# BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

### REBUTTAL TESTIMONY OF

# **GREGORY STUNDER**

## ON BEHALF OF PHILADELPHIA GAS WORKS

Docket No. R-2020-3017206

Philadelphia Gas Works

General Rate Increase Request

Topics:

Responses To: Mr. Colton, Dr. Hausman and Mr. Rubin

July 13, 2020

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- 2 Q. PLEASE STATE YOUR NAME AND POSITION WITH THE COMPANY.
- 3 A. My name is Gregory Stunder. My position with PGW is Vice President, Regulatory and
- 4 Legislative Affairs.

## 5 Q. DID YOU PREVIOUSLY SUBMIT TESTIMONY IN THIS PROCEEDING ON

6 BEHALF OF PGW?

7 A. Yes. I submitted my direct testimony, PGW St. No. 1 on February 28, 2020.

#### 8 Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?

- 9 A. The purpose of my rebuttal testimony is to respond to the testimony of: 1) Office of
- 10 Consumer Advocate ("OCA") Witness Roger Colton on residential collectability and the
- "Customer Responsibility Program" ("CRP") cost recovery; 2) Sierra Club and Clean Air
- 12 Council Witness Ezra D. Hausman, Ph.D. on infrastructure planning and a climate
- business plan; and 3) OCA Witness Scott J. Rubin on granting rate relief during times of
- 14 economic distress.

#### 15 Q. PLEASE SUMMARIZE YOUR REBUTTAL TESTIMONY.

- 16 A. Mr. Colton recommends that PGW adjust the amount it recovers for CRP arrearage
- forgiveness be reduced by a gross write-off percentage reported to the Pennsylvania
- Public Utility Commission ("PUC" or "Commission") for low income customers. Mr.
- 19 Colton incorrectly infers that PGW recovers gross write-off in base rates and incorrectly
- 20 concludes that PGW is over-recovering for arrearage forgiveness amounts.
- 21 Dr. Hausman recommends that PGW's rate increase be denied pending completion of a
- 22 Climate Business Plan based on the assumption that natural gas distribution systems are
- 23 not compatible with addressing climate change. This is contrary to the role that natural

1		gas distribution systems have played in reducing emissions and ignores the emerging
2		technologies that can be deployed by natural gas distribution systems in the future to
3		further reduce emissions.
4		Mr. Rubin recommends that during the economic downturn resulting from the COVID-19
5		pandemic, PGW should not be granted rate relief. Mr. Rubin fails to recognize that PGW
6		was granted significant rate relief in 2008 and 2010 during the Great Recession.
7	II.	RESIDENTIAL COLLECTIBILITY AND CRP COST RECOVERY
8 9	Q.	WHAT ISSUES HAVE THE PARTIES RAISED REGARDING ADJUSTMENTS TO PGW'S CRP ARREARAGE FORGIVENESS?
10	A.	OCA's witness Mr. Colton recommends (OCA St. 5 at 61) that PGW should only recover
11		78.9% of arrearage forgiveness in the Universal Service Surcharge (which recovers the
12		costs of PGW's CRP) because confirmed low income customers have a gross write-off
13		ratio of 21.1%.
14 15	Q.	DO YOU AGREE WITH MR. COLTON'S POSITION REGARDING THE BAD DEBT AND CARRYING COST OFFSETS?
16	A.	No. Mr. Colton ignores the fact that PGW does not recover gross write-offs in base rates.
17		Rather, PGW recovers bad debt expense. <sup>1</sup> Gross write-offs and bad debt expense are
18		vastly different. Additionally, Mr. Colton conflates "bad debt," "write-offs" and
19		"collection factor" (OCA St. 5 at 63).
20	Q.	WHAT ARE GROSS WRITE-OFFS?
21	A.	PGW writes off account balances 90 days after a final bill is issued.

<sup>&</sup>lt;sup>1</sup> Bad debt expense is shown as "appropriation for uncollectible reserve" in Exhibits JFG-1 (line 6) and JFG-2 (line 7) Statements of Income.

#### 1 O. ARE GROSS WRITE-OFFS EVER RECOVERED?

2 A. Yes. Payments received after an account is written off are write-off "recoveries."

#### 3 Q. WHAT ARE NET WRITE-OFFS?

4 A. Net write-offs are the netting of gross write-offs and write-off recoveries.

#### 5 Q. WHAT IS A COLLECTION FACTOR?

6 A. A collection factor is the result of dividing gas revenue cash receipts by gas revenues.

#### 7 Q. WHAT IS BAD DEBT EXPENSE?

8 A. Bad debt expense is the amount that is recorded on PGW's income statement and it

represents the annual adjustment needed for the "Reserve for Uncollectible" account on

PGW's balance sheet for accounts receivable. At each fiscal year end, accounts

receivable are assessed for collectability and the total Reserve for Uncollectible is

12 calculated.

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#### 13 Q. ARE GROSS WRITE-OFFS AND BAD DEBT EXPENSE DIFFERENT?

14 A. Yes. Gross write-offs, as described above, are accounts that are written off 90 days after
15 the final bill is issued. Also, as explained above, some of these write-offs are recovered,
16 and when gross write-offs and recoveries are netted, the results are net write-offs. Bad
17 debt expense is entirely different – it is based on an assessment of the collectability of
18 accounts receivable. Additionally, bad debt expense is recovered in base rates and
19 neither gross write-offs nor net write-offs are recovered in base rates.

# 20 Q. WHAT IS PGW'S BAD DEBT EXPENSE PERCENTAGE FOR THE MOST RECENT THREE HISTORICAL YEARS?

22 A. The following is the three year historical bad debt expense amounts and percentages:

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	<u>2019</u>	2018	<u>2017</u>	3-Year Avg.
Bad Debt Expense	\$29,983	\$30,826	\$29,992	
Gas Revenues (Gross)	\$694,067	\$659,080	\$618,406	
Bad Debt Expense %	4.32%	4.68%	4.85%	4.62%

As can be seen from the data provided above, Mr. Colton incorrectly asserts the write-off percentages reported in the BCS Annual Report on Collection Performance and Universal Service are the same as the bad debt rate or uncollectible rate. Additionally, the BCS Annual Report only provides gross write-offs and does not subtract write-off recoveries, and therefore, even Mr. Colton's write-off percentage is overstated.

#### 7 Q. DOES PGW OVER-COLLECT FOR ARREARAGE FOREGIVENESS?

A. No. Arrearage forgiveness is recovered from non-CRP participants through the Universal Service Surcharge. These non-CRP customers also contribute to bad debt expense, just like any other customer, therefore, the arrearage forgiveness recovered through the Universal Service Surcharge is not collected at a rate of 100% as Mr. Colton implies.

Based on 3-year average bad debt expense, approximately 4.62% of arrearage forgiveness which had been billed to non-CRP customers will not be collectible.

#### O. IS MR. COLTON'S RECOMMENDATION JUSTIFIED?

15 A. No. First, Mr. Colton wrongly claims that PGW recovers 100% of arrearage forgiveness
16 amounts. Second, Mr. Colton wrongly claims that PGW over-recovers 21.1% of all
17 arrearage forgiveness. Third, PGW recovers less than 100% of arrearage forgiveness
18 because the arrearage forgiveness is billed to all firm customers through the Universal

1		Service Charge. Fourth, the 3-year bad debt percentage average of 4.62% means that
2		PGW recovers approximately 95.38%. Finally, the unrecovered amounts of arrearage
3		forgiveness are included in bad debt expense.
4		I would also note that in neither the PUC's original order approving PGW's proposal to
5		provide arrearage forgiveness to CRP customers and to recover the amounts forgiven in
6		its Universal Service Charge, or its most recent Order approving PGW's Universal
7		Service Plan has the PUC ever suggested that PGW's arrearage forgiveness recovery
8		should be reduced by some amount to reflect the contention that, if the dollars had not
9		been forgiven, some portion would never have been recovered from those customers.
10	III.	INFRASTRUCTURE PLANNING AND CLIMATE BUSINESS PLAN
11 12	Q.	DR. HAUSMAN ASSERTS THAT PGW'S RATE INCREASE MUST BE DENIED PENDING COMPLETION OF A "CLIMATE BUSINESS PLAN" THAT WOULD
13 14		REVISE ITS ACTIVITIES SO AS TO ELIMINATE THE SALE AND/OR DISTRIBUTION OF NATURAL GAS. COULD YOU PLEASE RESPOND?
	A.	
14	A.	DISTRIBUTION OF NATURAL GAS. COULD YOU PLEASE RESPOND?
14 15	<b>A.</b>	DISTRIBUTION OF NATURAL GAS. COULD YOU PLEASE RESPOND?  Yes. The underlying assumption in Dr. Hausman's testimony is that the use of natural
<ul><li>14</li><li>15</li><li>16</li></ul>	<b>A.</b>	DISTRIBUTION OF NATURAL GAS. COULD YOU PLEASE RESPOND?  Yes. The underlying assumption in Dr. Hausman's testimony is that the use of natural gas as an energy source is not compatible with addressing global warming and natural gas.
<ul><li>14</li><li>15</li><li>16</li><li>17</li></ul>	<b>A.</b>	DISTRIBUTION OF NATURAL GAS. COULD YOU PLEASE RESPOND?  Yes. The underlying assumption in Dr. Hausman's testimony is that the use of natural gas as an energy source is not compatible with addressing global warming and natural gas distribution companies have no place in an effort to respond to climate change. As far as
<ul><li>14</li><li>15</li><li>16</li><li>17</li><li>18</li></ul>	<b>A.</b>	Yes. The underlying assumption in Dr. Hausman's testimony is that the use of natural gas as an energy source is not compatible with addressing global warming and natural gas distribution companies have no place in an effort to respond to climate change. As far as I know, the PUC has not reached any such conclusions. All of his contentions regarding
<ul><li>14</li><li>15</li><li>16</li><li>17</li><li>18</li><li>19</li></ul>	<b>A.</b>	Yes. The underlying assumption in Dr. Hausman's testimony is that the use of natural gas as an energy source is not compatible with addressing global warming and natural gas distribution companies have no place in an effort to respond to climate change. As far as I know, the PUC has not reached any such conclusions. All of his contentions regarding the alleged unreasonableness of PGW's present pipeline replacement program and other
14 15 16 17 18 19 20	<b>A.</b>	Yes. The underlying assumption in Dr. Hausman's testimony is that the use of natural gas as an energy source is not compatible with addressing global warming and natural gas distribution companies have no place in an effort to respond to climate change. As far as I know, the PUC has not reached any such conclusions. All of his contentions regarding the alleged unreasonableness of PGW's present pipeline replacement program and other construction and his demand that PGW formulate (and the PUC approve) a "Climate

In PGW's view, the use of natural gas by homes and businesses in Philadelphia is and should continue to be part of any responsible and cost-effective effort to address climate change.

Natural gas has led the reduction in United States greenhouse gas emissions. Moreover, the natural gas delivery system is flexible, reliable, and versatile, and enables increased integration of renewable energy. The use of natural gas, in combination with renewable energy and efficiency, has contributed to US energy-related carbon dioxide emissions declining to the lowest levels in nearly 25 years.<sup>2</sup>

Nationally, while the use of natural gas has grown, carbon dioxide emissions from the residential, commercial and industrial sectors have not changed materially. For example, since 1970, gas utilities have added 30 million more residential customers with virtually no increase in emissions.<sup>3</sup> This is because of customer conservation, stronger energy efficiency standards, and the efforts of natural gas distribution companies to promote energy efficiency, such as PGW's energy efficiency programs, which I will discuss more below.

In terms of methane emissions, emissions from natural gas distribution systems have declined 73 percent since 1990 even as natural gas distribution companies added more

American Gas Association, *Climate Change Position Statement*, available at <a href="https://www.aga.org/globalassets/aga">https://www.aga.org/globalassets/aga</a> climate-change-document final.pdf.

American Gas Association, *An Increase in Safety Leads to a Decrease in Emissions* (2019), available at <a href="https://www.aga.org/globalassets/2019-increase-in-safety-leads-to-a-decrease-in-emissions-v.3.pdf">https://www.aga.org/globalassets/2019-increase-in-safety-leads-to-a-decrease-in-emissions-v.3.pdf</a>.

than 760,000 miles of pipeline. 4 A Washington State University study found that as little 1 as 0.1% of natural gas delivered nationwide is emitted from local distribution systems.<sup>5</sup> 2 3 For PGW, this can be attributed to its commitment to systematically replacing the facilities that are most at risk of leaking and using a sophisticated main replacement 4 5 prioritization model to identify the facilities that should be removed. These efforts are 6 primarily geared to making PGW's system safer and more reliable. But they also result 7 in the reduction of gas leaks, which in turn reduces methane emissions. It has been 8 reported that, nationwide, 90% of emission reductions from distribution systems since 1990 are due to pipeline replacements.<sup>6</sup> 9 10 Abandoning PGW's natural gas distribution network in favor of greater electricity use 11 would not eliminate the use of carbon-based fuels as some 39.7% of the electricity produced in the PJM region (which serves Pennsylvania) is generated from natural gas.<sup>7</sup> 12 (Notably, as of July 2020, some 22% is also produced from coal).8 However, when 13 14 electricity is transmitted from a central generation source, such as a gas turbine, more 15 natural gas is needed to produce the same BTU of energy for an end use customer than if that customer burned it at his or her home. 9 The American Gas Association reports that, 16 17 from the place where it is extracted to its use in a home appliance, natural gas is 91%

<sup>&</sup>lt;sup>4</sup> American Gas Association, *Climate Change Position Statement*, available at https://www.aga.org/globalassets/aga\_climate-change-document\_final.pdf.

American Gas Association, *An Increase in Safety Leads to a Decrease in Emissions* (2019), available at <a href="https://www.aga.org/globalassets/2019-increase-in-safety-leads-to-a-decrease-in-emissions-v.3.pdf">https://www.aga.org/globalassets/2019-increase-in-safety-leads-to-a-decrease-in-emissions-v.3.pdf</a>.

<sup>6</sup> Id.

<sup>&</sup>lt;sup>7</sup> During the first three months on 2020, natural gas units provided 39.7% of total generation, <a href="https://www.monitoringanalytics.com/reports/PJM\_State\_of\_the\_Market/2020/2020q1-som-pjm.pdf">https://www.monitoringanalytics.com/reports/PJM\_State\_of\_the\_Market/2020/2020q1-som-pjm.pdf</a> - page 21.

https://www.pjm.com/markets-and-operations.aspx.

<sup>9</sup> See 2020 AGA Playbook, page 26, available at <a href="http://playbook.aga.org/">http://playbook.aga.org/</a>.

energy efficient and households with natural gas versus all-electric appliances produce

41% less greenhouse gas emissions. 10

# Q. ARE THERE OTHER DOWNSIDES TO ELIMINATING PGW'S NATURAL GAS DISTRIBUTION SYSTEM?

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- Yes. Abandoning PGW's natural gas distribution systems would eliminate the ability to use this infrastructure to deliver other types of energy such as renewable energy, storage and the delivery of renewable gases derived from biogenic sources. The gas system's ability to integrate high-value sources of energy like renewable natural gas and hydrogen could become a valuable approach to reaching carbon emission reduction goals.

  Additionally, other technologies are also being developed like "power to gas" which can utilize excess renewable electricity to create renewable hydrogen and renewable natural gas.

  Utilizing natural gas as well as other gases with lower carbon footprints could be especially important in a City such as Philadelphia. Converting PGW's some 500,000 customers to electric service would be enormously expensive far out of the reach of
- 17 Accordingly, Dr. Hausman's contentions and underlying assumptions are seriously
  18 flawed and should be rejected.

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many PGW customers.11

American Gas Association, *An Increase in Safety Leads to a Decrease in Emissions* (2019), available at https://www.aga.org/globalassets/2019-increase-in-safety-leads-to-a-decrease-in-emissions-v.3.pdf.

PGW is planning a study to assess the whole system costs of conversion.

1 2	Q.	WHAT TYPE OF PROGRAMS DOES PGW HAVE IN PLACE TO REDUCE EMISSIONS AND WHAT IS IT PLANNING FOR THE FUTURE?
3	A.	PGW is currently doing several things that reduce emissions and is assessing or planning
4		other ways to reduce emissions in the future.
5		First, PGW has voluntary and robust energy efficiency programs which have been
6		approved by the Commission. The following is a summary of these programs:
7 8 9 10 11 12 13 14 15 16 17 18 19		<ul> <li>Home Comfort Program         <ul> <li>PGW's low income usage reduction program weatherized 21,880 low-income customer homes and 22 multi-family buildings (where a majority of the tenants are low-income) at a cost of \$60 million during FY 2011 to FY 2019.</li> <li>On average, low income customers experience a first year 13% usage reduction from pre-weatherization usage.</li> </ul> </li> <li>Energy Sense Program         <ul> <li>PGW has awarded 6,200 rebates and grants to residential, commercial and industrial customers at a PGW cost of \$9.7 million during FY 2011 to FY 2019.</li> </ul> </li> <li>Energy Conservation Program Savings         <ul> <li>The estimated resources saved are 14.9 Bcf of natural gas and 862,000 metric tons of CO2e over the lifetime of the conservation measures PGW has installed in low income and other properties during FY 2011 to FY 2019.</li> </ul> </li> </ul>
20		Second, PGW's cast iron main replacement program, along with its service replacement
21		program, have decreased methane emissions by 9,500 metric tons since 1991 (which is
22		equivalent to 238,000 metric tons of CO2e). Additionally, PGW has recently joined the
23		U.S. Environmental Protection Agency's (EPA) Methane Challenge Program by
24		voluntarily agreeing to the metrics set forth by the EPA for main and service replacement
25		which are designed to reduce methane emissions.
26		Third, PGW has reduced emissions and/or waste with the following efforts:
27 28 29 30 31		<ul> <li>Installing new technology at its LNG plant in 2005 that has reduced natural gas usage in its natural gas liquefaction process by ~90% and significantly reduced criteria pollutants</li> <li>Achieving energy reductions for electricity, heating and hot water by installing a Combined Heat and Power unit at PGW headquarters</li> </ul>

1		• Installing Variable Frequency Drives for HVAC systems
2		<ul> <li>Compressed Natural Gas fleet vehicles</li> </ul>
3		Water and wastewater management
4		Field Operation GPS trip planning
5		• LED Retrofits
6		Electronic waste recycling and paper reduction program
7		Becoming a member of the Zero Waste Partnership
8		Fourth, PGW is currently developing a sustainability program and hired its first Director
9		of Sustainability.
10		Fifth, PGW is voluntarily participating in a diversification study which will provide a
11		roadmap for potential business model strategies that have revenue potential, will reduce
12		carbon and maintain PGW's workforce. The study will also review such issues as
13		market/technology feasibility, cost and legal/regulatory feasibility.
14		Sixth, PGW is currently conducting a Greenhouse Gas (GHG) inventory. When
15		completed, the Company will study ways to reduce its inventory.
16		Seventh, PGW is exploring ways to purchase renewable natural gas and/or distribute it on
17		its system.
18 19	Q.	WHAT WOULD BE THE EFFECT OF THE PUC ACCEPTING DR. HAUSMAN'S DEMAND THAT PGW'S RATE INCREASE BE REJECTED?
20	A.	Among other things, it would seriously threaten PGW's ability to continue to engage in
21		these efforts to reduce its carbon emissions. Dr. Hausman's demands would therefore be
22		counterproductive and short sighted.

#### 1 IV. GRANTING RATE RELIEF DURING TIMES OF ECONOMIC DISTRESS

- 2 Q. HOW DO YOU RESPOND TO MR. RUBIN'S STATEMENT THAT DURING A
  3 TIME OF HIGH UNEMPLOYMENT PGW SHOULD NOT SEEK OR BE
  4 GRANTED RATE RELIEF?
- 5 PGW has sought rate relief two times in the recent past, during the Great Recession, A. 6 while Philadelphians were experiencing significantly high levels of unemployment. 7 PGW sought extraordinary rate relief in November 2008 which was granted by the 8 Commission in the amount of \$60 million. In December 2009, PGW filed for additional 9 rate relief and the Commission approved the related settlement agreement in July 2010. 10 In addition to affirming the \$60 million in extraordinary rate relief, the settlement 11 agreement provided for recovery of \$16 million annually through an OPEB surcharge. 12 During this time period, unemployment levels were increasing in Philadelphia and reached 10% in June 2009. 12 These levels were mostly sustained above 10% and 13 sometimes were above 11% until 2013. Additionally, clear improvement in the 14

# 16 Q. WHAT ARE THE EXPECTED EMPLOYMENT LEVELS DURING THE FULLY PROJECTED FUTURE TEST YEAR ("FPFTY")?

A. PGW rebuttal witness Gil Peach, Ph.D. has prepared an analysis that unemployment will gradually decline through 2021, averaging 10% during the FPFTY. It is also important to note that, on average, 662,486 Philadelphians will still be employed during the FPFTY

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Philadelphia job market did not occur until 2014. 14

U.S. Bureau of Labor Statistics, available at <a href="https://data.bls.gov/timeseries/LAUCN42101000000006?amp%253bdata\_tool=XGtable&output\_view=data&inclu\_de\_graphs=true">https://data.bls.gov/timeseries/LAUCN42101000000006?amp%253bdata\_tool=XGtable&output\_view=data&inclu\_de\_graphs=true</a>.

<sup>13</sup> *Id*.

<sup>&</sup>lt;sup>14</sup> *Id*.

See the Rebuttal Testimony of Gil Peach, Ph.D., PGW St. No. 11-R.

2		pandemic, in February 2020, 43,643 Philadelphians were unemployed which means that
3		the unemployment differential during the FPFTY when compared to February 2020 is, or
4		average, 30,168 Philadelphians. 17
5 6 7 8	Q.	MR. RUBIN DISCUSSES THE AFFORDABILITY OF PGW'S BILLS AFTER THE PROPOSED RATE INCREASE. WHAT WERE THE AVERAGE ANNUAL RESIDENTIAL HEATING BILLS DURING THE GREAT RECESSION AND ITS AFTERMATH?
9	A.	Both natural gas market prices and average residential heating customer usage were
10		higher during the Great Recession. When PGW filed for extraordinary rate relief in
11		November 2008, the average annual bill was approximately \$2,000 and when PGW filed

for rate relief in December 2009, the average annual bill was approximately \$1,600.

Comparatively, after PGW's proposed rate increase, the average annual bill will be

out of a total labor force of 736,298. I would also like to highlight that before the

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#### 15 O. WHAT CAN THE COMMISSION CONCLUDE FROM THE FOREGOING?

16 A. The Commission can conclude that it has judged rate relief requests in the past during
17 significant economic downturns and has fairly balanced affordability and the need for
18 rate relief. During the Great Recession, PGW requested \$60 million in extraordinary rate
19 relief and the Commission granted it. Then, in July 2010, when Philadelphia
20 unemployment was at 11.2%, <sup>18</sup> the Commission approved a settlement agreement

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approximately \$1,328.

This information is provided in the electronic workpapers of Dr. Peach which will be provided to the parties on July 13, 2020.

This information is provided in the electronic workpapers of Dr. Peach which will be provided to the parties on July 13, 2020.

U.S. Bureau of Labor Statistics, available at <a href="https://data.bls.gov/timeseries/LAUCN42101000000006?amp%253bdata\_tool=XGtable&output\_view=data&inclu\_de\_graphs=true">https://data.bls.gov/timeseries/LAUCN42101000000006?amp%253bdata\_tool=XGtable&output\_view=data&inclu\_de\_graphs=true</a>.

affirming the \$60 million extraordinary rate increase and an additional annual recovery of \$16 million through an OPEB surcharge. All the while, the average annual residential heating bills were about \$2,000 in November 2008, \$1,600 in December 2009 and \$1,500 in July 2010. In comparison, the average annual residential heating bill noticed in this rate proceeding is \$1,328. It is also important to note that PGW has provided an analysis showing more Philadelphians working during the FPFTY than today. Additionally, on average, the employed Philadelphia workforce will total 662,486 during the FPFTY while the unemployment increase when compared to February 2020 will total 30,168.

#### 9 V. <u>CONCLUSION</u>

#### 10 Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?

11 A. Yes.

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#### VERIFICATION

I, Gregory Stunder, hereby state that: (1) I am the Vice President – Regulatory and Legislative Affairs for Philadelphia Gas Works ("PGW"); (2) the facts set forth in my testimony are true and correct to the best of my knowledge, information and belief; and (3) I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities).

July 13, 2020

Dated

Gregory Stunder

Vice President – Regulatory and Legislative Affairs Philadelphia Gas Works