



PHILADELPHIA GAS WORKS

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March 1, 2018

VIA FEDERAL EXPRESS

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
2nd Floor, 1 North
400 North Street
Harrisburg, PA 17120

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MAR - 1 2018
PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

**Re: Philadelphia Gas Works 2018-2019 Gas Cost Rate Filing
Docket No. R-2018-2645938**

Dear Secretary Chiavetta:

On behalf of Philadelphia Gas Works ("PGW"), enclosed for filing is the original of PGW's March 1, 2018, Section 1307(f) Gas Cost Rate Filing. This filing contains:

- Tariff revisions;
- Supporting information regarding the computation of annual purchased gas costs for the twelve months ending August 31, 2019; and
- Testimony of Kenneth Dybalski (PGW St. 1) and Raymond Snyder (PGW St. 2).¹

Please contact me if you have any questions.

Respectfully,

Brandon J. Pierce, Esquire

Enclosure

cc: Certificate of Service w/ enc.
Paul Diskin, Bureau of Technical Utility Services w/ enc.

¹ As part of the settlement of PGW's base rate proceeding, Docket No. R-2017-2586783, the parties to the Joint Petition for Partial Settlement agreed that PGW would begin providing data on its new Backup Service Rate ("Rate BUS") and its pilot Technology and Economic Development ("TED") Rider as part of the Company's annual 1307(f) proceeding. See Joint Petition for Settlement at ¶¶ 19, 21. PGW's new base rates became effective on December 1, 2017, as part of Supplement No. 106 to Gas Service Tariff - Pa. P.U.C. No. 2. As such, PGW is still in the process of implementing the programs to ensure efficient operation and administration. PGW intends to begin submitting the data in its 2019-2020 annual 1307(f) proceeding, which will provide meaningful data for the first full year of both the BUS Rate and TED Rider.

Philadelphia Gas Works
Before The
Pennsylvania Public Utility Commission

**Computation of Annual Purchased Gas Costs
For Twelve Months Ending August 31, 2019**

66 Pa.C.S. § 1307(f)

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Information Submitted Pursuant To:

**66 Pa.C.S. §§ 1307(f), 1317, 1318 and
52 Pa. Code § 53.61, et seq.**

March 1, 2018

**Philadelphia Gas Works
66 Pa.C.S. § 1307(f) – 2018**

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PHILADELPHIA GAS WORKS
GAS SERVICE TARIFF



Issued by: Craig White
President and CEO

PHILADELPHIA GAS WORKS
800 West Montgomery Avenue
Philadelphia, PA 19122

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Updated to reflect revised page numbers for each of the changes listed below on this page.

GAS COST RATE (GCR) – SECTION 1307(f), II. DEFINITIONS (Page No. 67)

In the definition of "GAC," the "GAC" value effective September 1, 2018, decreases from \$(0.00137) per Ccf to \$(0.03232) per Ccf.

GAS COST RATE (GCR) – SECTION 1307(f), II. DEFINITIONS (Page No. 67A)

In the definition of "IRC," the "IRC" value effective September 1, 2018, decreases from \$0.00016 to \$0.00015 per Ccf. In the definition of "SSC," the "SSC" value effective September 1, 2018, increases from \$0.39010 per Ccf to \$0.43616 per Ccf.

GAS COST RATE (GCR) – SECTION 1307(f), III. COMPUTATION OF GCR (Page No. 68)

The Gas Cost Rate (GCR) effective September 1, 2018, increases from \$0.38857 per Ccf to \$0.40369 per Ccf.

PRICE TO COMPARE (Page No. 78)

The Prices to Compare effective September 1, 2018, are: a) \$0.42302 per Ccf for Residential; b) \$0.41034 per Ccf for Commercial Customers on Rate GS; c) \$0.40941 per Ccf for Industrial Customers on Rate GS; and d) \$0.40784 per Ccf for Municipal Customers on Rate MS, The Philadelphia Housing Authority on Rate PHA, Public Housing Customers on Rate GS & Natural Gas Vehicle Service on Rate NGVS.

RESTRUCTURING AND CONSUMER EDUCATION SURCHARGE (Page No. 79)

The Current Restructuring and Consumer Education Surcharge effective September 1, 2018, is \$0.00001 per Ccf.

EFFICIENCY COST RECOVERY SURCHARGE (Page No. 80)

The Efficiency Cost Recovery Surcharges effective September 1, 2018, are: a) \$0.00254 per Ccf for Residential and Public Housing Customers on Rate GS; b) \$0.00587 per Ccf for Commercial Customers on Rate GS; c) \$0.00422 per Ccf for Industrial Customers on Rate GS; d) \$0.00000 per Ccf for Municipal Customers on Rate MS; and e) \$0.00587 per Ccf for The Philadelphia Housing Authority on Rate PHA.

UNIVERSAL SERVICE AND ENERGY CONSERVATION SURCHARGE (Page No. 81)

The Universal Service and Energy Conservation Surcharge effective September 1, 2018, decreases from \$0.17145 per Ccf to \$0.14818 per Ccf.

OTHER POST EMPLOYMENT BENEFIT ("OPEB") SURCHARGE (Page No. 82)

The Other Post Employment Benefit Surcharge effective September 1, 2018, decreases from \$0.03785 per Ccf to \$0.03264 per Ccf.

GENERAL SERVICE – RATE GS (Page No. 83)

The Gas Cost Rate (GCR) effective September 1, 2018, increases from \$0.38857 per Ccf to \$0.40369 per Ccf.

MUNICIPAL SERVICE – RATE MS (Page No. 87)

The Gas Cost Rate (GCR) effective September 1, 2018, increases from \$0.38857 per Ccf to \$0.40369 per Ccf.

PHILADELPHIA HOUSING AUTHORITY SERVICE – RATE PHA (Page No. 90)

The Gas Cost Rate (GCR) effective September 1, 2018, increases from \$0.38857 per Ccf to \$0.40369 per Ccf.

DEVELOPMENTAL NATURAL GAS VEHICLE SVC - RATE NGVS FIRM SERVICE (Page No. 135)

The Gas Cost Rate (GCR) effective September 1, 2018, increases from \$0.38857 per Ccf to \$0.40369 per Ccf.

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GAS COST RATE (GCR) -- SECTION 1307(f)

I. PROVISION FOR ADJUSTMENT

The Gas Cost Rate shall be applied to each Mcf (1,000 cubic feet) for Firm Retail Sales Service Gas supplied under Rates Schedules GS, MS, PHA, and NGVS-Firm, except for Gas usage under the Special Provisions – Air Conditioning of those rates calculated in a manner set forth below, pursuant to 66 Pa.C.S. §1307(f). Such rates for Firm Sales Service Gas may be increased or decreased from time to time under the procedures set forth in Section II.B. below to reflect changes in the level of Gas costs incurred or projected to be incurred by PGW related to Sales Service.

II. DEFINITIONS

C - The current cost of Natural Gas and other raw materials determined as follows: (a) for all types of Gas, project the cost for each purchase (adjusted for net current Gas stored) for the computation year plus (b) the of (1) the projected book value of non-current Gas at the beginning of the computation year minus (2) the projected book value of non-current Gas at the end of the computation year. In addition to any cost authorized by the Commission, the cost of Natural Gas may include any item included in the definition of Natural Gas costs set forth in 66 Pa.C.S. § 1307(h) ("Definition"). The Factor "C" includes two components -- Commodity Costs and Demand Costs which are defined as follows: Commodity Costs - the actual cost of natural gas and purchased electric for firm customers that does not include the fixed costs associated with the transportation and storage of natural gas; and Demand Costs - the fixed costs associated with the transportation and storage of natural gas for firm customers.

Effective 9/1/08, 75% of off system sales margin and capacity release credits will be allocated to the Factor "C" and 25% to the Company. Effective 9/1/09, 75% of storage asset management fees will be allocated to the Factor "C" and 25% to the Company.

Computation Year - The 12-month forecast period as identified in the Company's annual 1307(f) filing and each quarterly GCR filing.

E - Experienced net over billing (or under billing) of the cost of Natural Gas and other raw materials applicable to the GCR reported in the most recent Section 1307(f) proceeding. Such over billings (or under billings) will be made with interest at the rate and method set forth by the Pennsylvania Public Utility Commission. Additionally, supplier refunds received prior to the end of the August billing period will be included in the Factor "E." The Factor "E" includes two components -- Commodity Costs and Demand Costs which are defined above in the Factor "C" definition. Credit or recovery of the factor "E" is completed over the Company's Fiscal Year.

Firm Sales Service - The service provided to Customers who receive firm supply service from PGW. The term does not include the service provided to Customers who receive interruptible supply service from PGW.

GAC (Gas Adjustment Charge) - The "E" factor component of the GCR, representing the net overcollection or undercollection of Natural Gas and other raw materials costs. The currently effective GAC is \$(0.02991) per Ccf for Commodity Costs and \$(0.00241) per Ccf for Demand Costs, for service on or after September 1, 2018. The total GAC is \$(0.03232) per Ccf.

(D)

GCR - Gas Cost Rate determined to the nearest one-hundredth cent (\$0.0001) to be applied to each Mcf of Gas supplied under Rates GS, MS, PHA, and NGVS-Firm, except for Gas usage under the Special Provisions – Air Conditioning of those rates and is equal to the SSC plus the GAC minus the IRC.

(D) – Decrease

IRC - Interruptible Revenue Credit - The credit defined in Subsection VI below. The currently effective IRC is \$0.00015 per Ccf for service on or after September 1, 2018.

(D)

Natural Gas or Gas - The volumes of gas purchased or manufactured by the Company that is delivered to the Company's Customers, plus such portion of the Company-used and unaccounted-for gas as the Commission permits, including, but not limited to, natural gas, liquefied natural gas, synthetic gas, liquefied propane and naphtha.

S - Projected applicable Mcf of Gas to be billed to Customers during the computation year.

SSC - Sales Service Charge - The purchased Gas costs determined to the nearest $\frac{1}{100}$ of a cent (\$0.0001). The currently effective SSC is \$0.31425 per Ccf for Commodity Costs and \$0.12191 per Ccf for Demand Costs, for service on or after September 1, 2018. The total SSC is \$0.43616 per Ccf.

(I)

(D) – Decrease; (I) – Increase

III. COMPUTATION OF GAS COST RATE

A. The GCR shall be computed to the nearest one-thousandth cent (\$0.00001) in accordance with the formula set forth below as the terms are defined in Section II:

$$\begin{aligned} \text{SSC} &= \text{C/S} \\ \text{GAC} &= \text{E/S} \\ \text{GCR} &= \text{SSC} + \text{GAC} - \text{IRC} \end{aligned}$$

B. Each Gas Cost Rate so computed shall be applied to Customers' bills for twelve monthly billing periods commencing with September.

The currently effective Gas Cost Rate is \$0.40369 per Ccf, for service on or after September 1, 2018. (I)

IV. REPORTING REQUIREMENTS

A. The Company's rates are subject to quarterly adjustments for recovery of the Gas Cost Rate under procedures set forth in Section 1307(f) of the Public Utility Code.

B. The filing of the Company's annual Section 1307(f) filing, annual Gas Cost Rate, effective during the billing period of September through August, shall be submitted to the Commission by March 1 of each year, with a February 1 pre-filing date.

C. The application of the Gas Cost Rate shall be subject to review and audit by the Commission at such intervals as the Commission shall determine.

D. If it shall be determined, from audit by the Commission, or by final order entered after notice and hearing, that the application of this clause has resulted in the overcollection or undercollection of revenues, then the Company shall apply such over/undercollection as a credit or debit against future Gas Cost Rates.

V. PROVISION FOR INCLUSION OF SPECIFIC NON-GAS EXPENSES

The computation of the Gas Cost Rate may include such Non-Gas expenses as may be authorized by this tariff and annually authorized by the Commission.

VI. INTERRUPTIBLE REVENUE CREDIT (IRC)

A. The GCR rate shall be credited with an Interruptible Revenue Credit (IRC) equal to the margin realized from interruptible sales under PGW's Interruptible Sales Tariff Rates: BPS, LBS; and CG (Total Margin Revenue).

B. The IRC shall be set each year in the Company's 1307(f) proceeding to reflect the Total Margin Revenue. The rate per Mcf shall be calculated by dividing the Total Margin Revenue by total applicable firm sales. For the period September 1, 2003 through August 31, 2004 the IRC shall be initially set to reflect the Total Margin Revenue authorized by the Commission in its final order at M-00021612 (entered March 31, 2003).

(I) – Increase

MERCHANT FUNCTION CHARGE (“MFC”)

The MFC is a volumetric charge, applied to firm sales service customers, which will be included in the Price to Compare. The MFC is based on Gas Cost Rate multiplied by a fixed uncollectible percentage established in the Company’s last general base rate proceeding. The MFC will not be reconciled to reflect actual results. The MFC is intended to make the Company’s Price to Compare more comparable to the gas supply services price offers of other Natural Gas Suppliers that presumably reflect anticipated uncollectible expenses. The following percentages will be applied to the quarterly Gas Cost Rate in order to calculate the quarterly MFC: 3.76% - GS Residential (“GS RES”); 0.62% - GS Commercial (“GS COM”); and 0.39% - GS Industrial (“GS IND”). The current MFC is set forth below in the Price to Compare table.

GAS PROCUREMENT CHARGE (“GPC”)

The GPC is a volumetric charge, applied to firm sales service customers, which will be included in the Price to Compare. The GPC will remain in effect until reviewed and updated in the Company’s next general base rate proceeding.

Current Gas Procurement Charge = \$0.00400/Ccf

PRICE TO COMPARE (“PTC”)

The PTC is composed of the Sales Service Charge (“SSC”), Gas Adjustment Charge (“GAC”), the Merchant Function Charge and the Gas Procurement Charge. The PTC will change whenever any of the components of the PTC change. The current PTC is (per Ccf):

	GS RES	GS PH	GS COM	GS IND	MS	PHA	NGVS
SSC	\$0.43616	\$0.43616	\$0.43616	\$0.43616	\$0.43616	\$0.43616	\$0.43616
GAC	(\$0.03232)	(\$0.03232)	(\$0.03232)	(\$0.03232)	(\$0.03232)	(\$0.03232)	(\$0.03232)
MFC	\$0.01518	\$0.00000	\$0.00250	\$0.00157	\$0.00000	\$0.00000	\$0.00000
GPC	\$0.00400	\$0.00400	\$0.00400	\$0.00400	\$0.00400	\$0.00400	\$0.00400
PTC	\$0.42302	\$0.40784	\$0.41034	\$0.40941	\$0.40784	\$0.40784	\$0.40784

(C)

(C) – Change

RESTRUCTURING AND CONSUMER EDUCATION SURCHARGE

Non-Gas restructuring and consumer education costs, including the costs arising from implementation and administration of the Account Number Access Mechanism as specified in the Commission's Final Order entered on October 27, 2016, at Docket No. M-2015-2468991, will be recovered by a Restructuring and Consumer Education Surcharge applicable to all volumes of Gas delivered.

1. Computation of the Restructuring and Consumer Education Surcharge factors will be in accordance with the automatic adjustment procedures utilized under Section 1307 of the Public Utility Code and will be filed and approved in conjunction with the Company's annual Section 1307(f)-GCR filing.
2. Restructuring and Consumer Education costs recovered through the Surcharge mechanism are the Commission approved costs which the Company has or will incur to meet the requirements of the Natural Choice and Competition Act and applicable Commission regulations, orders and other regulatory requirements, other than those costs pertaining to universal service and energy conservation programs.
3. Once the surcharge is in place, PGW shall file reconciliation statements quarterly and shall submit a claim for over/under recovery on an annual basis, at the same time it submits its projected Restructuring costs and Restructuring Surcharge claim for the next year; provided however, that if a project for which costs were included in the Restructuring Surcharge is cancelled or delayed beyond the year in which the cost was originally scheduled to be incurred, the Company will withdraw the projected costs of that project from the Restructuring Surcharge in its next quarterly update. No interest will be included in such surcharge computations. The basic component of the surcharge will be determined by dividing the restructuring and consumer education costs approved for annual recovery by the estimated applicable throughput in Mcf.
4. The Restructuring and Consumer Education Surcharge shall remain in effect until restructuring and consumer education costs have been collected or as otherwise directed by the Commission.
5. The Restructuring and Consumer Education Surcharge is effective on and after September 1, 2008.

Current Restructuring and Consumer Education Surcharge = \$0.00001/Ccf

(C)

(C) - Change

EFFICIENCY COST RECOVERY SURCHARGE

The cost of the energy efficiency programs (i.e. the demand side management programs) for the firm customer rate classes listed below will be recovered by an Efficiency Cost Recovery Surcharge applicable to all volumes of Gas delivered.

- 1) The Surcharge will recover the program costs and the administrative costs of the energy efficiency program.
- 2) Computation of the Efficiency Cost Recovery Surcharge factors will be in accordance with the automatic adjustment procedures utilized under Section 1307(f) of the Public Utility Code and will be filed and approved in conjunction with the Company's annual Section 1307(f)-GCR filing.
- 3) Once the surcharge is in place, it will be automatically adjusted effective March 1, June 1, September 1, and December 1 of each year in accordance with Section 1307(f) quarterly adjustment procedures. No interest will be included in such surcharge computations. The basic component of the surcharge will be determined by dividing the total energy efficiency program costs approved for annual recovery plus (or minus) any over (or under) recovery from the prior period by the estimated applicable throughput in Mcfs. The costs related to customers other than low income residential customers are tracked and will be recovered separately from each of the following firm customer rate classes if the customer class is served by the energy efficiency program:
 - a) Residential and Public Housing Customers on Rate GS;
 - b) Commercial Customers on Rate GS;
 - c) Industrial Customers on Rate GS;
 - d) Municipal Customers on Rate MS; and
 - e) The Philadelphia Housing Authority on Rate PHA.

The surcharge shall be a cents per Ccf charge calculated to the nearest one-thousandth of a cent (0.00001) which shall be added to the distribution rates for billing purposes for all customers in each of the above rate classes. The rate shall be calculated separately for each rate class as follows:

- | | |
|---|------|
| a) \$0.00254 per Ccf for Residential and Public Housing Customers on Rate GS; | (I) |
| b) \$0.00587 per Ccf for Commercial Customers on Rate GS; | (I) |
| c) \$0.00422 per Ccf for Industrial Customers on Rate GS; | (I) |
| d) \$0.00000 per Ccf for Municipal Customers on Rate MS; and | (NC) |
| e) \$0.00587 per Ccf for The Philadelphia Housing Authority on Rate PHA. | (I) |

The Enhanced Low Income Retrofit Program costs shall be recovered through the Universal Services Surcharge beginning on September 1, 2010.

(I) – Increase; (NC) – No Change

UNIVERSAL SERVICE AND ENERGY CONSERVATION SURCHARGE

Universal service and energy conservation program and related costs will be recovered by a Universal Service and Energy Conservation Surcharge applicable to all volumes of Gas delivered.

1. The Surcharge will recover: 1) the discounts provided to Customers pursuant to the Customer Responsibility Program (CRP); 2) the discounts provided to Customers pursuant to the Senior Citizen Discount; 3) the costs of the Conservation Works Program (CWP) and the Enhanced Low Income Retrofit Program (ELIRP); and, 4) for Customers entering the CRP program on or after September 1, 2003, past due arrearages forgiven pursuant to paragraph A (6) of the CRP/CAP Program Design Stipulation approved by the Commission by its order at M-00021612 (entered March 31, 2003).
2. Computation of the Universal Service and Energy Conservation Surcharge factors will be in accordance with the automatic adjustment procedures utilized under Section 1307(f) of the Public Utility Code and will be filed and approved in conjunction with the Company's annual Section 1307(f)-GCR filing.
3. Once the surcharge is in place it will be automatically adjusted effective March 1, June 1, September 1, and December 1 of each year in accordance with Section 1307(f) quarterly adjustment procedures. No interest will be included in such surcharge computations. The basic component of the surcharge will be determined by dividing the total universal service and energy conservation program costs approved for annual recovery by the estimated applicable throughput in Mcfs.
4. The Universal Service and Energy Conservation Surcharge shall take effect upon the effective date of this Tariff.

Current Universal Service and Energy Conservation Surcharge = \$ 0.14818/Ccf.

(D)

(D) - Decrease

OTHER POST EMPLOYMENT BENEFIT (“OPEB”) SURCHARGE

The amounts necessary to fund PGW's Other Post Employment Benefit obligations will be recovered by an Other Post Employment Benefit Surcharge applicable to all volumes of Gas delivered.

1. Computation of the Other Post Employment Benefit Rider Surcharge factors will be in accordance with the automatic adjustment procedures utilized under Section 1307(f) of the Public Utility Code and will be filed and approved in conjunction with the Company's annual Section 1307(f)-GCR filing.
2. Once the surcharge is in place it will be automatically adjusted effective September 1 of each year to account for over (under) recoveries in accordance with Section 1307(f) adjustment procedures. No interest will be included in such surcharge computations. The basic component of the surcharge will be determined plus (or minus) any over (or under) recovery from the prior period by dividing the total OPEB funding amounts approved for annual recovery by the estimated applicable throughput in Mcfs.
3. The Other Post Employment Benefit Rider Surcharge shall take effect upon the effective date of this Tariff.

Current Other Post Employment Benefit Rider Surcharge = \$0.03264/Ccf

(D)

(D) - Decrease

GENERAL SERVICE - RATE GS

Rate: Applicable to all Retail Sales Service or Transportation Service rendered pursuant to this Rate Schedule on or after September 1, 2018.

AVAILABILITY

Available for any purpose where the Company's distribution mains adjacent to the proposed Gas Service location are, or can economically be made, suitable to supply the quantities of Gas or Transportation Services required.

RATES

CUSTOMER CHARGE (per Meter (except parallel meters)):

\$ 13.75 per month for Residential and Public Housing Authority Customers.
\$ 23.40 per month for Commercial Customers
\$ 70.00 per month for Industrial Customers

Surcharge: Distribution System Improvement Charge.

Plus,

GCR (not applicable to GS Customers who transport gas through a qualified NGS):

\$0.40369	per Ccf for Residential and Public Housing	(I)
\$0.40369	per Ccf for Commercial Customers	(I)
\$0.40369	per Ccf for Industrial Customers	(I)

Plus,

DISTRIBUTION CHARGE (consisting of items (A) and (B), below):

(A) Delivery Charge:

\$0.66967	per Ccf for Residential
\$0.57105	per Ccf for Public Housing
\$0.48651	per Ccf for Commercial and Municipal Customers
\$0.47698	per Ccf for Industrial Customers

(B) Surcharges:

Universal Service and Energy Conservation Surcharge; Restructuring and Consumer Education Surcharge; Efficiency Cost Recovery Surcharge; Other Post Employment Benefit Surcharge; and Distribution System Improvement Charge.

(I) - Increase

Note: The Commodity Charge includes the Sales Service Charge, the Merchant Function Charge and the Gas Procurement Charge.

MUNICIPAL SERVICE - RATE MS

Rate: Applicable to all Retail Sales Service or Transportation Service rendered pursuant to this Rate Schedule on or after September 1, 2018.

AVAILABILITY

Available to properties owned or occupied by the City of Philadelphia or the Board of Education, or any of their respective agencies or instrumentalities, for any type of Gas Service, unless purchased for resale to others, and where the Company's distribution mains adjacent to the proposed Gas Service locations are, or can economically be made, suitable to supply the quantities of Gas required; provided, however, that the rate shall not be available to Commercial Tenants of any such property.

RATES

CUSTOMER CHARGE (per Meter (except parallel meters):

\$ 23.40 per month

Surcharge: Distribution System Improvement Charge.

Plus,

GCR (not applicable to MS Customers who transport Gas through a qualified NGS):

\$0.40369 per Ccf

(I)

Plus,

DISTRIBUTION CHARGE (consisting of items (A) and (B), below):

(A) Delivery Charge:

\$0.42723 per Ccf

(B) Surcharges:

Universal Service and Energy Conservation Surcharge; and The Restructuring and Consumer Education Surcharge; the Efficiency Cost Recovery Surcharge; Other Post Employment Benefit Surcharge; and Distribution System Improvement Charge.

(I) - Increase

Note: The Commodity Charge includes the Sales Service Charge, the Merchant Function Charge and the Gas Procurement Charge.

PHILADELPHIA HOUSING AUTHORITY SERVICE - RATE PHA

Rate: Applicable to all Retail Sales Service or Transportation Services rendered pursuant to this Rate Schedule on or after September 1, 2018.

AVAILABILITY

Available for all Gas usage in multiple dwelling Residential buildings containing 10 or more dwelling units, owned and operated by the Philadelphia Housing Authority, where cooking shall be performed exclusively with Gas and where Gas Service shall be supplied through one or more single point metering arrangements at locations where the Company's distribution mains adjacent to the proposed Gas Service locations are, or can economically be made, suitable to supply the quantities of Gas required.

This rate is also available for all Gas usage in single and multiple dwelling Residential buildings, containing less than 10 dwelling units, provided, and only so long as, Gas is used exclusively for cooking, water heating and space heating for all such Residential buildings owned and operated by the Philadelphia Housing Authority, except (a) buildings operated by the Philadelphia Housing Authority, prior to the original effective date of this rate (January 1, 1969), and (b) buildings for which, in the judgment of the Company, such Gas Service cannot be provided economically.

RATES

CUSTOMER CHARGE (per Meter (except parallel meters);

\$23.40 per month

Surcharge: Distribution System Improvement Charge.

Plus,

GCR (not applicable to PHA customers who transport gas through a qualified NGS):

\$0.40369 per Ccf

(I)

Plus

DISTRIBUTION CHARGE (consisting of item (A) and (B), below):

(A) Delivery Charge:

\$0.50163 per Ccf

(B) Surcharges:

Universal Service and Energy Conservation Surcharge; and The Restructuring and Consumer Education Surcharge; the Efficiency Cost Recovery Surcharge; Other Post Employment Benefit Surcharge; and Distribution System Improvement Charge.

(I) - Increase

Note: The Commodity Charge includes the Sales Service Charge, the Merchant Function Charge and the Gas Procurement Charge.

**DEVELOPMENTAL NATURAL GAS VEHICLE SERVICE - RATE NGVS
FIRM SERVICE**

Rate: Applicable to all Retail Sales Service rendered pursuant to this Rate Schedule on or after
September 1, 2018.

AVAILABILITY

This service is available to provide uncompressed Natural Gas to any Customer for the exclusive purpose of compressing such Gas for use as fuel for motor vehicles. The compression of the Natural Gas to the pressure required for use as a motor vehicle fuel will be conducted by the Customer, at the Customer's designated premises. Service shall only be available where the Company's distribution system is, or can economically be made available to supply the service. Each Customer will be required to execute a service agreement which will specify terms and conditions of service.

CHARACTER OF SERVICE

Service under this rate schedule is firm and shall only be interrupted in the case of operating emergencies experienced by the Company.

MONTHLY RATE

CUSTOMER CHARGE:

\$35.00 per month

Surcharge: Distribution System Improvement Charge.

Plus,

GCR (not applicable to NGVS customers who transport gas through a qualified NGS):

\$0.40369 per Ccf

(I)

Plus

DISTRIBUTION CHARGE (consisting of item (A) and (B), below):

(A) Delivery Charge (Updated in Supplement No. 65 – Issued: July 10, 2013; Effective: October 1, 2013):

\$0.12833 per Ccf

(B) Surcharges:

Universal Service and Energy Conversation Surcharge; The Restructuring and Consumer Education Surcharge; Other Post Employment Benefit Surcharge; and Distribution System Improvement Charge.

(I) – Increase

Note: The Commodity Charge includes the Sales Service Charge, the Merchant Function Charge and the Gas Procurement Charge.

PGW
Gas Supplier Tariff
Pa. P.U.C. No. 1

Supplement No. 76

PHILADELPHIA GAS WORKS

GAS SUPPLIER TARIFF



Issued by: Craig White
President and CEO
PHILADELPHIA GAS WORKS
800 West Montgomery Avenue
Philadelphia, PA 19122

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SECRETARY'S BUREAU

List of Changes Made by this Tariff

9.14. LOAD BALANCING CHARGE, 9.14.A. (Page No. 39)

The load balancing charge effective September 1, 2018, is \$38.0308 per design day Mcf.

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9.14. LOAD BALANCING CHARGE.

9.14.A. Suppliers for all gas delivered under Firm Transportation Rates, of this Suppliers Tariff shall be charged at \$38.0308 per design day Mcf that is fulfilled by PGW storage and peaking assets, for recovery of those costs for Balancing Service, calculated in the manner set forth in the Commission's Order at M-00021612 (entered March 31, 2003) and as set forth below. Such rate for Balancing Service shall be increased or decreased, from time to time, in accordance with applicable law and procedures. (I)

9.14.B. Computation of Balancing Service Costs per Dth.

9.14.B.1. Formula. Balancing Service Costs, per design day Mcf, that is fulfilled by PGW storage and peaking assets, shall be computed to the nearest one-hundredth cent (\$0.0001) in accordance with the formula set forth below:

$$\text{BSC} = (C / S_1) - (E / S_2)$$

Projected Balancing Service Costs, so computed, shall be charged to Suppliers of Firm Transportation Rates per Customer per design day Mcf that is fulfilled by PGW storage and peaking assets, for an enrollment month. The amount of those costs, per Mcf, will vary, if appropriate, based upon annual filings by the Company pursuant to Section 1307(f) of the Public Utility Code and such supplemental filings as may be required or be appropriate under Section 1307(f) or the PUC's regulations adopted pursuant thereto.

9.14.B.2. Definitions. In computing the Balancing Service Costs, per Dth, pursuant to the formula above, the following definitions shall apply:

"BSC" - Balancing Service Costs determined to the nearest one-hundredth cent (\$0.0001) to be charged to each design day Mcf that is fulfilled by PGW storage and peaking assets, under Rate Schedule Firm.

"C" - Cost in dollars: for all types of storage and related services, the fixed and variable costs for the projected period when rates will be in effect.

"E" - the net overcollection or undercollection of Balancing Service Costs. The net overcollection or undercollection shall be determined for the most recent period permitted under law, which shall begin with the month following the last month which was included in the previous overcollection or undercollection calculation reflected in rates. The annual filing date shall be the date specified by the PUC for the Company's Section 1307(f) Tariff filing.

Each overcollection or undercollection statement shall also provide for refund or recovery of amounts necessary to adjust for overrecovery or underrecovery of "E" factor amounts under the previous Balancing Service Costs Rate. Interest shall be computed monthly at the rate as provided for in Section 1307(f) of the Public Utility Code from the month that the overcollection or undercollection occurs to the effective month such overcollection is refunded or undercollection is recouped. Such over billings (or under billings) will be made with interest at the statutory rate.

"S₁" – projected Mcf of storage gas/LNG to be delivered to Customers to meet design day needs during the projected period when rates will be in effect.

"S₂" – forecasted Mcf of load balancing volumes during the projected period when rates will be in effect.

(I) – Increase

Philadelphia Gas Works

Pennsylvania Public Utilities Commission
52 Pa. Code § 53.61. et seq.

Item 53.64(a) A Section 1307(f) gas utility may only voluntarily file a tariff reflecting an increase or decrease in natural gas costs once a year in accordance with the schedule established by the Commission, as published in the Pennsylvania Bulletin prior to the first day of September of each preceding year. If no new tariff is filed at that time, gas utilities under 66 Pa.C.S. § 1307(f) shall nevertheless file for the reconciliation of amounts collected and expended during prior periods as set forth in subsection (i). The tariff may reflect either an annual levelized rate, or a seasonal levelized rate pursuant to which a levelized 6-month “summer” rate period and a levelized 6-month “winter” rate period would apply. Upon good cause shown, the tariff may reflect other summer/winter rate periods as may be justified by operational considerations.

Response: Please see the attached worksheets.

1307(f) GCR FILING
PA Code 53.64(a)

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Philadelphia Gas Works

Levelized Gas Cost Rate

September 1, 2018

Formula:
GCR = SSC + GAC - IRC

where:

	<u>Demand</u>	<u>Commodity</u>	<u>Total</u>	
S = Firm Sales (Mcf)			43,373,336	Schedule 2
Net Natural Gas Expense	\$ 53,126,818	\$ 136,212,842	\$ 189,339,660	
Purchased Electric & Misc Expenses	\$ -	\$ 737,801	\$ 737,801	
C = Total Applicable GCR Expense	\$ 53,126,818	\$ 136,950,644	\$ 190,077,462	
SSC = C / S	\$ 1.2249	\$ 3.1575	\$ 4.3824	
Adjustment For:				
E-Factor Volumes (Mcf)			43,087,825	Schedule 4(c)
Interest	\$ (214,106)	\$ (481,807)	\$ (695,913)	Schedule 5(b)
E-Factor Reconciliation	\$ (819,989)	\$ (12,370,585)	\$ (13,190,573)	Schedule 4(b), 4(c)
	\$ (1,034,094)	\$ (12,852,392)	\$ (13,886,486)	
E = E-Factor	\$ (0.0240)	\$ (0.2983)	\$ (0.3223)	
Interruptible Revenue Credit			\$ 66,404	Schedule 10(a)
IRC = Interruptible Revenue Credit / S			\$ 0.0015	
Net Applicable GCR Expenses = C + E - Interruptible Revenue Credit			\$ 176,124,571	
<u>GCR = SSC + GAC - IRC</u>			\$ 4.0586	
SSC in effect 3/01/18	\$ 1.2191	\$ 3.1425	\$ 4.3616	
GAC in effect 3/01/18	\$ (0.0241)	\$ (0.2991)	\$ (0.3232)	
IRC in effect 3/01/18			\$ (0.0015)	
GCR in effect 3/01/18			\$ 4.0369	Schedule 7
Recovery Test on:				
Firm Sales (Mcf)			43,373,336	
= GCR Projected Recovery		\$	175,028,962	
= Load Balancing Revenue		\$	1,016,402	
= LNG Sales Demand Revenue		\$	80,843	
= Total Projected Recovery		\$	176,126,208	Schedule 7
Compared To				
Net Applicable GCR Expenses		\$	176,124,571	
= Net Over/(Under) Recovery		\$	1,637	
Degree Days			3,957	

Philadelphia Gas Works

Price To Compare (\$ / MCF)

September 1, 2018

	GCR	GCA	SSC	MFC	MFC Charge	GPC Charge	GAC	Price to Compare
	1	2	3 = (1 - 2)	4	5 = (1 * 4)	6	7	8 = (3 + 5 + 6 + 7)
Residential GS	\$4.0369	(\$0.3247)	\$4.3616	3.76%	\$0.1518	\$0.0400	(\$0.3232)	\$4.2302
Commercial GS	\$4.0369	(\$0.3247)	\$4.3616	0.62%	\$0.0250	\$0.0400	(\$0.3232)	\$4.1034
Industrial GS	\$4.0369	(\$0.3247)	\$4.3616	0.39%	\$0.0157	\$0.0400	(\$0.3232)	\$4.0941
Phila. Housing Authority (PHA)	\$4.0369	(\$0.3247)	\$4.3616	0%	\$0.0000	\$0.0400	(\$0.3232)	\$4.0784
Municipal (MS)	\$4.0369	(\$0.3247)	\$4.3616	0%	\$0.0000	\$0.0400	(\$0.3232)	\$4.0784
NGV Firm	\$4.0369	(\$0.3247)	\$4.3616	0%	\$0.0000	\$0.0400	(\$0.3232)	\$4.0784
Phila. Housing Authority (GS)	\$4.0369	(\$0.3247)	\$4.3616	0%	\$0.0000	\$0.0400	(\$0.3232)	\$4.0784

SALES & VOLUMES

SEPTEMBER 2018 THROUGH AUGUST 2019

MONTH	TOTAL VOLUMES	FIRM TRANSPORT VOLUMES	BILLED SALES	INTERRUPTIBLE SALES	LNG SALES	AIR CONDITIONING SALES	GCR FIRM SALES	SENIOR CITIZEN DISCOUNT SALES	APPLICABLE VOLUMES
	1	2	3 = (1 - 2)	4	4A	4B	5 = (3 - 4 - 4A - 4B)	6	7 = (5 - 6 + 2)
SEPTEMBER 2018	1,032,198	162,136	870,062	4,697	5,425	2,027	857,913	2,933	1,017,116
OCTOBER	1,530,024	249,822	1,280,202	4,854	5,605	-	1,269,743	4,699	1,514,866
NOVEMBER	3,445,312	436,957	3,008,354	4,697	5,425	-	2,998,232	13,237	3,421,952
DECEMBER	6,122,521	710,732	5,411,789	4,854	5,605	-	5,401,330	24,660	6,087,402
JANUARY 2019	10,460,770	1,021,928	9,438,842	4,854	5,605	-	9,428,383	44,152	10,406,158
FEBRUARY	8,983,212	875,368	8,107,845	4,384	5,063	-	8,098,397	37,197	8,936,568
MARCH	6,952,211	709,073	6,243,138	4,854	5,605	-	6,232,678	27,637	6,914,115
APRIL	4,669,728	453,917	4,215,811	4,697	5,425	-	4,205,689	18,148	4,641,458
MAY	2,153,833	252,131	1,901,703	4,854	5,605	-	1,891,243	7,183	2,136,191
JUNE	1,316,988	200,836	1,116,152	4,697	5,425	1,328	1,104,702	3,286	1,302,252
JULY	1,204,984	189,760	1,015,225	4,854	5,605	2,131	1,002,634	2,853	1,189,541
AUGUST	<u>1,062,942</u>	<u>167,912</u>	<u>895,030</u>	<u>4,854</u>	<u>5,605</u>	<u>2,177</u>	<u>882,393</u>	<u>2,471</u>	<u>1,047,835</u>
TOTAL	48,934,724	5,430,573	43,504,151	57,152	66,000	7,663	43,373,336	188,454	48,615,454

**PROJECTED APPLICABLE FUEL EXPENSE
SUMMARY
SEPTEMBER 2018 - AUGUST 2019**

	SEPTEMBER 2018	OCTOBER 2018	NOVEMBER 2018	DECEMBER 2018	JANUARY 2019	FEBRUARY 2019	MARCH 2019	APRIL 2019	MAY 2019	JUNE 2019	JULY 2019	AUGUST 2019	TOTAL
NATURAL GAS BILLED													
DEMAND CHARGE	\$3,943,728	\$3,907,119	\$4,576,669	\$4,620,295	\$4,619,455	\$4,662,104	\$4,852,606	\$4,767,437	\$4,293,702	\$4,300,764	\$4,291,934	\$4,291,007	\$53,126,818
DEMAND CHARGE CREDIT FOR LNG SALES	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
COMMODITY CHARGE	\$7,914,991	\$11,920,512	\$13,857,455	\$17,697,258	\$13,751,731	\$15,155,719	\$9,687,994	\$10,130,754	\$11,357,220	\$9,034,496	\$8,769,439	\$8,815,956	\$138,093,524
TOTAL NATURAL GAS BILLED	\$11,858,718	\$15,827,631	\$18,434,124	\$22,317,553	\$18,371,185	\$19,817,823	\$14,540,600	\$14,898,191	\$15,650,922	\$13,335,259	\$13,061,373	\$13,106,963	\$191,220,342
INTERRUPTIBLE AND FIRM A/C CREDIT	\$19,599	\$14,587	\$14,375	\$15,384	\$15,402	\$13,968	\$15,089	\$13,511	\$13,586	\$16,802	\$19,661	\$19,783	\$191,747
SENDOUT VOLUME IN MCF	6,954	5,020	4,858	5,020	5,020	4,534	5,020	4,858	5,020	6,231	7,223	7,271	67,025
DKT CONVERSION FACTOR	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039	
PRICE \$/DKT	\$2.7127	\$2.7969	\$2.8482	\$2.9498	\$2.9532	\$2.9653	\$2.8932	\$2.6771	\$2.6050	\$2.5954	\$2.6197	\$2.6188	
GAS USED FOR UTILITY	\$24,197	\$30,088	\$57,562	\$105,951	\$143,063	\$126,589	\$101,978	\$62,743	\$28,623	\$27,274	\$20,234	\$25,716	\$754,017
NATURAL GAS TO STORAGE	(\$5,211,517)	(\$5,007,991)	\$0	\$0	\$0	\$0	\$0	(\$3,315,317)	(\$6,595,212)	(\$6,227,913)	(\$5,908,532)	(\$5,958,983)	(\$38,225,464)
FROM STORAGE PGW	\$0	\$0	\$363,179	\$5,367,208	\$13,250,314	\$7,900,887	\$9,237,351	\$2,237,752	\$0	\$0	\$0	\$0	\$38,356,691
FT FROM STORAGE	\$0	\$0	\$59,062	\$440,066	\$687,624	\$518,780	\$152,428	\$1,661	\$0	\$0	\$0	\$0	\$1,859,621
NET NATURAL GAS STORAGE	(\$5,211,517)	(\$5,007,991)	\$363,179	\$5,367,208	\$13,250,314	\$7,900,887	\$9,237,351	(\$1,077,565)	(\$6,595,212)	(\$6,227,913)	(\$5,908,532)	(\$5,958,983)	\$131,226
LNG TO STORAGE	(\$16,502)	(\$581,765)	(\$1,080,659)	(\$1,116,779)	(\$526,207)	(\$460,138)	(\$950,858)	(\$862,838)	(\$360,508)	(\$32,933)	\$0	\$0	(\$5,979,187)
FROM LNG PGW	\$249,217	\$258,146	\$250,653	\$704,041	\$1,123,098	\$888,892	\$314,046	\$259,858	\$268,250	\$259,376	\$268,006	\$268,006	\$5,111,588
FT FROM LNG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NET LNG STORAGE	\$232,715	(\$323,619)	(\$830,007)	(\$412,738)	\$596,891	\$428,754	(\$636,812)	(\$602,981)	(\$82,258)	\$226,443	\$268,006	\$268,006	(\$867,598)
LNG SALES FROM LNG TANK	\$15,817	\$16,346	\$15,906	\$16,612	\$16,838	\$15,304	\$17,046	\$16,609	\$17,176	\$16,596	\$17,147	\$17,147	\$198,545
SENDOUT VOLUMES (MCF)	5,425	5,605	5,425	5,605	5,605	5,063	5,605	5,425	5,605	5,425	5,605	5,605	66,000
@ AVG LNG COMMODITY RATE	\$2.9157	\$2.9161	\$2.9321	\$2.9636	\$3.0039	\$3.0228	\$3.0410	\$3.0617	\$3.0642	\$3.0593	\$3.0590	\$3.0590	
NET NATURAL GAS EXPENSE	\$6,820,303	\$10,435,001	\$17,879,454	\$27,134,075	\$32,043,088	\$27,991,602	\$23,007,026	\$13,124,782	\$8,914,067	\$7,273,117	\$7,363,806	\$7,353,340	\$189,339,660
APPLICABLE GCR EXPENSE													
NET NATURAL GAS EXPENSE	\$6,820,303	\$10,435,001	\$17,879,454	\$27,134,075	\$32,043,088	\$27,991,602	\$23,007,026	\$13,124,782	\$8,914,067	\$7,273,117	\$7,363,806	\$7,353,340	\$189,339,660
PURCHASED ELECTRIC & MISC	\$25,135	\$41,264	\$47,819	\$58,249	\$206,949	\$88,272	\$76,087	\$52,000	\$41,672	\$19,637	\$48,725	\$31,992	\$737,801
TOTAL APPLICABLE EXPENSES	\$6,845,438	\$10,476,265	\$17,927,273	\$27,192,325	\$32,250,037	\$28,079,874	\$23,083,113	\$13,176,782	\$8,955,739	\$7,292,755	\$7,412,531	\$7,385,332	\$190,077,462
TOTAL GCR FIRM SALES	857,913	1,269,743	2,998,232	5,401,330	9,428,383	8,098,397	6,232,678	4,205,689	1,891,243	1,104,702	1,002,634	882,393	43,373,336

**FISCAL YEAR 2018
PHILADELPHIA GAS WORKS**

<u>Rate</u>	<u>7/1/2017</u>	<u>Split Month 9/1/2017</u>	<u>10/1/2017</u>	<u>Split Month 12/1/2017</u>	<u>1/1/2018</u>	<u>Split Month 3/1/2018</u>	<u>4/1/2018</u>
SSC in Effect	\$ 4.6924	\$ 4.4557	\$ 4.2189	\$ 4.4734	\$ 4.7279	\$ 4.3145	\$ 3.9010
GAC in Effect	\$ (0.0909)	\$ (0.0775)	\$ (0.0640)	\$ (0.0488)	\$ (0.0335)	\$ (0.0236)	\$ (0.0137)
IRC in Effect	\$ (0.0029)	\$ (0.0028)	\$ (0.0026)	\$ (0.0029)	\$ (0.0031)	\$ (0.0024)	\$ (0.0016)
Total Effective	\$ 4.5986	\$ 4.3755	\$ 4.1523	\$ 4.4218	\$ 4.6913	\$ 4.2885	\$ 3.8857

<u>Percentage of Total</u>							
C-Factor	102.0%	101.8%	101.6%	101.2%	100.8%	100.6%	100.4%
E-Factor	-2.0%	-1.8%	-1.5%	-1.1%	-0.7%	-0.6%	-0.4%
IRC-Factor	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	0.0%
Total	100%						

<u>C-Factor</u>							
Demand Charge in Effect	\$ 1.1565	\$ 1.2182	\$ 1.2798	\$ 1.3879	\$ 1.4959	\$ 1.2253	\$ 0.9547
Commodity in Effect	\$ 3.5359	\$ 3.2375	\$ 2.9391	\$ 3.0856	\$ 3.2320	\$ 3.0892	\$ 2.9463
Total	\$ 4.6924	\$ 4.4557	\$ 4.2189	\$ 4.4734	\$ 4.7279	\$ 4.3145	\$ 3.9010

<u>Percentage of Total</u>							
Demand Charge in Effect	24.6%	27.3%	30.3%	31.0%	31.6%		
Commodity in Effect	75.4%	72.7%	69.7%	69.0%	68.4%		
Total	100%	100%	100%	100%	100%		

	<u>C-Factor Over/(Under)</u>	<u>E-Factor Over/(Under)</u>	<u>Interest Over/(Under)</u>	<u>FY 2017 Final E-Factor</u>
Fiscal Year 2017 E-Factor	\$ 1,654,251	\$ (45,457)	\$ 224,857	\$ 1,833,651

<u>Actual</u>	<u>Sep-2017 Actual</u>	<u>Oct-2017 Actual</u>	<u>Nov-2017 Actual</u>	<u>Dec-2017 Actual</u>	<u>Jan-2018 Estimated</u>	<u>Feb-2018 Estimated</u>	<u>Mar-2018 Estimated</u>	<u>Apr-2018 Estimated</u>	<u>May-2018 Estimated</u>	<u>Jun-2018 Estimated</u>	<u>Jul-2018 Estimated</u>	<u>Aug-2018 Estimated</u>	<u>FY-2017 Totals</u>
GCR Firm Sales	997,001	1,044,644	2,639,297	5,750,261	9,796,404	7,709,065	6,150,105	4,155,389	1,872,776	1,098,138	997,101	877,644	43,087,825
GCR Revenue Billed	\$ 4,400,670	\$ 4,340,618	10,995,238	\$ 25,504,332	\$ 45,957,871	\$ 36,165,538	\$ 26,374,724	\$ 16,146,597	\$ 7,277,047	\$ 4,267,033	\$ 3,874,436	\$ 3,410,259	\$ 188,714,363
Load Balancing Billed	\$ 93,712	\$ 109,718	113,717	\$ 112,668	\$ 77,569	\$ 78,100	\$ 78,518	\$ 78,935	\$ 79,461	\$ 79,988	\$ 80,513	\$ 81,039	\$ 1,063,936
LNG Sales Demand Charge Credit	\$ -	\$ -	\$ -	\$ -	\$ 153,958	\$ 5,655	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 159,613
Total Revenue Billed	\$ 4,494,382	\$ 4,450,337	\$ 11,108,955	\$ 25,617,000	\$ 46,189,398	\$ 36,249,293	\$ 26,453,241	\$ 16,225,532	\$ 7,356,507	\$ 4,347,021	\$ 3,954,949	\$ 3,491,298	\$ 189,937,912
Natural Gas Refunds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 5,020,130	\$ 5,162,832	4,690,409	\$ 4,507,314	\$ 4,103,759	\$ 4,421,425	\$ 4,290,698	\$ 4,891,139	\$ 4,885,794	\$ 4,888,994	\$ 4,883,648	\$ 4,882,577	\$ 56,628,719
Supply Charges	\$ 1,640,639	\$ 2,696,137	\$ 13,078,798	\$ 22,587,943	\$ 23,996,526	\$ 21,601,936	\$ 16,583,188	\$ 7,960,240	\$ 4,150,415	\$ 2,505,450	\$ 2,640,798	\$ 2,622,128	\$ 122,064,198
Net Cost of Fuel	\$ 6,660,769	\$ 7,858,969	17,769,207	\$ 27,095,257	\$ 28,100,285	\$ 26,023,361	\$ 20,873,886	\$ 12,851,378	\$ 9,036,209	\$ 7,394,444	\$ 7,524,446	\$ 7,504,706	\$ 178,892,917

**FISCAL YEAR 2018
PHILADELPHIA GAS WORKS
C-FACTOR RECONCILIATION**

MONTH	NET COST OF FUEL 1 (\$)	TOTAL GCR REVENUE BILLED 2 (\$)	C FACTOR % of GCR 3	C FACTOR REVENUE BILLED 4 = (2 * 3) (\$)	LOAD BALANCING REVENUE 5 (\$)	LNG SALES GCR BILLED REVENUE 6 (\$)	TOTAL C FACTOR REVENUE BILLED 7 = (4 + 5 + 6) (\$)	NATURAL GAS REFUNDS 8 (\$)	OVER/ (UNDER) RECOVERY 9 = (7 + 8 - 1) (\$)	CUMULATIVE OVER/(UNDER) 10 (\$)
SEPTEMBER 2017	6,660,769	4,400,670	101.8%	4,481,333	93,712	0	4,575,044	0	(2,085,725)	(2,085,725)
OCTOBER	7,858,969	4,340,618	101.6%	4,410,239	109,718	0	4,519,957	0	(3,339,012)	(5,424,737)
NOVEMBER	17,769,207	10,995,238	101.6%	11,171,594	113,717	0	11,285,311	0	(6,483,896)	(11,908,633)
DECEMBER	27,095,257	25,504,332	101.2%	25,801,954	112,668	0	25,914,622	0	(1,180,635)	(13,089,268)
JANUARY 2018	28,100,285	45,957,871	100.8%	46,316,419	77,569	153,958	46,547,946	0	18,447,661	5,358,393
FEBRUARY	26,023,361	36,165,538	100.8%	36,447,690	78,100	5,655	36,531,445	0	10,508,083	15,866,476
MARCH	20,873,886	26,374,724	100.6%	26,534,319	78,518	0	26,612,836	0	5,738,951	21,605,427
APRIL	12,851,378	16,146,597	100.4%	16,210,174	78,935	0	16,289,109	0	3,437,731	25,043,158
MAY	9,036,209	7,277,047	100.4%	7,305,700	79,461	0	7,385,161	0	(1,651,049)	23,392,109
JUNE	7,394,444	4,267,033	100.4%	4,283,834	79,988	0	4,363,822	0	(3,030,622)	20,361,487
JULY	7,524,446	3,874,436	100.4%	3,889,691	80,513	0	3,970,204	0	(3,554,241)	16,807,245
AUGUST	<u>7,504,706</u>	<u>3,410,259</u>	100.4%	<u>3,423,687</u>	<u>81,039</u>	<u>0</u>	<u>3,504,726</u>	<u>0</u>	<u>(3,999,979)</u>	12,807,266
Totals	178,692,917	188,714,363		190,276,635	1,063,936	159,613	191,500,183	0	12,807,266	

**FISCAL YEAR 2018
PHILADELPHIA GAS WORKS
E-FACTOR RECONCILIATION**

		GCR SALES 1	TOTAL E-FACTOR VOLUMES 2	TOTAL GCR REVENUE BILLED 3	E-FACTOR % of GCR 4	E-FACTOR GCR REVENUE BILLED 5=(3 * 4)	TOTAL E-FACTOR REVENUE 6	OVER/(UNDER) PROJECTED RECOVERY (7)
		(MCF)	(MCF)	(\$)		(\$)	(\$)	(\$)
PRIOR YEAR E-FACTOR								\$ 1,833,651
MONTH								
SEPTEMBER 2017	Actual	997,001	997,001	\$ 4,400,670	-1.8%	\$ (77,896)	\$ (77,896)	\$ (77,896)
OCTOBER	Actual	1,044,644	1,044,644	\$ 4,340,618	-1.5%	\$ (66,903)	\$ (66,903)	\$ (144,799)
NOVEMBER	Actual	2,639,297	2,639,297	\$ 10,995,238	-1.5%	\$ (169,471)	\$ (169,471)	\$ (314,270)
DECEMBER	Actual	5,750,261	5,750,261	\$ 25,504,332	-1.1%	\$ (281,183)	\$ (281,183)	\$ (595,453)
JANUARY 2018	Estimated	9,796,404	9,796,404	\$ 45,957,871	-0.7%	\$ (328,180)	\$ (328,180)	\$ (923,633)
FEBRUARY	Estimated	7,709,065	7,709,065	\$ 36,165,538	-0.7%	\$ (258,254)	\$ (258,254)	\$ (1,181,887)
MARCH	Estimated	6,150,105	6,150,105	\$ 26,374,724	-0.6%	\$ (145,142)	\$ (145,142)	\$ (1,327,029)
APRIL	Estimated	4,155,389	4,155,389	\$ 16,146,597	-0.4%	\$ (56,929)	\$ (56,929)	\$ (1,383,958)
MAY	Estimated	1,872,776	1,872,776	\$ 7,277,047	-0.4%	\$ (25,657)	\$ (25,657)	\$ (1,409,615)
JUNE	Estimated	1,098,138	1,098,138	\$ 4,267,033	-0.4%	\$ (15,044)	\$ (15,044)	\$ (1,424,660)
JULY	Estimated	997,101	997,101	\$ 3,874,436	-0.4%	\$ (13,660)	\$ (13,660)	\$ (1,438,320)
AUGUST	Estimated	877,644	877,644	\$ 3,410,259	-0.4%	\$ (12,024)	\$ (12,024)	\$ (1,450,344)
TOTAL		43,087,825	43,087,825	188,714,363		(1,450,344)	(1,450,344)	

**FISCAL YEAR 2018
PHILADELPHIA GAS WORKS
IRC FACTOR REVENUE BILLED**

MONTH	TOTAL GCR REVENUE BILLED 1	IRC- FACTOR % of GCR 2	IRC-FACTOR REVENUE BILLED 3 = (1 * 2)
	\$		\$
SEPTEMBER 2017	4,400,670	-0.06%	(2,766)
OCTOBER	4,340,618	-0.06%	(2,718)
NOVEMBER	10,995,238	-0.06%	(6,885)
DECEMBER	25,504,332	-0.06%	(16,438)
JANUARY 2018	45,957,871	-0.07%	(30,369)
FEBRUARY	36,165,538	-0.07%	(23,898)
MARCH	26,374,724	-0.05%	(14,453)
APRIL	16,146,597	-0.04%	(6,649)
MAY	7,277,047	-0.04%	(2,996)
JUNE	4,267,033	-0.04%	(1,757)
JULY	3,874,436	-0.04%	(1,595)
AUGUST	<u>3,410,259</u>	-0.04%	<u>(1,404)</u>
TOTALS	188,714,363		(111,928)

**FISCAL YEAR 2018
PHILADELPHIA GAS WORKS
RECONCILIATION OF DEMAND CHARGES**

MONTH	DEMAND CHARGES			
	LESS LOAD BALANCING CHARGE	DEMAND REVENUE	MONTHLY DEMAND	CUMULATIVE DEMAND
	REVENUE 1	BILLED 2	OVER/(UNDER) 3 = (2 - 1)	OVER/(UNDER) 4
	\$	\$	\$	\$
SEPTEMBER 2017	4,926,418	1,214,497	(3,711,922)	(3,711,922)
OCTOBER	5,053,114	1,336,935	(3,716,178)	(7,428,100)
NOVEMBER	4,576,692	3,377,772	(1,198,920)	(8,627,020)
DECEMBER	4,394,646	7,980,500	3,585,853	(5,041,167)
JANUARY 2018	3,872,232	14,654,441	10,782,209	5,741,042
FEBRUARY	4,337,671	11,531,991	7,194,320	12,935,362
MARCH	4,212,181	7,535,723	3,323,543	16,258,905
APRIL	4,812,204	3,967,150	(845,053)	15,413,851
MAY	4,806,333	1,787,940	(3,018,394)	12,395,457
JUNE	4,809,006	1,048,392	(3,760,615)	8,634,843
JULY	4,803,135	951,932	(3,851,202)	4,783,641
AUGUST	<u>4,801,538</u>	<u>837,886</u>	<u>(3,963,652)</u>	819,989
TOTALS	55,405,171	56,225,159	819,989	

**FISCAL YEAR 2018
PHILADELPHIA GAS WORKS
INTEREST CALCULATION**

MONTH	NET COST	TOTAL	OVER/	INTEREST	TIME	INTEREST	INTEREST	TOTAL
	OF FUEL ⁽¹⁾	C FACTOR	(UNDER)	RATE	FACTOR	EXPENSE	NATURAL GAS	INTEREST
	1	REVENUE	RECOVERY	4	5	6 = (3*4*5)	REFUNDS ⁽²⁾	8 = (6+7)
	(\$)	2	3 = (2 - 1)	(\$)	(\$)	(\$)	(\$)	(\$)
SEPTEMBER 17	6,660,769	4,575,044	(2,085,725)	4.50%	18/12	(140,786)	-	(140,786)
OCTOBER	7,858,969	4,519,957	(3,339,012)	4.50%	17/12	(212,862)	-	(212,862)
NOVEMBER	17,769,207	11,285,311	(6,483,896)	4.50%	16/12	(389,034)	-	(389,034)
DECEMBER	27,095,257	25,914,622	(1,180,635)	4.50%	15/12	(66,411)	-	(66,411)
JANUARY 18	28,100,285	46,547,946	18,447,661	4.50%	14/12	968,502	-	968,502
FEBRUARY	26,023,361	36,531,445	10,508,083	4.50%	13/12	512,269	-	512,269
MARCH	20,873,886	26,612,836	5,738,951	4.50%	12/12	258,253	-	258,253
APRIL	12,851,378	16,289,109	3,437,731	4.50%	11/12	141,806	-	141,806
MAY	9,036,209	7,385,161	(1,651,049)	4.50%	10/12	(61,914)	-	(61,914)
JUNE	7,394,444	4,363,822	(3,030,622)	4.50%	9/12	(102,283)	-	(102,283)
JULY	7,524,446	3,970,204	(3,554,241)	4.50%	8/12	(106,627)	-	(106,627)
AUGUST	7,504,706	3,504,726	(3,999,979)	4.50%	7/12	(104,999)	-	(104,999)
Total	178,692,917	191,500,183	12,807,266			695,913	-	695,913

(1) See Schedule 4(b)

(2) See Schedule 5(c)

**FISCAL YEAR 2018
PHILADELPHIA GAS WORKS
INTEREST ON NATURAL GAS REFUNDS**

<u>MONTH</u>	NATURAL GAS REFUNDS ⁽¹⁾	INTEREST RATE	TIME FACTOR	INTEREST ON REFUNDS
	1	2	3	4=(1*2*3)
	(\$)			(\$)
SEPTEMBER 17	0	6.00%	18/12	0
OCTOBER	0	6.00%	17/12	0
NOVEMBER	0	6.00%	34/12	0
DECEMBER	0	6.00%	15/12	0
JANUARY 18	0	6.00%	14/12	0
FEBRUARY	0	6.00%	13/12	0
MARCH	0	6.00%	12/12	0
APRIL	0	6.00%	11/12	0
MAY	0	6.00%	10/12	0
JUNE	0	6.00%	9/12	0
JULY	0	6.00%	8/12	0
AUGUST	0	6.00%	7/12	0
TOTAL	0			0

**FISCAL YEAR 2018
PHILADELPHIA GAS WORKS
DEMAND AND COMMODITY INTEREST CALCULATION**

MONTH	OVER/(UNDER) RECOVERY (1)	DEMAND CHARGE OVER/(UNDER) RECOVERY (2)	COMMODITY CHARGE OVER/(UNDER) RECOVERY	INTEREST RATE	TIME FACTOR	DEMAND INTEREST EXPENSE	COMMODITY INTEREST EXPENSE	TOTAL INTEREST EXPENSE	INTEREST ON REFUNDS (3)	TOTAL INTEREST
	1	2	3=(1-2)	4	5	6=(2*4*5)	7=(3*4*5)	8=(6+7)	9	10=(8+9)
	(\$)	(\$)	(\$)			(\$)	(\$)	(\$)	(\$)	(\$)
SEPTEMBER 17	(2,085,725)	(3,711,922)	1,626,197	4.50%	18/12	(250,555)	109,768	(140,786)	0	(140,786)
OCTOBER	(3,339,012)	(3,716,178)	377,166	4.50%	17/12	(236,906)	24,044	(212,862)	0	(212,862)
NOVEMBER	(6,483,896)	(1,198,920)	(5,284,976)	4.50%	16/12	(71,935)	(317,099)	(389,034)	0	(389,034)
DECEMBER	(1,180,635)	3,585,853	(4,766,489)	4.50%	15/12	201,704	(268,115)	(66,411)	0	(66,411)
JANUARY 18	18,447,661	10,782,209	7,665,453	4.50%	14/12	566,066	402,436	968,502	0	968,502
FEBRUARY	10,508,083	7,194,320	3,313,763	4.50%	13/12	350,723	161,546	512,269	0	512,269
MARCH	5,738,951	3,323,543	2,415,408	4.50%	12/12	149,559	108,693	258,253	0	258,253
APRIL	3,437,731	(845,053)	4,282,784	4.50%	11/12	(34,858)	176,665	141,806	0	141,806
MAY	(1,651,049)	(3,018,394)	1,367,345	4.50%	10/12	(113,190)	51,275	(61,914)	0	(61,914)
JUNE	(3,030,622)	(3,760,615)	729,993	4.50%	9/12	(126,921)	24,637	(102,283)	0	(102,283)
JULY	(3,554,241)	(3,851,202)	298,961	4.50%	8/12	(115,536)	8,909	(106,627)	0	(106,627)
AUGUST	(3,999,979)	(3,963,652)	(36,327)	4.50%	7/12	(104,046)	(954)	(104,999)	0	(104,999)
TOTAL FY 2018	12,807,266	819,989	11,987,278			214,106	481,807	695,913		695,913

**FISCAL YEAR 2019
PHILADELPHIA GAS WORKS
LOAD BALANCING REVENUE**

<u>Month</u>		<u>Load Balancing Revenue Billed (\$)</u>
September 2018	Estimated	81,439
October	Estimated	81,896
November	Estimated	82,297
December	Estimated	83,913
January 2019	Estimated	84,318
February	Estimated	84,786
March	Estimated	85,190
April	Estimated	85,655
May	Estimated	86,060
June	Estimated	86,525
July	Estimated	86,929
<u>August</u>	Estimated	<u>87,393</u>
Total		1,016,402

CALCULATION OF RECOVERED CHARGES
September 1,2018

	<u>50% March</u>	<u>11.5 Months</u>	<u>Total</u>
			(MCF) (\$)
S - Firm Sales (Mcf)	428,957	42,944,380	43,373,336
C-Factor	\$ 3.9010	\$ 4.3616	
Projected Recovery	1,673,359	187,306,206	\$ 188,979,565
S - Firm Sales (Mcf)	428,957	42,944,380	43,373,336
IRC-Factor	\$ (0.0016)	\$ (0.0015)	
Projected Recovery	(686)	(64,417)	\$ (65,103)
E-Factor Volumes (Mcf)	428,957	42,944,380	43,373,336
E-Factor	\$ (0.0137)	\$ (0.3232)	
Projected Recovery	(5,877)	(13,879,623)	\$ (13,885,500)
GCR (\$ / Mcf)	\$ 3.8857	\$ 4.0369	
GCR Projected Recovery			\$ 175,028,962
Load Balancing Revenue			\$ 1,016,402
LNG Sales Demand Revenue			\$ 80,843
TOTAL PROJECTED RECOVERY			\$ 176,126,208

Change In Rates

Rates Effective September 1, 2018

	<u>Current Rates</u>				12/01/17 Commodity Rate (5)=(1)+(2)+(3)+(4)
	12/01/17 <u>Distribution Charge</u> (1)	12/01/17 <u>GCR</u> (2)	12/01/17 <u>MFC</u> (3)	12/01/17 <u>GPC</u> (4)	
Residential GS	\$8.5899	\$4.6913	\$0.1764	\$0.0400	\$13.4976
Commercial GS	\$6.7830	\$4.6913	\$0.0291	\$0.0400	\$11.5434
Industrial GS	\$6.6661	\$4.6913	\$0.0183	\$0.0400	\$11.4157
Phila.Housing Authority (PHA)	\$6.9342	\$4.6913	\$0.0000	\$0.0400	\$11.6655
Municipal (MS)	\$6.1430	\$4.6913	\$0.0000	\$0.0400	\$10.8743
Phila.Housing Authority (GS)	\$7.6037	\$4.6913	\$0.0000	\$0.0400	\$12.3350

September 1, 2018 - Distribution Charge

	Delivery <u>Delivery Charge</u> (6)	<u>Surcharges</u>				Total <u>Total Surcharges</u> (11)=(7)+(8)+(9)+(10)	Distribution <u>Charge / Mcf</u> (12)=(11)+(6)
		Other Post Employment Benefit (7)	Efficiency Cost Recovery (8)	Universal Service & Ener. Cons. (9)	Restructuring & Consumer Education (10)		
Residential GS	\$6.6967	\$0.3264	\$0.0254	\$1.4818	\$0.0001	\$1.8337	\$8.5304
Commercial GS	\$4.8651	\$0.3264	\$0.0587	\$1.4818	\$0.0001	\$1.8670	\$6.7321
Industrial GS	\$4.7698	\$0.3264	\$0.0422	\$1.4818	\$0.0001	\$1.8505	\$6.6203
Phila.Housing Authority (PHA)	\$5.0163	\$0.3264	\$0.0587	\$1.4818	\$0.0001	\$1.8670	\$6.8833
Municipal (MS)	\$4.2723	\$0.3264	\$0.0000	\$1.4818	\$0.0001	\$1.8083	\$6.0806
Phila.Housing Authority (GS)	\$5.7105	\$0.3264	\$0.0254	\$1.4818	\$0.0001	\$1.8337	\$7.5442

Proposed Rates

	09/01/18 <u>Distribution Charge</u> (12)	09/01/18 <u>GCR</u> (13)	09/01/18 <u>MFC</u> (14)	09/01/18 <u>GPC</u> (15)	09/01/18 Commodity Rate (16)=(12)+(13)+(14)+(15)	<u>Difference</u> (17)=(16)-(5)
	Residential GS	\$8.5304	\$4.0369	\$0.1518	\$0.0400	\$12.7591
Commercial GS	\$6.7321	\$4.0369	\$0.0250	\$0.0400	\$10.8340	(\$0.7094)
Industrial GS	\$6.6203	\$4.0369	\$0.0157	\$0.0400	\$10.7129	(\$0.7028)
Phila.Housing Authority (PHA)	\$6.8833	\$4.0369	\$0.0000	\$0.0400	\$10.9602	(\$0.7053)
Municipal (MS)	\$6.0806	\$4.0369	\$0.0000	\$0.0400	\$10.1575	(\$0.7168)
Phila.Housing Authority (GS)	\$7.5442	\$4.0369	\$0.0000	\$0.0400	\$11.6211	(\$0.7139)

PHILADELPHIA GAS WORKS
SEPTEMBER 1, 2018 - 1307F FILING
UNIVERSAL SERVICE & ENERGY CONSERVATION SURCHARGE

		Expenses in the Surcharge
Enhanced Low Income Retrofit Program (ELIRP)	\$	7,992,308
Customer Responsibility Program (CRP)	\$	57,657,965
Senior Citizen Discount *	\$	2,583,703
<u>August 18 Under Collection</u>	\$	<u>3,903,597</u>
Total \$ to be Recovered	\$	72,137,572
Total Applicable Volumes	Mcf	48,613,736
Universal Service & Energy Conservation Surcharge	\$	<u>1.4839</u>

* This is the Senior Citizen Discount based on the Distribution Charge without the Universal Services Surcharge plus the GCR. This is used to calculate the Universal Services Surcharge. The total senior citizen discount is \$2,883,175.

**STATEMENT OF RECONCILIATION
UNIVERSAL SERVICES & ENERGY CONSERVATION SURCHARGE
SEPTEMBER 2017 THROUGH AUGUST 2018**

Month		USC Applicable Volumes	USC Charge	USC Revenue Billed	USC Expenses	Monthly Over/(Under) Recovery	Cumulative Over/(Under) Recovery (\$13,309,033)
FY 17 Reconciliation							
September 2017	Actual	1,160,592	\$ 1,4092	\$ 1,635,448	\$ (944,104)	\$ 2,579,552	(\$10,729,481)
October	Actual	1,228,327	\$ 1,3701	\$ 1,682,931	\$ (145,235)	\$ 1,828,165	(\$8,901,315)
November	Actual	3,034,129	\$ 1,3701	\$ 4,157,061	\$ 3,285,531	\$ 871,529	(\$8,029,786)
December	Actual	6,319,455	\$ 1,4273	\$ 9,019,758	\$ 9,481,610	\$ (461,853)	(\$8,491,638)
January 2018	Estimated	10,732,303	\$ 1,4845	\$ 15,932,103	\$ 19,677,750	\$ (3,745,647)	(\$12,237,285)
February	Estimated	8,472,584	\$ 1,4845	\$ 12,577,551	\$ 15,067,536	\$ (2,489,986)	(\$14,727,271)
March	Estimated	6,784,380	\$ 1,5995	\$ 10,851,615	\$ 11,221,965	\$ (370,350)	(\$15,097,620)
April	Estimated	4,560,075	\$ 1,7145	\$ 7,818,249	\$ 6,772,483	\$ 1,045,765	(\$14,051,855)
May	Estimated	2,100,713	\$ 1,7145	\$ 3,601,672	\$ 1,565,551	\$ 2,036,122	(\$12,015,733)
June	Estimated	1,282,577	\$ 1,7145	\$ 2,198,978	\$ (467,108)	\$ 2,666,086	(\$9,349,647)
July	Estimated	1,171,785	\$ 1,7145	\$ 2,009,026	\$ (715,226)	\$ 2,724,253	(\$6,625,395)
August	Estimated	1,032,315	\$ 1,7145	\$ 1,769,903	\$ (953,321)	\$ 2,723,225	(\$3,902,170)

USC Expenses	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18
ELIRP Expense	\$ -	\$ 430,271	\$ 367,950	\$ 373,571	\$ 775,229	\$ 775,229	\$ 775,229	\$ 775,229	\$ 775,229	\$ 775,229	\$ 775,229	\$ 775,229
ELIRP Labor	\$ 14,196	\$ 13,745	\$ 5,432	\$ 17,247	\$ 11,019	\$ 11,019	\$ 11,019	\$ 11,019	\$ 11,019	\$ 11,019	\$ 11,019	\$ 11,019
CRP Discount	\$ (1,713,498)	\$ (1,406,870)	\$ 2,023,879	\$ 8,006,203	\$ 17,372,596	\$ 12,937,930	\$ 9,225,309	\$ 4,925,272	\$ (116,851)	\$ (2,078,810)	\$ (2,312,589)	\$ (2,630,346)
CRP Forgiveness	\$ 682,258	\$ 712,670	\$ 636,542	\$ 585,157	\$ 692,580	\$ 699,370	\$ 712,950	\$ 726,530	\$ 740,110	\$ 733,320	\$ 726,530	\$ 712,950
Senior Citizen Discount	\$ 92,940	\$ 104,949	\$ 251,729	\$ 499,432	\$ 826,326	\$ 643,988	\$ 497,458	\$ 334,433	\$ 156,044	\$ 92,134	\$ 84,585	\$ 77,826
Bad Debt Expense Offset*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ (944,104)	\$ (145,235)	\$ 3,285,531	\$ 9,481,610	\$ 19,677,750	\$ 15,067,536	\$ 11,221,965	\$ 6,772,483	\$ 1,565,551	\$ (467,108)	\$ (715,226)	\$ (953,321)

CRP Participation				
Rate Case Participation Rate	84,000	84,000	84,000	60,000
Actual Participation Rate*	48,523	48,693	48,904	49,310
CRP Under(Over) Participation	35,477	35,307	35,096	10,690
Average Shortfall Per CRP Participant				
CRP Discount	\$ (1,713,498)	\$ (1,406,870)	\$ 2,023,879	\$ 8,006,203
Actual Participation Rate	48,523	48,693	48,904	49,310
Average Shortfall per CRP Participant	\$ (35)	\$ (29)	\$ 41	\$ 162
Shortfall**	\$ -	\$ -	\$ -	\$ -
Bad Debt Expense Offset*	7.1%	\$ -	\$ -	\$ -
Bad Debt Expense Offset**	7.5%	\$ -	\$ -	\$ -

*Bad Debt Expense Offset Applicable When Actual CRP Participation Exceeds 84,000
** Effective December 2017--Bad Debt Expense Offset Applicable When Actual CRP Participation Exceeds 60,000

INTERRUPTIBLE REVENUE CREDIT
September 1, 2018

Fiscal Year 2017 Reconciliation (8/31/17) \$ 108,827 Schedule 10 (c)

MONTH	IRC CREDIT	MARGIN
September-17	Actual \$ (2,766)	\$ 880
October	Actual \$ (2,718)	\$ 13,263
November	Actual \$ (6,885)	\$ 990
December	Actual \$ (16,438)	\$ 1,566
January-18	Estimated \$ (30,369)	\$ 456
February	Estimated \$ (23,898)	\$ 412
March	Estimated \$ (14,453)	\$ 456
April	Estimated \$ (6,649)	\$ 441
May	Estimated \$ (2,996)	\$ 456
June	Estimated \$ (1,757)	\$ 441
July	Estimated \$ (1,595)	\$ 3,640
August	Estimated \$ (1,404)	\$ 3,640

Act/Est IRC Credit September 2017 to August 2018 \$ (111,928)
Act/Est Margin September 2017 to August 2018 \$ 26,641 \$ 26,641

FY 2017 Reconciliation Plus Act/Est Margin September 2017 to August 2018 \$ 135,468

FY 2017 Reconciliation Plus Act/Est Margin September 2017 to August 2018	\$ 135,468
Act/Est IRC Credit September 2017 to August 2018	\$ (111,928)
Reconciliation as of August 31, 2018	\$ 23,540
Margin - September 2018 through August 2019	\$ 42,864 Schedule 10(b)
August 31, 2018 Interruptible Revenue Credit	\$ 66,404

GCR Firm Sales 43,373,336 Schedule 2

September 1, 2018 IRC/Mcf \$ 0.0015

INTERRUPTIBLE REVENUE MARGIN
1307F

<u>MONTH</u>		<u>MARGIN</u>
September	Estimated	\$ 3,523
October	Estimated	\$ 3,641
November	Estimated	\$ 3,523
December	Estimated	\$ 3,641
January-19	Estimated	\$ 3,640
February	Estimated	\$ 3,288
March	Estimated	\$ 3,641
April	Estimated	\$ 3,523
May	Estimated	\$ 3,641
June	Estimated	\$ 3,523
July	Estimated	\$ 3,641
August	Estimated	\$ 3,641
Total		\$ <u>42,864</u>

**INTERRUPTIBLE REVENUE CREDIT
FY 2017**

Fiscal Year 2016 Reconciliation (8/31/16) \$ 85,233

<u>MONTH</u>	<u>IRC CREDIT</u>	<u>MARGIN</u>
September-16	Actual \$ (1,677)	\$ 2,874
October	Actual \$ (2,051)	\$ 5,287
November	Actual \$ (4,379)	\$ 26,127
December	Actual \$ (10,243)	\$ 65
January-17	Actual \$ (16,678)	\$ 2,235
February	Actual \$ (13,468)	\$ 7,504
March	Actual \$ (10,902)	\$ 44,999
April	Actual \$ (7,412)	\$ 8,673
May	Actual \$ (3,018)	\$ 685
June	Actual \$ (2,993)	\$ 1,070
July	Actual \$ (2,800)	\$ 932
August	Actual \$ (2,604)	\$ 1,368
Act/Est IRC Credit September 2016 to August 2017		\$ (78,225)
Act/Est Margin September 2016 to August 2017		\$ 101,819

FY 2016 Reconciliation Plus Act/Est Margin September 2016 to August 2017 \$ 187,052

FY 2016 Reconciliation Plus Act/Est Margin September 2016 to August 2017	\$ 187,052
Act/Est IRC Credit September 2016 to August 2017	<u>\$ (78,225)</u>
Reconciliation as of August 31, 2017	\$ 108,827

**OTHER POST EMPLOYMENT BENEFIT (OPEB) SURCHARGE
FISCAL YEAR 2019**

FY 2017 Over/(Under) Recovery (\$2,134,847)

<u>Month</u>		<u>OPEB Volumes</u>	<u>OPEB Surcharge</u>	<u>Revenue Billed</u>
September 2017*	Actual	1,164,741	\$0.3755	\$437,302
October*	Actual	1,232,930	\$0.3785	\$466,664
November	Actual	3,049,410	\$0.3785	\$1,154,202
December	Actual	6,352,935	\$0.3785	\$2,404,586
January 2018	Estimated	10,788,858	\$0.3785	\$4,083,583
February	Estimated	8,516,031	\$0.3785	\$3,223,318
March	Estimated	6,818,015	\$0.3785	\$2,580,619
April	Estimated	4,582,214	\$0.3785	\$1,734,368
May	Estimated	2,109,506	\$0.3785	\$798,448
June	Estimated	1,286,605	\$0.3785	\$486,980
July	Estimated	1,175,297	\$0.3785	\$444,850
<u>August</u>	Estimated	<u>1,035,361</u>	\$0.3785	<u>\$391,884</u>
Total		48,111,902		\$18,206,803

FY 2018 Act/Est OPEB & FY 2016 Reconciliation \$16,071,956

FY 2018 Permitted Recovery \$16,000,000

Over/(Under) Recovery \$71,956

FY 20178 Under Recovery (\$71,956)

FY 2019 Permitted Recovery \$16,000,000

FY 2019 Recovery \$15,928,044

FY 2019 Volumes 48,802,190

FY 2019 OPEB Surcharge / Mcf \$0.3264

**OTHER POST EMPLOYMENT BENEFIT (OPEB) SURCHARGE
FISCAL YEAR 2018**

FY 2016 Over/(Under) Recovery (\$2,638,304)

<u>Month</u>		<u>OPEB Volumes</u>	<u>OPEB Surcharge</u>	<u>Revenue Billed</u>
September 2016	Actual	1,075,710	\$0.3364	\$361,815
October	Actual	1,407,836	\$0.3724	\$524,278
November	Actual	2,962,180	\$0.3724	\$1,103,116
December	Actual	6,080,124	\$0.3724	\$2,264,238
January 2017	Actual	8,870,728	\$0.3724	\$3,303,459
February	Actual	7,218,545	\$0.3724	\$2,688,186
March	Actual	6,392,437	\$0.3724	\$2,380,544
April	Actual	4,759,423	\$0.3724	\$1,772,409
May	Actual	2,003,390	\$0.3724	\$746,062
June	Actual	1,477,939	\$0.3724	\$550,384
July	Actual	1,118,641	\$0.3724	\$416,582
<u>August</u>	Actual	<u>1,053,661</u>	\$0.3724	<u>\$392,383</u>
Total		44,420,614		\$16,503,457

FY 2017 Act/Est OPEB & FY 2016 Reconciliation	\$13,865,153
FY 2017 Permitted Recovery	<u>\$16,000,000</u>
Over/(Under) Recovery	(\$2,134,847)

EFFICIENCY COST RECOVERY (ECR) SURCHARGE
1307F FILING-FISCAL YEAR 2018

<u>Program</u>	<u>Residential & PHA GS</u>	<u>Commercial & PHA</u>	<u>Industrial</u>	<u>Total</u>
Residential Heating Equipment Rebate (RHER)				
Program Expense	\$775,125	\$79,556	\$551	\$855,233
Labor Expense	\$14,036	\$1,441	\$10	\$15,487
Commercial & Industrial Retrofit Incentive (CIRI)				
Program Expense	\$142,815	\$257,788	\$0	\$400,603
Labor Expense	\$2,586	\$4,668	\$0	\$7,254
Commercial & Industrial Equipment Rebate (CIER)				
Program Expense	\$5,599	\$297,203	\$48,970	\$351,772
Labor Expense	\$101	\$5,382	\$887	\$6,370
High-Efficiency Construction Incentive (HECI)				
Program Expense	\$89,399	\$109,645	\$0	\$199,044
Labor Expense	\$1,619	\$1,986	\$0	\$3,604
Comprehensive Residential Retrofit Incentive (CRRRI)				
Program Expense	\$0	\$0	\$0	\$0
Labor Expense	\$0	\$0	\$0	\$0
Total Expense	\$1,031,281	\$757,668	\$50,418	\$1,839,367
Prior Period Reconciliation (2/28/18)	\$ (131,149)	\$ (86,658)	\$ (13,403)	\$ (231,210)
Total	\$900,132	\$671,010	\$37,015	\$1,608,157
Volumes - Mcf (GCR Firm & Firm Transportation)	35,452,714	11,435,009	877,423	

Efficiency Cost Recovery Surcharge / Mcf	\$0.0254	\$0.0587	\$0.0422
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**EFFICIENCY COST RECOVERY (ECR) SURCHARGE
1307F
FISCAL YEAR 2018**

		Actual Sep-17	Actual Oct-17	Actual Nov-17	Actual Dec-17	Estimated Jan-18	Estimated Feb-18	Estimated Mar-18	Estimated Apr-18	Estimated May-18	Estimated Jun-18	Estimated Jul-18	Estimated Aug-18
RESIDENTIAL & PHA GS													
FY 2017 Over-Collection	\$	423,608											
Volume Billed		741,149	774,207	2,072,645	4,741,689	8,225,174	6,454,094	5,125,305	3,478,093	1,514,260	831,974	747,620	656,900
ECR Surcharge	\$	0.0175	0.0196	0.0196	0.0211	0.0225	0.0225	0.0199	0.0173	0.0173	0.0173	0.0173	0.0173
Revenue Billed	\$	12,970	15,174	40,624	99,813	185,066	145,217	101,994	60,171	26,197	14,393	12,934	11,364
RHER	Expense	\$ -	\$ 73,271	\$ 88,391	\$ 18,813	\$ 67,898	\$ 67,898	\$ 67,898	\$ 67,898	\$ 67,898	\$ 67,898	\$ 67,898	\$ 67,898
RHER	Labor	\$ 1,393	\$ 1,349	\$ 3,656	\$ 1,693	\$ 691	\$ 691	\$ 691	\$ 691	\$ 691	\$ 691	\$ 691	\$ 691
HECI	Expense	\$ -	\$ 11,587	\$ 13,873	\$ 55	\$ 11,116	\$ 11,116	\$ 11,116	\$ 11,116	\$ 11,116	\$ 11,116	\$ 11,116	\$ 11,116
HECI	Labor	\$ 220	\$ 213	\$ 389	\$ 268	\$ 133	\$ 133	\$ 133	\$ 133	\$ 133	\$ 133	\$ 133	\$ 133
CRRI	Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CRRI	Labor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CIRI	Expense	\$ -	\$ 15,653	\$ 9,894	\$ 75	\$ 16,122	\$ 16,122	\$ 16,122	\$ 16,122	\$ 16,122	\$ 16,122	\$ 16,122	\$ 16,122
CIRI	Labor	\$ 298	\$ 288	\$ 144	\$ 362	\$ 227	\$ 227	\$ 227	\$ 227	\$ 227	\$ 227	\$ 227	\$ 227
CIER	Expense	\$ -	\$ 695	\$ 4,617	\$ 543	\$ 126	\$ 126	\$ 126	\$ 126	\$ 126	\$ 126	\$ 126	\$ 126
CIER	Labor	\$ 13	\$ 13	\$ 255	\$ 16	\$ (21)	\$ (21)	\$ (21)	\$ (21)	\$ (21)	\$ (21)	\$ (21)	\$ (21)
Total		\$ 1,924	\$ 103,070	\$ 121,220	\$ 21,823	\$ 96,292	\$ 96,292	\$ 96,292	\$ 96,292	\$ 96,292	\$ 96,292	\$ 96,292	\$ 96,292
Monthly Over/(Under)	\$	11,046	(87,895)	(80,596)	77,989	88,774	48,925	5,701	(36,121)	(70,096)	(81,899)	(83,358)	(84,928)
Cumulative Over/(Under)	\$	434,653	346,758	266,162	344,151	432,925	481,850	487,551	451,430	381,334	299,435	216,077	131,149
COMMERCIAL & PHA													
FY 2017 Over-Collection	\$	479,880											
Volume Billed		377,460	410,353	845,153	1,352,842	2,138,338	1,736,697	1,433,486	939,599	519,654	403,298	378,960	335,449
ECR Surcharge	\$	0.0494	0.0407	0.0407	0.0440	0.0472	0.0472	0.0441	0.0410	0.0410	0.0410	0.0410	0.0410
Revenue Billed	\$	18,628	16,701	34,398	59,457	100,930	81,972	63,217	38,524	21,306	16,535	15,537	13,753
RHER	Expense	\$ -	\$ 7,520	\$ 8,830	\$ 1,931	\$ 6,999	\$ 6,999	\$ 6,999	\$ 6,999	\$ 6,999	\$ 6,999	\$ 6,999	\$ 6,999
RHER	Labor	\$ 143	\$ 138	\$ 366	\$ 174	\$ 72	\$ 72	\$ 72	\$ 72	\$ 72	\$ 72	\$ 72	\$ 72
CRRI	Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CRRI	Labor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CIRI	Expense	\$ -	\$ 28,255	\$ 17,860	\$ 135	\$ 29,101	\$ 29,101	\$ 29,101	\$ 29,101	\$ 29,101	\$ 29,101	\$ 29,101	\$ 29,101
CIRI	Labor	\$ 537	\$ 520	\$ 260	\$ 653	\$ 410	\$ 410	\$ 410	\$ 410	\$ 410	\$ 410	\$ 410	\$ 410
CIER	Expense	\$ -	\$ 36,890	\$ 114,227	\$ 28,825	\$ 23,050	\$ 23,050	\$ 23,050	\$ 23,050	\$ 23,050	\$ 23,050	\$ 23,050	\$ 23,050
CIER	Labor	\$ 701	\$ 679	\$ 6,608	\$ 852	\$ (248)	\$ (248)	\$ (248)	\$ (248)	\$ (248)	\$ (248)	\$ (248)	\$ (248)
HECI	Expense	\$ -	\$ 14,211	\$ 6,281	\$ 68	\$ 14,975	\$ 14,975	\$ 14,975	\$ 14,975	\$ 14,975	\$ 14,975	\$ 14,975	\$ 14,975
HECI	Labor	\$ 270	\$ 262	\$ 131	\$ 328	\$ 206	\$ 206	\$ 206	\$ 206	\$ 206	\$ 206	\$ 206	\$ 206
Total		\$ 1,652	\$ 88,476	\$ 154,562	\$ 32,965	\$ 74,566	\$ 74,566	\$ 74,566	\$ 74,566	\$ 74,566	\$ 74,566	\$ 74,566	\$ 74,566
Monthly Over/(Under)	\$	16,976	(71,775)	(120,164)	26,493	26,364	7,406	(11,349)	(36,042)	(53,260)	(58,031)	(59,028)	(60,812)
Cumulative Over/(Under)	\$	496,856	425,081	304,917	331,410	357,774	365,180	353,831	317,789	264,529	206,499	147,470	86,658
INDUSTRIAL													
FY 2017 Over-Collection	\$	51,029											
Volume Billed		28,842	30,282	69,559	113,515	164,616	135,848	112,421	68,750	39,925	32,807	31,019	27,388
ECR Surcharge	\$	0.0507	0.0419	0.0419	0.0338	0.0256	0.0256	0.0235	0.0213	0.0213	0.0213	0.0213	0.0213
Revenue Billed	\$	1,461	1,269	2,915	3,831	4,214	3,478	2,636	1,464	850	699	661	583
RHER	Expense	\$ -	\$ 52	\$ 11	\$ 13	\$ 55	\$ 55	\$ 55	\$ 55	\$ 55	\$ 55	\$ 55	\$ 55
RHER	Labor	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1
CIRI	Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CIRI	Labor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CIER	Expense	\$ -	\$ 6,078	\$ (1,278)	\$ 4,749	\$ 6,310	\$ 6,310	\$ 6,310	\$ 6,310	\$ 6,310	\$ 6,310	\$ 6,310	\$ 6,310
CIER	Labor	\$ 116	\$ 112	\$ 26	\$ 140	\$ 92	\$ 92	\$ 92	\$ 92	\$ 92	\$ 92	\$ 92	\$ 92
Total		\$ 117	\$ 6,243	\$ (1,240)	\$ 4,904	\$ 6,458	\$ 6,458	\$ 6,458	\$ 6,458	\$ 6,458	\$ 6,458	\$ 6,458	\$ 6,458
Monthly Over/(Under)	\$	1,344	(4,975)	4,155	(1,073)	(2,244)	(2,980)	(3,822)	(4,993)	(5,607)	(5,759)	(5,797)	(5,874)
Cumulative Over/(Under)	\$	52,373	47,399	51,554	50,480	48,237	45,256	41,435	36,441	30,834	25,075	19,278	13,403

**PHILADELPHIA GAS WORKS
LOAD BALANCING CHARGE RECONCILIATION
CALENDAR YEAR 2017**

		<u>2017</u>
Actual Storage and Peaking Cost		\$ 14,909,672
Prior Year Carryover		\$ <u>61,841</u>
		\$ 14,971,513
<hr/>		
Design Day Requirements	Annual Mcf	672,749
Fulfilled from FT Capacity	Annual Mcf	<u>295,857</u>
Fulfilled from Storage and Peaking Assets	Annual Mcf	376,892
<hr/>		
Annual Load Balancing Cost per Excess Mcf BTU Conversion	Annual \$ / Mcf	\$ 39.7236
		1.039
	Annual \$ / Dth	<u>\$ 38.2325</u>
Monthly Charge /Dth		\$ 3.1860
<hr/>		
Over/(Under) Recovery		\$ (34,100)
Interest		<u>\$ (1,688)</u>
Carryover		\$ (35,788)

LOAD BALANCING CHARGE

2017 EXPENSE

	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Total
Transco	\$ 403,725	\$ 344,780	\$ 384,381	\$ 351,963	\$ 368,163	\$ 357,929	\$ 371,232	\$ 372,458	\$ 352,866	\$ 345,250	\$ 346,416	\$ 387,210	\$ 4,386,373
Tetco	\$ 652,185	\$ 645,566	\$ 645,161	\$ 617,384	\$ 619,934	\$ 614,446	\$ 614,019	\$ 599,795	\$ 603,775	\$ 623,064	\$ 621,771	\$ 644,948	\$ 7,502,048
Dominion	\$ 138,212	\$ 129,389	\$ 130,230	\$ 120,435	\$ 132,670	\$ 130,809	\$ 136,748	\$ 136,748	\$ 131,747	\$ 124,819	\$ 124,653	\$ 136,834	\$ 1,573,293
WSS & EMM Trans	\$ 157,594	\$ 185,810	\$ 277,982	\$ 72,127	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,534	\$ 265,073	\$ 965,120
Purchased Electric	\$ 61,945	\$ 47,390	\$ 48,111	\$ 40,883	\$ 36,849	\$ 31,100	\$ 31,605	\$ 29,474	\$ 33,112	\$ 30,204	\$ 37,668	\$ 54,497	\$ 482,838
Total	\$ 1,413,661	\$ 1,352,935	\$ 1,485,866	\$ 1,202,792	\$ 1,157,615	\$ 1,134,285	\$ 1,153,603	\$ 1,138,475	\$ 1,121,500	\$ 1,123,337	\$ 1,137,043	\$ 1,488,561	\$ 14,909,672

2017 INTEREST CALCULATION

MONTH	LOAD BALANCING VOLUME (1) (DTH)	RATE (2) (\$)	LOAD BALANCING CHARGE (3)=(1)*(2) (\$)	CHARGES BILLED (4) (\$)	OVER RECOVERY (5)=(4)-(3) (\$)	TIME FACTOR (6)	INTEREST RATE (7)	INTEREST EXPENSE (8)=(5)*(6)*(7) (\$)
Jan-17	30,395	3.1860	96,838	92,917	(3,921)	18/12	3.75%	(221)
Feb-17	30,478	3.1860	97,103	93,172	(3,932)	17/12	3.75%	(209)
Mar-17	30,662	3.1860	97,689	93,633	(4,057)	34/12	3.75%	(431)
Apr-17	30,311	3.1860	96,572	92,562	(4,010)	15/12	3.75%	(188)
May-17	29,971	3.1860	95,486	91,521	(3,965)	14/12	3.75%	(173)
Jun-17	29,578	3.1860	94,237	92,249	(1,988)	13/12	3.75%	(81)
Jul-17	29,922	3.1860	95,331	93,320	(2,011)	12/12	3.75%	(75)
Aug-17	30,047	3.1860	95,731	93,712	(2,019)	11/12	3.75%	(69)
Sep-17	34,790	3.1860	110,842	109,718	(1,124)	10/12	4.50%	(42)
Oct-17	36,058	3.1860	114,881	113,717	(1,165)	9/12	4.50%	(39)
Nov-17	35,726	3.1860	113,822	112,668	(1,154)	8/12	4.50%	(35)
Dec-17	36,109	3.1860	115,043	110,288	(4,756)	7/12	4.50%	(125)
Total	384,048		1,223,576	1,189,476	(34,100)			(1,688)

**PHILADELPHIA GAS WORKS
LOAD BALANCING CHARGE
SEPTEMBER 1, 2018**

Storage and Peaking Asset Cost **\$ 14,291,590**

Design Day Requirements (Mcf)	672,749
Fulfilled from FT Capacity (Mcf)	<u>295,857</u>
Fulfilled from Storage and Peaking Assets (Excess Mcf)	376,892

Annual Storage and Peaking Cost per Excess Mcf	\$ 37.9196
Per Mcf Over / (Under) Adjustment	<u>\$ (0.1112)</u>
Load Balancing Charge	\$ 38.0308

Over / (Under) Recovery	\$ (34,100)
Interest	<u>\$ (1,688)</u>
Total Over/(Under) Recovery	\$ (35,788)
Forecasted SSPC Volumes	321,795
Per Mcf Over / (Under) Adjustment	\$ (0.1112)

Natural Gas Prices March 1, 2018 1307f GCR Filing

Basis Differentials

Prices Used For Gas Cost Inputs

	NYMEX	TRANSCO				TETCO							TRANSCO				TETCO						
		Futures																					
		1/16/18 Close	Sta 30	Sta 45	Sta 65	Sta. 85	ELA	WLA	ETX	STX	Average ELA/ETX	M-1	M-2	Sta 30	Sta 45	Sta 65	Sta 85	ELA	WLA	ETX	STX	ELA/ETX	M-1
Jan-18													2.68	2.70	2.72	2.72	2.65	2.66	2.63	2.66	2.64	2.65	2.27
Feb-18	3.129	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	3.02	2.99	3.11	3.12	3.07	3.05	2.99	3.00	3.03	3.03	2.81
Mar-18	2.962	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	2.85	2.82	2.94	2.95	2.90	2.88	2.82	2.83	2.86	2.86	2.64
Apr-18	2.781	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	2.67	2.64	2.76	2.77	2.72	2.70	2.64	2.65	2.68	2.68	2.46
May-18	2.768	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	2.66	2.63	2.75	2.76	2.71	2.69	2.63	2.64	2.67	2.67	2.45
Jun-18	2.805	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	2.70	2.67	2.79	2.80	2.75	2.73	2.67	2.68	2.71	2.71	2.49
Jul-18	2.844	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	2.73	2.70	2.82	2.83	2.78	2.76	2.70	2.71	2.74	2.74	2.52
Aug-18	2.843	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	2.73	2.70	2.82	2.83	2.78	2.76	2.70	2.71	2.74	2.74	2.52
Sep-18	2.820	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.21)	2.71	2.68	2.80	2.81	2.76	2.74	2.68	2.69	2.72	2.72	2.61
Oct-18	2.840	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.21)	2.73	2.70	2.82	2.83	2.78	2.76	2.70	2.71	2.74	2.74	2.63
Nov-18	2.890	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.21)	2.78	2.75	2.87	2.88	2.83	2.81	2.75	2.76	2.79	2.79	2.68
Dec-18	3.015	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.21)	2.91	2.88	3.00	3.01	2.96	2.94	2.88	2.89	2.92	2.92	2.81
Jan-19	3.093	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.21)	2.98	2.95	3.07	3.08	3.03	3.01	2.95	2.96	2.99	2.99	2.88
Feb-19	3.064	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.21)	2.95	2.92	3.04	3.05	3.00	2.98	2.92	2.93	2.96	2.96	2.85
Mar-19	2.986	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.21)	2.88	2.85	2.97	2.98	2.93	2.91	2.85	2.86	2.89	2.89	2.78
Apr-19	2.696	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.21)	2.59	2.56	2.68	2.69	2.64	2.62	2.56	2.57	2.60	2.60	2.49
May-19	2.659	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.21)	2.55	2.52	2.64	2.65	2.60	2.58	2.52	2.53	2.56	2.56	2.45
Jun-19	2.684	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.21)	2.57	2.54	2.66	2.67	2.62	2.60	2.54	2.55	2.58	2.58	2.47
Jul-19	2.710	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.21)	2.60	2.57	2.69	2.70	2.65	2.63	2.57	2.58	2.61	2.61	2.50
Aug-19	2.709	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.21)	2.60	2.57	2.69	2.70	2.65	2.63	2.57	2.58	2.61	2.61	2.50

Philadelphia Gas Works Calculation of UFG and Retainage Percentages Twelve Months Ending August 31, 2017		
	<u>UFG</u>	<u>RETAINAGE</u>
	Total Distribution System (MCF)	Firm Sales Sales Only (MCF)
A. Gas Received For Delivery To Customers		
From Interstate Pipelines directly into the Distribution System	70,632,790	70,632,790
Less gas delivered for Interruptible Customers sendout		24,664,444
From Interstate Pipelines directly into the Distribution System for Firm Customers Only		45,968,346
B. Gas Delivered		
To Customers	68,684,099	
To Customers - Delivered to Firm Customers Only		44,429,218
C. Adjustment		
Adjustment for PUC UFG Report and Retainage - Company use	264,016	264,016
Adjustment for PUC UFG Report Only - Maintenance and Construction - Gate station bleeds - Correction for 6" w.c. - Third party damage	549,54 7,743 552,701 -	- - - -
Total Adjustments	825,010	264,016
D. Distribution UFG and Retainage Rate		
Total Distribution System Unaccounted for Gas	1,123,681	
Unaccounted For and Accounted For Volumes Applicable to Retainage % Calculation		1,275,112
E. Percent UFG and Retainage		
UFG Percentage	1.59%	
Retainage Percentage		2.8%

**Philadelphia Gas Works
Restructuring & Consumer Education Surcharge
FISCAL YEAR 2019**

FY 2017 Over/(Under) Recovery (\$283,927) Schedule 17(b)

<u>Month</u>		<u>R&CE Volumes</u>	<u>R&CE Surcharge</u>	<u>Revenue Billed</u>
September 2017	Actual	1,164,741	\$0.0044	\$5,067
October	Actual	1,232,930	\$0.0077	\$9,494
November	Actual	3,049,410	\$0.0077	\$23,480
December	Actual	6,352,935	\$0.0077	\$48,918
January 2018	Estimated	10,788,858	\$0.0077	\$83,074
February	Estimated	8,516,031	\$0.0077	\$65,573
March	Estimated	6,818,015	\$0.0077	\$52,499
April	Estimated	4,582,214	\$0.0077	\$35,283
May	Estimated	2,109,506	\$0.0077	\$16,243
June	Estimated	1,286,605	\$0.0077	\$9,907
July	Estimated	1,175,297	\$0.0077	\$9,050
<u>August</u>	Estimated	<u>1,035,361</u>	\$0.0077	<u>\$7,972</u>
Total		48,111,902		\$366,560

FY 2018 Act/Est R&CE Recovery	\$82,632	
FY 2018 Permitted Recovery	<u>\$72,981</u>	Schedule 17(c)
Over/(Under) Recovery	\$9,652	

FY 2018 Under Recovery	(\$9,652)	
FY 2019 Permitted Recovery	<u>\$12,500</u>	Schedule 17(c)
FY 2019 Recovery	\$2,848	

FY 2019 Volumes	48,802,190
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FY 2019 R&CE Surcharge / Mcf	\$0.0001
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**Philadelphia Gas Works
Restructuring & Consumer Education Surcharge
Fiscal Year 2018**

FY 2016 Over/(Under) Recovery (\$259,274)

<u>Month</u>		<u>R&CE Volumes</u>	<u>R&CE Surcharge</u>	<u>Revenue Billed</u>
September 2016	Actual	1,075,710	\$0.0036	\$3,819
October	Actual	1,407,836	\$0.0010	\$1,408
November	Actual	2,962,180	\$0.0010	\$2,962
December	Actual	6,080,124	\$0.0010	\$6,080
January 2017	Actual	8,870,728	\$0.0010	\$8,871
February	Actual	7,218,545	\$0.0010	\$7,219
March	Actual	6,392,437	\$0.0010	\$6,392
April	Actual	4,759,423	\$0.0010	\$4,759
May	Actual	2,003,390	\$0.0010	\$2,003
June	Actual	1,477,939	\$0.0010	\$1,478
July	Actual	1,118,641	\$0.0010	\$1,119
<u>August</u>	Actual	<u>1,053,661</u>	\$0.0010	<u>\$1,054</u>
Total		44,420,614		\$47,164

FY 2017 Act/Est R&CE & FY 2016 Recovery (\$212,110)

FY 2017 Permitted Recovery \$71,817

Over/(Under) Recovery (\$283,927)

**Philadelphia Gas Works
Restructuring & Consumer Education Surcharge
Expense**

Fiscal Year Month	FY 2018												FY19	
	Sep-17 Actual	Oct-17 Actual	Nov-17 Actual	Dec-17 Actual	Jan-18 Est	Feb-18 Est	Mar-18 Est	Apr-18 Est	May-18 Est	Jun-18 Est	Jul-18 Est	Aug-18 Est	FY 2018 Total	FY19 Est
Capital														
POR Build (90%)	\$ -	\$ -	\$6,043	\$9,914	\$ 7,128	\$ 7,128	\$ 7,128	\$ 7,128	\$ 7,128	\$ 7,128	\$ 7,128	\$ 7,128	\$ 72,981	
Access. Mech. (100%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Operating														
Mailers (50%)														
Access Mech. (100%)														\$12,500
Totals	\$ -	\$ -	\$6,043	\$9,914	\$ 7,128	\$ 7,128	\$ 7,128	\$ 7,128	\$ 7,128	\$ 7,128	\$ 7,128	\$ 7,128	\$ 72,981	\$12,500

Philadelphia Gas Works

Item 53.64(c) Thirty days prior to the filing of a tariff reflecting an increase or decrease in natural gas costs, each Section 1307(f) gas utility seeking recovery of purchased gas costs under that section shall provide notice to the public, under § 53.68 (relating to notice requirements), and shall file the following supporting information with the Commission, with a copy to the Consumer Advocate, Small Business Advocate and to intervenors upon request:

- (1) A complete list in schedule format of each spot and each long term source of gas supply, production, transportation and storage, used in the past 12 months, which 12-month period shall end 2 months prior to the date of the tariff filing, separately setting forth on a monthly basis the quantity and price of gas delivered, produced, transported or stored, maximum daily quantity levels, maximum annual quantity levels, a detailed description of warrantee or penalty provisions, including liquidated damages, take or pay provisions or minimum bill or take provisions of the purchases, balancing provisions and copies of Federal tariffs and contract provisions relating to the purchases—including demand and commodity components. With regard to each contemplated future source of supply, production, transportation or storage, during each of the next 20 months for each source, provide the name of the source, the maximum daily quantity, the maximum annual quantity, the minimum take levels, a detailed description of warrantee or penalty provisions, including liquidated damages, take or pay provisions or minimum bill or take provisions of the purchases, balancing provisions and contractual or tariffed terms of the purchases, copies of applicable Federal tariffs, the expiration date of each contract, the date when each contract was most recently negotiated and the details of the negotiation—such as meeting held, offers made, and changes in contractual obligation—and whether current proceedings, negotiations or renegotiations are pending before the Federal Energy Regulatory Commission, and the like, to modify the price, quantity or another condition of purchase, and if so, the details of the proceedings, negotiations or renegotiations. Gas supply sources which individually represent less than 3% of the total system supply may be shown collectively, such as other local gas purchases.

Response:

The attached schedules described herein below, contain details of the requested information. Information concerning PGW's Transportation and Storage contracts are addressed in section 53.64(c)(3) in February 1, 2017 Prefiling.

Schedule 1 – Twelve (12) month actual purchased gas costs expressed in terms of volumes and dollars for the period January 1, 2017 to December 31, 2017. This schedule reflects finalized numbers through the month of December.

Schedule 2 – Actual capacity release credits by pipeline by month for the period January 1, 2017 through December 31, 2017. This schedule reflects finalized numbers through the month of December.

Schedule 3 - Twenty (20) month forecast for the period January 1, 2018 through August 31, 2019.

Schedule 4 – Twenty (20) month forecast of capacity release credits by pipeline by month for the period January 1, 2018 through August 31, 2019.

Philadelphia Gas Works

Summary Of Total Purchased

	Jan-17	Feb-17	Mar-17	Apr-17	May-17	June-17	July-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Williams	\$ 2,789,368	\$ 2,490,585	\$ 2,679,285	\$ 2,574,446	\$ 2,671,644	\$ 2,562,398	\$ 2,639,026	\$ 2,622,521	\$ 2,541,408	\$ 2,592,216	\$ 2,257,365	\$ 2,447,539
Texas Eastern	\$ 2,480,503	\$ 2,490,534	\$ 2,363,758	\$ 2,500,500	\$ 2,389,548	\$ 2,442,116	\$ 2,441,985	\$ 2,326,816	\$ 2,390,439	\$ 2,730,779	\$ 2,074,421	\$ 2,013,447
Dominion	\$ 138,212	\$ 129,389	\$ 130,230	\$ 120,435	\$ 132,670	\$ 130,809	\$ 136,748	\$ 136,748	\$ 131,747	\$ 124,819	\$ 124,653	\$ 136,834
Spot Purchases -Transco	\$ 137,057	\$ 63,467	\$ 181,037	\$ 27,410	\$ 20,808	\$ 10,512	\$ 4,459	\$ 5,183	\$ 3,672	\$ -	\$ 27,212	\$ 87,982
Spot Purchases - Transco	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Spot Purchases -Tetco	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply2	\$ -	\$ -	\$ -	\$ 417,000	\$ 440,200	\$ 423,000	\$ 368,900	\$ 350,300	\$ 369,000	\$ 368,900	\$ -	\$ -
Transco Supply3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply6	\$ 604,113	\$ 467,250	\$ 394,863	\$ 415,500	\$ 438,650	\$ 421,500	\$ 367,350	\$ 348,750	\$ 367,500	\$ 367,350	\$ -	\$ -
Transco Supply7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply8	\$ 2,684,375	\$ 1,845,179	\$ 1,685,267	\$ 189,529	\$ 1,207,314	\$ 438,650	\$ 459,550	\$ 451,225	\$ 236,945	\$ 6,200	\$ 2,501,474	\$ 2,781,192
Transco Supply10	\$ 1,106,700	\$ 999,600	\$ 1,106,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply14	\$ 1,119,550	\$ 466,340	\$ 516,685	\$ 421,500	\$ 430,435	\$ 430,650	\$ 418,810	\$ 403,620	\$ 389,400	\$ 404,395	\$ 832,500	\$ 475,075
Transco Supply17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply22	\$ 2,199,355	\$ 1,424,096	\$ 1,660,913	\$ 679,980	\$ 1,391,460	\$ 439,775	\$ 460,713	\$ 452,388	\$ 238,245	\$ 318,955	\$ 1,688,229	\$ 2,054,170
Transco Supply23	\$ 604,113	\$ 467,250	\$ 394,863	\$ 935,250	\$ 969,913	\$ 950,250	\$ 904,425	\$ 904,425	\$ 878,250	\$ 907,525	\$ -	\$ -
Transco Supply24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply25	\$ 1,207,450	\$ 933,800	\$ 790,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply29	\$ 1,212,100	\$ 943,880	\$ 808,170	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 829,050	\$ 908,920
Transco Supply30	\$ 602,950	\$ 466,200	\$ 395,250	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,252,125	\$ 2,026,388
Transco Supply31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply32	\$ -	\$ -	\$ -	\$ 420,000	\$ 443,300	\$ 426,000	\$ 372,000	\$ 353,400	\$ 372,000	\$ 372,000	\$ -	\$ -
Transco Supply33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 809,250	\$ 947,825
Transco Supply34	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 186,950
Tetco Supply1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply3	\$ 592,043	\$ 459,200	\$ 389,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply5	\$ 255,450	\$ -	\$ -	\$ 353,250	\$ 359,910	\$ 362,400	\$ 348,285	\$ 333,095	\$ 321,150	\$ 333,870	\$ 679,500	\$ 1,167,150
Tetco Supply7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply16	\$ 1,054,775	\$ 837,900	\$ 642,475	\$ 400,875	\$ 400,288	\$ 399,375	\$ 277,838	\$ 262,338	\$ 243,375	\$ 163,138	\$ -	\$ -
Tetco Supply17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply19	\$ 592,875	\$ 459,900	\$ 388,275	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply24	\$ 2,317,660	\$ 1,827,510	\$ 1,573,360	\$ 1,431,266	\$ 1,836,919	\$ 1,613,715	\$ 1,011,168	\$ 887,003	\$ 756,975	\$ 489,413	\$ 1,197,650	\$ 1,716,500
Tetco Supply25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 584,000	\$ 1,171,800
Tetco Supply26	\$ 2,713,336	\$ 1,757,046	\$ 1,926,438	\$ 1,352,699	\$ 1,286,747	\$ 685,550	\$ 413,885	\$ 313,340	\$ 257,860	\$ 246,388	\$ 1,050,266	\$ 1,158,852
Tetco Supply27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply28	\$ 1,057,100	\$ 840,000	\$ 644,800	\$ 400,875	\$ 400,288	\$ 399,375	\$ 277,838	\$ 262,338	\$ 243,375	\$ 163,138	\$ 677,250	\$ 1,164,903
Tetco Supply29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply31	\$ 593,650	\$ 460,600	\$ 389,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL COSTS	\$ 26,062,734	\$ 19,829,726	\$ 19,060,967	\$ 12,640,516	\$ 14,820,093	\$ 12,136,075	\$ 10,902,978	\$ 10,413,488	\$ 9,741,341	\$ 9,589,085	\$ 16,664,947	\$ 20,445,526
Storage Injection	\$ 13,111	\$ 19,570	\$ 11,074	\$ 24,523	\$ 62,457	\$ 60,210	\$ 63,316	\$ 52,537	\$ 41,123	\$ 21,199	\$ 27,517	\$ 11,757
Storage Withdrawal	\$ 96,740	\$ 69,243	\$ 87,681	\$ 16,626	\$ 3	\$ -	\$ -	\$ -	\$ 5	\$ 2,133	\$ 18,283	\$ 96,510

**Philadelphia Gas Works
Cost of Fuel Purchased
Williams Pipeline Company**

Amount - \$	Jan -17	Feb -17	Mar -17	Apr -17	May -17	June-17	July-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
S-2 Capacity	\$ 4,322	\$ 4,785	\$ 4,631	\$ 4,785	\$ 4,631	\$ 4,785	\$ 4,785	\$ 4,631	\$ 4,785	\$ 4,631	\$ 4,785	\$ 4,785
Storage Demand	\$ 21,222	\$ 23,594	\$ 22,788	\$ 23,529	\$ 22,779	\$ 23,538	\$ 23,538	\$ 22,633	\$ 23,464	\$ 22,707	\$ 23,464	\$ 23,496
Handling fr Stg.	\$ 4,729	\$ 3,274	\$ 1,826	\$ 237	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 259	\$ 3,339
Handling to Stg.	\$ -	\$ -	\$ -	\$ 599	\$ 1,547	\$ 1,656	\$ 1,820	\$ 1,820	\$ 1,761	\$ 1,658	\$ 505	\$ -
GSS Demand	\$ 192,423	\$ 173,801	\$ 192,423	\$ 186,105	\$ 192,308	\$ 186,105	\$ 192,308	\$ 192,308	\$ 186,105	\$ 192,308	\$ 186,068	\$ 192,270
Stg. Cap.Vol. Chg.	\$ 67,753	\$ 61,196	\$ 67,753	\$ 65,567	\$ 67,753	\$ 65,567	\$ 67,753	\$ 67,753	\$ 65,567	\$ 67,753	\$ 65,567	\$ 67,753
Handling fr Stg.	\$ 31,539	\$ 23,617	\$ 34,234	\$ 5,769	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,178	\$ 36,374
Storage Injection	\$ 2,907	\$ 4,369	\$ 4,024	\$ 13,393	\$ 25,297	\$ 25,265	\$ 26,536	\$ 26,672	\$ 17,466	\$ 425	\$ 5,925	\$ 2,600
WSS Demand	\$ 27,835	\$ 25,141	\$ 27,835	\$ 26,937	\$ 27,835	\$ 26,937	\$ 27,835	\$ 27,835	\$ 26,937	\$ 27,835	\$ 26,937	\$ 27,835
Stg. Cap Vol Chg.	\$ 27,922	\$ 25,220	\$ 27,922	\$ 27,021	\$ 27,922	\$ 27,021	\$ 27,922	\$ 27,922	\$ 27,021	\$ 27,922	\$ 27,021	\$ 27,922
Handling fr Stg.	\$ 2,295	\$ 2,705	\$ 4,047	\$ 1,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 95	\$ 3,859
Handling to Stg.	\$ 112	\$ 260	\$ 67	\$ 121	\$ 848	\$ 205	\$ 1,912	\$ 4,054	\$ 2,939	\$ 3,190	\$ 1,760	\$ 234
FT Demand/3691	\$ 2,435,352	\$ 2,199,672	\$ 2,437,909	\$ 2,355,807	\$ 2,434,334	\$ 2,355,807	\$ 2,434,334	\$ 2,434,334	\$ 2,355,807	\$ 2,434,334	\$ 2,355,807	\$ 2,431,778
FT Commodity/3691	\$ 121,703	\$ 99,395	\$ 112,584	\$ 30,780	\$ 47,034	\$ 28,686	\$ 25,346	\$ 19,932	\$ 16,777	\$ 15,018	\$ 99,295	\$ 129,061
PSFT Demand/8001	\$ 60,300	\$ 54,464	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,213
PSFT Commodity												
Eminence Cust.Dem.												
Eminence Cust. Cap.												
Eminence Storage Dem.												
Eminence Storage Cap.												
Handling fr Stg.												
Handling to Stg.												
Capacity Rel. Dem.Credit #3691	\$ (89,900)	\$ (81,200)	\$ (89,900)	\$ (4,050)	\$ (14,725)	\$ (20,550)	\$ (28,210)	\$ (40,840)	\$ (25,950)	\$ (20,150)	\$ (364,800)	\$ (376,960)
Capacity Rel. Dem.Credit #5001	\$ (141,811)	\$ (126,527)	\$ (165,689)	\$ (160,054)	\$ (163,162)	\$ (159,474)	\$ (163,675)	\$ (163,362)	\$ (158,092)	\$ (182,236)	\$ (179,352)	\$ (183,761)
S2 Credit	\$ (3,161)	\$ (3,182)	\$ (3,167)	\$ (3,150)	\$ (3,148)	\$ (3,149)	\$ (3,178)	\$ (3,170)	\$ (3,179)	\$ (3,178)	\$ (3,148)	\$ (3,258)
Eminence #2 Demand												
Eminence #2 Capacity												
Handling to Stg.												
Handling fr Stg.												
Eminence #2 adj.												
Cashout / Cashout 02/29/2016												
S2 Adj. (02/1/16 - 02/28/16)												
WSS Capacity Release												
Eminence Capacity Release												
FT-Demand Charges Paid by VA Power												
Cashout / Cashout 03/31/16												
S2 Adj. (02/1/16 - 02/29/16)												
Cashout / Cashout Majority Sell	\$ 23,829	\$ -	\$ -	\$ -	\$ 393	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unauthorized Overrun 02/2016												
TOTAL	\$ 2,789,368	\$ 2,490,585	\$ 2,679,285	\$ 2,574,446	\$ 2,671,644	\$ 2,562,398	\$ 2,639,026	\$ 2,622,521	\$ 2,541,408	\$ 2,592,216	\$ 2,257,365	\$ 2,447,539

**Philadelphia Gas Works
Cost Of Fuel Purchased
Texas Eastern**

Amount - \$	Jan-17	Feb-17	Mar-17	Apr-17	May-17	June-17	July-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
CDS Access Area Demand	\$ 804,150.00	\$ 807,000	\$ 807,000	\$ 802,725	\$ 802,725	\$ 802,725	\$ 802,725	\$ 798,750	\$ 798,750	\$ 798,750	\$ 798,750	\$ 800,400
CDS Market Area Demand	\$ 330,249.33	\$ 330,270	\$ 330,270	\$ 330,270	\$ 330,270	\$ 330,270	\$ 330,270	\$ 330,313	\$ 330,313	\$ 330,313	\$ 330,313	\$ 330,313
CDS Commodity	\$ 70,032.46	\$ 53,079	\$ 56,794	\$ 60,959	\$ 67,803	\$ 57,575	\$ 49,623	\$ 45,887	\$ 42,118	\$ 45,149	\$ 50,704	\$ 58,306
CDS ACA Charge	\$ 1,881.56	\$ 1,434	\$ 1,533	\$ 1,708	\$ 1,900	\$ 1,613	\$ 1,390	\$ 1,302	\$ 1,195	\$ 1,282	\$ 1,439	\$ 1,727
CDS PCB True-up Settlement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FT1 Access Area Demand	\$ 250,107.18	\$ 251,012	\$ 251,012	\$ 249,855	\$ 249,855	\$ 249,855	\$ 249,855	\$ 248,392	\$ 248,392	\$ 248,392	\$ 248,392	\$ 248,916
FT1 Market Area Demand	\$ 194,686.71	\$ 194,703	\$ 194,703	\$ 194,703	\$ 194,703	\$ 194,703	\$ 194,703	\$ 194,733	\$ 194,733	\$ 194,733	\$ 194,733	\$ 194,733
FT1 Commodity	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FT1 ACA Charge	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FT1 PCB True-up Settlement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SS1 Demand 400121	\$ 240,134	\$ 240,575	\$ 240,575	\$ 240,487	\$ 240,487	\$ 240,487	\$ 240,487	\$ 239,870	\$ 239,870	\$ 239,870	\$ 239,870	\$ 239,958
Space Charge	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522
Handling fr Storage	\$ 23,303	\$ 16,317	\$ 21,917	\$ 4,196	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,001	\$ 21,644
Excess Withdrawal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Storage Injection	\$ 418	\$ 2,227	\$ 1,133	\$ 2,065	\$ 6,122	\$ 12,245	\$ 5,375	\$ 3,678	\$ 4,092	\$ 7,281	\$ 4,562	\$ 1,798
Excess Injection	\$ 8,767	\$ 9,812	\$ 3,590	\$ 2,189	\$ 5,010	\$ -	\$ 226	\$ -	\$ -	\$ -	\$ 2,775	\$ 5,040
Storage Surcharge Credit	\$ (27,096)	\$ (26,968)	\$ (26,820)	\$ (26,808)	\$ (26,810)	\$ (26,982)	\$ (26,988)	\$ (27,064)	\$ (27,059)	\$ (26,803)	\$ (27,739)	\$ (27,805)
PCB True-up Settlement 400121	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SS1 Demand 400209	\$ 113,470	\$ 113,679	\$ 113,679	\$ 113,637	\$ 113,637	\$ 113,637	\$ 113,637	\$ 113,345	\$ 113,345	\$ 113,345	\$ 113,345	\$ 113,387
Space Charge	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529
Handling fr Storage	\$ 21,246	\$ 16,465	\$ 18,148	\$ 5,374	\$ 3	\$ -	\$ -	\$ -	\$ 5	\$ 2,133	\$ 4,277	\$ 18,223
Excess Withdrawal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Storage Injection	\$ 908	\$ 2,903	\$ 2,259	\$ 6,155	\$ 11,398	\$ 5,053	\$ 11,135	\$ -	\$ 3,553	\$ 4,260	\$ 5,394	\$ 2,085
Excess Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1	\$ -	\$ 5,449	\$ -
Storage Surcharge Credit	\$ (12,780)	\$ (12,720)	\$ (12,650)	\$ (12,644)	\$ (12,645)	\$ (12,726)	\$ (12,729)	\$ (12,765)	\$ (12,763)	\$ (12,842)	\$ (13,083)	\$ (13,115)
PCB True-up Settlement 400209	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FTS-2 Demand	\$ 42,947.03	\$ 42,947	\$ 42,947	\$ 42,931	\$ 42,931	\$ 42,931	\$ 42,931	\$ 42,931	\$ 42,931	\$ 42,931	\$ 42,931	\$ 42,936
FTS-7 Demand	\$ 51,213.89	\$ 51,214	\$ 51,214	\$ 51,214	\$ 51,214	\$ 51,214	\$ 51,214	\$ 51,214	\$ 51,214	\$ 51,214	\$ 51,214	\$ 51,214
FTS-8 Demand	\$ 176,467	\$ 176,467	\$ 176,467	\$ 176,467	\$ 176,467	\$ 176,467	\$ 176,467	\$ 176,467	\$ 176,467	\$ 176,467	\$ 176,467	\$ 176,467
FTS-2 PCB True-up Settlement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FT-1 Acc.Area Dem. 800514	\$ 188,982.00	\$ 189,666	\$ 189,666	\$ 188,640	\$ 188,640	\$ 188,640	\$ 188,640	\$ 187,686	\$ 187,686	\$ 187,686	\$ 187,686	\$ 188,082
FT-1 Market Area Demand	\$ 25,684.75	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,687	\$ 25,687	\$ 25,687	\$ 25,687	\$ 25,687
FT Commodity	\$ 29,800.90	\$ 27,264	\$ 29,169	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,732	\$ 24,496
FT-1 ACA Charge	\$ 725.39	\$ 655	\$ 701	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 702	\$ 725
FT3-3 Cap.Rel. dem. credit 800514	\$ -	\$ -	\$ -	\$ (17,388)	\$ (59,985)	\$ (53,730)	\$ (47,039)	\$ (92,628)	\$ (63,720)	\$ (22,320)	\$ -	\$ -
PCB True-up Settlement 800514	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FT-1 Acc.Area Dem. 800515	\$ 188,982.00	\$ 189,666	\$ 189,666	\$ 188,640	\$ 188,640	\$ 188,640	\$ 188,640	\$ 187,686	\$ 187,686	\$ 187,686	\$ 187,686	\$ 188,082
FT-1 Market Area Demand	\$ 25,684.75	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,687	\$ 25,687	\$ 25,687	\$ 25,687	\$ 25,687
FT Commodity	\$ 29,801.83	\$ 27,264	\$ 29,981	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,732	\$ 24,496
FT-1 ACA Charge	\$ 725.41	\$ 655	\$ 721	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 702	\$ 725
FT1-3 Cap.Rel. dem. credit 800515	\$ -	\$ -	\$ -	\$ -	\$ (59,985)	\$ (53,730)	\$ (47,039)	\$ (92,628)	\$ (63,720)	\$ (28,123)	\$ -	\$ -
PCB True-up Settlement 800515	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CDS 800232 M1-M1 Cap. Rel.	\$ (131,061.70)	\$ (118,735)	\$ (155,491)	\$ (150,164)	\$ (152,269)	\$ (148,778)	\$ (152,735)	\$ (151,755)	\$ (146,860)	\$ (169,578)	\$ (166,869)	\$ (171,398)
FT1-800233 Cap. Rel.	\$ (225,262.99)	\$ (203,463)	\$ (225,263)	\$ -	\$ (25,224)	\$ (24,410)	\$ (25,224)	\$ (25,224)	\$ (24,410)	\$ (25,224)	\$ (519,259)	\$ (615,618)
FTS-2,7,8 ACA	\$ 1,284	\$ 728	\$ 799	\$ 195	\$ 202	\$ 195	\$ 202	\$ 202	\$ 195	\$ 202	\$ 384	\$ 1,203
CSHOUT UNDER 5% DS	\$ -	\$ -	\$ -	\$ (61,125)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PRIOR ADJUSTMENTS	\$ -	\$ -	\$ (76,383)	\$ -	\$ (51,759)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (6,294)	\$ -
O.F.O CREDITS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL	\$ 2,480,503	\$ 2,490,534	\$ 2,363,758	\$ 2,500,500	\$ 2,369,548	\$ 2,442,116	\$ 2,441,985	\$ 2,326,816	\$ 2,390,439	\$ 2,730,779	\$ 2,074,421	\$ 2,013,447

Philadelphia Gas Works
Volumes, Rates, and Total Amounts
Dominion

Volumes	Jan-17	Feb-17	Mar-17	Apr-17	May-17	June-17	July-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
GSS Storage Demand	34,047	34,047	34,047	34,047	34,047	34,047	34,047	34,047	34,047	34,047	34,047	34,047
GSS Storage Capacity	3,918,971	3,918,971	3,918,971	3,918,971	3,918,971	3,918,971	3,918,971	3,918,971	3,918,971	3,918,971	3,918,971	3,918,971
GSS Storage Injection	-	-	-	-	446,524	576,150	595,355	595,355	412,827	160,000	39,560	-
GSS Handling from Storage	846,500	426,358	466,434	-	-	-	-	-	-	-	148,020	782,660
GSS-TE Surcharge	846,500	426,358	466,434	-	-	-	-	-	-	-	148,020	782,660
GSS-TE Excess Injection												
Unauthorized Overrun Charges												
Rates - \$												
GSS Storage Demand	\$ 1.8683	\$ 1.8683	\$ 1.8683	\$ 1.8683	\$ 1.8683	\$ 1.8683	\$ 1.8683	\$ 1.8683	\$ 1.8683	\$ 1.8683	\$ 1.8672	\$ 1.8672
GSS Storage Capacity	\$ 0.0145	\$ 0.0145	\$ 0.0145	\$ 0.0145	\$ 0.0145	\$ 0.0145	\$ 0.0145	\$ 0.0145	\$ 0.0145	\$ 0.0145	\$ 0.0145	\$ 0.0145
GSS Storage Injection	\$ 0.0274	\$ 0.0274	\$ 0.0274	\$ 0.0274	\$ 0.0274	\$ 0.0274	\$ 0.0274	\$ 0.0274	\$ 0.0274	\$ 0.0274	\$ 0.0290	\$ 0.0290
GSS Handling from Storage	\$ 0.0161	\$ 0.0161	\$ 0.0161	\$ 0.0161	\$ 0.0161	\$ 0.0161	\$ 0.0161	\$ 0.0161	\$ 0.0161	\$ 0.0161	\$ 0.0167	\$ 0.0167
GSS-TE Surcharge	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0043	\$ 0.0043
GSS-TE Excess Injection	\$ 0.2365	\$ 0.2365	\$ 0.2365	\$ 0.2365	\$ 0.2365	\$ 0.2365	\$ 0.2365	\$ 0.2365	\$ 0.2365	\$ 0.2365	\$ 0.2381	\$ 0.2381
Unauthorized Overrun Charges	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6311	\$ 0.6311
Total Amount - \$												
GSS Storage Demand	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,573	\$ 63,573
GSS Storage Capacity	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825
GSS Storage Injection	\$ -	\$ -	\$ -	\$ -	\$ 12,235	\$ 15,787	\$ 16,313	\$ 16,313	\$ 11,311	\$ 4,384	\$ 1,147	\$ -
GSS Handling from Storage	\$ 13,629	\$ 6,864	\$ 7,510	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,472	\$ 13,070
GSS-TE Surcharge	\$ 4,148	\$ 2,089	\$ 2,286	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 636	\$ 3,365
GSS-TE Excess Injection												
*Overrun/Penalty Distribution	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (5,412)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unauthorized Overrun Charges												
TOTAL	\$ 138,212	\$ 129,389	\$ 130,230	\$ 120,435	\$ 132,670	\$ 130,809	\$ 136,748	\$ 136,748	\$ 131,747	\$ 124,819	\$ 124,653	\$ 136,834

Philadelphia Gas Works
 Pennsylvania Public Utilities Commission
 52 Pa. Code §53.61, et seq.
 For the Twelve Months Ending December 2017

Schedule 2
 Item 53.64(C)(1)

MONTH	TGPL		TETCO		Combined Total	
	Total	Volume	Total	Volume	Total	Volume
	Credits	DTH'S	Credits	DTH'S	Credits	DTH'S
Jan-17	\$ 231,711	617,830	\$ 356,325	951,173	\$ 588,036	1,569,003
Feb-17	\$ 207,727	554,652	\$ 322,199	859,124	\$ 529,926	1,413,776
Mar-17	\$ 255,589	669,662	\$ 380,754	1,006,756	\$ 636,343	1,676,418
Apr-17	\$ 164,104	647,430	\$ 167,552	887,280	\$ 331,656	1,534,710
May-17	\$ 177,887	1,284,175	\$ 297,463	1,957,061	\$ 475,350	3,241,236
Jun-17	\$ 180,024	1,546,170	\$ 280,646	1,897,230	\$ 460,670	3,443,400
Jul-17	\$ 191,885	1,905,291	\$ 272,038	1,958,146	\$ 463,923	3,863,437
Aug-17	\$ 204,202	2,504,609	\$ 362,235	1,957,433	\$ 566,437	4,462,042
Sep-17	\$ 184,042	1,843,170	\$ 298,710	1,894,290	\$ 482,752	3,737,460
Oct-17	\$ 202,386	1,326,242	\$ 245,245	1,999,066	\$ 447,631	3,325,308
Nov-17	\$ 544,152	989,970	\$ 686,128	861,030	\$ 1,230,280	1,851,000
Dec-17	\$ 560,721	1,019,559	\$ 787,016	979,290	\$ 1,347,737	1,998,849
	\$ 3,104,430	\$ 14,908,760	\$ 4,456,311	\$ 17,207,879	\$ 7,560,741	\$ 32,116,639

* TGPL volumes do not include the ES storage capacity release but do include the credits to PGW has stated on the monthly invoices.

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2018-August 2019

Schedule 3
Item 53.84(c)(1)

Volumes (Dth)

	1/1/2018: Jan	2/1/2018: Feb	3/1/2018: Mar	4/1/2018: Apr	5/1/2018: May	6/1/2018: Jun	7/1/2018: Jul	8/1/2018: Aug	9/1/2018: Sep	10/1/2018: Oct
Spot Purchases - Transco	1,834	31,665	13,214	239,012	394,677	191,692	198,082	198,082	191,692	645,012
Spot Purchases - Tetco	728,150	963,177	434,803	2,007,099	2,262,721	1,965,121	1,459,601	1,427,229	1,967,899	2,228,202
Transco Supply 1	-	-	-	-	-	-	-	-	-	-
Transco Supply 2	-	-	-	-	-	-	-	-	-	-
Transco Supply 3	-	-	-	-	-	-	-	-	-	-
Transco Supply 4	-	-	-	-	-	-	-	-	-	-
Transco Supply 5	-	-	-	-	-	-	-	-	-	-
Transco Supply 6	-	-	-	-	-	-	-	-	-	-
Transco Supply 7	-	-	-	-	-	-	-	-	-	-
Transco Supply 8	548,336	600,658	505,000	416,201	588,568	409,751	445,282	383,864	389,135	600,000
Transco Supply 9	-	-	-	-	-	-	-	-	-	-
Transco Supply 10	-	-	-	-	-	-	-	-	-	-
Transco Supply 11	-	-	-	-	-	-	-	-	-	-
Transco Supply 12	-	-	-	-	-	-	-	-	-	-
Transco Supply 13	-	-	-	-	-	-	-	-	-	-
Transco Supply 14	155,000	140,000	155,000	-	-	-	-	-	-	-
Transco Supply 15	-	-	-	-	-	-	-	-	-	-
Transco Supply 16	-	-	-	-	-	-	-	-	-	-
Transco Supply 17	-	-	-	-	-	-	-	-	-	-
Transco Supply 18	-	-	-	-	-	-	-	-	-	-
Transco Supply 19	-	-	-	-	-	-	-	-	-	-
Transco Supply 20	-	-	-	-	-	-	-	-	-	-
Transco Supply 21	-	-	-	-	-	-	-	-	-	-
Transco Supply 22	242,543	163,189	67,460	453,457	501,178	63,039	30,709	92,127	77,300	412,240
Transco Supply 23	-	-	-	-	-	-	-	-	-	-
Transco Supply 24	-	-	-	-	-	-	-	-	-	-
Transco Supply 25	-	-	-	-	-	-	-	-	-	-
Transco Supply 26	-	-	-	-	-	-	-	-	-	-
Transco Supply 27	-	-	-	-	-	-	-	-	-	-
Transco Supply 28	-	-	-	-	-	-	-	-	-	-
Transco Supply 29	310,000	280,000	310,000	-	-	-	-	-	-	-
Transco Supply 30	620,000	420,000	465,000	-	-	-	-	-	-	-
Transco Supply 31	-	-	-	-	-	-	-	-	-	-
Transco Supply 32	-	-	-	-	-	-	-	-	-	-
Tetco Supply 1	-	-	-	-	-	-	-	-	-	-
Tetco Supply 2	-	-	-	-	-	-	-	-	-	-
Tetco Supply 3	-	-	-	-	-	-	-	-	-	-
Tetco Supply 4	-	-	-	-	-	-	-	-	-	-
Tetco Supply 5	465,000	420,000	465,000	-	-	-	-	-	-	-
Tetco Supply 6	-	-	-	-	-	-	-	-	-	-
Tetco Supply 7	-	-	-	-	-	-	-	-	-	-
Tetco Supply 8	-	-	-	-	-	-	-	-	-	-
Tetco Supply 9	-	-	-	-	-	-	-	-	-	-
Tetco Supply 10	-	-	-	-	-	-	-	-	-	-
Tetco Supply 11	-	-	-	-	-	-	-	-	-	-
Tetco Supply 12	-	-	-	-	-	-	-	-	-	-
Tetco Supply 13	-	-	-	-	-	-	-	-	-	-
Tetco Supply 14	-	-	-	-	-	-	-	-	-	-
Tetco Supply 15	-	-	-	-	-	-	-	-	-	-
Tetco Supply 16	-	-	-	-	-	-	-	-	-	-
Tetco Supply 17	-	-	-	-	-	-	-	-	-	-
Tetco Supply 18	-	-	-	-	-	-	-	-	-	-
Tetco Supply 19	-	-	-	-	-	-	-	-	-	-
Tetco Supply 20	-	-	-	-	-	-	-	-	-	-
Tetco Supply 21	-	-	-	-	-	-	-	-	-	-
Tetco Supply 22	-	-	-	-	-	-	-	-	-	-
Tetco Supply 23	-	-	-	-	-	-	-	-	-	-
Tetco Supply 24	340,000	310,000	325,000	233,294	191,983	165,000	170,000	185,000	248,374	215,456
Tetco Supply 25	465,000	420,000	465,000	-	-	-	-	-	-	-
Tetco Supply 26	449,030	308,677	205,221	261,469	200,000	100,000	603,752	620,000	40,000	220,000
Tetco Supply 27	-	-	-	-	-	-	-	-	-	-
Tetco Supply 28	465,000	420,000	465,000	-	-	-	-	-	-	-
Tetco Supply 29	-	-	-	-	-	-	-	-	-	-
Tetco Supply 30	-	-	-	-	-	-	-	-	-	-
Tetco Supply 31	-	-	-	-	-	-	-	-	-	-
Total Volumes	4,789,893	4,477,366	3,875,697	3,610,532	4,139,127	2,894,603	2,907,426	2,906,302	2,914,401	4,320,910

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2018-August 2019

Schedule 3
Item 53.64(c)(1)

Volumes (Dth)

	11/1/2018: Nov	12/1/2018: Dec	1/1/2019: Jan	2/1/2019: Feb	3/1/2019: Mar	4/1/2019: Apr	5/1/2019: May	6/1/2019: Jun	7/1/2019: Jul	8/1/2019: Aug
Spot Purchases - Transco	1,026,093	1,440,834	431,459	948,976	210,717	404,983	596,500	353,447	365,229	365,229
Spot Purchases - Tetco	1,972,818	2,414,500	2,324,224	2,071,279	2,022,352	2,125,449	2,445,939	2,134,617	2,085,663	1,876,920
Transco Supply 1	-	-	-	-	-	-	-	-	-	-
Transco Supply 2	-	-	-	-	-	-	-	-	-	-
Transco Supply 3	-	-	-	-	-	-	-	-	-	-
Transco Supply 4	-	-	-	-	-	-	-	-	-	-
Transco Supply 5	-	-	-	-	-	-	-	-	-	-
Transco Supply 6	-	-	-	-	-	-	-	-	-	-
Transco Supply 7	-	-	-	-	-	-	-	-	-	-
Transco Supply 8	419,956	545,621	331,016	426,743	216,308	461,323	590,891	521,639	580,000	480,000
Transco Supply 9	-	-	-	-	-	-	-	-	-	-
Transco Supply 10	-	-	-	-	-	-	-	-	-	-
Transco Supply 11	-	-	-	-	-	-	-	-	-	-
Transco Supply 12	-	-	-	-	-	-	-	-	-	-
Transco Supply 13	-	-	-	-	-	-	-	-	-	-
Transco Supply 14	-	-	-	-	-	-	-	-	-	-
Transco Supply 15	-	-	-	-	-	-	-	-	-	-
Transco Supply 16	-	-	-	-	-	-	-	-	-	-
Transco Supply 17	-	-	-	-	-	-	-	-	-	-
Transco Supply 18	-	-	-	-	-	-	-	-	-	-
Transco Supply 19	-	-	-	-	-	-	-	-	-	-
Transco Supply 20	-	-	-	-	-	-	-	-	-	-
Transco Supply 21	-	-	-	-	-	-	-	-	-	-
Transco Supply 22	535,606	526,081	267,362	500,000	156,706	508,930	491,378	230,437	63,066	182,040
Transco Supply 23	-	-	-	-	-	-	-	-	-	-
Transco Supply 24	-	-	-	-	-	-	-	-	-	-
Transco Supply 25	-	-	-	-	-	-	-	-	-	-
Transco Supply 26	-	-	-	-	-	-	-	-	-	-
Transco Supply 27	-	-	-	-	-	-	-	-	-	-
Transco Supply 28	-	-	-	-	-	-	-	-	-	-
Transco Supply 29	-	-	-	-	-	-	-	-	-	-
Transco Supply 30	-	-	-	-	-	-	-	-	-	-
Transco Supply 31	-	-	-	-	-	-	-	-	-	-
Transco Supply 32	-	-	-	-	-	-	-	-	-	-
Tetco Supply 1	-	-	-	-	-	-	-	-	-	-
Tetco Supply 2	-	-	-	-	-	-	-	-	-	-
Tetco Supply 3	-	-	-	-	-	-	-	-	-	-
Tetco Supply 4	-	-	-	-	-	-	-	-	-	-
Tetco Supply 5	-	-	-	-	-	-	-	-	-	-
Tetco Supply 6	-	-	-	-	-	-	-	-	-	-
Tetco Supply 7	-	-	-	-	-	-	-	-	-	-
Tetco Supply 8	-	-	-	-	-	-	-	-	-	-
Tetco Supply 9	-	-	-	-	-	-	-	-	-	-
Tetco Supply 10	-	-	-	-	-	-	-	-	-	-
Tetco Supply 11	-	-	-	-	-	-	-	-	-	-
Tetco Supply 12	-	-	-	-	-	-	-	-	-	-
Tetco Supply 13	-	-	-	-	-	-	-	-	-	-
Tetco Supply 14	-	-	-	-	-	-	-	-	-	-
Tetco Supply 15	-	-	-	-	-	-	-	-	-	-
Tetco Supply 16	-	-	-	-	-	-	-	-	-	-
Tetco Supply 17	-	-	-	-	-	-	-	-	-	-
Tetco Supply 18	-	-	-	-	-	-	-	-	-	-
Tetco Supply 19	-	-	-	-	-	-	-	-	-	-
Tetco Supply 20	-	-	-	-	-	-	-	-	-	-
Tetco Supply 21	-	-	-	-	-	-	-	-	-	-
Tetco Supply 22	-	-	-	-	-	-	-	-	-	-
Tetco Supply 23	493,926	554,963	590,000	560,000	316,154	215,302	212,297	176,079	192,510	312,581
Tetco Supply 24	-	-	-	-	-	-	-	-	-	-
Tetco Supply 25	-	-	-	-	-	-	-	-	-	-
Tetco Supply 26	500,000	540,000	620,000	560,000	424,342	159,655	60,000	60,000	60,000	147,504
Tetco Supply 27	-	-	-	-	-	-	-	-	-	-
Tetco Supply 28	-	-	-	-	-	-	-	-	-	-
Tetco Supply 29	-	-	-	-	-	-	-	-	-	-
Tetco Supply 30	-	-	-	-	-	-	-	-	-	-
Tetco Supply 31	-	-	-	-	-	-	-	-	-	-
Total Volumes	4,948,398	6,022,000	4,364,060	5,066,998	3,346,579	3,875,642	4,397,004	3,476,219	3,346,468	3,364,274

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2018-August 2019

Schedule 3
 Item 53.64(c)(1)

	1/1/2018: Jan	2/1/2018: Feb	3/1/2018: Mar	4/1/2018: Apr	5/1/2018: May	6/1/2018: Jun	7/1/2018: Jul	8/1/2018: Aug	9/1/2018: Sep	10/1/2018: Oct
Williams	\$ 2,183,194	\$ 2,282,520	\$ 2,289,913	\$ 2,499,152	\$ 2,522,182	\$ 2,473,763	\$ 2,473,477	\$ 2,472,964	\$ 2,319,404	\$ 2,350,637
Texas Eastern	\$ 2,156,735	\$ 2,306,981	\$ 2,127,448	\$ 2,469,224	\$ 2,463,423	\$ 2,448,093	\$ 2,444,550	\$ 2,443,942	\$ 1,657,645	\$ 1,642,303
Dominion	\$ 134,378	\$ 134,358	\$ 131,730	\$ 134,148	\$ 139,971	\$ 137,519	\$ 136,130	\$ 136,623	\$ 135,623	\$ 135,623
Spot Purchases - Transco	\$ 4,988	\$ 98,446	\$ 38,875	\$ 659,912	\$ 1,084,572	\$ 533,863	\$ 559,384	\$ 559,186	\$ 536,739	\$ 1,818,932
Spot Purchases - Tecto	\$ 1,652,901	\$ 2,705,565	\$ 1,148,749	\$ 4,939,469	\$ 5,539,142	\$ 4,883,326	\$ 3,684,033	\$ 3,600,898	\$ 5,136,218	\$ 5,860,172
Transco Supply 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 8	\$ 1,497,674	\$ 1,879,051	\$ 1,496,960	\$ 1,159,293	\$ 1,629,470	\$ 1,151,255	\$ 1,268,129	\$ 1,093,686	\$ 1,099,470	\$ 1,704,200
Transco Supply 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 14	\$ 429,350	\$ 382,200	\$ 423,150	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 22	\$ 662,985	\$ 512,487	\$ 203,018	\$ 1,260,280	\$ 1,386,123	\$ 179,943	\$ 90,905	\$ 264,872	\$ 220,963	\$ 1,170,513
Transco Supply 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 29	\$ 860,714	\$ 804,160	\$ 864,435	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 30	\$ 1,783,275	\$ 1,199,100	\$ 1,316,725	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 33	\$ 842,425	\$ 872,620	\$ 914,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 5	\$ 1,055,550	\$ 1,179,780	\$ 1,228,530	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 24	\$ 776,450	\$ 874,990	\$ 863,300	\$ 574,136	\$ 469,975	\$ 410,025	\$ 429,080	\$ 466,755	\$ 648,257	\$ 566,650
Tetco Supply 25	\$ 1,060,200	\$ 1,183,980	\$ 1,233,180	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 26	\$ 1,019,298	\$ 867,073	\$ 542,193	\$ 643,476	\$ 489,600	\$ 248,500	\$ 1,523,869	\$ 1,564,260	\$ 104,400	\$ 578,600
Tetco Supply 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 28	\$ 1,053,225	\$ 1,177,680	\$ 1,226,205	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FT PAYBACK ADJUSTI	\$ -	\$ -	\$ -	\$ -	\$ 263,730	\$ 263,730	\$ 263,730	\$ 263,730	\$ -	\$ -
Total Costs	\$ 17,173,344	\$ 18,460,992	\$ 16,048,755	\$ 14,339,090	\$ 15,460,728	\$ 12,202,557	\$ 12,343,826	\$ 12,338,962	\$ 11,858,718	\$ 15,827,631

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2018-August 2019

Schedule 3
 Item 53.64(c)(1)

	11/1/2018: Nov	12/1/2018: Dec	1/1/2019: Jan	2/1/2019: Feb	3/1/2019: Mar	4/1/2019: Apr	5/1/2019: May	6/1/2019: Jun	7/1/2019: Jul	8/1/2019: Aug
Williams	\$ 2,351,459	\$ 2,449,268	\$ 2,483,792	\$ 2,466,094	\$ 2,509,042	\$ 2,486,737	\$ 2,501,282	\$ 2,476,962	\$ 2,466,688	\$ 2,467,866
Texas Eastern	\$ 2,298,406	\$ 2,339,348	\$ 2,376,765	\$ 2,380,367	\$ 2,483,941	\$ 2,361,519	\$ 2,366,668	\$ 2,357,395	\$ 2,349,366	\$ 2,348,832
Dominion	\$ 122,232	\$ 134,403	\$ 136,066	\$ 131,196	\$ 128,147	\$ 134,341	\$ 139,752	\$ 138,320	\$ 135,974	\$ 135,974
Spot Purchases - Transco	\$ 2,944,886	\$ 4,315,299	\$ 1,325,873	\$ 2,888,682	\$ 674,987	\$ 1,083,734	\$ 1,574,163	\$ 941,583	\$ 982,465	\$ 982,100
Spot Purchases - Tecto	\$ 5,287,153	\$ 6,772,673	\$ 6,700,736	\$ 5,911,430	\$ 5,614,048	\$ 5,283,866	\$ 5,990,105	\$ 5,281,043	\$ 5,214,157	\$ 4,690,423
Transco Supply 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 8	\$ 1,215,473	\$ 1,645,790	\$ 1,026,721	\$ 1,308,873	\$ 649,934	\$ 1,245,114	\$ 1,571,470	\$ 1,400,864	\$ 1,572,200	\$ 1,301,720
Transco Supply 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 22	\$ 1,546,295	\$ 1,584,750	\$ 828,152	\$ 1,530,500	\$ 470,233	\$ 1,370,735	\$ 1,305,534	\$ 619,937	\$ 174,154	\$ 495,200
Transco Supply 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 24	\$ 1,328,221	\$ 1,561,322	\$ 1,705,620	\$ 1,602,440	\$ 882,293	\$ 535,242	\$ 519,914	\$ 435,620	\$ 481,275	\$ 781,140
Tecto Supply 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 26	\$ 1,340,000	\$ 1,514,700	\$ 1,787,460	\$ 1,598,240	\$ 1,177,973	\$ 396,903	\$ 146,940	\$ 148,440	\$ 150,000	\$ 368,613
Tecto Supply 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tecto Supply 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FT PAYBACK ADJUST	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 464,905	\$ 464,905	\$ 464,905	\$ 464,905
Total Costs	\$ 18,434,124	\$ 22,317,553	\$ 18,371,185	\$ 19,817,823	\$ 14,540,600	\$ 14,898,191	\$ 15,650,922	\$ 13,335,259	\$ 13,061,373	\$ 13,106,963

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2018-August 2019

Schedule 3
 Item 53.64(c)(1)

Cost of Natural Gas

Suppliers	1/1/2018: Jan	2/1/2018: Feb	3/1/2018: Mar	4/1/2018: Apr	5/1/2018: May	6/1/2018: Jun	7/1/2018: Jul	8/1/2018: Aug	9/1/2018: Sep	10/1/2018: Oct
TR Spot	\$ 4,988	\$ 98,446	\$ 38,875	\$ 659,912	\$ 1,084,572	\$ 533,863	\$ 559,384	\$ 559,186	\$ 536,739	\$ 1,818,932
Supplier 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 8	\$ 1,497,674	\$ 1,879,051	\$ 1,496,960	\$ 1,159,293	\$ 1,629,470	\$ 1,151,255	\$ 1,268,129	\$ 1,093,686	\$ 1,099,470	\$ 1,704,200
Supplier 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 14	\$ 429,350	\$ 382,200	\$ 423,150	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 22	\$ 662,985	\$ 512,487	\$ 203,918	\$ 1,260,280	\$ 1,386,123	\$ 179,943	\$ 90,905	\$ 264,872	\$ 220,963	\$ 1,170,513
Supplier 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 29	\$ 860,715	\$ 804,160	\$ 864,435	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 30	\$ 1,783,275	\$ 1,199,100	\$ 1,316,725	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 33	\$ 842,425	\$ 872,620	\$ 914,345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Suppliers	\$ 6,081,412	\$ 5,748,064	\$ 5,257,508	\$ 3,079,484	\$ 4,100,165	\$ 1,865,061	\$ 1,918,417	\$ 1,917,743	\$ 1,857,172	\$ 4,693,646
Transportation Costs										
Tr Spot	\$ 107,000	\$ 85,751	\$ 75,001	\$ 44,795	\$ 47,887	\$ 18,004	\$ 18,156	\$ 18,156	\$ 17,778	\$ 55,291
Williams Total	\$ 107,000	\$ 85,751	\$ 75,001	\$ 44,795	\$ 47,887	\$ 18,004	\$ 18,156	\$ 18,156	\$ 17,778	\$ 55,291
Total Costs	\$ 6,188,413	\$ 5,833,815	\$ 5,332,508	\$ 3,124,280	\$ 4,148,052	\$ 1,883,065	\$ 1,936,573	\$ 1,935,899	\$ 1,874,949	\$ 4,748,937

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2018-August 2019

Schedule 3
 Item 53.84(e)(1)

Cost of Natural Gas

Suppliers	11/1/2018: Nov	12/1/2018: Dec	1/1/2019: Jan	2/1/2019: Feb	3/1/2019: Mar	4/1/2019: Apr	5/1/2019: May	6/1/2019: Jun	7/1/2019: Jul	8/1/2019: Aug
TR Spot	\$ 2,944,886	\$ 4,315,299	\$ 1,325,873	\$ 2,888,682	\$ 624,987	\$ 1,083,734	\$ 1,574,163	\$ 941,583	\$ 982,465	\$ 982,100
Supplier 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 8	\$ 1,215,473	\$ 1,645,790	\$ 1,026,721	\$ 1,308,873	\$ 649,934	\$ 1,245,114	\$ 1,571,470	\$ 1,400,864	\$ 1,572,300	\$ 1,301,720
Supplier 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 22	\$ 1,546,295	\$ 1,584,750	\$ 828,132	\$ 1,530,500	\$ 470,233	\$ 1,370,735	\$ 1,305,534	\$ 619,937	\$ 174,154	\$ 495,200
Supplier 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Suppliers	\$ 5,706,654	\$ 7,545,838	\$ 3,180,747	\$ 5,728,055	\$ 1,745,154	\$ 3,699,583	\$ 4,451,167	\$ 2,962,384	\$ 2,728,820	\$ 2,779,020
Transportation Costs										
Tr Spot	\$ 74,919	\$ 95,557	\$ 67,626	\$ 80,359	\$ 45,805	\$ 54,439	\$ 49,979	\$ 28,925	\$ 25,102	\$ 25,779
Williams Total	\$ 74,919	\$ 95,557	\$ 67,626	\$ 80,359	\$ 45,805	\$ 54,439	\$ 49,979	\$ 28,925	\$ 25,102	\$ 25,779
Total Costs	\$ 5,781,572	\$ 7,641,395	\$ 3,248,373	\$ 5,808,415	\$ 1,790,960	\$ 3,754,021	\$ 4,501,146	\$ 2,991,309	\$ 2,753,921	\$ 2,804,798

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2018-August 2019

Schedule 3
 Item 53.84(c)(1)

Volumes (Dth)

Suppliers	1/1/2018: Jan	2/1/2018: Feb	3/1/2018: Mar	4/1/2018: Apr	5/1/2018: May	6/1/2018: Jun	7/1/2018: Jul	8/1/2018: Aug	9/1/2018: Sep	10/1/2018: Oct
TR Spot	1,834	31,665	13,214	239,012	194,077	191,692	198,082	198,082	191,692	645,012
Supplier 1	-	-	-	-	-	-	-	-	-	-
Supplier 2	-	-	-	-	-	-	-	-	-	-
Supplier 3	-	-	-	-	-	-	-	-	-	-
Supplier 4	-	-	-	-	-	-	-	-	-	-
Supplier 5	-	-	-	-	-	-	-	-	-	-
Supplier 6	-	-	-	-	-	-	-	-	-	-
Supplier 7	-	-	-	-	-	-	-	-	-	-
Supplier 8	548,336	690,658	505,000	416,201	588,568	409,751	445,282	381,864	389,135	660,000
Supplier 9	-	-	-	-	-	-	-	-	-	-
Supplier 10	-	-	-	-	-	-	-	-	-	-
Supplier 11	-	-	-	-	-	-	-	-	-	-
Supplier 12	-	-	-	-	-	-	-	-	-	-
Supplier 13	-	-	-	-	-	-	-	-	-	-
Supplier 14	155,000	140,000	155,000	-	-	-	-	-	-	-
Supplier 15	-	-	-	-	-	-	-	-	-	-
Supplier 16	-	-	-	-	-	-	-	-	-	-
Supplier 17	-	-	-	-	-	-	-	-	-	-
Supplier 18	-	-	-	-	-	-	-	-	-	-
Supplier 19	-	-	-	-	-	-	-	-	-	-
Supplier 20	-	-	-	-	-	-	-	-	-	-
Supplier 21	-	-	-	-	-	-	-	-	-	-
Supplier 22	242,543	163,189	67,460	453,457	501,178	63,039	30,709	92,127	77,900	412,240
Supplier 23	-	-	-	-	-	-	-	-	-	-
Supplier 24	-	-	-	-	-	-	-	-	-	-
Supplier 25	-	-	-	-	-	-	-	-	-	-
Supplier 26	-	-	-	-	-	-	-	-	-	-
Supplier 27	-	-	-	-	-	-	-	-	-	-
Supplier 28	-	-	-	-	-	-	-	-	-	-
Supplier 29	110,000	280,000	330,000	-	-	-	-	-	-	-
Supplier 30	620,000	420,000	465,000	-	-	-	-	-	-	-
Supplier 31	-	-	-	-	-	-	-	-	-	-
Supplier 32	-	-	-	-	-	-	-	-	-	-
Supplier 33	310,000	280,000	310,000	-	-	-	-	-	-	-
Total Volumes	2,187,713	1,915,512	1,825,674	1,108,670	1,484,422	664,482	674,073	674,073	658,128	1,657,251

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2018-August 2019

Schedule 3
 Item 53.04(c)(1)

Volumes (Dth)

<u>Suppliers</u>	<u>11/1/2018: Nov</u>	<u>12/1/2018: Dec</u>	<u>1/1/2019: Jan</u>	<u>2/1/2019: Feb</u>	<u>3/1/2019: Mar</u>	<u>4/1/2019: Apr</u>	<u>5/1/2019: May</u>	<u>6/1/2019: Jun</u>	<u>7/1/2019: Jul</u>	<u>8/1/2019: Aug</u>
TR Spot	1,026,093	1,440,834	431,459	948,976	210,717	404,983	590,501	353,447	365,229	365,229
Supplier 1	-	-	-	-	-	-	-	-	-	-
Supplier 2	-	-	-	-	-	-	-	-	-	-
Supplier 3	-	-	-	-	-	-	-	-	-	-
Supplier 4	-	-	-	-	-	-	-	-	-	-
Supplier 5	-	-	-	-	-	-	-	-	-	-
Supplier 6	-	-	-	-	-	-	-	-	-	-
Supplier 7	-	-	-	-	-	-	-	-	-	-
Supplier 8	419,956	545,621	331,016	426,743	216,308	461,323	590,891	521,639	580,000	480,000
Supplier 9	-	-	-	-	-	-	-	-	-	-
Supplier 10	-	-	-	-	-	-	-	-	-	-
Supplier 11	-	-	-	-	-	-	-	-	-	-
Supplier 12	-	-	-	-	-	-	-	-	-	-
Supplier 13	-	-	-	-	-	-	-	-	-	-
Supplier 14	-	-	-	-	-	-	-	-	-	-
Supplier 15	-	-	-	-	-	-	-	-	-	-
Supplier 16	-	-	-	-	-	-	-	-	-	-
Supplier 17	-	-	-	-	-	-	-	-	-	-
Supplier 18	-	-	-	-	-	-	-	-	-	-
Supplier 19	-	-	-	-	-	-	-	-	-	-
Supplier 20	-	-	-	-	-	-	-	-	-	-
Supplier 21	-	-	-	-	-	-	-	-	-	-
Supplier 22	515,606	526,081	267,362	500,000	156,706	508,930	491,378	230,437	63,066	182,040
Supplier 23	-	-	-	-	-	-	-	-	-	-
Supplier 24	-	-	-	-	-	-	-	-	-	-
Supplier 25	-	-	-	-	-	-	-	-	-	-
Supplier 26	-	-	-	-	-	-	-	-	-	-
Supplier 27	-	-	-	-	-	-	-	-	-	-
Supplier 28	-	-	-	-	-	-	-	-	-	-
Supplier 29	-	-	-	-	-	-	-	-	-	-
Supplier 30	-	-	-	-	-	-	-	-	-	-
Supplier 31	-	-	-	-	-	-	-	-	-	-
Supplier 32	-	-	-	-	-	-	-	-	-	-
Supplier 33	-	-	-	-	-	-	-	-	-	-
Total Volumes	1,981,654	2,512,536	1,029,837	1,875,719	583,732	1,375,235	1,678,768	1,105,523	1,008,295	1,027,268

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2018-August 2019

Schedule 3
 Item 53.64(c)(1)

	1/1/2018: Jan	2/1/2018: Feb	3/1/2018: Mar	4/1/2018: Apr	5/1/2018: May	6/1/2018: Jun	7/1/2018: Jul	8/1/2018: Aug	9/1/2018: Sep	10/1/2018: Oct
WSS										
Injection	\$ 448	\$ -	\$ -	\$ 1,350	\$ 2,791	\$ 2,791	\$ 2,791	\$ 2,791	\$ 2,791	\$ 2,701
Withdrawal	\$ 10,509	\$ 5,482	\$ 2,272	\$ 3,055	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699
Total Charges	\$ 65,656	\$ 60,181	\$ 56,970	\$ 59,103	\$ 57,489	\$ 57,399	\$ 57,489	\$ 57,489	\$ 57,399	\$ 57,399
S2										
Injection	\$ -	\$ -	\$ 233	\$ 1,604	\$ 3,618	\$ 1,330	\$ 1,374	\$ 1,374	\$ 1,330	\$ 1,330
Withdrawal	\$ 6,242	\$ 3,976	\$ 3,049	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 27,717	\$ 27,717	\$ 27,717	\$ 27,717	\$ 27,717	\$ 27,717	\$ 27,717	\$ 27,717	\$ 27,717	\$ 27,717
Total Charges	\$ 33,959	\$ 31,693	\$ 31,000	\$ 29,321	\$ 31,336	\$ 29,047	\$ 29,091	\$ 29,091	\$ 29,047	\$ 29,047
GSS										
Injection	\$ 2,266	\$ -	\$ 3,585	\$ 16,246	\$ 37,045	\$ 20,657	\$ 21,345	\$ 21,345	\$ 20,657	\$ 20,657
Withdrawal	\$ 54,506	\$ 20,177	\$ 27,514	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 255,127	\$ 255,127	\$ 255,127	\$ 255,127	\$ 255,127	\$ 255,127	\$ 255,127	\$ 255,127	\$ 255,127	\$ 255,127
Total Charges	\$ 311,899	\$ 275,304	\$ 286,225	\$ 271,373	\$ 292,172	\$ 275,783	\$ 276,472	\$ 276,472	\$ 275,783	\$ 275,783
Total Injection Charges	\$ 2,714	\$ -	\$ 3,818	\$ 19,201	\$ 43,454	\$ 24,687	\$ 25,510	\$ 25,510	\$ 24,687	\$ 24,687
Total Withdrawal Charge:	\$ 71,256	\$ 29,635	\$ 32,834	\$ 3,055	\$ -					
Total Demand Charges	\$ 337,543									
Total Storage	\$ 411,513	\$ 367,177	\$ 374,195	\$ 359,798	\$ 380,996	\$ 362,229	\$ 363,052	\$ 363,052	\$ 362,229	\$ 362,229

Forecasted Summary of Firm Transportation

Demand Charges	\$ 2,177,545	\$ 2,177,016	\$ 2,117,423	\$ 2,116,908	\$ 2,116,394	\$ 2,115,879	\$ 2,115,363	\$ 2,114,850	\$ 2,114,447	\$ 2,114,002
Capacity Release Credit	\$ (512,864)	\$ (347,424)	\$ (276,706)	\$ (22,350)	\$ (23,095)	\$ (22,350)	\$ (23,095)	\$ (23,095)	\$ (175,050)	\$ (180,885)
Net Demand Charge	\$ 1,664,681	\$ 1,829,592	\$ 1,840,717	\$ 2,094,558	\$ 2,093,299	\$ 2,093,529	\$ 2,092,268	\$ 2,091,755	\$ 1,939,397	\$ 1,933,117

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2018-August 2019

Schedule 3
 Item 53.64(c)(1)

	11/1/2018: Nov	12/1/2018: Dec	1/1/2019: Jan	2/1/2019: Feb	3/1/2019: Mar	4/1/2019: Apr	5/1/2019: May	6/1/2019: Jun	7/1/2019: Jul	8/1/2019: Aug
WSS										
Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,490	\$ 5,145	\$ 4,979	\$ 5,145	\$ 5,145
Withdrawal	\$ -	\$ -	\$ 11,869	\$ 3,889	\$ 9,831	\$ 3,949	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699
Total Charges	\$ 54,699	\$ 54,699	\$ 66,568	\$ 58,587	\$ 64,530	\$ 61,137	\$ 59,844	\$ 59,678	\$ 59,844	\$ 59,844
S2										
Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 975	\$ 2,400	\$ 1,950	\$ 2,015	\$ 2,015
Withdrawal	\$ 435	\$ 4,261	\$ 5,958	\$ 4,109	\$ 2,358	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 27,717	\$ 27,717	\$ 27,717	\$ 27,717	\$ 27,717	\$ 27,717	\$ 27,717	\$ 27,717	\$ 27,717	\$ 27,717
Total Charges	\$ 28,152	\$ 31,978	\$ 33,675	\$ 31,826	\$ 30,075	\$ 28,692	\$ 30,117	\$ 29,668	\$ 29,733	\$ 29,733
GSS										
Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,430	\$ 37,045	\$ 33,502	\$ 28,561	\$ 29,507
Withdrawal	\$ -	\$ 20,545	\$ 69,837	\$ 32,176	\$ 43,501	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 255,127	\$ 255,127	\$ 255,127	\$ 255,127	\$ 255,127	\$ 255,127	\$ 255,127	\$ 255,127	\$ 255,127	\$ 255,127
Total Charges	\$ 255,127	\$ 275,672	\$ 324,964	\$ 287,303	\$ 298,628	\$ 271,557	\$ 292,172	\$ 288,629	\$ 283,688	\$ 284,634
Total Injection Charges	\$ -	\$ 19,895	\$ 44,590	\$ 40,431	\$ 35,722	\$ 36,668				
Total Withdrawal Charge:	\$ 435	\$ 24,806	\$ 87,664	\$ 40,174	\$ 55,690	\$ 3,949	\$ -	\$ -	\$ -	\$ -
Total Demand Charges	\$ 337,543									
Total Storage	\$ 337,977	\$ 362,349	\$ 425,207	\$ 377,716	\$ 393,233	\$ 361,387	\$ 382,133	\$ 377,974	\$ 373,265	\$ 374,210

Forecasted Summary of Firm Transportation

Demand Charges	\$ 2,113,613	\$ 2,172,247	\$ 2,171,844	\$ 2,171,399	\$ 2,111,917	\$ 2,111,471	\$ 2,111,082	\$ 2,110,623	\$ 2,110,234	\$ 2,109,789
Capacity Release Credit	\$ (175,050)	\$ (180,885)	\$ (180,885)	\$ (163,380)	\$ (41,912)	\$ (40,560)	\$ (41,912)	\$ (40,560)	\$ (41,912)	\$ (41,912)
Net Demand Charge	\$ 1,938,563	\$ 1,991,362	\$ 1,990,959	\$ 2,008,019	\$ 2,070,005	\$ 2,070,911	\$ 2,069,170	\$ 2,070,063	\$ 2,068,322	\$ 2,067,877

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2018-August 2019

Schedule 3
 Item 53.64(c)(1)

Cost of Natural Gas

Suppliers	1/1/2018: Jan	2/1/2018: Feb	3/1/2018: Mar	4/1/2018: Apr	5/1/2018: May	6/1/2018: Jun	7/1/2018: Jul	8/1/2018: Aug	9/1/2018: Sep	10/1/2018: Oct
TE Spot	\$ 1,652,901	\$ 2,705,565	\$ 1,148,749	\$ 4,939,469	\$ 5,539,142	\$ 4,883,326	\$ 3,684,033	\$ 3,600,898	\$ 5,136,218	\$ 5,860,172
Supplier 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 5	\$ 1,055,550	\$ 1,179,780	\$ 1,228,530	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 24	\$ 776,450	\$ 874,990	\$ 863,300	\$ 574,136	\$ 469,975	\$ 410,025	\$ 429,080	\$ 466,755	\$ 648,257	\$ 566,650
Supplier 25	\$ 1,060,200	\$ 1,183,980	\$ 1,233,180	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 26	\$ 1,019,298	\$ 867,073	\$ 542,193	\$ 643,476	\$ 489,600	\$ 248,500	\$ 1,523,869	\$ 1,564,260	\$ 104,400	\$ 578,600
Supplier 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 28	\$ 1,053,225	\$ 1,177,680	\$ 1,226,205	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub Total	\$ 6,617,624	\$ 7,989,068	\$ 6,242,157	\$ 6,157,082	\$ 6,498,717	\$ 5,541,851	\$ 5,636,983	\$ 5,631,913	\$ 5,888,875	\$ 7,005,422
Transportation Costs										
TE Spot	\$ 128,016	\$ 124,910	\$ 103,783	\$ 110,777	\$ 117,541	\$ 98,761	\$ 98,909	\$ 98,859	\$ 99,918	\$ 117,937
Total TE	\$ 128,016	\$ 124,910	\$ 103,783	\$ 110,777	\$ 117,541	\$ 98,761	\$ 98,909	\$ 98,859	\$ 99,918	\$ 117,937
Total Costs	\$ 6,745,640	\$ 8,113,978	\$ 6,345,939	\$ 6,267,859	\$ 6,616,258	\$ 5,640,612	\$ 5,735,892	\$ 5,730,773	\$ 5,988,792	\$ 7,123,359

Cost of Natural Gas

Suppliers	11/1/2018: Nov	12/1/2018: Dec	1/1/2019: Jan	2/1/2019: Feb	3/1/2019: Mar	4/1/2019: Apr	5/1/2019: May	6/1/2019: Jun	7/1/2019: Jul	8/1/2019: Aug
TE Spot	\$ 5,287,153	\$ 6,777,673	\$ 6,700,736	\$ 5,911,430	\$ 5,614,048	\$ 5,283,866	\$ 5,990,105	\$ 5,281,043	\$ 5,214,157	\$ 4,690,423
Supplier 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 24	\$ 1,328,221	\$ 1,561,322	\$ 1,705,620	\$ 1,602,440	\$ 882,293	\$ 555,242	\$ 519,914	\$ 435,620	\$ 481,275	\$ 781,140
Supplier 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 26	\$ 1,340,000	\$ 1,314,700	\$ 1,287,660	\$ 1,598,240	\$ 1,177,973	\$ 396,903	\$ 146,940	\$ 148,440	\$ 150,000	\$ 368,613
Supplier 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub Total	\$ 7,955,374	\$ 9,848,695	\$ 10,193,816	\$ 9,112,110	\$ 7,674,315	\$ 6,216,011	\$ 6,656,960	\$ 5,865,103	\$ 5,845,432	\$ 5,840,177
Transmission Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TE Spot	\$ 131,334	\$ 154,231	\$ 155,317	\$ 140,246	\$ 121,462	\$ 110,713	\$ 120,350	\$ 104,977	\$ 103,544	\$ 103,492
Total TE	\$ 131,334	\$ 154,231	\$ 155,317	\$ 140,246	\$ 121,462	\$ 110,713	\$ 120,350	\$ 104,977	\$ 103,544	\$ 103,492
Total Costs	\$ 8,086,708	\$ 10,002,926	\$ 10,349,134	\$ 9,252,357	\$ 7,795,777	\$ 6,326,724	\$ 6,777,310	\$ 5,970,080	\$ 5,948,976	\$ 5,943,669

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2018-August 2019

Suppliers	1/1/2018-Jan	2/1/2018-Feb	3/1/2018-Mar	4/1/2018-Apr	5/1/2018-May	6/1/2018-Jun	7/1/2018-Jul	8/1/2018-Aug	9/1/2018-Sep	10/1/2018-Oct	TE Spok
Supplier 1	728,150	963,177	454,803	2,007,099	2,262,721	1,965,121	1,459,601	1,427,229	1,967,899	2,228,202	Supplier 1
Supplier 2	-	-	-	-	-	-	-	-	-	-	Supplier 2
Supplier 3	-	-	-	-	-	-	-	-	-	-	Supplier 3
Supplier 4	465,000	-	-	-	-	-	-	-	-	-	Supplier 4
Supplier 5	465,000	420,000	465,000	-	-	-	-	-	-	-	Supplier 5
Supplier 6	-	-	-	-	-	-	-	-	-	-	Supplier 6
Supplier 7	-	-	-	-	-	-	-	-	-	-	Supplier 7
Supplier 8	-	-	-	-	-	-	-	-	-	-	Supplier 8
Supplier 9	-	-	-	-	-	-	-	-	-	-	Supplier 9
Supplier 10	-	-	-	-	-	-	-	-	-	-	Supplier 10
Supplier 11	-	-	-	-	-	-	-	-	-	-	Supplier 11
Supplier 12	-	-	-	-	-	-	-	-	-	-	Supplier 12
Supplier 13	-	-	-	-	-	-	-	-	-	-	Supplier 13
Supplier 14	-	-	-	-	-	-	-	-	-	-	Supplier 14
Supplier 15	-	-	-	-	-	-	-	-	-	-	Supplier 15
Supplier 16	-	-	-	-	-	-	-	-	-	-	Supplier 16
Supplier 17	-	-	-	-	-	-	-	-	-	-	Supplier 17
Supplier 18	-	-	-	-	-	-	-	-	-	-	Supplier 18
Supplier 19	-	-	-	-	-	-	-	-	-	-	Supplier 19
Supplier 20	-	-	-	-	-	-	-	-	-	-	Supplier 20
Supplier 21	-	-	-	-	-	-	-	-	-	-	Supplier 21
Supplier 22	-	-	-	-	-	-	-	-	-	-	Supplier 22
Supplier 23	340,000	310,000	325,000	233,294	191,983	165,000	170,000	185,000	248,374	213,456	Supplier 23
Supplier 24	465,000	420,000	465,000	-	-	-	-	-	-	-	Supplier 24
Supplier 25	465,000	420,000	465,000	261,469	280,000	100,000	603,752	620,000	40,000	220,000	Supplier 25
Supplier 26	449,030	300,677	205,221	-	-	-	-	-	-	-	Supplier 26
Supplier 27	-	-	465,000	-	-	-	-	-	-	-	Supplier 27
Supplier 28	465,000	420,000	-	-	-	-	-	-	-	-	Supplier 28
Supplier 29	-	-	-	-	-	-	-	-	-	-	Supplier 29
Supplier 30	-	-	-	-	-	-	-	-	-	-	Supplier 30
Supplier 31	-	-	-	-	-	-	-	-	-	-	Supplier 31
Total	2,912,180	2,841,854	2,360,023	2,501,862	2,654,705	2,230,121	2,233,953	2,232,229	2,256,274	2,663,659	

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2018-August 2019

Schedule 3
 Item 53.04(c)(1)

Volumes

Suppliers	11/1/2018: Nov	12/1/2018: Dec	1/1/2019: Jan	2/1/2019: Feb	3/1/2019: Mar	4/1/2019: Apr	5/1/2019: May	6/1/2019: Jun	7/1/2019: Jul	8/1/2019: Aug
TE Spot	1,972,818	2,414,500	2,324,224	2,071,279	2,022,352	2,125,449	2,445,939	2,134,617	2,085,663	1,876,920
Supplier 1	-	-	-	-	-	-	-	-	-	-
Supplier 2	-	-	-	-	-	-	-	-	-	-
Supplier 3	-	-	-	-	-	-	-	-	-	-
Supplier 4	-	-	-	-	-	-	-	-	-	-
Supplier 5	-	-	-	-	-	-	-	-	-	-
Supplier 6	-	-	-	-	-	-	-	-	-	-
Supplier 7	-	-	-	-	-	-	-	-	-	-
Supplier 8	-	-	-	-	-	-	-	-	-	-
Supplier 9	-	-	-	-	-	-	-	-	-	-
Supplier 10	-	-	-	-	-	-	-	-	-	-
Supplier 11	-	-	-	-	-	-	-	-	-	-
Supplier 12	-	-	-	-	-	-	-	-	-	-
Supplier 13	-	-	-	-	-	-	-	-	-	-
Supplier 14	-	-	-	-	-	-	-	-	-	-
Supplier 15	-	-	-	-	-	-	-	-	-	-
Supplier 16	-	-	-	-	-	-	-	-	-	-
Supplier 17	-	-	-	-	-	-	-	-	-	-
Supplier 18	-	-	-	-	-	-	-	-	-	-
Supplier 19	-	-	-	-	-	-	-	-	-	-
Supplier 20	-	-	-	-	-	-	-	-	-	-
Supplier 21	-	-	-	-	-	-	-	-	-	-
Supplier 22	-	-	-	-	-	-	-	-	-	-
Supplier 23	-	-	-	-	-	-	-	-	-	-
Supplier 24	493,926	554,963	590,000	560,000	316,154	215,302	212,297	176,079	192,510	312,581
Supplier 25	-	-	-	-	-	-	-	-	-	-
Supplier 26	500,000	540,000	620,000	560,000	424,342	159,655	60,000	60,000	60,000	147,504
Supplier 27	-	-	-	-	-	-	-	-	-	-
Supplier 28	-	-	-	-	-	-	-	-	-	-
Supplier 29	-	-	-	-	-	-	-	-	-	-
Supplier 30	-	-	-	-	-	-	-	-	-	-
Supplier 31	-	-	-	-	-	-	-	-	-	-
Total	2,966,744	3,509,464	3,534,224	3,191,279	2,762,847	2,500,407	2,718,236	2,370,696	2,338,173	2,337,005

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2018-August 2019

Schedule 3
 Item 53.64(c)(1)

Storages

	1/1/2018: Jan	2/1/2018: Feb	3/1/2018: Mar	4/1/2018: Apr	5/1/2018: May	6/1/2018: Jun	7/1/2018: Jul	8/1/2018: Aug	9/1/2018: Sep	10/1/2018: Oct
SS1A										
Injections	\$ 3,150	\$ -	\$ 1,181	\$ 5,561	\$ 12,145	\$ 12,694	\$ 13,118	\$ 13,118	\$ 12,224	\$ 9,517
Withdrawal	\$ 31,971	\$ 34,394	\$ 27,232	\$ 13,762	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522
Demand	\$ 212,152	\$ 212,152	\$ 212,152	\$ 212,152	\$ 212,152	\$ 212,152	\$ 212,152	\$ 212,152	\$ 212,152	\$ 212,152
Total Charges	\$ 275,795	\$ 275,068	\$ 269,088	\$ 259,998	\$ 252,820	\$ 253,369	\$ 253,792	\$ 253,792	\$ 252,899	\$ 250,192
SS1B										
Injections	\$ 1,490	\$ -	\$ 894	\$ 4,432	\$ 9,257	\$ 8,863	\$ 9,159	\$ 9,159	\$ 8,863	\$ 8,863
Withdrawal	\$ 25,695	\$ 27,084	\$ 17,042	\$ 5,802	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529
Demand	\$ 100,272	\$ 100,272	\$ 100,272	\$ 100,272	\$ 100,272	\$ 100,272	\$ 100,272	\$ 100,272	\$ 100,272	\$ 100,272
Total Charges	\$ 153,986	\$ 153,886	\$ 144,738	\$ 137,035	\$ 136,058	\$ 135,665	\$ 135,960	\$ 135,960	\$ 135,665	\$ 135,665
GSSTE										
Injections	\$ 295	\$ -	\$ -	\$ 9,471	\$ 19,573	\$ 17,121	\$ 15,733	\$ 15,733	\$ 15,225	\$ 15,225
Injections/Retention Fv	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Withdrawal	\$ 13,686	\$ 13,960	\$ 11,333	\$ 4,280	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825
Demand	\$ 63,573	\$ 63,573	\$ 63,573	\$ 63,573	\$ 63,573	\$ 63,573	\$ 63,573	\$ 63,573	\$ 63,573	\$ 63,573
Total Charges	\$ 134,378	\$ 134,358	\$ 131,730	\$ 134,148	\$ 139,971	\$ 137,519	\$ 136,130	\$ 136,130	\$ 135,623	\$ 135,623
Total Injection Charges	\$ 4,934	\$ -	\$ 2,075	\$ 19,463	\$ 40,975	\$ 38,679	\$ 38,009	\$ 38,009	\$ 36,312	\$ 33,605
Total Injections/Retention	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Withdrawal Charges	\$ 71,352	\$ 75,438	\$ 55,607	\$ 23,844	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capacity Charges	\$ 111,877	\$ 111,877	\$ 111,877	\$ 111,877	\$ 111,877	\$ 111,877	\$ 111,877	\$ 111,877	\$ 111,877	\$ 111,877
Total Demand Charges	\$ 375,997	\$ 375,997	\$ 375,997	\$ 375,997	\$ 375,997	\$ 375,997	\$ 375,997	\$ 375,997	\$ 375,997	\$ 375,997
	\$ 564,160	\$ 563,312	\$ 545,556	\$ 531,181	\$ 528,849	\$ 526,553	\$ 525,883	\$ 525,883	\$ 524,186	\$ 521,479

Forecasted Summary of Firm Transportation

Texas Eastern Demand	\$ 2,078,670	\$ 2,078,097	\$ 2,077,539	\$ 2,076,981	\$ 2,076,423	\$ 2,075,866	\$ 2,075,308	\$ 2,074,750	\$ 2,074,313	\$ 2,073,830
Capacity Release Credits	\$ (479,733)	\$ (324,980)	\$ (467,699)	\$ (115,567)	\$ (119,420)	\$ (115,567)	\$ (119,420)	\$ (119,420)	\$ (905,149)	\$ (935,320)
Net Total	\$ 1,598,937	\$ 1,753,116	\$ 1,609,840	\$ 1,961,414	\$ 1,957,004	\$ 1,960,298	\$ 1,955,888	\$ 1,955,330	\$ 1,169,164	\$ 1,138,510
Total Demand Charges	\$ 1,598,937	\$ 1,753,116	\$ 1,609,840	\$ 1,961,414	\$ 1,957,004	\$ 1,960,298	\$ 1,955,888	\$ 1,955,330	\$ 1,169,164	\$ 1,138,510

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2018-August 2019

Schedule 3
Item 53.64(c)(1)

Storage

	11/1/2018: Nov	12/1/2018: Dec	1/1/2019: Jan	2/1/2019: Feb	3/1/2019: Mar	4/1/2019: Apr	5/1/2019: May	6/1/2019: Jun	7/1/2019: Jul	8/1/2019: Aug
SS1A										
Injections	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,197	\$ 12,929	\$ 12,694	\$ 13,118	\$ 13,118
Withdrawal	\$ 583	\$ 12,534	\$ 36,424	\$ 30,191	\$ 30,201	\$ 2,963	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522
Demand	\$ 212,152	\$ 212,152	\$ 212,152	\$ 212,152	\$ 212,152	\$ 212,152	\$ 212,152	\$ 212,152	\$ 212,152	\$ 212,152
Total Charges	\$ 241,258	\$ 253,209	\$ 277,099	\$ 270,866	\$ 270,876	\$ 249,835	\$ 253,604	\$ 253,369	\$ 253,792	\$ 253,792
SS1B										
Injections	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,716	\$ 11,967	\$ 11,808	\$ 12,202	\$ 12,202
Withdrawal	\$ 573	\$ 16,315	\$ 29,192	\$ 27,084	\$ 22,342	\$ 7,095	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529
Demand	\$ 100,272	\$ 100,272	\$ 100,272	\$ 100,272	\$ 100,272	\$ 100,272	\$ 100,272	\$ 100,272	\$ 100,272	\$ 100,272
Total Charges	\$ 127,375	\$ 143,116	\$ 155,994	\$ 153,886	\$ 149,143	\$ 139,613	\$ 138,768	\$ 138,610	\$ 139,003	\$ 139,003
GSSTE										
Injections	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,961	\$ 19,354	\$ 17,923	\$ 15,576	\$ 15,576
Injections/Retention Fr	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Withdrawal	\$ 1,834	\$ 14,006	\$ 15,669	\$ 10,798	\$ 7,749	\$ 4,982	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825
Demand	\$ 63,573	\$ 63,573	\$ 63,573	\$ 63,573	\$ 63,573	\$ 63,573	\$ 63,573	\$ 63,573	\$ 63,573	\$ 63,573
Total Charges	\$ 122,232	\$ 134,403	\$ 136,066	\$ 131,196	\$ 128,147	\$ 134,341	\$ 139,752	\$ 138,320	\$ 135,974	\$ 135,974
Total Injection Charges	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,874	\$ 44,250	\$ 42,425	\$ 40,895	\$ 40,895
Total Injections/Retention	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Withdrawal Charge	\$ 2,990	\$ 42,855	\$ 81,285	\$ 68,074	\$ 60,292	\$ 15,041	\$ -	\$ -	\$ -	\$ -
Total Capacity Charges	\$ 111,877	\$ 111,877	\$ 111,877	\$ 111,877	\$ 111,877	\$ 111,877	\$ 111,877	\$ 111,877	\$ 111,877	\$ 111,877
Total Demand Charges	\$ 375,997	\$ 375,997	\$ 375,997	\$ 375,997	\$ 375,997	\$ 375,997	\$ 375,997	\$ 375,997	\$ 375,997	\$ 375,997
	\$ 490,864	\$ 530,729	\$ 569,159	\$ 555,948	\$ 548,166	\$ 523,789	\$ 532,124	\$ 530,299	\$ 528,769	\$ 528,769

Forecasted Summary of Firm Transportation

Texas Eastern Demand	\$ 2,073,408	\$ 2,072,926	\$ 2,072,488	\$ 2,072,006	\$ 2,071,569	\$ 2,071,086	\$ 2,070,664	\$ 2,070,167	\$ 2,069,745	\$ 2,069,262
Capacity Release Credits	\$ (274,969)	\$ (284,134)	\$ (284,134)	\$ (256,637)	\$ (129,109)	\$ (209,728)	\$ (216,719)	\$ (209,728)	\$ (216,719)	\$ (216,719)
Net Total	\$ 1,798,440	\$ 1,788,792	\$ 1,788,354	\$ 1,815,369	\$ 1,942,460	\$ 1,861,359	\$ 1,853,946	\$ 1,860,439	\$ 1,853,026	\$ 1,852,544
Total Demand Charges	\$ 1,798,440	\$ 1,788,792	\$ 1,788,354	\$ 1,815,369	\$ 1,942,460	\$ 1,861,359	\$ 1,853,946	\$ 1,860,439	\$ 1,853,026	\$ 1,852,544

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2018-August 2018

Schedule 3
 Item 53.84(c)(1)

CAPACITY RELEASE (Dth)

	TRANSCO		TETCO		TETCO		TOTAL DOLLARS		TOTAL VOLUMES	
	Contract J691		Contract 800232		Contract 800515-514		TRANSCO	TETCO	TRANSCO	TETCO
	VOLUMES	DOLLARS	VOLUMES	DOLLARS	VOLUMES	DOLLARS				
Sep-17	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	-	-
Oct-17	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	-	-
Nov-17	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	-	-
Dec-17	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	-	-
Jan-18	310,000	\$ 512,864	579,948	\$ 479,733	-	\$ -	\$ 512,864	\$ 479,733	310,000	579,948
Feb-18	280,000	\$ 347,424	523,824	\$ 324,980	-	\$ -	\$ 347,424	\$ 324,980	280,000	523,824
Mar-18	310,000	\$ 276,706	579,948	\$ 258,831	-	\$ (208,868)	\$ 276,706	\$ 49,962	310,000	579,948
Apr-18	300,000	\$ 22,350	471,240	\$ 35,107	1,080,000	\$ 80,460	\$ 22,350	\$ 115,567	300,000	1,551,240
May-18	310,000	\$ 23,095	486,948	\$ 36,278	1,116,000	\$ 83,142	\$ 23,095	\$ 119,420	310,000	1,602,948
Jun-18	300,000	\$ 22,350	471,240	\$ 35,107	1,080,000	\$ 80,460	\$ 22,350	\$ 115,567	300,000	1,551,240
Jul-18	310,000	\$ 23,095	486,948	\$ 36,278	1,116,000	\$ 83,142	\$ 23,095	\$ 119,420	310,000	1,602,948
Aug-18	310,000	\$ 23,094	486,948	\$ 36,278	1,116,000	\$ 83,142	\$ 23,094	\$ 119,420	310,000	1,602,948
TOTAL September 17 - August 18	2,430,000	\$ 1,250,978	4,087,044	\$ 1,242,592	5,508,000	\$ 201,478	\$ 1,250,978	\$ 1,444,069	2,430,000	9,595,044

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2018-August 2019

Schedule 3
 Item 53.84(c)(1)

CAPACITY RELEASE (Dth)

	TRANSCO		TETCO		TETCO		TOTAL DOLLARS		TOTAL VOLUMES	
	Contract 3691		Contract #00232		Contract 800515-514		TRANSCO	TETCO	TRANSCO	TETCO
	VOLUMES	DOLLARS	VOLUMES	DOLLARS	VOLUMES	DOLLARS				
Sep-18	300,000	\$ 175,050	471,240	\$ 274,969	1,080,000	\$ 630,180	\$ 175,050	\$ 905,149	300,000	1,551,240
Oct-18	310,000	\$ 180,885	486,948	\$ 284,134	1,116,000	\$ 651,186	\$ 180,885	\$ 935,320	310,000	1,602,948
Nov-18	300,000	\$ 175,050	471,240	\$ 274,969	468,000	\$ -	\$ 175,050	\$ 274,969	300,000	939,240
Dec-18	310,000	\$ 180,885	486,948	\$ 284,134	-	\$ -	\$ 180,885	\$ 284,134	310,000	486,948
Jan-19	310,000	\$ 180,885	486,948	\$ 284,134	-	\$ -	\$ 180,885	\$ 284,134	310,000	486,948
Feb-19	280,000	\$ 163,380	439,824	\$ 256,637	-	\$ -	\$ 163,380	\$ 256,637	280,000	439,824
Mar-19	310,000	\$ 41,912	486,948	\$ 65,835	-	\$ 63,274	\$ 41,912	\$ 129,109	310,000	486,948
Apr-19	300,000	\$ 40,560	471,240	\$ 63,712	1,080,000	\$ 146,016	\$ 40,560	\$ 209,728	300,000	1,551,240
May-19	310,000	\$ 41,912	486,948	\$ 65,835	1,116,000	\$ 150,883	\$ 41,912	\$ 216,719	310,000	1,602,948
Jun-19	300,000	\$ 40,560	471,240	\$ 63,712	1,080,000	\$ 146,016	\$ 40,560	\$ 209,728	300,000	1,551,240
Jul-19	310,000	\$ 41,912	486,948	\$ 65,835	1,116,000	\$ 150,883	\$ 41,912	\$ 216,719	310,000	1,602,948
Aug-19	310,000	\$ 41,912	486,948	\$ 65,835	1,116,000	\$ 150,883	\$ 41,912	\$ 216,719	310,000	1,602,948
TOTAL September 18 - August 19	3,650,000	1,304,903	5,733,420	2,049,742	8,172,000	2,089,321	\$ 1,304,903	\$ 4,139,063	3,650,000	13,905,420

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

DIRECT TESTIMONY OF

KENNETH S. DYBALSKI

ON BEHALF OF
PHILADELPHIA GAS WORKS

Docket No. **R-2018-2645938**

Philadelphia Gas Works
Proposed 2018 Annual GCR Adjustment

March 1, 2018

RECEIVED
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PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

1 **Q. PLEASE STATE YOUR NAME AND POSITION WITH THE COMPANY.**

2

3 A. My name is Kenneth S. Dybalski. My position is Vice President- Energy
4 Planning & Technical Compliance at the Philadelphia Gas Works.

5

6 **Q. HOW LONG HAVE YOU HELD THIS POSITION?**

7

8 A. I assumed the position of Vice President - Energy Planning & Technical
9 Compliance in 2016. Prior to this position, I was the Director of Gas Planning and
10 Rates from 2006 to 2016 and the Manager of Gas Planning from 2001 to 2006.

11

12 **Q. AS IT PERTAINS TO GAS PLANNING AND RATEMAKING, WHAT
13 ARE YOUR JOB RESPONSIBILITIES?**

14

15 A. In my present position, I am responsible for the short and long term planning of
16 gas demand, gas supply, raw material expense and revenue; overseeing the
17 preparation of sales, sendout, revenue and fuel expense projections; developing
18 peak day/hour load projections; overseeing the development of the various filings
19 before the Pennsylvania Public Utility Commission (PUC) and Philadelphia Gas
20 Commission (PGC), including the quarterly and annual Gas Cost Rate (GCR)
21 filings; preparing the Integrated Resource Planning Report; and providing
22 supporting documentation for gas costs related to PGW's Operating Budget
23 before the Philadelphia Gas Commission.

24

25 **Q. PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND.**

26

27 A. I received a BS and MBA from Temple University in Philadelphia, Pennsylvania.

28

29

1 **Q. HAVE YOU EVER PROVIDED TESTIMONY BEFORE THIS**
2 **COMMISSION?**

3

4 A. Yes, I submitted testimony for the PGW 1307f Annual GCR Filings in Docket
5 Nos. R-2017-2587526, R-2016-2526700, R-2015-2465656, R-2014-2404355, R-
6 2013-2346376, R-2012-2286447, R-2011-2224739, R-2010-20157062, R-2009-
7 2088076, and R-2008-2021348. I have also submitted testimony in PGW's last
8 base rate proceeding (R-2017-2586783), in PGW's previous base rate proceeding
9 (Docket No. R-2009-2139884) and PGW's 2008 Extraordinary Rate Request
10 (Docket No. R-2008-2073938).

11

12 **Q. HOW IS YOUR TESTIMONY STRUCTURED**

13

14 A. First, I describe PGW's rate design and Gas Cost Rate (GCR) calculation
15 methodology. Second, I describe the level of heating degree-days utilized in this
16 filing. Third, I identify the methodology for determining the number of customers
17 and calculating firm sales. Fourth, I discuss the calculation for the Unaccounted
18 for Adjustment Factor (UAF). Fifth, I discuss Off System Sales and Capacity
19 Release credits. Sixth, I discuss the changes to the PGW Gas Service Tariff and
20 the PGW Gas Supplier Tariff. Lastly, I will discuss the reasonableness of PGW's
21 gas costs.

22

23 **Q. PLEASE DESCRIBE THE IMPACT OF THE PROPOSED CHANGE IN**
24 **PGW's GCR IN THIS PROCEEDING.**

25

26 A. PGW's GCR on September 1, 2017 was \$4.1523 / Mcf and this rate was increased
27 in the Company's first quarterly GCR filing on December 1, 2017 to \$4.6913.
28 PGW's second quarter GCR filing, also submitted to the PUC concurrently with
29 this filing, decreases the GCR to \$3.8857 effective March 1, 2018. The proposed
30 rate to be effective September 1, 2018 is \$4.0369.

31

1 **Q. PLEASE SUMMARIZE THE EVIDENCE THAT PGW IS SUBMITTING**
2 **IN SUPPORT OF ITS PROPOSED GCR ADJUSTMENT.**

3

4 A. Tab 2 of this filing contains the schedules supporting the filing requirements of
5 Section 53.64(a) for the proposed GCR for the period September 1, 2018 through
6 August 31, 2019.

7

8 Schedule 1 identifies the Levelized Gas Cost Rate. Specifically, this schedule
9 identifies the GCR Firm Sales Volumes in Mcfs (“S”), Total Applicable GCR
10 Expense (“C”), and adjustments for Prior Year Reconciliation and Interest (“E”).
11 An adjustment is also included for the Interruptible Revenue Credit (IRC).
12 Additionally, this schedule calculates the company’s total projected recovery plus
13 the load balancing revenue and LNG sales demand revenue to determine if these
14 rates adequately cover the Net Applicable GCR Expense (a Net Over/Under
15 Recovery amount is displayed to prove the calculation). Schedule 1a details the
16 Price to Compare for the PGW rate classes.

17

18 Schedule 2 identifies the calculation of GCR Firm Sales in Mcfs (“S”) and the
19 Applicable Volumes. The company utilizes Total Volumes and subtracts the
20 volumes associated with Firm Transportation, Interruptible Sales, LNG Sales and
21 AC Sales to arrive at GCR Firm Sales (“S”). Also included in Schedule 2 are the
22 Applicable Volumes which is comprised of GCR Firm Sales less 20% of the sales
23 attributable to Senior Citizens (Senior Citizen Discount Sales) plus the Firm
24 Transportation Volumes.

25

26 Schedule 3 identifies the Projected Applicable Fuel Expense. Specifically, this
27 schedule identifies PGW’s Net Natural Gas Expense and Total Applicable
28 Expenses. To arrive at the Net Natural Gas Expense, the total cost of commodity
29 and pipeline charges for firm sales are calculated per month. Two credits are then
30 applied for the portion of gas costs recovered from PGW’s Interruptible Sales
31 customers (i.e. the “Interruptible & A/C Credit”) and for gas used by PGW (i.e.

1 “Gas Used by Utility”). Next, the Company calculates the net effect of gas
2 supplies being transferred into and out of storage and LNG. The result is the Net
3 Natural Gas Expense. To arrive at the Total Applicable Expenses in Schedule 3,
4 the fuel expenses for Purchased Electric and miscellaneous are added to the Net
5 Natural Gas Expenses to arrive at Total Applicable Expenses.

6
7 Schedule 4(a) is the actual/estimated data for FY 18. Schedule 4(b) is the C factor
8 Reconciliation for FY 18. Schedule 4(c) is the E factor Reconciliation for FY 18.
9 Schedule 4(d) is the IRC Revenue Billed for FY 18. Schedule 4(e) is the
10 Reconciliation of Demand Charges for FY 18.

11
12 Schedule 5(a) (“Interest Calculation”) provides the calculation of the interest
13 expense or credit for the period of September 2017 through August 2018 for the
14 under/over recovery of fuel costs and the interest for the natural gas refunds.
15 Schedule 5(b) (“Interest on Natural Gas Refunds”) provides information on
16 historic refunds that have been received by the Company resulting from various
17 cases before the Federal Energy Regulatory Commission and the interest on these
18 refunds. Schedule 5(c) provides the calculation of the interest for the demand and
19 commodity charges.

20
21 Schedule 6 presents the load balancing revenue for the forecast period of
22 September 2018 to August 2019.

23
24 Schedule 7 calculates total projected recovery with the proposed GCR.

25
26 Schedule 8 shows the changes in rates identifying the proposed changes to the
27 GCR and distribution charge and the impact on the proposed total commodity
28 rate.

29
30 Schedule 9(a) shows the calculation of the Universal Service & Energy
31 Conservation Surcharge to be effective September 1, 2018. Schedule 9(b) is the

1 reconciliation of the Universal Service & Energy Conservation Surcharge for
2 period of September 2017 to August 2018.

3
4 Schedule 10(a) shows the calculation of the Interruptible Revenue Credit to be
5 effective September 1, 2018. Schedule 10(b) is the forecasted Interruptible
6 Revenue Margin for Fiscal Year 2019. Schedule 10(c) is the reconciliation of the
7 Interruptible Revenue Credit for Fiscal Year 2017.

8
9 Schedule 11(a) shows the calculation of the Other Post Employment Benefit
10 (OPEB) Surcharge to be effective September 1, 2018. Schedule 11(b) is the
11 reconciliation of the OPEB Surcharge for Fiscal Year 2017.

12
13 Schedule 12(a) shows the calculation of the Efficiency Cost Recovery Surcharge
14 to be effective September 1, 2018. Schedule 12(b) shows the reconciliation of the
15 Efficiency Cost Recovery Surcharge for the Fiscal Year 2018.

16
17 Schedule 13(a) is the calendar year 2017 reconciliation of the Load Balancing
18 Charge and Schedule 13(b) is the 2017 Load Balancing Expense and Interest
19 Calculation.

20
21 Schedule 14 sets the load balancing charge to be effective September 1, 2018.

22
23 Schedule 15 identifies the natural gas prices that were used in the preparation of
24 this filing.

25
26 Schedule 16 is the annual reconciliation of its retainage rate and lost and
27 unaccounted for rate.

28
29 Schedule 17(a) is the Restructuring and Consumer Education Surcharge to be
30 effective September 1, 2018; Schedule 17(b) is the Restructuring and Consumer

1 Education Surcharge FY 18 Reconciliation; and Schedule 17(c) is the
2 Restructuring and Consumer Education Expense.

3
4 **Q. WHAT IS THE TIME PERIOD FOR FORECASTING PGW'S FUTURE**
5 **GAS COSTS?**

6
7 A. PGW's forecast period is a twenty (20) month period that commences on January
8 1, 2018 (two months before this filing) and eight months before the effective date
9 of the tariff on September 1, 2018. The 2018-19 GCR year is from September 1,
10 2018 to August 31, 2019, however, since the required forecast covers 20 months,
11 it must begin eight months earlier, consistent with Commission regulations.

12
13 **Q. PLEASE PROVIDE A GENERAL DESCRIPTION OF PGW'S RATE**
14 **DESIGN AND GCR CALCULATION METHODOLOGY.**

15
16 A. The volumetric rates charged to PGW's customers are the distribution charge and
17 the Gas Cost Rate plus the Merchant Function Charge (MFC) and Gas
18 Procurement Charge (GPC). The distribution charge consists of the Delivery
19 Charge; the Universal Service and Energy Conservation Surcharge; the Other Post
20 Retirement Benefit Surcharge; the Efficiency Cost Recovery Surcharge; and
21 Restructuring and Consumer Education Surcharge. The Universal Service and
22 Energy Conservation Surcharge provides for the recovery of Customer
23 Responsibility Program (CRP) discounts; Senior Citizen Discounts; the costs of
24 the Enhanced Low Income Retrofit Program (ELIRP); and CRP arrearage
25 forgiveness. The Other Post Retirement Benefit Surcharge recovers the amount to
26 fund these obligations. The Efficiency Cost Recovery Surcharge recovers the cost
27 of the energy efficiency programs.

28
29 The second element of the rate is the Gas Cost Rate or GCR factor. This charge is
30 a mechanism used to flow through the costs of natural gas costs and other raw

1 materials in a timely and equitable manner. The specific elements of PGW's
2 GCR are set forth in PGW's Tariff.

3
4 Generally, the cost of gas purchased to serve the requirements of PGW's
5 customers constitutes the largest single item in the delivered price of gas. In the
6 past, all natural gas costs were recovered through base rates (distribution charge).
7 However, in the early 1970's, the price of gas lost its stability and underwent rapid
8 escalation during and after a worldwide oil crisis. To combat this instability and
9 prevent the economic harm to all parties caused by regulatory lag in reflecting
10 these price fluctuations in base rates, the concept of a fuel adjustment surcharge
11 mechanism was introduced by PGW. This mechanism provides the flexibility to
12 rapidly reflect current conditions without the time delay inherent in a full-scale
13 base rate alteration. The intent is to achieve an annual balance of the costs
14 incurred for fuel and its pass-through to customers. The costs for pipeline
15 transportation, storage capacity and related fuel prices charged by the interstate
16 pipeline suppliers are largely outside of distributor control. The Public Utility
17 Commission oversees the pass-through of these charges and the balancing
18 activity. The Gas Cost Rate Section in PGW's Tariff identifies the appropriate
19 formula for such a balance and the charges that may be recovered through this
20 mechanism. Charges for natural gas and other raw materials are included in the
21 GCR. In addition, the interest expense for the over or under recovery of gas costs
22 and natural gas refunds are also included in the GCR. No labor or profit
23 component is added by PGW. The GCR represents the direct pass-through of
24 actual costs incurred.

25
26 Only costs related to meeting customer sendout requirements, including
27 associated plant fuel, may be included as a fuel expense for GCR purposes.
28 Purchases diverted into storage and/or LNG become an expense only when
29 withdrawn for customer delivery. Costs associated with purchases made to
30 supply interruptible customers are excluded from the Total Applicable GCR

1 Expenses used to calculate the GCR. Also, demand costs for pipeline
2 transportation for the firm transportation customers are excluded from the GCR.

3
4 Various adjustments are then made to the total applicable expenses eligible for the
5 GCR. Natural gas refunds and interest on the refunds are credited in the
6 calculation of the GCR in the fiscal year received. An adjustment is made to
7 correct for any over or under recovery during the previous period resulting from
8 differences between rates used to project the prior GCR and those actually
9 experienced. The interest expense or credit on the over or under recovery is
10 applied to calculate the total adjustment. An additional adjustment is also made
11 for the Interruptible Revenue Credit which is a credit that firm sales customers
12 receive for the interruptible sales margin.

13
14 To determine the unit level of the GCR, the remaining total expenses must be
15 divided by the sum of the volumes over which they can be effectively distributed.

16
17 **Q. WHAT IS THE BASIS FOR THE PRICES USED IN DETERMINING THE**
18 **GAS COSTS USED IN THIS FILING?**

19
20 A. The pricing methodology utilized by the Company is consistent with that used in
21 the recent quarterly filings with the inclusion of the additional months in the 20-
22 month forecast. Specifically, the company utilized actual prices for January 2018
23 and the NYMEX Futures close data (as of January 16, 2018) for the 19 forecast
24 months of February 2018 through August 2019.

25
26 **Q. HOW DOES THE GCR FOR THE FORECAST PERIOD COMPARE**
27 **WITH THE GCR FORECASTED IN THE COMPANY'S LAST ANNUAL**
28 **GCR FILING?**

1 A. The GCR forecasted for 2018-2019 is lower than the level PGW had forecasted
2 for the 2017-2018 GCR. The level of costs in the 2018-2019 period are being
3 influenced by the decrease in prices for natural gas compared to the prior year.
4
5

6 **Q. DESCRIBE THE LEVEL OF HEATING DEGREE-DAYS THAT WERE**
7 **USED IN YOUR ANALYSIS.**
8

9 A. The Company utilizes the temperatures recorded at the PGW Richmond Plant to
10 calculate the average temperature for a given day. The Company subtracts the
11 average temperature from 65 degrees to calculate the number of degree-days for
12 the day. The degree-days for all of the days in the year are aggregated to arrive at
13 the total number of degree-days for the year. Next, the Company calculates the
14 average heating degree-days for the past 20 years to arrive at the forecasted
15 heating degree-days in a normal year and in this filing PGW is using the 20 year
16 average of 3,957 degree days.
17

18 **Q. HOW HAS THE COMPANY CALCULATED THE NUMBER OF**
19 **CUSTOMERS IN EACH RATE CLASS?**
20

21 A. PGW determined the actual number of customer billings on December 31, 2017
22 using the PGW Gas Sales and Revenue Reports. Next, the Marketing Department
23 load forecast was used to factor in the addition and loss of customers. Finally, the
24 customer numbers were adjusted for the loss of customers due to non-payment
25 terminations.
26

27 **Q. WHAT IS THE METHODOLOGY FOR CALCULATING THE WEATHER**
28 **NORMALIZED BILLED SALES?**
29

30 A. PGW used a two step process to arrive at the appropriate level of usage per
31 customer. First, a trial domestic factor is developed by class of customers from

1 sales reported for the previous year's summer months. This average factor is then
2 utilized in the sendout formula with the customer counts for the months of July,
3 August and September. A comparison between what the formula calculates and
4 the actual experienced for those three months is ascertained and the trial domestic
5 factors are finalized to replicate the total sendout experienced. The finalized
6 domestic factors (DOMS) are then utilized in conjunction with the actual sales
7 and customer counts for the months of December, January and February to
8 determine the average Mcf per degree day for each of the individual months for
9 the remaining temperature sensitive load. The results are weighted by degree-
10 days to give an average value which is utilized as a trial value for the heating
11 factor.

12
13 The finalized domestic factor and the trial heating factor developed, as such, are
14 then applied in the sendout calculations together with customer counts for the
15 months of December, January and February (the peak winter cold period) to
16 project an estimated sendout for each of these months. The projected sendout is
17 then compared with the actual sendout experienced. Any variation between the
18 projected and actual is adjusted to force the replication of the actual sendout
19 experience, thus resulting in the determination of a finalized heating factor.

20
21 Utilizing these domestic and heating factors, billed sales are then forecasted using
22 3,957 degree days and the number of customers.

23
24 **Q. WHAT IS THE UNACCOUNTED FOR GAS PERCENTAGE USED IN**
25 **THIS FILING?**

26
27 **A.** The level of unaccounted for gas and retainage rate used in this filing is 3.3 % and
28 is based on a 3-year average.

29

1 **Q. WHAT IS THE TOTAL AMOUNT OF OFF SYSTEM SALES, CAPACITY**
2 **RELEASE CREDITS, AND ASSET MANAGEMENT CREDITS THAT**
3 **ARE INCORPORATED INTO THE GCR?**

4
5 A. PGW has projected that the amount of off system sales, capacity release credits,
6 and asset management credits within the GCR period of 2018-19. This amount is
7 based on a 3 year average. Of that amount \$5,443,966 (75%) was credited to the
8 GCR.

9
10 **Q. BASED UPON THE ABOVE SUPPORTING DATA, DO YOU BELIEVE**
11 **THAT PGW'S GAS COSTS ARE REASONABLE?**

12
13 A. Yes, PGW's GCR only contains the direct pass-through of actual costs incurred
14 and projections of the same (for both gas costs and certain non-gas costs that were
15 previously approved by the PUC). As stated by Mr. Snyder in his testimony,
16 PGW follows a least cost gas procurement strategy.

17
18 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

19
20 A. Yes.

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

DIRECT TESTIMONY OF

RAYMOND M. SNYDER

ON BEHALF OF
PHILADELPHIA GAS WORKS

Docket Number R-2018-2645938

Philadelphia Gas Works
Proposed 2018 Annual GCR Adjustment

March 1, 2018

1 **I. INTRODUCTION**

2 **Q. PLEASE STATE YOUR NAME AND CURRENT POSITION WITH PGW.**

3 A. My name is Raymond M. Snyder. My position with PGW is Senior Vice President of
4 Gas Management.

5 **Q. PLEASE SUMMARIZE YOUR BACKGROUND AND EXPERIENCE.**

6 A. I received a Bachelor of Science degree in Civil Engineering from Pennsylvania State
7 University in 1979. I have also received a Masters in Engineering Management from
8 Drexel University in 1988. I am a registered Professional Engineer in Pennsylvania.
9 I have held the following positions at PGW: Engineering Assistant; Assistant Staff
10 Engineer; Staff Engineer; Senior Staff Engineer; Assistant Manager, Engineering;
11 Manager, Engineering; Director, Operations Systems Administration; Director, Gas
12 Processing; and Vice President, Gas Management.

13 **Q. HAVE YOU EVER PROVIDED TESTIMONY BEFORE THIS COMMISSION?**

14 A. Yes. I submitted testimony for the PGW 1307f Annual GCR Filings in Docket Nos. R-
15 2013-2346376, R-2014-2404355, R-2015-2465656, R-2016-2526700 and
16 R-2017-2587526.

17 **Q. WHAT IS THE FOCUS OF YOUR TESTIMONY IN THIS PROCEEDING?**

18 A. My testimony discusses:

- 19
- 20 • PGW's gas purchasing policies and strategies applicable to FY 2019 (September
 - 21 1, 2018 through August 31, 2019) and FY 2018 (September 1, 2017 through
 - 22 August 31, 2018);
 - 23 • PGW's design day requirement;
 - 24 • Capacity release, off-system sales and asset management fee sharing;
 - Price analysis and buying advisory service.

1 **Q. PLEASE PROVIDE A GENERAL DESCRIPTION OF PGW'S GAS**
2 **DISTRIBUTION SYSTEM.**

3 A. PGW's gas distribution system is located in Southeastern Pennsylvania in the County and
4 City of Philadelphia. Since this is not a gas-producing area, PGW and its natural gas
5 customers are dependent upon the interstate natural gas pipeline system to deliver natural
6 gas into the PGW gas distribution system. PGW relies on the interstate pipeline for all
7 natural gas supply, storage, and transportation services, except for PGW's own on-system
8 peak shaving facilities. PGW owns and operates two LNG facilities that are used
9 primarily both to meet intraday, daily and seasonal supply needs as well as to meet peak
10 day requirement.

11 **Q. PLEASE IDENTIFY PGW'S CURRENT INTERSTATE SUPPLIERS.**

12 A. Spectra Energy's Texas Eastern Transmission pipeline and Williams' Transco Gas
13 Pipeline comprise the two interstate natural gas pipelines that deliver gas to PGW's city
14 gates. In addition, PGW uses off-system natural gas storage services to meet winter peak
15 requirements.

16

17 **II. GAS PURCHASING POLICIES AND SUPPLY STRATEGY**

18 **Q. DOES PGW UTILIZE A LEAST-COST PROCUREMENT POLICY IN ITS GAS**
19 **PURCHASING POLICIES AND SUPPLY STRATEGY?**

20

21 A. Yes.

22 **Q. PLEASE DESCRIBE PGW'S SUPPLY STRATEGY.**

1 A. PGW's supply strategy¹ (which is currently being used during the FY 2018 GCR period
2 and which the Company intends to use for the FY 2019 GCR period) is a portfolio
3 approach in both contract structure and pricing. The portfolio approach of purchasing gas
4 supply allows PGW to remove some of the volatility in purchasing natural gas supplies
5 for its ratepayers. Without the use of the portfolio approach, firm ratepayer would be
6 totally at the mercy of market volatility.

7 The Company's gas supply portfolio is divided into four distinct categories: (1)
8 daily index price swing contracts; (2) physical forward purchased contracts; (3) storage;
9 and (4) LNG.

10 (1) The advantage of daily index priced swing contracts are their operational
11 flexibility which allows PGW to increase or decrease the volume in response to changes
12 in sendout requirements. During certain time periods, these types of contracts also
13 provide security of supply.

14 (2) The Company enters into physical forward purchased contracts for summer
15 and winter baseload supplies. These contracts permit the Company to make discretionary
16 physical forward purchases on a year-round basis.

17 (3) The Company utilizes storage fields which act as additional sources of supply.
18 The gas procured under these contracts also act as a physical fixed price counter to
19 market conditions.

20 (4) The Company operates its own LNG peak shaving liquefaction, vaporization,
21 and storage facilities.

¹ All natural gas supply strategies are presented to the Company's internal Supply Committee for review and approval. The Supply Committee is comprised of senior corporate management as well as Gas Supply, Gas Planning and Regulatory departmental management. The Supply Committee meets monthly.

1 Spectra Energy and Williams Gas Pipeline represent the only interstate pipeline
2 facilities with physical connections to the PGW service territory. As a result, all of
3 PGW's supply contracts utilize these pipelines and the contracts also recognize pipeline
4 receipt and delivery rights. These contracts contain the ability to "lock up" the price for
5 upcoming months or to have the pricing default to an agreed upon market index if there is
6 no market advantage in fixing a price before the month begins. As a result, PGW not
7 only ensures security of supply from the pipelines but also can take advantage of varying
8 basis differentiated pricing in the market. This differentiated pricing results from the fact
9 that all shippers of natural gas receive their gas at varying locations along the pipeline.
10 PGW uses a city-gate delivered price in comparing the various alternatives available.
11 The city gate delivered price is computed considering the "into the pipe price of gas" plus
12 all incremental charges levied by the transporting pipeline to deliver the gas to the city
13 gate. These prices include, but are not limited to, reservation fees, fuel, transportation
14 charges and FERC Annual Charge Adjustment ("ACA") charges.

15 Additionally, PGW utilizes storages and LNG to meet operational requirements.
16 Bundled storage contracts provide for the right both to the storage of the gas and its
17 delivery to PGW via bundled pipeline capacity. Unbundled storage contracts provide
18 storage rights for gas which is transported on PGW firm pipeline transportation capacity.
19 These storages provide off-system storage and LNG provides on-system storage. While
20 both types of storages are important to fulfill operational requirements, PGW's on-system
21 LNG storage is vital during peak days when customer demand exceeds the amount of gas
22 that can be physically provided through PGW's city gates.

1 Once operational requirements are met, these assets are then used in the overall
2 cost saving strategies. For example, once design winter sendout requirements are
3 ensured, the Company may utilize bundled storage and LNG as a substitute for higher
4 priced gas. PGW's summer gas procurement policy uses a similar approach to address
5 system supply and storage refill. The Gas Supply department also uses forecasted prices
6 as a benchmark to purchase gas volumes for both system supply and storage refill below
7 the projected cost (when possible) on a proportional basis, while leaving a portion of its
8 needs to default to first of the month pricing.

9 **Q. DOES PGW PURCHASE GAS FROM ANY AFFILIATED INTEREST?**

10 A. No. PGW does not have any affiliated gas suppliers or pipelines.

11 **Q. DOES PGW TAKE STEPS TO ENSURE SYSTEM RELIABILITY WHILE**
12 **SEEKING TO PROCURE GAS AT THE LEAST COST?**

13
14 A. Yes. PGW physically sources the gas in accordance with its firm pipeline paths. The
15 pipelines give PGW firm entitlements on their systems for the sourcing of gas for which
16 PGW pays a demand charge. By sourcing supply in this way, PGW ensures its sole
17 entitlement to this space on the pipeline and cannot be accused of infringement.
18 Transporting gas from different locations also mitigates the impact of potential regional
19 disruptions because not all of the supply enters the pipe at the same location. As a result,
20 if there is a disruption at one location, not all of PGW's supply will be affected.
21 PGW's Gas Planning Department also runs a supply status model during the winter
22 operating season which recognizes normal and design winter conditions and the latest
23 actual balance of gas in all storage facilities. Gas Management utilizes the output of this
24 model to make recommendations or changes in its supply operating strategy to ensure
25 that peak day needs and design winter conditions can be met from that point forward.

1 **Q. DOES PGW PERIODICALLY REVIEW ITS EXISTING CONTRACTS TO**
2 **DETERMINE IF THEY ARE APPROPRIATE?**

3
4 A. Yes. PGW reviews each of its existing contracts on a regular basis to ensure that none of
5 the contracts are adverse to its customers' interests. Whenever appropriate, PGW
6 initiates renegotiations (if the contract permits) to change the terms.

7 **Q. IN YOUR OPINION, ARE THE GAS COSTS INCURRED BY PGW**
8 **REASONABLE?**

9
10 A. Yes. The 2016-2017 gas costs and the gas costs incurred to date during the 2017-2018
11 period are the result of the least cost gas procurement strategy outlined in my testimony
12 and are therefore reasonable.

13
14 **III. DESIGN DAY REQUIREMENT**

15 **Q. PLEASE PROVIDE AN OVERVIEW OF THE DESIGN DAY REQUIREMENT.**

16 A. Details of PGW's design day methodology and an account of the 2017/2018 winter
17 design day requirement can be found in the responses to items 53.64 (c)(13) and
18 53.64(c)(14) which were provided in PGW's February 1, 2018 GCR Filing.

19
20 **IV. CAPACITY RELEASE, OFF-SYSTEM SALES MARGIN AND ASSET**
21 **MANAGEMENT CREDITS/FEES**

22
23 **Q. HAS PGW BEEN RETAINING A PORTION OF NET PROCEEDS FROM**
24 **CAPACITY RELEASE CREDITS, OFF-SYSTEM SALES MARGIN AND**
25 **ASSET MANAGEMENT CREDITS/FEES?**

26
27 A. Yes. During the 2008-2009 GCR proceeding (Docket No. R-2008-2021348), the parties
28 agreed that PGW will retain 25% of all off-system sales margins and capacity release
29 credits with the remaining 75% applied as an offset to purchased gas costs for the

1 retention period of September 1, 2008 to August 31, 2011. Likewise, the parties agreed
2 that PGW will retain 25% of all off-system sales margins, capacity release credits and
3 asset management margins/credits/fees² with the remaining 75% applied as an offset to
4 purchased gas costs for the following GCR proceedings and retention periods:

GCR Proceeding	Docket No.	Retention Period
2013-2014	R-2013-2346376	9/1/13 to 8/31/14
2014-2015	R-2014-2404355	9/1/14 to 8/31/15
2015-2016	R-2015-2465656	9/1/15 to 8/31/16
2016-2017	R-2016-2526700	9/1/16 to 8/31/17
2017-2018	R-2017-2587526	9/1/17 to 8/31/18
2018-2019	R-2018-2645938	9/1/18 to 8/31/19

5
6 The Company also agreed to include an off-system sales margin, capacity release credit
7 and asset management margins/credits/fees retention proposal for the Purchased Gas Cost
8 period(s) beginning on September 1, 2017 in its March 1, 2018 annual 1307(f) filing.

9 **Q. DOES PGW HAVE A RETENTION PROPOSAL FOR THE PGC PERIODS**
10 **BEGINNING ON SEPTEMBER 1, 2018?**

11
12 A. Yes. PGW proposes to continue the retention of 25% of capacity release credits, off
13 system sales margin and asset management margin/credit/fees and the application of the
14 remaining 75% to the gas cost rate.

15

² Asset management margins/credits/fees are received when PGW enters into a contract with a third party to manage all or part of a storage contract or firm pipeline transportation contract.

1 **Q. HOW ARE SHARING MECHANISMS BENEFICIAL TO BOTH RATEPAYERS**
2 **AND UTILITES?**

3
4 A. The ratepayers and the utility receive benefit from the policy because it creates an
5 incentive to maximize efforts to make off system sales and capacity release transactions,
6 thereby increasing the amounts applied to the gas cost rate and the lesser portion retained
7 by the utility.

8

9 **V. PRICE ANALYSIS AND BUYING ADVISORY SERVICE**

10 **Q. DOES PGW CURRENTLY USE A PRICE ANALYSIS AND BUYING**
11 **ADVISORY SERVICE AS PART OF ITS EFFORTS TO OBTAIN GAS AT**
12 **LEAST COST?**

13 A. Yes, it does. PGW utilizes a firm called Plananytics to provide such services.

14 **Q. WHAT TYPES OF SERVICES DOES PLANANYTICS PROVIDE TO PGW?**

15

16 A. Planalytics provides the following services:

- 17
- Price feed from Nymex and Globex for natural gas, crude oil, heating oil and

18 RBOB (reformulated gasoline);

 - Buying suggestions up to 18 months in the future;

19

 - A charting tool for technical analysis;

20

 - Short and medium range weather forecasts;

21

 - Weather alerts (issued in advance of significant weather events);

22

 - Planalytics' pre-season hurricane forecast and in-season updates; and

23

 - Additional energy buyer features include reporting (i.e. mark-to-market,

24 transaction history, etc.) and portfolio/hedging parameters.

25

1 **Q. WHAT DID THE COMMISSION'S AUGUST 3, 2017 ORDER IN PGW'S 2017-**
2 **2018 GCR PROCEEDING STATE WITH REGARD TO THE PLANALYTICS**
3 **ENERGY BUYER SERVICES?**

4 **A.** The Order stated the following:

5 Philadelphia Gas Works shall recover the Planalytics fee for price analysis and
6 buying advisory services (not to exceed \$125,000) for the 2017-2018 Gas Cost
7 Rate period. Continued recovery of the fee beyond the 2017-2018 Gas Cost Rate
8 period must be addressed in next year's Purchased Gas Cost proceeding.
9

10 **Q. DOES PGW WISH TO CONTINUE THE PLANALYTICS BUYING ADVISORY**
11 **SERVICES?**

12 **A.** Yes. The Planalytics' service provides a comprehensive amount of information that the
13 Company finds useful in the procurement of all gas supply. Nonetheless, PGW
14 understands that it must reach a new agreement as to the continuing recovery of the
15 Planalytics fee and the Company looks forward to discussing this issue with the parties
16 involved in this year's proceeding.
17

18 **VII. GAS SUPPLY PURCHASES**

19 **Q. WHAT WAS INCORPORATED INTO PGW'S 2017-2018 GCR SETTLEMENT**
20 **REGARDING GAS SUPPLY PURCHASES?**

21 **A.** PGW agreed to the following:

22 For gas supply purchases delivered using its Texas Eastern Transmission
23 Corporation ("TETCO") and Transcontinental Gas Pipe Line ("Transco") firm
24 transportation capacity, PGW will purchase supplies from the pipeline zone with
25 the lowest delivered cost, reserving the right to make gas supply purchases from
26 other zones for reasons related to availability and/or reliability.
27

28 **Q. WHERE DID PGW PURCHASE NATURAL GAS ON THE TEXAS EASTERN**
29 **TRANSMISSION CORPORATION ("TETCO") PIPELINE IN FY 2018?**

30 **A.** 100% of all purchases on the 'TETCO' pipeline were from Market Zone M2 in FY 2018.

31 **Q. WERE THESE PURCHASES IN ACCORDANCE WITH THE SETTLEMENT**
32 **TERM REFERENCED ABOVE?**

1 A. Yes.

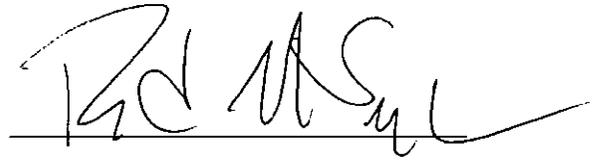
2 Q. **DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

3 A. Yes.

VERIFICATION

I, Raymond M. Snyder, hereby state that I am the Sr. Vice President – Gas Management for Philadelphia Gas Works, I am authorized to make this verification its behalf, the facts above set forth in the foregoing document are true and correct (or are true and correct to the best of my knowledge, information and belief), and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18Pa. C.S. § 4904 (relating to unsworn falsification to authorities).

2/29/2018
Dated


Raymond M. Snyder

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CERTIFICATE OF SERVICE

I hereby certify that this day I served a copy of PGW's March 1, 2018, Section 1307(f) Gas Cost Rate Filing, upon the persons listed below in the manner indicated in accordance with the requirements of 52 Pa. Code Section 1.54.

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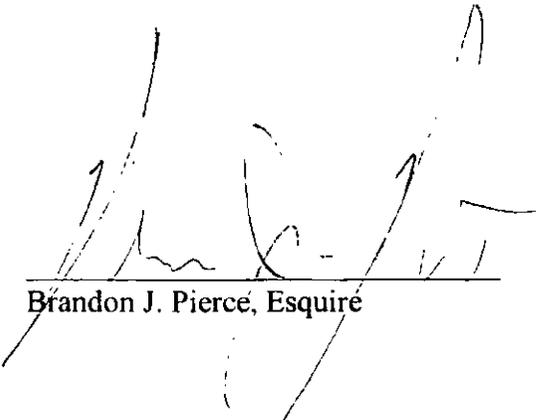
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Dated: March 1, 2018

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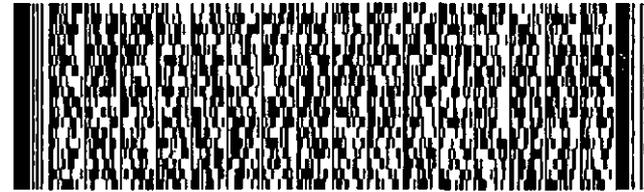
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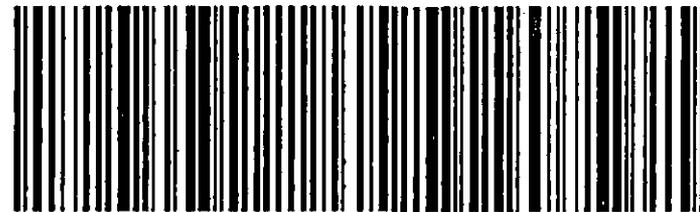
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