, p. 21).
10		He states that his study uses data from the exchanges, viz., the New York
11		Stock Exchange (NYSE), the American Stock Exchange (AMEX), and the
12		National Association of Security Dealers Automated Quotation System
13		(NASDAQ), and since all utility companies are traded on one of these exchanges,
14		his size adjustment study includes utilities. Mr. D'Ascendis claims that the Fama
15		and French study confirms that size is a risk factor that should be taken into
16		consideration and references articles by Dr. Thomas Zepp and by Michael A.
17		Paschall, ASA, CFA and George B. Hawkins, ASA, CFA to confirm the existence
18		of a size effect (Suez Statement No. 5R, pp. 22-26).

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Q. DOES THE INCLUSION OF UTILITIES IN THE NYSE, AMEX, AND NASDAQ CAUSE STUDIES ON COMPANY SIZE TO BE SPECIFIC TO THE UTILITY INDUSTRY?

A. No. The NYSE alone contains approximately 2,800 companies (approximately
275 of which are classified as public utility companies) while the utility proxy
group used by Mr. D'Ascendis and me contains six companies. Mr. D'Ascendis'
implication that because the NYSE, AMEX, and NASDAQ include utilities, the
size effect studies based on those indexes are applicable to a utility company
ignores the fact that it is very unlikely for 275 companies to exhibit any great
influence on a study based on 2,800 companies.

11

12 Q. DOES THE FAMA/FRENCH STUDY REFUTE DR. WONG'S ARTICLE?

13 No. As discussed in I&E Statement No. 2, pp. 37-39, Dr. Wong's article presents A. 14 evidence that although a size effect may exist for industrial stocks, it does not exist 15 for utility stocks. As the Fama/French study is not specific to utility stocks, it does 16 not demonstrate that a size effect exists in the utility industry. In addition, the size 17 effect that exists for industrial stocks varies to such an extent that it is difficult to 18 predict. The difficulty in predicting the effect of size is demonstrated in the 19 variance from year to year of the measurement of the difference between the 20 annual returns on the large and small-capitalization stocks of the

1		NYSE/AMEX/NASDAQ in the Ibbotson Stocks, Bonds, Bills & Inflation: 2015
2		Yearbook. As stated on page 100 of the SBBI Yearbook,
3 4 5 6 7		While the largest stocks actually declined in 2001, the smallest stocks rose more than 30%. A more extreme case occurred in the depression-recovery year of 1933, when the difference between the first and 10th decile returns was far more substantial. The divergence in the performance of
8 9 10 11		small- and large- cap stocks is evident. In 30 of the 89 years since 1926, the difference between the total returns of the largest stocks (decile 1) and the smallest stocks (decile 10) has been greater than 25 percentage points.
12 13 14 15 16 17 18 19		Page 109 states, In four of the last 10 years, large-capitalization stocks (deciles 1-2 of NYSE/AMEX/NASDAQ) have outperformed small- capitalization stocks (deciles 9-10). This has led some market observers to speculate that there is no size premium. But statistical evidence suggests that periods of underperformance should be expected.
20		On page 112 under the heading "Small-Cap Returns Are Unpredictable,"
21		the SBBI yearbook states, "Because investors cannot predict when small-cap
22		returns will be higher than large-cap returns, it has been argued that they do not
23		expect higher rates of return for small stocks."
24		
25	Q.	DOES DR. ZEPP'S ARTICLE CONTRADICT DR. WONG'S ARTICLE?
26	A.	No. The article Mr. D'Ascendis references by Dr. Zepp does not recreate Dr.
27		Wong's study but instead speculates about other possible reasons for her results
28		and references the results of two other studies. The first study, completed by the
29		California Public Utility Commission's staff in 1991 is not included in the article

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1		and, therefore, Mr. Zepp's opinions cannot be properly evaluated. The second
2		study examines the effects of size on only four water utility companies and does
3		not contain enough evidence to refute Dr. Wong's findings. Dr. Wong's article
4		continues to provide the best evidence that a size adjustment is unnecessary in the
5		utility industry.
6		
7	Q.	DOES THE PASCHALL/HAWKINS ARTICLE SUPPORT MR.
8		D'ASCENDIS' SIZE PREMIUM?
9	А.	No. Again, the article is not specific to public utilities and therefore is
10		inapplicable in this situation. Furthermore, the article states,
11 12 13 14 15 16 17 18		There can be unusual circumstances where a small company has risk characteristics that make it far less risky than the average company, warranting the use of a very low equity risk premium. One possible example of this is a private water utility (monopoly situation, very low risk, near-guarantee of payments). The use of a size premium without consideration of the risk of the specific company may subject the appraisal to challenges and rejection on down the road. ⁸
19		Mr. D'Ascendis states that his determination of a size premium is based on the
20		size deciles of the NYSE, AMEX, and NASDAQ listed companies (Suez
21		Statement No. 5. p. 36) and is not. as the article warned against, based on
22		consideration of the risk of Suez.

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⁸ Paschall, ASA, CFA, M. A., & Hawkins, ASA, CFA, G B. (December 1999). *Do Smaller Companies Warrant a Higher Discount Rate for Risk?* Business Valuation Alert. Vol. 1, Issue No. 2.

1	Q.	WHAT IS YOUR RECOMMENDATION REGARDING MR.
2		D'ASCENDIS' PROPOSED SIZE ADJUSTMENT?
3	А.	I continue to recommend that his proposed 0.20% size adjustment to the Suez
4		indicated range of common equity cost rates be rejected.
5		
6	<u>OVE</u>	RALL RATE OF RETURN
7	Q.	HAS YOUR OVERALL RATE OF RETURN RECOMMENDATION
8		CHANGED FROM YOUR DIRECT TESTIMONY?
9	A.	No. I continue to support each recommendation made in I&E Statement No. 2.
10		
11	Q.	WHAT IS YOUR OVERALL RATE OF RETURN RECOMMENDATION?
12	A.	I recommend the overall rate of return for Suez Water Pennsylvania, Inc. as shown

13 in the table below:

Type of Capital	Ratio	Cost Rate	Weighted Cost
Long-Term Debt	45.82%	4.65%	2.13%
Common Equity	54.18%	9.13%	4.95%
Total	100.00%		7.08%

14

15 Q. DOES THIS CONCLUDE YOUR SURREBUTTAL TESTIMONY?

16 A. Yes.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION	:	
V.	:	Docket No. R-2018-3000834
SUEZ WATER PENNSYLVANIA, INC.	:	

WITNESS VERIFICATION THE BUREAU OF INVESTIGATION AND ENFORCEMENT

I, Ethan H. Cline, on behalf of the Bureau of Investigation and Enforcement, hereby verify that the documents preliminarily identified as:

were prepared by me or under my direct supervision and control. Furthermore, the facts contained therein are true and correct to the best of my knowledge, information and belief and I expect to be able to prove the same at an Evidentiary Hearing in this matter. This Verification is made subject to the penalties of 18 Pa. C.S. § 4904 relating to unsworn falsification to authorities.

I&E Statement No. 3 and 3-SR, and, I&E Exhibit No. 3 and 3-SR

Éthan H. Cline Pennsylvania Public Utility Commission Bureau of Investigation and Enforcement

Dated: September 10, 2018

I&E Statement No. 3-SR Witness: Ethan H. Cline

PENNSYLVANIA PUBLIC UTILITY COMMISSION

v.

SUEZ WATER PENNSYLVANIA, INC.

Docket Nos. R-2018-3000834

Surrebuttal Testimony

of

Ethan H. Cline

Bureau of Investigation and Enforcement

Concerning:

Test Year Average Rate Base FTY and FPFTY Reporting Present Rate Revenue Proposed Rate Revenue Customer Cost Analysis Customer Charges Scale Back of Rates

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1	Q.	WOULD YOU PLEASE STATE YOUR NAME AND BUSINESS
2		ADDRESS?
3	A.	My name is Ethan H. Cline. My business address is P.O. Box 3265, Harrisburg,
4		PA 17105-3265.
5		
6	Q.	ARE YOU THE SAME ETHAN H. CLINE THAT SUBMITTED I&E
7		STATEMENT NO. 3 AND I&E EXHIBIT NO. 3?
8	A.	Yes.
9		
10	Q.	ARE YOU THE SAME ETHAN H. CLINE THAT SUBMITTED I&E
11		STATEMENT NO. 3 AND I&E EXHIBIT NO. 3 ON JULY 20, 2018?
12	A.	Yes.
13		
14	Q.	WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?
15	А.	The purpose of my surrebuttal testimony is to address the rebuttal testimony
16		submitted by witness on behalf of SUEZ Water Pennsylvania, Inc. ("SWPA" or
17		"Company") John D. Hollenbach (SWPA St. No. 1R), Constance E. Heppenstall
18		(SWPA St. No. 2R), Paul R. Herbert (SWPA St. No. 6R), and John. J. Spanos
19		(SWPA St. No. 7-R).

1	Q.	DOES YOUR SURREBUTTAL TESTIMONY INCLUDE AN EXHIBIT?
2	А.	Yes. I&E Exhibit No. 3-SR contains schedules relating to my testimony.
3		
4		MAHONING TOWNSHIP WATER SYSTEM ACQUISITION
5	Q.	PLEASE DESCRIBE THE MAHONING TOWNSHIP WATER SYSTEM
6		ACQUISITION AND THE RELATED BASE RATE CLAIMS.
7	A.	The Mahoning Township Water System ("MTWS") is a water and wastewater
8		system that the Company is attempting to acquire, for an agreed upon purchase
9		price of \$9.5 million (SWPA St. No. 1, p. 25). The Company proposed in SWPA
10		Statement No. 1 to include 60% of the \$9.5 million ¹ purchase price in rate base,
11		though the Company may adjust the claim based on the appraisals (SWPA St. No.
12		1, p. 25), O&M expenses, and an increase of 1,200 customers in the present filing
13		as a result of the potential acquisition of the MTWS.
14		
15	Q.	DID YOU AGREE WITH THE COMPANY'S PROPOSAL TO INCLUDE
16		THE COSTS ASSOCIATED WITH THE ACQUISITION OF THE MTWS
17		IN THE PRESENT PROCEEDING?
18	А.	No. I did not agree with the Company's proposal to include the costs associated
19		with the MTWS in the present proceeding (I&E St. No. 3, p. 3). Therefore, I

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¹ Per the Company's response to OCA-IV-23, attached as I&E Exhibit No. 3, Schedule 5, \$5.8 million is the portion of purchase price the Company is claiming in rate base.

1		recommended that the inclusion of the MTWS in the current base rate proceeding
2		be denied and that all associated costs, expenses, and revenues be removed (I&E
3		St. No. 3, pp. 8-9).
4		
5	Q.	DID THE COMPANY ADDRESS THE PROPOSED MAHONING
6		TOWNSHIP ACQUISITION IN ITS REBUTTAL TESTIMONY?
7	A.	Yes. On page 2 of SWPA Statement No. 1R, the Company stated that "due to the
8		concerns expressed in this proceeding by the Office of Consumer Advocate and
9		the Bureau of Investigation and Enforcement, SWPA is removing any claim for
10		the Mahoning Water System from this case."
11		
12	Q.	DO YOU WISH TO WITHDRAW YOUR RECOMMENDATIONS
13		CONCERNING THE MTWS?
14	А.	Yes. As described below, I would like to withdraw my recommendation regarding
15		the removal of the MTWS and accept the respective adjustments proposed by the
16		Company in rebuttal testimony as described below.
17		
18		AVERAGE RATE BASE METHODOLOGY
19	Q.	WHAT DID YOU RECOMMEND REGARDING THE AVERAGE RATE
20		BASE METHODOLOGY?
21	А.	I recommended that SWPA's FPFTY year-end rate base amount of
22		\$1,954,910,000 be rejected and instead recommended a rate base amount of

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1		\$1,899,412,000 based on my recommended use of an average rate base
2		methodology (I&E St. No. 3, p. 42).
3		
4	Q.	DID THE COMPANY RESPOND TO YOUR RECOMMENDATION
5		REGARDING THE USE OF AN AVERAGE RATE BASE
6		METHODOLOGY?
7	А.	Yes. The Company disagreed with my recommended use of the average rate base
8		methodology and witness Heppenstall stated on page 12 of SWPA Statement
9		No. 2R that she is "advised by counsel that Section 315 states that the Commission
10		may permit facilities which are projected to be in service during the fully projected
11		future test year to be included in the rate base."
12		
13	Q.	DO YOU AGREE THAT THE REFERENCES PROVIDED BY WITNESS
14		HEPPENSTALL DEFINITIVELY STATE THAT THE AVERAGE RATE
15		BASE METHODOLOGY IS NOT ACCEPTABLE?
16	А.	The referenced materials are silent on this point. While the language of Act 11, as
17		referenced by the Company, does permit inclusion of plant proposed to be placed
18		into service throughout the FPFTY to be included in rates, it does not indicate a
19		specific or preferred methodology for recovery in rates. I do believe that the
20		average rate base methodology is a more reasonable method for determining rate
21		base in the FPFTY as I stated on pages 13-17 of 1&E Statement No. 3.

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UTILITY PLANT-IN-SERVICE

2 Q. WHAT DID YOU RECOMMEND REGARDING UTILITY PLANT-IN3 SERVICE?

4	A.	First, I recommended the utility plant-in-service related to the proposed MTWS
5		acquisition be rejected (I&E St. No. 3, p. 21). Second, as I stated on page 22 of
6		I&E Statement No. 3, I recommend that SWPA's FPFTY year-end utility plant-in-
7		service claim not be reflected in rate base. Rather, I recommended a utility plant-
8		in-service amount of \$385,642,008 be reflected in rate base (I&E Ex. No. 3,
9		Sch. 1, col. H, line 10). I based my recommendation on the use of an average rate
10		base methodology rather than the year-end rate base contained in the Company's
11		filing as well as several adjustments to the Company's claimed utility plant-in-
12		service as discussed below.
13		
14	Q.	DID THE COMPANY AGREE WITH YOUR RECOMMENDATIONS?
15	A.	As discussed above, the Company agreed to remove the MTWS from its utility
16		plant-in-service claim in the FTY and FPFTY. SWPA Exhibits Rebuttal JJS-1
17		and Rebuttal JJS-2 provide the calculation of the utility plant-in-service,
18		accumulated depreciation, depreciation rates, and annual depreciation expense
19		for the FTY and FPFTY, respectively, excluding the MTWS. The Company's
20		adjusted original cost utility plant in service, as shown on SWPA Exhibit No.
20		
20 21		CEH-1-R, Schedule 1.1 is \$361,574,023 for the FTY and \$403,249,792 for

1	Q.	DO YOU ACCEPT THE COMPANY'S RECALCULATION OF THE END
2		OF YEAR FTY AND FPFTY UTILITY PLANT-IN-SERVICE AMOUNTS?
3	А.	Yes. The recommendation that I provided in I&E Statement No. 3 was an
4		estimation based on the information available at the time. Though the Company
5		did not provide any explanation for why certain plant accounts increased with the
6		removal of the MTWS, I accept the Company's adjusted utility plant-in-service
7		amounts because it is reasonable to assume that the Company has more accurate
8		data regarding the MTWS. Therefore, I will adjust my recommended FPFTY
9		utility plant-in-service calculation using the average rate base methodology using
10		the Company's updated FTY and FPFTY adjusted utility plant-in-service data.
11		
12	Q.	DO YOU WISH TO CHANGE YOUR RECOMMENDATION TO
12 13	Q.	DO YOU WISH TO CHANGE YOUR RECOMMENDATION TO REFLECT ONLY AVERAGE PLANT IN SERVICE?
	Q. A.	
13		REFLECT ONLY AVERAGE PLANT IN SERVICE?
13 14		REFLECT ONLY AVERAGE PLANT IN SERVICE? Yes. As I described above, based on the utility plant-in-service data provided by
13 14 15		REFLECT ONLY AVERAGE PLANT IN SERVICE? Yes. As I described above, based on the utility plant-in-service data provided by the Company that excludes the MTWS plant-in-service, I recalculated my
13 14 15 16		REFLECT ONLY AVERAGE PLANT IN SERVICE? Yes. As I described above, based on the utility plant-in-service data provided by the Company that excludes the MTWS plant-in-service, I recalculated my recommended average utility plant-in-service. As shown on I&E Exhibit No. 3-
13 14 15 16 17		REFLECT ONLY AVERAGE PLANT IN SERVICE? Yes. As I described above, based on the utility plant-in-service data provided by the Company that excludes the MTWS plant-in-service, I recalculated my recommended average utility plant-in-service. As shown on I&E Exhibit No. 3- SR, Schedule 1, line 10, col. H, my recommended utility plant-in-service for the
 13 14 15 16 17 18 		REFLECT ONLY AVERAGE PLANT IN SERVICE? Yes. As I described above, based on the utility plant-in-service data provided by the Company that excludes the MTWS plant-in-service, I recalculated my recommended average utility plant-in-service. As shown on I&E Exhibit No. 3- SR, Schedule 1, line 10, col. H, my recommended utility plant-in-service for the FPFTY based on the average rate base methodology is \$382,411,908

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ANNUAL DEPRECIATION EXPENSE

2 Q. WHAT DID YOU RECOMMEND REGARDING ANNUAL

3 DEPRECIATION EXPENSE?

4 A. First, consistent with my recommended removal of the Company's plant-in-5 service related to the MTWS, the annual depreciation expense must necessarily 6 also be adjusted. Therefore, I recommend that the Company's annual depreciation 7 expense claim in the FPFTY be reduced by \$107,323 from \$8,724,603 to 8 \$8,617,280 (I&E St. No. 3, p. 24). Second, based on my use of average rate base methodology and my FPFTY annual depreciation expense adjustments regarding 9 10 the MTWS, discussed above, I recommend an annual depreciation expense of 11 \$8,391,033 be reflected in this case, which represents a decrease of \$331,929 to 12 the Company's annual depreciation expense claim (\$8,722,962 - \$8,391,033) 13 (I&E St. No. 3, p. 24). 14 15 **O**. DID THE COMPANY ADJUST ITS CLAIM FOR ANNUAL 16 **DEPRECIATION EXPENSE BASED ON THE REMOVAL OF THE** 17 MTWS? 18 Yes. Witness Spanos states that the annual depreciation expense could be Α. 19 "approximated by applying the appropriate depreciation rates to the average of the 20 beginning of the year and end of the year plant in service balances for the 21 FPFTY." (SWPA St. No. 7-R. p. 2). Witness Spanos also adjusted the end-of-year 22 annual depreciation expense for the FPFTY based on the removal of the MTWS

1		system, which results in a reduction of approximately \$107,500 in depreciation
2		expense (SWPA St. No. 7-R, p. 3).
3		
4	Q.	DID THE COMPANY AGREE WITH YOUR RECOMMENDED
5		CALCULATION OF THE ANNUAL DEPRECIATION EXPENSE?
6	A.	No. Witness Spanos disagreed both with the use of the average rate base
7		methodology in general and with my proposed calculation of annual depreciation
8		expense based on that methodology (SWPA St. No. 7-R, p. 2).
9		
10	Q.	WOULD YOU LIKE TO CHANGE YOUR RECOMMENDATION TO
11		REFLECT ONLY AVERAGE ANNUAL DEPRECIATION EXPENSE?
12	А.	I continue to recommend the use of the average rate base methodology as
13		discussed in my direct testimony and above. However, based on the testimony
14		provided by witness Spanos, I recalculated my average annual depreciation
15		expense by taking an average of each adjusted plant account in the FTY and
16		FPFTY and multiplying that average by the respective depreciation rate for the
17		FPFTY as shown on I&E Exhibit No. 3-SR, Schedule 2. That number, less the
18		depreciation on CIAC / Advances of \$950,910 provides the total annual
19		depreciation expense claim. The result is a reduction of \$486,835 of the
20		Company's revised annual depreciation expense described in rebuttal of
21		\$8,615,461 to \$8.128,626 (I&E Ex. No. 3-SR, Sch. 3).

•

ACCUMULATED DEPRECIATION

2 Q. WHAT DID YOU RECOMMEND REGARDING ACCUMULATED 3 DEPRECIATION?

4	A.	First, I recommended the Company's accumulated depreciation in the FPFTY be
5		decreased by \$798,576 from \$85,360,943 to \$84,562,367 in order to remove the
6		accumulated depreciation associated with MTWS plant (I&E St. No. 3, p. 25).
7		Second, based on my use of average rate base methodology and my accumulated
8		depreciation adjustment regarding the MTWS, I recommended an accumulated

- 9 depreciation of \$81,589,693 be reflected in this case (I&E St. No. 3, p. 26).
- 10

11 Q. DID THE COMPANY PROVIDE AN ADJUSTMENT TO IS

12 ACCUMULATED DEPRECIATION CLAIM TO REFLECT THE

13 **REMOVAL OF THE MTWS?**

A. Yes. SWPA Exhibits Rebuttal JJS-1 and Rebuttal JJS-2 provide the calculation of
the accumulated depreciation for the FTY and FPFTY, respectively, excluding the
MTWS. The Company's adjusted accumulated depreciation, as shown on SWPA
Exhibit No. CEH-1-R, Schedule 1.1 is \$78,561,485 for the FTY and \$85,189,362
for the FPFTY.

20	Q.	DO YOU ACCEPT THE COMPANY'S RECALCULATION OF THE END
21		OF YEAR FTY AND FPFTY UTILITY PLANT-IN-SERVICE AMOUNTS?

1	А.	Yes. The recommendation that I provided in I&E Statement No. 3 was an
2		estimation based on the information available at the time. Though the Company
3		did not provide any explanation for why certain plant accounts increased with the
4		removal of the MTWS, I accept the Company's adjusted utility plant-in-service
5		amounts because it is reasonable to assume that the Company has more accurate
6		data regarding the MTWS. Therefore, I will adjust my recommended FPFTY
7		utility plant-in-service calculation using the average rate base methodology using
8		the Company's updated FTY and FPFTY adjusted utility plant-in-service data.
9		
10	Q.	DO YOU WISH TO CHANGE YOUR RECOMMENDATION TO
11		REFLECT ONLY AVERAGE ACCUMULATED DEPRECIATION?
11 12	A.	REFLECT ONLY AVERAGE ACCUMULATED DEPRECIATION? Yes. As I described above, based on the accumulated depreciation data provided
	A.	
12	A.	Yes. As I described above, based on the accumulated depreciation data provided
12 13	A.	Yes. As I described above, based on the accumulated depreciation data provided by the Company that excludes the MTWS accumulated depreciation, I
12 13 14	A.	Yes. As I described above, based on the accumulated depreciation data provided by the Company that excludes the MTWS accumulated depreciation, I recalculated my recommended average accumulated depreciation. As shown on
12 13 14 15	A.	Yes. As I described above, based on the accumulated depreciation data provided by the Company that excludes the MTWS accumulated depreciation, I recalculated my recommended average accumulated depreciation. As shown on I&E Exhibit No. 3-SR, Schedule 1, line 11, col. H, my recommended utility plant-
12 13 14 15 16	A.	Yes. As I described above, based on the accumulated depreciation data provided by the Company that excludes the MTWS accumulated depreciation, I recalculated my recommended average accumulated depreciation. As shown on I&E Exhibit No. 3-SR, Schedule 1, line 11, col. H, my recommended utility plant- in-service for the FPFTY based on the average rate base methodology is
12 13 14 15 16 17	A.	Yes. As I described above, based on the accumulated depreciation data provided by the Company that excludes the MTWS accumulated depreciation, I recalculated my recommended average accumulated depreciation. As shown on I&E Exhibit No. 3-SR, Schedule 1, line 11, col. H, my recommended utility plant- in-service for the FPFTY based on the average rate base methodology is \$81,875,424 ((\$78,561,485 + \$85,189,362) / 2). This represents a reduction of

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MATERIALS AND SUPPLIES

2 Q. WHAT DID YOU RECOMMEND REGARDING MATERIALS AND 3 SUPPLIES?

- A. I recommended the Company's \$481,594 jurisdictional claimed level of Materials
 and Supplies be increased by \$19,474 to \$501,067 (I&E St. No. 3, p. 29).
- 6

7 Q. HOW DID YOU DETERMINE YOUR RECOMMENDED LEVEL OF

8

MATERIALS AND SUPPLIES?

- 9 A. I updated the thirteen-month average balances of materials and supplies to account
- 10 for the additional actual balances provided by the Company in its responses to
- 11 I&E-RB-9 (supplemented on June 26, 2018), attached as I&E Exhibit No. 3,
- 12 Schedule 8. This update results in a total Company 12-month average material
- 13 supplies level of \$501,067 (I&E St. No. 3, p. 29).
- 14
- 15 Q. DID THE COMPANY RESPOND TO YOUR MATERIALS AND
- 16 SUPPLIES RECOMMENDATION?

17 A. No. However, the materials and supplies claim presented in the Company's

- 18 rebuttal exhibit SWPA Exhibit No. CEH- has not been adjusted from what the
- 19 Company claimed in its original filing. Therefore, I will assume that the Company
- 20 rejected my recommendation.

1	Q.	DO YOU WISH TO CHANGE YOUR RECOMMENDATION?
2	А.	No. I continue to recommend a materials and supplies level in the FPFTY of
3		\$501,067 (I&E Ex. No. 3-SR, Sch. 1, line 16).
4		
5		DEFERRED TAXES
6	Q.	WHAT AMOUNT OF DEFERRED TAXES DID THE COMPANY CLAIM
7		IN THE FTY AND FPFTY?
8	A.	The Company's claim for Deferred Taxes is \$18,237,542 in the FTY and
9		\$18,810,736 in the FPFTY (SWPA Ex. No. CEH-1, Sch. 4.1).
10		
11	Q.	DID THE COMPANY MAKE ANY ADJUSTMENTS TO ITS DEFERRED
12		TAXES CLAIM IN REBUTTAL TESTIMONY?
13	A.	Yes. As shown on SWPA Exhibit No. CEH-1-R, Schedule 1.1, the Company
14		separated the Tax Cut and Jobs Act ("TCJA") regulatory liability from the
15		Deferred Taxes claim in the FTY and FPFTY.
16		
17	Q.	WHAT DID YOU RECOMMEND REGARDING THE COMPANY'S
18		CLAIM FOR DEFERRED TAXES?
19	А.	Based on the average rate base methodology, I recommended a \$18,524,139 level
20		of Deferred Taxes. This was determined by taking the average of the Company's
21		Deferred Taxes claim for the FTY and the Company's Deferred Taxes claim for
22		the FPFTY (1&E St. No. 3. p. 30).

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Q. DO YOU WISH TO CHANGE YOUR RECOMMENDATION

2 **REGARDING DEFERRED TAXES?**

3	A.	Yes. I recommend that only the deferred taxes be calculated using the average
4		rate base methodology. My recommended \$8,398,470 level of deferred taxes was
5		calculated by taking the average of the Company's rebuttal deferred taxes claims
6		in the FTY and FPFTY ((\$8,086,056 + \$8,710,883) / 2 = \$8,398,470). Therefore,
7		my recommended deferred taxes level in the FPFTY is a reduction of \$312,414
8		from the Company's adjusted deferred taxes of \$8,710,883 to \$8,398,470 (I&E
9		Ex. No. 3-SR, Sch. 1, line 14, col. H).
10		
11		FTY AND FPFTY REPORTING
12	Q.	WHAT DID YOU RECOMMEND REGARDING REPORTING FTY AND
13		FPFTY PLANT ADDITIONS?
14	A.	I recommended that the Company provide the Commission's Bureaus of Technical
15		Utility Services and Investigation and Enforcement with an update to SWPA
16		Exhibit No. JDH-1, no later than April 1, 2019, which should include actual
17		capital expenditures, plant additions, and retirements by month from January 1,
18		2017 through December 31, 2018 and an additional update for actuals from
19		January 1, 2019 through December 31, 2019, no later than April 1, 2020.

1	Q.	DID THE COMPANY RESPOND TO YOUR RECOMMENDATION?
2	A.	No. Therefore, I will assume the Company has accepted my recommendation
3		regarding reporting for FTY and FPFTY plant additions.
4		
5		PRESENT RATE REVENUE
6	Q.	DID THE COMPANY ADJUST ITS PRESENT RATE REVENUES CLAIM
7		TO ACCOUNT FOR THE REMOVAL OF THE MTWS?
8	A.	Yes. The Company stated it will reduce its present rate revenues by \$712,877 by
9		eliminating the adjustment for the MTWS acquisition revenues (SWPA St. No. 2-
10		R, p. 2) from \$47,382,250. The result is an adjusted total present rate revenue
11		level claim of \$46,722,995 (SWPA Exhibit No. CEH-1-R, Schedule 1, line 1,
12		col. 8).
13		
14	Q.	DO YOU AGREE WITH THE COMPANY'S ADJUSTMENT?
15	А.	Yes.
16		
17	Q.	WHAT DID YOU RECOMMEND REGARDING THE COMPANY'S
18		CLAIMED PRESENT RATE REVENUE?
19	А.	I recommended the Company's present rate revenue level be decreased by
20		\$655.983 from \$47,382,250 to \$46.320,657 based on using a consistent average
21		methodology (I&E St. No. 3. pp. 35-36).

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1	Q.	DID THE COMPANY AGREE WITH YOUR RECOMMENDED
2		ADJUSTMENT TO PRESENT RATE REVENUE TO BE CONSISTENT
3		WITH THE AVERAGE RATE BASE METHODOLOGY.
4	A.	No. The Company proposed that the average rate base methodology be rejected as
5		a whole, as discussed above, which would include the adjustments to present rate
6		revenue.
7		
8	Q.	DO YOU WISH TO CHANGE YOUR RECOMMENDATION?
9	A.	No. I continue to recommend the present rate revenue level of \$46,320,657. This
10		is a reduction of \$402,338 from the Company's revised present rate revenue level
11		\$46,722,995 to \$46,320,657.
12		
13		REVENUE UNDER PROPOSED RATES
14	Q.	DID THE COMPANY ADJUST ITS PRESENT RATE REVENUES CLAIM
15		TO ACCOUNT FOR THE REMOVAL OF THE MTWS?
16	А.	Yes. The Company stated it will reduce its present rate revenues by \$712,877 by
17		eliminating the adjustment for the MTWS acquisition revenues (SWPA St. No.
18		2-R. p. 2).
19		
20	Q.	DO YOU AGREE WITH THE COMPANY'S ADJUSTMENT?
21	A.	Yes.

1	Q.	WHAT DID YOU RECOMMEND REGARDING THE COMPANY'S
2		CLAIMED PRESENT RATE REVENUE?
3	A.	I recommended the Company's total proposed rate revenue be reduced by
4		\$846,091 from \$53,618,655 to \$52,722,563 (I&E St. No. 3, p. 41).
5		
6	Q.	DID THE COMPANY AGREE WITH YOUR RECOMMENDED
7		ADJUSTMENT TO PROPOSED RATE REVENUE TO BE CONSISTENT
8		WITH THE AVERAGE RATE BASE METHODOLOGY.
9	A.	No. The Company proposed that the average rate base methodology be rejected as
10		a whole, as discussed above, which would include the adjustments to proposed
11		rate revenue.
12		
13	Q.	DO YOU WISH TO CHANGE YOUR RECOMMENDATION?
14	А.	No. I continue to recommend that proposed rate revenues be calculated using the
15		number of bills and consumption adjusted for the average rate base methodology
16		as I described on page 42 of I&E Statement No. 3.
17		
18		CUSTOMER COST ANALYSIS
19	Q.	WHAT DID YOU RECOMMEND REGARDING THE COMPANY'S
20		CUSTOMER COST ANALYSIS?
21	А.	I recommended that the following cost accounts be removed from SWPA's
22		customer cost analysis: (1) Operation and Maintenance Expenses: T&D Labor –

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1		Maintenance – Employee Salaries – Structures and Improvements, (2)
2		Transportation Expense, (3) Worker's Compensation, (4) Management Fees –
3		Employee Related, (5) Management Fees – Customer Related, and (6) a part of the
4		Total Customer Accounting Expense (I&E Ex. No. 3, Sch. 18). Additionally, the
5		costs that are a part of the Total Customer Accounting Expense that should not be
6		included in the customer cost analysis because they are not direct customer costs
7		are as follows: Fuel for Power Production, Rental of Equipment, Bad Debt
8		Expense, Miscellaneous Other, Office Expenses, and Utilities and Other. (I&E
9		Exhibit No. 3, Schedule 13, I&E St. No. 3, pp. 45-46). I also recommended a total
10		customer cost and public fire monthly cost per 5/8-inch meter, as a result from my
11		recommended customer cost analysis, of \$14.01, which is a reduction of \$0.95
12		from the Company's unit cost per customer of \$14.96 (I&E St. No. 3, p. 46).
13		
14	Q.	WHY DID YOU RECOMMEND THE ABOVE COSTS NOT BE
15		INCLUDED IN THE CUSTOMER COST ANALYSIS?
16	A.	As I stated on page 46 of I&E Statement No. 3, these costs do not change with the
17		addition or subtraction of a single customer and, therefore, should not be included
18		in the calculation of the customer charge.
19		
20	Q.	DID THE COMPANY AGREE WITH YOUR RECOMMENDATION
21		REGARDING THE CUSTOMER COST ANALYSIS?
22	A.	No.

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Q. WHY DID THE COMPANY NOT AGREE WITH YOUR

2 **RECOMMENDED CUSTOMER COST ANALYSIS?**

3 A. The Company did not agree with my recommended customer cost analysis for 4 several reasons. First, witness Herbert stated that bad debt was allocated to 5 customer classes based on the number of customers because the level of 6 uncollectible accounts varies with the number of customers and not usage (SWPA 7 St. No. 6-R, p. 4). Second, witness Herbert did not agree with my customer cost 8 analysis because he believes that his proposed customer charges also considered 9 the fully allocated customer cost analysis (SWPA St. No. 6-R, p. 5). Third, 10 witness Herbert disagreed with my recommended exclusion of the costs as 11 described above (SWPA St. No. 6-R, pp. 7-11). Fourth, witness Herbert disagreed 12 with my recommendation regarding the public fire customer charge (SWPA St. 13 No. 6-R, pp. 7-8). 14 15 **Q**. WHAT REASONS DOES WITNESS HERBERT PROVIDE FOR NOT 16 AGREEING WITH YOUR RECOMMENDED EXCLUSION OF THE BAD 17 **DEBT EXPENSE FROM YOUR CUSTOMER COST ANALYSIS?** 18 Witness Herbert states that bad expense was allocated to customer classes based Α. 19 on the number of customers because the level of uncollectible accounts varies with 20 the number of customers and not usage (SWPA St. No. 6-R, p. 4). Additionally, 21 witness Herbert states that recovering this expense 100% through the usage rate is

a total disconnect for how such costs are incurred (SWPA St. No. 6-R. pp. 4-5).

Q. DO YOU AGREE WITH WITNESS HERBERT'S ASSESSMENT OF BAD DEBT EXPENSES?

3 No. I do not agree with witness Herbert's assessment of bad debt expense. Bad Α. 4 debt expense is designed to recover lost revenue generated from customers who do 5 not pay their bill. I disagree that the level of bad debt varies with the number of 6 customers and not usage. Most customers do not cause the Company to incur bad 7 debt expense each month and so, the addition or subtraction of a single customer is 8 not likely to influence the level of bad debt expense. For those customers who do 9 cause the Company to incur uncollectible expenses each month, the expense is 10 generated from the entire bill, not simply from the customer charge. As such, 11 customer with higher usage that does not pay their bill would generate more bad 12 debt expense than a customer with lower usage. Therefore, contrary to witness 13 Herbert's testimony, it is not a "total disconnect" for how bad debt costs are 14 incurred.

15

16 Q. WHAT SUPPORT DOES MR. HERBERT PROVIDE FOR HIS

17 **RECOMMENDATION REGARDING A FULLY ALLOCATED**

18 CUSTOMER COST ANALYSIS?

A. Mr. Herbert references the AWWA M1 Manual² and included tables from the
 AWWA M1 Manual as support for his recommendation regarding a fully allocated

² AWWA Manual of Water Supply Practices M1 Principles of Water Rates, Fees. Charges. Seventh Edition.

1		customer cost analysis and also states that there is no mention in the M1 Manual
2		of using only direct customer costs for the purposes of calculation the customer
3		charges (SWPA St. No. 6-R, pp. 5-6). He also states that administrative and
4		general costs are fixed costs supporting the entire operation that do not vary based
5		on the amount of water consumed and should, therefore, be included in the
6		customer charge (SWPA St. No. 6-R, p. 6). Witness Herbert also states on page 6
7		of SWPA St. No. 6-R, p. 6) that "[w]ith consumption charges exceeding \$9 per
8		thousand gallons, however, there will be and always has been a price signal for
9		customers to conserve and the Company has certainly experienced such decreases
10		in usage over the last several years."
11		
* *		
12	Q.	DO YOU AGREE WITH MR. HERBERT'S RECOMMENDATION?
	Q. A.	DO YOU AGREE WITH MR. HERBERT'S RECOMMENDATION? No. First, I disagree because, as he has stated in his rebuttal testimony, the
12		
12 13		No. First, I disagree because, as he has stated in his rebuttal testimony, the
12 13 14		No. First, I disagree because, as he has stated in his rebuttal testimony, the Commission has allocated costs to the customer charge based on whether they are
12 13 14 15		No. First, I disagree because, as he has stated in his rebuttal testimony, the Commission has allocated costs to the customer charge based on whether they are direct customer costs with some indirect costs included. I do not believe it
12 13 14 15 16		No. First, I disagree because, as he has stated in his rebuttal testimony, the Commission has allocated costs to the customer charge based on whether they are direct customer costs with some indirect costs included. I do not believe it reasonable to suddenly change this practice in order to provide more guaranteed
12 13 14 15 16 17		No. First, I disagree because, as he has stated in his rebuttal testimony, the Commission has allocated costs to the customer charge based on whether they are direct customer costs with some indirect costs included. I do not believe it reasonable to suddenly change this practice in order to provide more guaranteed revenue to the Company at the expense of customers. Second, I disagree that the
12 13 14 15 16 17 18		No. First, I disagree because, as he has stated in his rebuttal testimony, the Commission has allocated costs to the customer charge based on whether they are direct customer costs with some indirect costs included. I do not believe it reasonable to suddenly change this practice in order to provide more guaranteed revenue to the Company at the expense of customers. Second, I disagree that the

1	А.	I do not agree that the AWWA M1 Manual fully supports Mr. Herbert's position
2		because he includes costs in his customer cost analysis that are not shown on the
3		AWWA M1 Manual tables that were provided by Mr. Herbert as SWPA Exhibit
4		6-R-2. These costs include, but may not be limited to Transportation costs,
5		Management Fees, Office Buildings, Office Furniture and Equipment, and
6		Computer Software. Additionally, on page 151 of the AWWA M1 Manual, it
7		states that it is "common practice in the water industry to recover such costs, even
8		those defined as fixed in traditional cost accounting terms, through a consumption
9		charge that varies with the customer's consumption." Therefore, despite the
10		example of the tables, I disagree that the AWWA M1 Manual asserts that a fully
11		allocated cost analysis is recommended or preferable. Therefore, Mr. Herbert's
12		recommendation for the Commission to consider the fully allocated cost analysis
13		in this case, and in future cases, should be rejected.
14		
15	Q.	WHAT REASON DOES MR. HERBERT PROVIDE FOR DISAGREEING
16		WITH YOUR DIRECT CUSTOMER COST RATIONALE FOR
17		EXCLUDING CERTAIN ADMINISTRATIVE AND GENERAL COSTS?
18	А.	Mr. Herbert states that "[a]dministrative and general costs are fixed costs
19		supporting the entire operation that do not vary based on the amount of water
20		consumed. So, if none of the administrative and general costs are allocated to
21		customer related functions, then 100% of these costs will be allocated to
22		consumption charges, which is not logical." (SWPA St. No. 6-R. p. 6).

1	Q.	DO YOU AGREE WITH MR. HERBERT THAT ADMINISTRATIVE AND
2		GENERAL COSTS ARE DIRECT CUSTOMER COSTS BECAUSE THEY
3		ARE RELATED TO THE NUMBER OF CUSTOMERS THAT NEED TO
4		BE SERVED?
5	А.	No. As a water utility, SWPA's entire business is based around serving
6		customers. While the administrative and general costs are indirectly related to the
7		number of customers that need to be served, the total administrative and general
8		costs do not vary by customer. As an example, if the Company gains a customer,
9		it will not need to increase the total cost of management fees or worker's
10		compensation. Therefore, these costs are not direct costs and should not be
11		included in a customer cost analysis.
12		
13	Q.	DOES MR. HERBERT AGREE WITH THE COSTS YOU
14		RECOMMENDED BE EXCLUDED FROM THE DIRECT CUSTOMER
15		COST ANALYSIS?
16	А.	No. Mr. Herbert disagrees with my recommended exclusion of the salaries for
17		maintaining transmission and distribution ("T&D") structures and improvements,
18		management fees associated with customer service and human resources,
19		transportation expense, and worker's compensation (SWPA St. No. 6-R, p. 8). On
20		pages 8-9 of SWPA Statement No. 6-R. pp. 8-9, Mr. Herbert addresses the reasons
21		for why each cost should be included in the direct customer cost analysis.

1	Q.	WHAT SUPPORT FOR INCLUDING MANAGEMENTS FEES
2		ASSOCIATED WITH CUSTOMER SERVICE AND HUMAN RESOURCES
3		IN THE CUSTOMER COST ANALYSIS DOES MR. HERBERT
4		PROVIDE?

5 Α. Mr. Herbert states on pages 8-9 of SWPA Statement No. 6-R that the 6 managements fees that are customer related are those allocated from shared 7 services for various functions. Specifically, the customer service management 8 fees are associated with Customer Service Administration or Customer Care which 9 provides guidance, training, control and management reporting for the Customer 10 Service process and standardizes customer service practices throughout the SUEZ 11 Water regulated business units. Additionally, Mr. Herbert states that the employee 12 related management fees are those shared services that address human resource 13 expenses.

14

Q. DO YOU AGREE THAT CUSTOMER RELATED AND EMPLOYEE
 RELATED MANAGEMENT FEES SHOULD BE INCLUDED IN THE
 CUSTOMER COST ANALYSIS?

A. No. The management fees described by Mr. Herbert are only tangentially related
to customer service. The costs for employee salaries and supervision are already
included in the customer charge. I do not agree that the costs for human resources
or training are direct customer costs as they do not change with the addition or
subtraction of a single customer, nor do they directly interact with customers.

1		Therefore, I continue to recommend management fees be excluded from the
2		customer cost analysis.
3		
4	Q.	WHAT DOES MR. HERBERT STATE IN HIS REBUTTAL TESTIMONY
5		TO SUPPORT HIS POSITION THAT T&D EMPLOYEE SALARIES -
6		STRUCTURES AND IMPROVEMENTS QUALIFY AS A DIRECT
7		CUSTOMER COST?
8	А.	On page 8 of SWPA Statement No. 6-R, Mr. Herbert states that the salaries for
9		maintaining T&D structures and improvements are required since the T&D
10		structures and improvements is where T&D field service employees, meter
11		readers, and customer service personnel report and work from.
12		
13	Q.	DO YOU AGREE THAT THE T&D EMPLOYEE SALARIES –
14		STRUCTURES AND IMPROVEMENTS QUALIFY AS A DIRECT
15		CUSTOMER COST?
16	А.	No. The salaries for the employees who actually are involved with customer
17		service lines, meter reading, and responding to general customer services inquiries
18		are allocated under the Employee Salaries – Meters and Employee Salaries –
19		Services cost accounts and are properly included in a customer cost analysis. The
20		salaries for the employees who maintain the building that the above-mentioned
21		customers work in, based on Mr. Herbert's description, do not interact with
22		customers in any way. This cost would not change with the addition or

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1		subtraction of any customers and, therefore, is an indirect cost that should not be
2		included in a customer cost analysis.
3		
4	Q.	WHAT SUPPORT DOES MR. HERBERT PROVIDE TO SUPPORT HIS
5		POSITION THAT WORKERS' COMPENSATION QUALIFIES AS A
6		DIRECT CUSTOMER COST?
7	A.	Mr. Herbert does not provide any additional support. He merely states that
8		"[a]nother employee related expense is workmens' compensation insurance. A
9		portion of this expense is appropriately allocated to customer-related costs, again
10		similar to how payroll taxes are allocated." (SWPA St. No. 6-R, p. 9).
11		
12	Q.	DID MR. HERBERT PROVIDE SUFFICIENT SUPPORT FOR HIS
13		PROPOSAL TO INCLUDE WORKERS' COMPENSATION AS A DIRECT
14		CUSTOMER COST?
15	А.	No. While workers' compensation is employee related, it does not affect every
16		employee, unlike payroll tax. Therefore, it should not be included as a direct
17		customer cost.
18		
19	Q.	DID MR. HERBERT PROVIDE AN EXPLANATION FOR THE
20		TRANSPORTATION EXPENSE?

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1	А.	Yes. Mr. Herbert states that the Transportation Expenses are for vehicles that
2		T&D field service employees and meter readers use to perform their jobs (SWPA
3		St. No. 6-R, p. 9).
4		
5	Q.	DO YOU AGREE WITH MR. HERBERT THAT THE
6		TRANSPORTATION EXPENSE ASSOCIATED WITH T&D FIELD
7		SERVICE EMPLOYEES AND METER READERS SHOULD BE
8		INCLUDED IN A CUSTOMER COST ANALYSIS?
9	А.	Yes. Therefore, I have adjusted my customer cost analysis to include the
10		Transportation Expense related to meters and services as shown on I&E Exhibit
11		No. 3-SR, Schedule 5. However, I continue to recommend that the transportation
12		expense related to billing and collecting not be included.
13		
14	Q.	DOES MR. HERBERT CITE TO COMMISSION PRECEDENT TO
15		SUPPORT HIS PROPOSED CUSTOMER COST ANALYSIS?
16	А.	Yes. Mr. Herbert, on pages 9-11 of SWPA Statement No. 6-R, cites to the 2003
17		Aqua Pennsylvania (formerly Pennsylvania Suburban Water Company) rate case,
18		at Docket No. R-00038805, approved by the Commission, in which he was the
19		witness. He also states that his recommended customer cost methodology was
20		reaffirmed by the Commission in the 2012 PPL case at Docket No. R-2012-
21		2290597.

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Q.

DO YOU AGREE THAT THE COMMISSION REAFFIRMED MR. HERBERT'S METHODOLOGY IN THE 2012 PPL CASE?

A. No. While the language of the Commission Order in PPL stated that the customer
cost calculation was based on Aqua, the actual customer costs used to determine
the customer charge in 2012 PPL do not fully match the customer costs that were
used in Aqua.

Specifically, the customer cost analysis that was provided in the 2012 PPL
case was included as a single page exhibit as part of PPL witness Kleha's rebuttal
testimony. It is not possible to determine which costs were included in the
Commission approved customer charge in the 2012 PPL case. Therefore, as stated
above, I do not agree that the Commission reaffirmed Mr. Herbert's Aqua
methodology in the 2012 PPL case.

13

Q. WHAT DO YOU BELIEVE SHOULD DETERMINE WHETHER A COST SHOULD APPROPRIATELY BE INCLUDED IN A CUSTOMER COST ANALYSIS?

A. As I stated in my direct testimony, only direct customer costs, which are those
costs that change with the addition or subtraction of a single customer, should be
included in a customer cost analysis. Different utilities make different claims over
time, which makes a direct comparison difficult due to changes in expenses
claimed and changes in the character of expenses. Thus, while Aqua and PPL are
helpful, they are simply guides. When there is a discrepancy. I believe it is

1		reasonable to rely more on whether those costs change with the addition or
2		subtraction of a single customer.
3		
4	Q.	DID MR. HERBERT ADDRESS ANY OTHER COSTS INCLUDED IN THE
5		CUSTOMER COST ANALYSIS?
6	A.	Yes. On page 7 of SWPA Statement No. 6-R, Mr. Herbert references 66 Pa. C.S.
7		§1328 which states that a public utility that furnishes water to or for the public
8		shall be allowed to recover in rates the full cost of service related to public fire
9		hydrants.
10		
11	Q.	DID YOU MAKE A RECOMMENDATION REGARDING THE PUBLIC
12		FIRE CUSTOMER CHARGE?
13	A.	No. I did not make a recommendation regarding the public fire customer charge.
14		
15	Q.	DO YOU WISH TO CHANGE YOUR RECOMMENDATION
16		REGARDING THE CUSTOMER COST ANALYSIS?
17	А.	Yes. As I stated above, I believe that the Transportation Expense related to meters
18		and services should be included in the customer cost analysis. However, as shown
19		on I&E Exhibit No. 3-SR, Schedule 6 the inclusion of this cost does not alter the
20		\$14.01 cost per 5/8-inch meter monthly bill result of my customer cost analysis.

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CUSTOMER CHARGES

2 Q. WHAT DID YOU RECOMMEND REGARDING THE CUSTOMER 3 CHARGE?

4 A. I recommended a \$14.00 customer charge for the residential classes (I&E St. No. 3,

p. 48). I recommended the customer charges of the other meter sizes also be
increased by approximately 1.8%, consistent with my recommended increase of the
5/8-inch customer charge. My recommended increase to each customer charge by
meter size is shown below (I&E St. No. 3, p. 49):

9

Meter Size	Present Rate	I&E Proposed	Percent Increase
5/8 & 3/4-inch	\$13.75	\$14.00	1.818%
1-inch	\$28.50	\$29.00	1.754%
1 ¹ / ₂ -inch	\$57.00	\$58.00	1.754%
2-inch	\$97.63	\$99.40	1.813%
3-inch	\$183.13	\$186.50	1.840%
4-inch	\$305.25	\$310.80	1.818%
6-inch	\$610.50	\$621.60	1.818%
8-inch	\$976.88	\$994.60	1.814%

10

11

12 Q. DID THE COMPANY AGREE WITH YOUR RECOMMENDED

13 CUSTOMER CHARGES?

21		REBUTTAL TESTIMONY?
20	Q.	DID MR. HERBERT MAKE A SIMILAR RECOMMENDATION IN HIS
19		
18		customer charge then be scaled back.
17		However, if the usage rates are scaled back to present rate levels, I recommend the
16		recommended customer charge until the usage rates are at present rate levels.
15		recommended the usage rates be scaled back prior to the scale back of my
14		and approves my recommended customer charges described above, I
13	А.	Should the Commission grant less than the Company's fully requested increase
12		LESS THAN THE COMPANY'S FULLY REQUESTED INCREASE?
11	Q.	WHAT DID YOU RECOMMEND SHOULD THE COMMISSION GRANT
10		SCALE BACK OF RATES
9		
8		recommended customer cost analysis.
7	А.	No. I continue to recommend the customer charges shown above, based on my
6		THE CUSTOMER CHARGES?
5	Q.	DO YOU WISH TO CHANGE YOUR RECOMMENDATION REGARDING
4		
3		(SWPA St. No. 6-R, p. 11).
2		analysis, the Company did not agree with my recommended customer charges
1	А.	No. Base on Mr. Herbert's disagreement with my recommended customer cost

•

1	A.	Yes. On page 12 of SWPA Statement No. 6-R, Mr. Herbert recommended that the
2		scale-back in the revenue increase should be a proportional scale-back of the
3		Company's original proposal excluding public fire service. He also proposed that
4		the scale-back should be entirely from the consumption charges leaving the
5		proposed customer charges as-filed.
6		
7	Q.	DO YOU AGREE WITH THE COMPANY'S PROPOSED SCALE BACK?
8	А.	I agree that the scale back should be proportional excluding public fire service and
9		that the consumption charge should be scaled back first. However, I continue to
10		recommend that if the usage rates are scaled back to present rate levels, the
11		customer charges that I recommended should then be scaled back.
12		
13	Q.	DOES THIS CONCLUDE YOUR SURREBUTTAL TESTIMONY?
14	A.	Yes.

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31

I&E Exhibit No. 3-SR Witness: Ethan H. Cline

PENNSYLVANIA PUBLIC UTILITY COMMISSION

v.

SUEZ WATER PENNSYLVANIA, INC.

Docket Nos. R-2018-3000834

Exhibit to Accompany

the

Surrebuttal Testimony

of

Ethan H. Cline

Bureau of Investigation and Enforcement

Concerning:

Test Year Average Rate Base FTY and FPFTY Reporting Present Rate Revenue Proposed Rate Revenue Customer Cost Analysis Customer Charges Scale Back of Rates

SUEZ Water Pennsylvania, Inc. I&E SURREBUTTAL ADJUSTMENTS TO RATE BASE R-2018-3000834

		Compa	ny REBUTTAL Rat	e Base
Line		As of		As of
No	Description	December 31 2018	Adjustments	December 31, 2019
		(A)	(B)	(C)
1	Original Cost of Utility Plant in Service	\$361,574,023	\$41,675,769	\$403,249,792
2	Accumulated Depreciation	\$78,561,485	\$6,627,877	\$85,189,362
3	Net Plant in Service	\$283 012 538	\$35,047,892	\$318,060,430
4	CIAC and Contributions	(\$63 114,693)	\$0	(\$63,114,693
	Add			
5	Deferred Taxes	(\$8,086,056)	(\$624,827)	(\$8,710,883
6	TCJA Regulatory Liability	(\$10,065,851)	\$264,891	(\$9,800,960
7	Materials and Supplies	\$481,594	\$0	\$481,594
8	Cash Working Capital	\$796,271	\$45,880	\$842,151
9	Total Rate Base	\$203,023,803	\$34,733,836	\$237,757,639

					I&E SURREBUTTAL ADJU	JSTMENTS TO RATE BAS	SE		
		Company		1&E	Company		I&E	I&E	
Line		Pro Forma	Adjusted	Pro Forma	Pro Forma	Adjusted	Pro Forma		
No	Description	December 31, 2018	From Company	December 31, 2018	December 31, 2019	From Company	December 31, 2019	Adjustments	Average
	<u>-</u> ·	(A)	(B)	(C)	(D)	(E)	(F)	(G)=(H)-(D)	(H)
10	Original Cost of Utility Plant in Service	\$361,574,023	\$0	\$361,574,023	\$403,249,792	\$0	\$403,249,792	(\$20,837,885)	\$382,411,908
11	Accumulated Depreciation	\$78,561,485	\$0	\$78,561,485	\$85,189,362	\$0	\$85,189,362	(\$3,313,939)	\$81,875,424
12	Net Plant in Service	\$283,012,538	\$0	\$283,012,538	\$318,060,430	\$0	\$318,060,430	(\$17,523,946)	\$300,536,484
13	CIAC and Contributions	(\$63,114,693)	\$0	(\$63,114,693)	(\$63,114,693)	\$0	(\$63,114,693)	\$0	(\$63,114,693)
	Add								
14	Deferred Taxes	(\$8,086,056)	\$0	(\$8,086,056)	(\$8,710,883)	\$0	(\$8,710,883)	\$312,414	(\$8,398,470)
15	TCJA Regulatory Liability	(\$10,065,851)	\$0	(\$10,065,851)	(\$9,800,960)	\$0	(\$9,800,960)	\$0	(\$9,800,960)
16	Materials and Supplies	\$481,594	\$19,474	\$501,067	\$481,594	\$19,474	\$501,067	\$19,474	\$501,067
17	Cash Working Capital	\$796,271	\$0	\$796,271	\$842,151	\$ 0	\$842,151	\$0	\$842,151
18	Total Rate Base	\$203,023,803	\$19,474	\$203,043,276	\$237,757,639	\$19,474	\$237,777,113	(\$17,192,059)	\$220,565,580

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SUEZ WATER PENNSYLVANIA, INC. I&E ADJUSTMENTS TO TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, ORIGINAL COST, BOOK RESERVE AND I&E ADJUSTMENTS TO CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO WATER PLANT AS OF DECEMBER 31, 2019

	The ADJUSTMENTS TO CALCULATEL	ANNOAL DEFILE		ALS RELATED TO M	ATER FLANT AS	OF DECEMBE	ANNUAL		COM REBL	PANY JTTAL
Line No	DEPRECIABLE GROUP	COMPANY 2018 OC	COMPANY 2019 OC	ADJUSTMENT	I&E AVERAGE COST	COMPANY REBUTTAL ACCRUAL	ADJUSTMENT	I&E AVERAGE ACCRUAL	COMPOSITE ACCRUAL RATE	REMAINING LIFE
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)	(J)
INTAN	GIBLE PLANT									
1 301	ORGANIZATION	66,399 00	66,399 00	0	66,399 00					
2 302	FRANCHISES AND CONSENTS	64,265 56	64,265 56	0	64,265 56					
3 303	MISCELLANEOUS INTANGIBLE PLANT	4,423,421 87	4,423,421 87	0	4,423,421,87					
4	TOTAL INTANGIBLE PLANT	4,554,086 43	4,554,086 43	0	4,554,086 43					
DEPRE	ECIABLE PLANT									
	STRUCTURES AND IMPROVEMENTS									
5 304 2	PUMPING	3,721,078 15	3,721,078 15	0	3,721,078 15	82,531	0	82,531	2 22	32 5
6 304 3	WATER TREATMENT PLANT								-	
7	BLOOMSBURG TREATMENT PLANT	181,380 86	181,380 86	• 0 •	181,380 86	8,185	0	8,185	4 51	73
8	BLOOMSBURG TREATMENT PLANT - NEW	5,829,778 36	5,829,778 36	* 0*	5,829,778.36	135,084	0	135,084	2 32	40 0
9	SIXTH STREET PLANT	4,160,026.78	4,160,026 78	* 0*	4,160,026.78	113,621	0	113,621	2.73	21.5
10	RICHARD C RABOLD	1,619,181.24	1,619,181 24		1,619,181 24	40,356	0	40,356	2.49	18 8
11	MARKET STREET	101,359.72	101,359 72	* 0 *	101,359 72	4,432	0	4,432	4.37	4 2
12	OLD HUMMELSTOWN PLANT	86,583 70	86,583 70	* 0*	86,583 70	0	0	0	-	-
13	HUMMELSTOWN MEMBRANE PLANT	4,410,545 60	4,410,545 60	* 0*	4,410,545.60	104,571	0	104,571	2.37	30 4
14	OTHER TREATMENT FACILITIES	3,087,574 48	3,087,574 48	0	3,087,574.48	70,316	0	70,316	2 28	36.0
15	TOTAL WATER TREATMENT PLANT	19,476,430 74	19,476,430 74	0	19,476,430 74	476,566	0	476,566	2.45	30 2
16 304 4	TRANSMISSION AND DISTRIBUTION	282,963 06	282,963 06	0	282,963.06	8,220	0	8,220	2 90	31 4
17 304 5	OFFICES									
18	BLOOMSBURG TREATMENT PLANT	9,036,735 87	9,246,555 87	* (104,910) *	9,141,645 87	214,075	(2,429)	211,646	2 32	40.1
19	OTHER OFFICES	900,933 81	902,220 14	(643)	901,576 98	23,422	(17)	23,405	2 60	28 5
20	TOTAL OFFICES	9,937,669 68	10,148,776 01	(105,553)	10,043,222 85	237,497	(2,446)	235,051	2 34	38 9
21 304 5	STORES, SHOP AND GARAGE									
21 304 3	SUMMIT VIEW MAINTENANCE BUILDING	1,377,181 17	3,796,912 64	* (1,209,866) *	2,587,046 91	155,397	(49,516)	105,881	4 09	21 1
22	OTHER MAINTENANCE BUILDINGS	186,828 31	461,118 08	(137,145)	323,973 20	16,519	(4,913)	11,606	3.58	21.8
	· · · · · · ·		· · · · · · · · · · · · · · · · · · ·	<u>_</u>						
24	TOTAL ACCOUNT STORES, SHOP AND GARAGE	1,564,009 48	4,258,030 72	(1,347,011)	2,911,020 10	171,916	(54,429)	117,487	4 04	21 2
25 304 5	MISCELLANEOUS	351,118 10	351,600 45	(241)	351,359 28	16,060	(11)	16,049	4,57	10.5

I&E Exhibit No. 3-SR Schedule 2 Page 1 of 3

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Line No DEPRECIABLE GR (A) 26 TOTAL STRUCTURES AND IMP 27 305 COLLECTING AND IMPOUNDIN 28 306 LAKE, RIVER AND OTHER INT. 29 ROCKVILLE INTAKE 30 HUMMELSTOWN INTAKE 31 OTHER INTAKES 32 TOTAL LAKE, RIVER AND OTH 33 307 WELLS AND SPRINGS 34 308 INFILTRATION GALLERIES AN	(B) ROVEMENTS NG RESERVOIRS AKES 1,519,927 2 1,335,191 8 509,724 5 HER INTAKES 3,364,843 6 1,028,041 8	9 434,632 39 7 4,662,260 11 0 1,335,191 80 3 509,724 53		I&E ORIGINAL COST (E) 36.786.074 17 434.632 39 3.091.093 69 1.335.191 80	COMPANY ACCRUAL AMOUNT (F) 992,790 7,983 166,366	ADJUSTMENT (G) (56,886) 0	I&E ACCRUAL AMOUNT (H) 935,904 7,983 110,301	REBU COMPOSITE ACCRUAL RATE (I) 2 60 1.84	REMAINING LIFE (J) 30 6 39 9
 (A) 26 TOTAL STRUCTURES AND IMP 27 305 COLLECTING AND IMPOUNDING 28 306 LAKE, RIVER AND OTHER INT, 29 ROCKVILLE INTAKE 30 HUMMELSTOWN INTAKE 31 OTHER INTAKES 32 TOTAL LAKE, RIVER AND OTH 33 307 WELLS AND SPRINGS 34 308 INFILTRATION GALLERIES AN 	(B) ROVEMENTS NG RESERVOIRS AKES 1,519,927 2 1,335,191 8 509,724 5 HER INTAKES 3,364,843 6 1,028,041 8	(C) 1 38,238,879 13 9 434,632 39 7 4,662,260 11 0 1,335,191 80 3 509,724 53	(D) (1,452,805) 0 (1,571,166) • • 0 •	(E) 36.786,074 17 434,632 39 3,091,093 69	(F) 992,790 7,983	(G) (56,886) 0	(H) 935,904 7,983	(I) 2 60 1.84	(J) 30 6
26TOTAL STRUCTURES AND IMP27305COLLECTING AND IMPOUNDIN28306LAKE, RIVER AND OTHER INT,29ROCKVILLE INTAKE30HUMMELSTOWN INTAKE31OTHER INTAKES32TOTAL LAKE, RIVER AND OTH3330734308308INFILTRATION GALLERIES AN	ROVEMENTS NG RESERVOIRS AKES 1.519.927 2 1.335,191 8 509,724 5 HER INTAKES 3.364,843 6 1.028,041 8	1 38,238,879 13 9 434,632 39 7 4,662,260 11 0 1,335,191 80 3 509,724 53	(1,452,805) 0 • (1,571,166) • • 0 •	36,786,074 17 434,632 39 3,091,093 69	992,790 7,983	(56,886) 0	935,904 7,983	2 60 1.84	30 6
 27 305 COLLECTING AND IMPOUNDIN 28 306 LAKE, RIVER AND OTHER INT. 29 ROCKVILLE INTAKE 30 HUMMELSTOWN INTAKE 31 OTHER INTAKES 32 TOTAL LAKE, RIVER AND OTH 33 307 WELLS AND SPRINGS 34 308 INFILTRATION GALLERIES AN 	NG RESERVOIRS 434,632 3 AKES 1,519,927 2 1,335,191 8 509,724 5 IER INTAKES 3,364,843 6 1,028,041 8	9 434,632 39 7 4,662,260 11 0 1,335,191 80 3 509,724 53	0 • (1,571,166) • • 0 •	434,632 39 3,091,093 69	7,983	0	7,983	1.84	
 27 305 COLLECTING AND IMPOUNDIN 28 306 LAKE, RIVER AND OTHER INT. 29 ROCKVILLE INTAKE 30 HUMMELSTOWN INTAKE 31 OTHER INTAKES 32 TOTAL LAKE, RIVER AND OTH 33 307 WELLS AND SPRINGS 34 308 INFILTRATION GALLERIES AN 	NG RESERVOIRS 434,632 3 AKES 1,519,927 2 1,335,191 8 509,724 5 IER INTAKES 3,364,843 6 1,028,041 8	9 434,632 39 7 4,662,260 11 0 1,335,191 80 3 509,724 53	0 • (1,571,166) • • 0 •	434,632 39 3,091,093 69	7,983	0	7,983	1.84	
 27 305 COLLECTING AND IMPOUNDIN 28 306 LAKE, RIVER AND OTHER INT. 29 ROCKVILLE INTAKE 30 HUMMELSTOWN INTAKE 31 OTHER INTAKES 32 TOTAL LAKE, RIVER AND OTH 33 307 WELLS AND SPRINGS 34 308 INFILTRATION GALLERIES AN 	NG RESERVOIRS 434,632 3 AKES 1,519,927 2 1,335,191 8 509,724 5 IER INTAKES 3,364,843 6 1,028,041 8	9 434,632 39 7 4,662,260 11 0 1,335,191 80 3 509,724 53	0 • (1,571,166) • • 0 •	434,632 39 3,091,093 69	7,983	0	7,983	1.84	
 28 306 LAKE, RIVER AND OTHER INT. 29 ROCKVILLE INTAKE 30 HUMMELSTOWN INTAKE 31 OTHER INTAKES 32 TOTAL LAKE, RIVER AND OTH 33 307 WELLS AND SPRINGS 34 308 INFILTRATION GALLERIES AN 	AKES 1,519,927 2 1,335,191 8 509,724 5 IER INTAKES 3,364,843 6 1,028,041 8	7 4,662,260 11 0 1,335,191 80 3 509,724 53	• (1,571,166) • • 0 •	3,091,093 69					55 5
 29 ROCKVILLE INTAKE 30 HUMMELSTOWN INTAKE 31 OTHER INTAKES 32 TOTAL LAKE, RIVER AND OTH 33 307 WELLS AND SPRINGS 34 308 INFILTRATION GALLERIES AN 	1,519,927 2 1,335,191 8 509,724 5 IER INTAKES 3,364,843 6 1,028,041 8	0 1,335,191 80 3 509,724 53	• 0 •		166,366	(50.005)	110 201		
30HUMMELSTOWN INTAKE31OTHER INTAKES32TOTAL LAKE, RIVER AND OTH3330734308308INFILTRATION GALLERIES AN	1,335,191 8 509,724 5 IER INTAKES 3,364,843 6 1,028,041 8	0 1,335,191 80 3 509,724 53	• 0 •		166,366	(50.005)	110 201		
31OTHER INTAKES32TOTAL LAKE, RIVER AND OTH333073430834308	IER INTAKES 3,364,843 6 1.028,041 8	3 509,724 53		1,335,191 80		(56,065)	110.3011	3 57	23 9
32 TOTAL LAKE, RIVER AND OTH 33 307 WELLS AND SPRINGS 34 308 INFILTRATION GALLERIES AN	IER INTAKES 3,364,843 6 1,028,041 8		0		29,235	0	29,235	2.19	34 8
33 307 WELLS AND SPRINGS 34 308 INFILTRATION GALLERIES AN	1,028,041 8	0 6,507,176 44		509,724 53	13,184	0	13,184	2 59	32 3
33 307 WELLS AND SPRINGS 34 308 INFILTRATION GALLERIES AN	1,028,041 8	0 6,507,176 44							
34 308 INFILTRATION GALLERIES AN			(1,571,166)	4,936,010 02	208,785	(56,065)	152,720	3 21	26 0
34 308 INFILTRATION GALLERIES AN									
		1 1,028,041 81	0	1,028,041 81	17,514	0	17,514	1 70	27 6
	D TUNNELS 13,358 0	4 13,358 04	0	13,358 04	400	0	400	2 99	26 3
PUMPING EQUIPMENT					1				
35 311 2 ELECTRIC PUMPING EQUIPME			(716,933)	15,606,779 43	584,088	(25,653)	558,435	3 58	19 0
36 311 3 OIL ENGINE PUMPING EQUIP	MENT 314,155 5	9 314,155 59	0	314,155 59	3,833	0	3,833	1.22	15 5
	15 00 (00)					(
37 TOTAL PUMPING EQUIPMENT	15,204,001 9	8 16,637,868 05	(716,933)	15,920,935 02	587,921	(25,653)	562,268	3 53	19 0
WATER TREATMENT PLANT				1	1		I.		
38 320 1 STRUCTURES AND IMPROVE	MENTS								
39 BLOOMSBURG TREATMENT		1 338,354 21	• 0 •	338,354 21	1,217	0	1,217	0 36	80
40 BLOOMSBURG TREATMENT		,		13,740,490,62	393.097	(6,709)	386,388	2 81	31.2
41 SIXTH STREET PLANT	10,577,146 3		(/	10,627,362,18	220,784	(1,038)	219,746	2 07	20.6
42 RICHARD C RABOLD	1,756,585 1			1,756,585,15	27,973	(1,000)	27,973	1.59	18 9
43 MARKET STREET	192.621.8			192,621 85	3,522	õ	3,522	1 83	4.4
44 OLD HUMMELSTOWN PLANT			* °*	858,433 64	0,022	Ő	0,022	-	
45 HUMMELSTOWN MEMBRANE			• <u></u> • •	9,469,382,38	198.548	0	198.548	2 10	28 1
46 OTHER TREATMENT FACILIT			0	892,814 19	16,326	0	16,326	1 83	24 2
47 TOTAL STRUCTURES AND IM	PROVEMENTS 37,587,249 4	3 38,164,839 01	(288,795)	37,876,044 22	861,467	(7,747)	853,720	-	27 1
48 320 2 PAINTING	447,524 8	2 447,524 82	0	447,524 82	39,209	0	39,209	8 76	4.7
49 320 3 CHEMICAL EQUIPMENT	6,743,249 8	8 8,440,371 24	(848,561)	7,591,810 56	572,364	(57,543)	514,821	6 78	12 7
							. 1		
50 TOTAL WATER TREATMENT PL	_ANT 44,778,024 1	3 47,052,735 07	(1,137,355)	83,791,423 82	1,473,040	(65,290)	1,407,750	-	20 9
			(4.400.000)	10,000,100,57		(24.000)	000 754	0.77	<u> </u>
51 330 DISTRIBUTION RESERVOIRS			(1,122,032)	12,262,133.57	370,840	(31,089)	339,751	2 77	26 2
52 331 TRANSMISSION AND DISTRIB			(14,007,825)	173,421,240.09	2,924,600	(218,575)	2,706,025	1 56	58 0
53 333 SERVICES	39.848,031 8		(364,467)	40,212,499 27	728,191	(6,541)	721,650	1.79	40 9
54 334 METERS	20,103,309 3		(611,178)	20,714,487 11	946,838	(27,136)	919,702	4.44	15 2
55 335 HYDRANTS 56 339 OTHER PLANT AND MISC EQU	7,774,000 8		(47,194) 0	7,821,195 07 539,255 49	131,295	(788) 0	130,508	1 67 1 56	40 3 18.0
56 339 OTHER PLANT AND MISC EQU	JIPMENT 539,255 4	9 539,255 49	U	559,255 49	8,424	U	8,424	1 20	18.Ų
				1	1				
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							ANNUAL		COMI REBU	
Line		COMPANY ORIGINAL	COMPANY ORIGINAL		I&E ORIGINAL	COMPANY		I&E ACCRUAL	COMPOSITE	DEMANNING
No	DEPRECIABLE GROUP	COST	COST	ADJUSTMENT	COST	ACCRUAL	ADJUSTMENT		ACCRUAL RATE	REMAINING LIFE
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)	(J)
	OFFICE FURNITURE AND EQUIPMENT					ļ				
57 340 1	COMPUTERS AND SOFTWARE	3,298,776 11	2,646,180 68	326,298	2,972,478 40	80,752	9,957	90,710	3 05	12
58 340 1	SOFTWARE - LARGE	3,665,579 00	3,665,579 00	0	3,665,579 00	5,653	0	5,653	0 15	10
59 340 2	FURNITURE	659,446 10	659,446 10	0	659,446 10	33,197	0	33,197	5 03	10 7
60	TOTAL OFFICE FURNITURE AND EQUIPMENT	7,623,801 21	6,971,205 78	326,298	7,297,503 50	119,602	9,957	129,559	-	38
61 341	TRANSPORTATION EQUIPMENT - TRUCKS	1,057 45	1,057 45	0	1,057 45	215	0	215	20 33	2 5
	TOOLS, SHOP AND GARAGE EQUIPMENT	1								
62 343 1	SHOP AND GARAGE EQUIPMENT	1,147,657 06	1,147,657 06	0	1,147,657 06	49,132	0	49,132	4 28	15 1
63 343 2	TOOLS AND WORK EQUIPMENT	2.066.262.77	2,187,579 26	(60,658)	2,126,921 02	109,862	(3,046)	106,816	5 02	12 9
							(-,			
64	TOTAL TOOLS SHOP AND GARAGE EQUIPMENT	3,213,919 83	3,335,236 32	(60,658)	3,274,578 08	158,994	(3,046)	155,948	-	13 6
		100 070 71			100 000 71	1		1.540		
65 344		129,279 71	127,367 71	956	128,323.71	4,514	34	4,548	3 54	76
66 346		6,929,738 85	7,076,786 57	(73,524)	7,003,262 71	554,240	(5,758)	548,482	7 83	58 104
67 347	MISCELLANEOUS EQUIPMENT	147,854 10	147,854 10	0	147,854.10	10,332	0	10,332	6 99	10 4
68	TOTAL DEPRECIABLE PLANT	357,019,936 50	398,695,705 85	(25,314,420)	377,857,821 18	9,246,518	(656,661)	8,759,683	-	33 9
69	AMORTIZATION OF NET SALVAGE					319,853		319,853		
70	TOTAL UTILITY PLANT IN SERVICE	361,574,022 93	403,249,792 28	(25,314,420)	382,411,907 61	9,566,371	(656,661)	9,079,536		

* Life Span Procedure was used. Curve shown is Interim Survivor Curve

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SUEZ WATER PENNSYLVANIA, INC. I&E SURREBUTTAL ADJUSTMENTS TO ANNUAL DEPRECIATION EXPENSE R-2018-3000834

Line

No	Description	Company	Rebuttal and I&E Re	AVERAGE ANNUAL DEPRECIATION			
		Pro Forma		Pro Forma	2019 I&E	I&E Average	
		December 31, 2018	Adjustments	December 31, 2019	Average Adjustment	Annual Depreciation	
		(A)	(B)	(C)	(F)	(G)	
1	Total Water	\$9,004,241	\$562,130	\$9,566,371	(\$486,835)	\$9,079,536	
2	Depreciation on CIAC/Advances	(\$950,910)	\$0	(\$950,910)	\$0	(\$950,910)	
3	Total Annual Depreciation Expense	\$8,053,331	\$562,130	\$8,615,461	(\$486,835)	\$8,128,626	

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SUEZ WATER PENNSYLVANIA INC. I&E ADJUSTMENTS TO SUMMARY OF REVENUE UNDER PRESENT RATES AND PRO FORMA REVENUES UNDER PRESENT RATES FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2017 AND 2019

Line No	Customer Classification	 venues Under resent Rates (A)	Pi Ad	company ro Forma justments sent Rates (B)	_Ac	djustment (C)	Ad	I&E ro Forma justments sent Rates (D)	Ann	I&E Add Back nualized DSIC Revenue (E)	Company REBUTTAL Pro Forma Revenue <u>Present Rates</u> (F)	A	djustment (G)	I&E Total Pro Forma Revenue <u>Present Rates</u> (H)
	METERED SALES													
10	Residential	\$ 26,796,924	\$	65,639	\$	(25,924)	\$	39,715	\$	2,012,748	\$ 28,877,255	\$	(27,868)	\$ 28,849,387
11	Commercial	11,045,912		(99,728)	\$	24,916		(74,813)	\$	822,832	\$ 11,767,147		26,785	\$ 11,793,932
12	Industrial	1,278,641		86,299	\$	-		86,299	\$	102,371	\$ 1,467,311		-	\$ 1,467,311
13	Public Sales	1,772,512		(64,825)	\$	4,052		(60,774)	\$	128,380	\$ 1,835,763		4,355	\$ 1,840,118
14	Total Sales of Water	\$ 40,893,989	\$	(12,616)	\$	3,044	\$	(9,572)	\$	3,066,331	\$ 43,947,476	\$	3,272	\$ 43,950,748
15	Private Fire	1,436,836	\$	9,211	\$	-	\$	9,211			1,446,048		-	1,446,048
16	Public Fire	923,861									923,861		-	923,861
17	Other Operating Revenues	 405,611									405,611		-	<u> </u>
18	Total	\$ 43,660,297	\$	(3,404)	\$	3,044	\$	(361)	\$	3,066,331	\$ 46,722,995	\$	(402,339)	\$ 46,320,657

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SUEZ WATER PENNSYLVANIA INC. I&E ADJUSTMENTS TO ANALYSIS OF DIRECT CUSTOMER COSTS METERS AND SERVICES

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Line		Corr	pany	Adjustr	nent	I&E			
No	Description	Meters	Services	Meters	Services	Meters	Services		
	Operation and Maintenance Expenses								
	T&D Labor - Operation								
1	Employee Salanes - Supervision	\$ 7,978		\$-		\$ 7,978			
2	Employee Salanes - Meters	141,836		-		141,836			
3	Fringe Benefits	58,775		-		58,775			
	T&D Labor - Maintenance								
4	Employee Salaries - Supervision		\$ 6,408		-		\$ 6,408		
5	Employee Salaries - Structures and Impro	ovments	19,032		(19,032)		-		
6	Employee Salaries - Services		74,524		-		74,524		
7	Fringe Benefits		41,018		-		41,018		
8	Total Customer Accounting Expenses								
9	Management Fees - Customer Related								
10	Management Fees - Employee Related	10,211	6,959	(10,211)	(6,959)	-	-		
11	Transportation Expense	3,666	2,396	(3,666)	(2,396)	-	-		
12	Worker's Compensation	3,421	2,236	-	-, , ,	3,421	2.236		
13	Advertising Expense	114	74	-		114	2,200		
14	Office Rents	1,868	1,221	-	-	1.868	1,221		
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15	Subtotal	227,868	153,869	(13,877)	(28,387)	213,991	125,482		
I	Depreciation Expense								
16	Meters	976,632		-		976,632			
17	Services		696.307		-	,	696,307		
18	Office Buildings	7,415	4,847	-	0	7,415	4,847		
19	Office Furniture & Equipment	1,026	671	-	0	1,026	671		
20	Computer Software - CIS								
21	Subtotal	985,074	701,825	-	0	985,074	701,825		
-	Taxes Other Than Income								
22	Payroll Taxes	21,847	14,890	-	0	21,847	14,890		
23	Assessments			<u></u>	-				
24	Subtotal	21,847	14,890	-	0	21,847	14,890		
F	Rate Base								
25	Meters	14,543,019		-		14,543,019			
26	Services		27,943,391		-		27,943,391		
27	Office Land/Buildings	315,200	206,053	-	-	315,200	206,053		
28	Office Furniture and Equipment	10,987	7,183	-	-	10,987	7,183		
29	Computer Software - CIS								
30	Materials and Supplies	14,881	9,728	-	-	14,881	9,728		
31	Deferred Taxes	(1,092,904)	(2,042,846)	·	0	(1,092,904)	(2,042,846)		
32	Subtotal	13,791,184	26,123,508	·	0	13,791,184	26,123,509		
33 F	Return and Income Taxes	1,409,175	2,669,285	<u> </u>	0	1,409,175	2,669,285		

SUEZ WATER PENNSYLVANIA INC. I&E ADJUSTMENTS TO CALCULATION OF CUSTOMER COST PER MONTH FOR A 5/8-INCH METER BASED ON DIRECT COSTS

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Cost Function (1)	Direct Cost of <u>Service</u> (2)	Total Units (3)	Cost Per 5/8-inch Meter (4)	Cost Per 5/8-inch Meter <u>Monthly Bill</u> (5)
Meters	2,630,087	77,769 5/8-inch Equivalents	\$33.82	\$2.82
Services	3,511,482	63,972 3/4-inch Equivalents	54.89	4.57
Billing, Collecting and Meter Reading	2,195,391	62,282 Customers	35.25	2.94
Subtotal Customer Costs	\$8,336,960			10.33
Unrecovered Public Fire	3,438,063	77,769 5/8-inch Equivalents	44.21	3.68
Total Customer Costs and Public Fire	\$11,775,024			\$14.01