



PHILADELPHIA GAS WORKS

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March 1, 2017

VIA FEDERAL EXPRESS

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

RECEIVED

MAR 3 2017

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

**Re: Philadelphia Gas Works 2017-2018 Gas Cost Rate Filing
Docket No. R-2017-2587526**

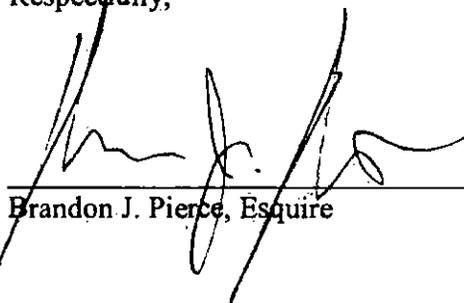
Dear Secretary Chiavetta:

On behalf of Philadelphia Gas Works ("PGW"), enclosed for filing is the original of PGW's March 1, 2017, 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, 2018; and
- Testimony of Kenneth Dybalski (PGW St. 1) and Raymond Snyder (PGW St. 2).

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.

Philadelphia Gas Works
Before The
Pennsylvania Public Utility Commission

**Computation of Annual Purchased Gas Costs
For Twelve Months Ending August 31, 2018**

66 Pa.C.S. § 1307(f)

Information Submitted Pursuant To:

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

March 1, 2017

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PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

**Philadelphia Gas Works
66 Pa.C.S. § 1307(f) – 2017**

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Tab 1

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PA PUBLIC UTILITIES
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PGW

Gas Service Tariff

Pa. P.U.C. No. 2

Supplement No. 102

PHILADELPHIA GAS WORKS

Supplement No. 102 to
Gas Service Tariff – Pa P.U.C. No. 2
One Hundred and Second Revised Page No. 1
Canceling One Hundred and First Revised Page No. 1

PHILADELPHIA GAS WORKS
GAS SERVICE TARIFF



Issued by: Craig White
President and CEO

PHILADELPHIA GAS WORKS
800 West Montgomery Avenue
Philadelphia, PA 19122

Issued: March 1, 2017

Effective: September 1, 2017

List of Changes Made by this Tariff Supplement

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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, 2017, increases from \$(0.00609) per Ccf to \$(0.00573) 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, 2017, decreases from \$0.00017 to \$0.00012 per Ccf. In the definition of "SSC," the "SSC" value effective September 1, 2017, decreases from \$0.50056 per Ccf to \$0.48736 per Ccf.

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

The Gas Cost Rate (GCR) effective September 1, 2017, decreases from \$0.49430 per Ccf to \$0.48152 per Ccf.

PRICE TO COMPARE (Page No. 78)

The Prices to Compare effective September 1, 2017, are: a) \$0.50817 per Ccf for Residential; b) \$0.48698 per Ccf for Commercial Customers on Rate GS; c) \$0.48707 per Ccf for Industrial Customers on Rate GS; and d) \$0.48563 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, 2017, is \$0.00095 per Ccf.

EFFICIENCY COST RECOVERY SURCHARGE (Page No. 80)

The Efficiency Cost Recovery Surcharges effective September 1, 2017, are: a) \$0.00304 per Ccf for Residential and Public Housing Customers on Rate GS; b) \$0.00765 per Ccf for Commercial Customers on Rate GS; c) \$0.00893 per Ccf for Industrial Customers on Rate GS; d) \$0.00000 per Ccf for Municipal Customers on Rate MS; and e) \$0.00765 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, 2017, decreases from \$0.14628 per Ccf to \$0.12484 per Ccf.

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

The Other Post Employment Benefit Surcharge effective September 1, 2017, increases from \$0.03724 per Ccf to \$0.03757 per Ccf.

GENERAL SERVICE – RATE GS (Page No. 83)

The Gas Cost Rate (GCR) effective September 1, 2017, decreases from \$0.49430 per Ccf to \$0.48152 per Ccf.

MUNICIPAL SERVICE – RATE MS (Page No. 87)

The Gas Cost Rate (GCR) effective September 1, 2017, decreases from \$0.49430 per Ccf to \$0.48152 per Ccf.

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

The Gas Cost Rate (GCR) effective September 1, 2017, decreases from \$0.49430 per Ccf to \$0.48152 per Ccf.

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

The Gas Cost Rate (GCR) effective September 1, 2017, decreases from \$0.49430 per Ccf to \$0.48152 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 \$(0.01041) per Ccf for Commodity Costs and \$0.00468 per Ccf for Demand Costs, for service on or after September 1, 2017. The total GAC is \$(0.00573) per Ccf. (I)

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.

(I) – Increase

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Canceling Fifty Eighth Revised Page No. 67A

IRC - Interruptible Revenue Credit - The credit defined in Subsection VI below. The currently effective IRC is \$0.00012 per Ccf for service on or after September 1, 2017.

(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 \$0.35938 per Ccf for Commodity Costs and \$0.12798 per Ccf for Demand Costs, for service on or after September 1, 2017. The total SSC is \$0.48736 per Ccf.

(D)

(D) – Decrease

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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 \$0.48152 per Ccf, for service on or after September 1, 2017. (D)

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).

(D) – Decrease

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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: 4.68% - GS Residential ("GS RES"); 0.28% - GS Commercial ("GS COM"); and 0.30% - 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	\$0.48736	\$0.48736	\$0.48736	\$0.48736	\$0.48736	\$0.48736	\$0.48736	(C)
GAC	(\$0.00573)	(\$0.00573)	(\$0.00573)	(\$0.00573)	(\$0.00573)	(\$0.00573)	(\$0.00573)	
MFC	\$0.02254	\$0.00000	\$0.00135	\$0.00144	\$0.00000	\$0.00000	\$0.00000	
GPC	\$0.00400	\$0.00400	\$0.00400	\$0.00400	\$0.00400	\$0.00400	\$0.00400	
PTC	<u>\$0.50817</u>	<u>\$0.48563</u>	<u>\$0.48698</u>	<u>\$0.48707</u>	<u>\$0.48563</u>	<u>\$0.48563</u>	<u>\$0.48563</u>	

(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 = \$0.00095/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) \$0.00304 per Ccf for Residential and Public Housing Customers on Rate GS; | (I) |
| b) \$0.00765 per Ccf for Commercial Customers on Rate GS; | (I) |
| c) \$0.00893 per Ccf for Industrial Customers on Rate GS; | (I) |
| d) \$0.00000 per Ccf for Municipal Customers on Rate MS; and | (NC) |
| e) \$0.00765 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 = \$ 0.12484/Ccf.

(D)

(D) - Decrease

Issued: March 1, 2017

Effective: September 1, 2017

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 = \$0.03757/Ccf

(I)

(I) - Increase

Issued: March 1, 2017

Effective: September 1, 2017

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, 2017.

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)):

\$ 12.00 per month for Residential and Public Housing Authority Customers.
\$ 18.00 per month for Commercial Customers
\$ 50.00 per month for Industrial Customers

Surcharge: Distribution System Improvement Charge.

Plus,

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

\$0.48152 per Ccf for Residential and Public Housing (D)
\$0.48152 per Ccf for Commercial Customers (D)
\$0.48152 per Ccf for Industrial Customers (D)

Plus,

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

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

\$0.60067 per Ccf for Residential
\$0.49441 per Ccf for Public Housing
\$0.45984 per Ccf for Commercial and Municipal Customers
\$0.45332 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.

(D) – Decrease

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, 2017.

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):

\$ 18.00 per month

Surcharge: Distribution System Improvement Charge.

Plus,

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

\$0.48152 per Ccf

(D)

Plus,

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

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

\$0.33661 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.

(D) – Decrease

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, 2017.

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):

\$18.00 per month

Surcharge: Distribution System Improvement Charge.

Plus,

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

\$0.48152 per Ccf

(D)

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):

\$0.41101 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.

(D) – Decrease

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, 2017.

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):

\$0.48152 per Ccf

(D)

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.

(D) – Decrease

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

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PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

PGW

Gas Supplier Tariff

Pa. P.U.C. No. 1

Supplement No. 70

PHILADELPHIA GAS WORKS

GAS SUPPLIER TARIFF



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

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, 2017, is \$37.9113 per design day Mcf.

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PHILADELPHIA GAS WORKS

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 \$37.9113 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.

(D)

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:

$$BSC = (C / S_1) - (E / S_2)$$

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.

(D) - Decrease

Tab 2

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PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

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

1307F Filing - September 1, 2017

Formula:
GCR = SSC + GAC - IRC

where:

	<u>Demand</u>	<u>Commodity</u>	<u>Total</u>	
S = Firm Sales (Mcf)			42,166,557	Schedule 2
Net Natural Gas Expense	\$ 54,591,727	\$ 152,530,027	\$ 207,121,754	
Purchased Electric & Misc Expenses	\$ -	\$ 769,086	\$ 769,086	
C = Total Applicable GCR Expense	\$ 54,591,727	\$ 153,299,114	\$ 207,890,841	Schedule 3
SSC = C / S	\$ 1.2947	\$ 3.6355	\$ 4.9302	
Adjustment For:				
E-Factor Volumes (Mcf)			42,166,557	
Interest	\$ (103,160)	\$ (259,181)	\$ (362,341)	Schedule 5(b)
E-Factor Reconciliation	\$ 2,076,978	\$ (4,132,012)	\$ (2,055,034)	Schedule 4(b),4(c)
	\$ 1,973,817	\$ (4,391,192)	\$ (2,417,375)	
E = E-Factor	\$ 0.0468	\$ (0.1041)	\$ (0.0573)	
Interruptible Revenue Credit			\$ 48,528	Schedule 10(a)
IRC = Interruptible Revenue Credit / S			\$ 0.0012	
Net Applicable GCR Expenses = C + E - Interruptible Revenue Credit			\$ 205,424,938	
<u>GCR = SSC + GAC - IRC</u>			\$ 4.8717	
SSC in effect 9/01/17	\$ 1.2798	\$ 3.5938	\$ 4.8736	
GAC in effect 9/01/17	\$ 0.0468	\$ (0.1041)	\$ (0.0573)	
IRC in effect 9/01/17			\$ (0.0012)	
GCR in effect 9/01/17			\$ 4.8162	Schedule 7
Recovery Test on:				
Firm Sales (Mcf)			42,166,557	
= GCR Projected Recovery		\$	203,093,851	
= Load Balancing Revenue		\$	1,033,791	
= LNG Sales Demand Revenue		\$	1,294,700	
= Total Projected Recovery		\$	205,422,342	Schedule 7
Compared To				
Net Applicable GCR Expenses		\$	205,424,938	
= Net Over/(Under) Recovery		\$	(2,596)	
Degree Days			3,855	

Philadelphia Gas Works

Price To Compare (\$ / MCF)

September 1, 2017

	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	\$4.8152	(\$0.0584)	\$4.8736	4.68%	\$0.2254	\$0.0400	(\$0.0573)	\$5.0817
Commercial GS	\$4.8152	(\$0.0584)	\$4.8736	0.28%	\$0.0135	\$0.0400	(\$0.0573)	\$4.8698
Industrial GS	\$4.8152	(\$0.0584)	\$4.8736	0.30%	\$0.0144	\$0.0400	(\$0.0573)	\$4.8707
Phila. Housing Authority (PHA)	\$4.8152	(\$0.0584)	\$4.8736	0%	\$0.0000	\$0.0400	(\$0.0573)	\$4.8563
Municipal (MS)	\$4.8152	(\$0.0584)	\$4.8736	0%	\$0.0000	\$0.0400	(\$0.0573)	\$4.8563
NGV Firm	\$4.8152	(\$0.0584)	\$4.8736	0%	\$0.0000	\$0.0400	(\$0.0573)	\$4.8563
Phila. Housing Authority (GS)	\$4.8152	(\$0.0584)	\$4.8736	0%	\$0.0000	\$0.0400	(\$0.0573)	\$4.8563

SALES & VOLUMES

SEPTEMBER 2017 THROUGH AUGUST 2018

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 2017	1,113,041	159,657	953,384	448	82,192	1,697	869,047	3,448	1,025,256
OCTOBER	1,508,074	228,827	1,279,247	463	84,932	119	1,193,734	5,009	1,417,552
NOVEMBER	3,350,800	405,285	2,945,515	448	82,192	-	2,862,875	14,615	3,253,546
DECEMBER	5,841,152	608,102	5,233,050	463	84,932	-	5,147,656	27,457	5,728,301
JANUARY 2018	9,847,693	871,598	8,976,095	463	84,932	-	8,890,701	48,508	9,713,792
FEBRUARY	9,121,468	780,722	8,340,746	418	76,712	-	8,263,616	44,518	8,999,820
MARCH	6,893,535	607,200	6,286,335	463	84,932	-	6,200,941	32,341	6,775,800
APRIL	4,456,766	381,668	4,075,098	448	82,192	-	3,992,459	20,157	4,353,969
MAY	2,060,238	221,421	1,838,817	463	84,932	5	1,753,418	7,710	1,967,130
JUNE	1,356,181	193,072	1,163,109	448	82,192	1,049	1,079,421	3,731	1,268,762
JULY	1,288,134	186,266	1,101,867	463	84,932	1,652	1,014,821	3,406	1,197,682
AUGUST	<u>1,151,129</u>	<u>165,720</u>	<u>985,409</u>	<u>463</u>	<u>84,932</u>	<u>2,147</u>	<u>897,868</u>	<u>2,971</u>	<u>1,060,616</u>
TOTAL	47,988,210	4,809,539	43,178,672	5,447	1,000,000	6,668	42,166,557	213,869	46,762,227

**Projected Applicable Fuel Expense
SUMMARY
SEPTEMBER 2017 - AUGUST 2018**

	SEPTEMBER 2017	OCTOBER 2017	NOVEMBER 2017	DECEMBER 2017	JANUARY 2018	FEBRUARY 2018	MARCH 2018	APRIL 2018	MAY 2018	JUNE 2018	JULY 2018	AUGUST 2018	TOTAL
NATURAL GAS BILLED													
DEMAND CHARGE	\$4,560,258	\$4,540,920	\$4,890,889	\$4,941,589	\$4,940,833	\$4,962,762	\$4,880,011	\$4,437,412	\$4,104,802	\$4,126,567	\$4,103,231	\$4,102,474	\$54,591,727
COMMODITY CHARGE	\$10,047,213	\$10,605,724	\$16,381,071	\$22,264,624	\$23,769,978	\$22,778,535	\$20,730,578	\$11,088,095	\$7,995,865	\$5,532,460	\$2,656,771	\$2,543,430	\$156,294,344
TOTAL NATURAL GAS BILLED	\$14,607,471	\$15,146,643	\$21,271,941	\$27,206,213	\$28,710,810	\$27,741,297	\$25,610,688	\$15,525,507	\$12,100,666	\$9,659,028	\$6,660,002	\$6,645,904	\$210,886,071
INTERRUPTIBLE & A/C CREDIT	\$7,362	\$2,055	\$1,625	\$1,724	\$1,715	\$1,555	\$1,720	\$1,381	\$1,370	\$4,378	\$6,230	\$7,667	\$38,781
SENDOUT VOLUME IN MCF	2,216	600	463	478	478	432	478	463	483	1,546	2,185	2,098	12,517
DKT CONVERSION FACTOR	1.037	1.037	1.037	1.037	1.037	1.037	1.037	1.037	1.037	1.037	1.037	1.037	
PRICE \$/DKT	\$3.2041	\$3.3011	\$3.3065	\$3.4778	\$3.4588	\$3.4727	\$3.4704	\$2.8798	\$2.7347	\$2.7309	\$2.7496	\$2.7423	
GAS USED FOR UTILITY	\$37,515	\$45,550	\$73,984	\$141,271	\$172,012	\$184,613	\$159,687	\$73,438	\$39,784	\$25,901	\$22,709	\$25,325	\$1,001,789
NATURAL GAS TO STORAGE	(\$6,939,020)	(\$2,915,061)	\$0	\$0	\$0	\$0	\$0	(\$2,002,747)	(\$3,655,459)	(\$2,766,971)	\$284,185	\$284,255	(\$17,710,817)
FROM STORAGE PGW	\$0	\$0	\$382,418	\$2,963,380	\$7,958,809	\$5,105,251	\$1,182,179	\$292,216	\$0	\$0	\$0	\$0	\$17,884,253
FT FROM STORAGE	\$0	\$0	\$35,250	\$241,318	\$463,122	\$406,562	\$90,844	\$0	\$0	\$0	\$0	\$0	\$1,237,095
NET NATURAL GAS STORAGE	(\$6,939,020)	(\$2,915,061)	\$382,418	\$2,963,380	\$7,958,809	\$5,105,251	\$1,182,179	(\$1,710,531)	(\$3,655,459)	(\$2,766,971)	\$284,185	\$284,255	\$173,436
LNG TO STORAGE	(\$32,787)	(\$715,833)	(\$1,332,601)	(\$1,128,218)	(\$483,440)	(\$344,727)	(\$1,248,827)	(\$946,053)	(\$294,239)	(\$13,949)	\$0	\$0	(\$6,538,674)
FROM LNG PGW	\$459,335	\$477,067	\$489,679	\$508,011	\$935,323	\$639,818	\$522,943	\$515,130	\$531,966	\$514,438	\$531,576	\$531,876	\$6,836,852
FT FROM LNG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NET LNG STORAGE	\$426,548	(\$238,776)	(\$862,922)	(\$620,207)	\$451,883	\$495,091	(\$723,884)	(\$430,923)	\$237,727	\$500,489	\$531,576	\$531,576	\$298,178
LNG SALES FROM LNG TANK	\$241,668	\$249,962	\$246,830	\$263,967	\$271,161	\$247,858	\$276,881	\$274,249	\$283,230	\$273,838	\$282,958	\$282,958	\$3,195,360
SENDOUT VOLUMES (MCF)	82,192	84,932	82,192	84,932	84,932	76,712	84,932	82,192	84,932	82,192	84,932	84,932	1,000,000
@ AVG LNG COMMODITY RATE	\$2.9403	\$2.9431	\$3.0031	\$3.1080	\$3.1927	\$3.2310	\$3.2577	\$3.3367	\$3.3348	\$3.3317	\$3.3316	\$3.3316	
NET NATURAL GAS EXPENSE	\$7,808,454	\$11,695,239	\$20,468,998	\$29,142,424	\$36,676,615	\$32,907,614	\$25,630,794	\$13,034,984	\$8,358,650	\$7,088,430	\$7,163,866	\$7,145,786	\$207,121,754
APPLICABLE GCR EXPENSE													
NET NATURAL GAS EXPENSE	\$7,808,454	\$11,695,239	\$20,468,998	\$29,142,424	\$36,676,615	\$32,907,614	\$25,630,794	\$13,034,984	\$8,358,650	\$7,088,430	\$7,163,866	\$7,145,786	\$207,121,754
PURCHASED ELECTRIC & MISC	\$23,643	\$50,948	\$51,871	\$67,861	\$82,929	\$87,831	\$79,989	\$52,736	\$42,103	\$21,429	\$46,224	\$36,721	\$644,086
PLANALYTICS	\$0	\$0	\$0	\$0	\$125,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125,000
TOTAL APPLICABLE EXPENSES	\$7,832,097	\$11,746,187	\$20,520,669	\$29,210,285	\$36,884,544	\$32,995,445	\$25,710,784	\$13,087,721	\$8,400,653	\$7,109,859	\$7,210,091	\$7,182,507	\$207,890,841
TOTAL GCR FIRM SALES	869,047	1,193,734	2,862,875	5,147,656	8,890,701	8,263,616	6,200,941	3,992,459	1,753,418	1,079,421	1,014,821	897,868	42,166,557

**ACTUAL / ESTIMATED DATA - FISCAL YEAR 2017
PHILADELPHIA GAS WORKS**

Rate	7/1/2016	Split Month 9/1/2016	10/1/2016	Split Month 12/1/2016	1/1/2017	Split Month 3/1/2017	4/1/2017
	SSC in Effect	\$ 3.7551	\$ 4.0107	\$ 4.2662	\$ 4.2367	\$ 4.2071	\$ 4.6064
GAC in Effect	\$ (0.5353)	\$ (0.2986)	\$ (0.0619)	\$ (0.0547)	\$ (0.0474)	\$ (0.0542)	\$ (0.0609)
IRC in Effect	\$ (0.0019)	\$ (0.0018)	\$ (0.0017)	\$ (0.0019)	\$ (0.0020)	\$ (0.0019)	\$ (0.0017)
Total Effective	\$ 3.2179	\$ 3.7103	\$ 4.2026	\$ 4.1802	\$ 4.1577	\$ 4.5504	\$ 4.9430
Percentage of Total							
C-Factor	116.7%	108.1%	101.5%	101.4%	101.2%	101.2%	101.3%
E-Factor	-16.6%	-8.0%	-1.5%	-1.3%	-1.1%	-1.2%	-1.2%
IRC-Factor	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100%	100%	100%	100%	100%	100%	100%

C-Factor							
Demand Charge in Effect	\$ 1.1324	\$ 1.1749	\$ 1.2173	\$ 1.2885	\$ 1.3596	\$ 1.2780	\$ 1.1964
Commodity in Effect	\$ 2.6227	\$ 2.8358	\$ 3.0489	\$ 2.9482	\$ 2.8475	\$ 3.3284	\$ 3.8092
Total Effective	\$ 3.7551	\$ 4.0107	\$ 4.2662	\$ 4.2367	\$ 4.2071	\$ 4.6064	\$ 5.0058
Percentage of Total							
Demand Charge in Effect	30.2%	29.3%	28.5%	30.4%	32.3%	27.7%	23.9%
Commodity in Effect	69.8%	70.7%	71.5%	69.6%	67.7%	72.3%	76.1%
Total	100%	100%	100%	100%	100%	100%	100%

	C-Factor Over/(Under)	E-Factor Over/(Under)	Interest Over/(Under)	FY 2016 Final E-Factor
Fiscal Year 2016 E-Factor	\$ 2,267,684	\$ (109,192)	\$ 286,497	\$ 2,444,989

Actual Fiscal Year 2016-2017	Sep-2016	Oct-2016	Nov-2016	Dec-2016	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	FY-2017
	Actual	Actual	Actual	Actual	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Totals
GCR Firm Sales	925,157	1,202,685	2,580,829	5,472,734	8,057,104	7,897,206	6,239,499	4,018,547	1,765,180	1,088,743	1,021,625	903,767	41,171,077
Migration Rider Sales	1,476	-	-	-	-	-	-	-	-	-	-	-	1,476
GCR Revenue Billed	\$ 3,457,095	\$ 5,070,159	\$ 10,825,976	\$ 23,143,420	\$ 33,499,020	\$ 32,834,215	\$ 28,391,905	\$ 19,883,676	\$ 8,725,287	\$ 5,371,773	\$ 5,049,893	\$ 4,467,319	\$ 180,699,738
Migration Rider Revenue Billed	\$ (614)	\$ 38	\$ 342	\$ 98	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (135)
Load Balancing Billed	\$ 91,362	\$ 91,800	\$ 83,326	\$ 75,857	\$ 81,487	\$ 81,988	\$ 81,379	\$ 81,870	\$ 82,360	\$ 82,851	\$ 83,341	\$ 83,888	\$ 1,001,509
LNG Sales Demand Charge Credit	\$ -	\$ -	\$ -	\$ 7,493	\$ 95,366	\$ 86,164	\$ 83,945	\$ 81,237	\$ 83,945	\$ 81,237	\$ 83,945	\$ 83,945	\$ 687,306
Total Revenue Billed	\$ 3,547,844	\$ 5,161,997	\$ 10,909,644	\$ 23,226,868	\$ 33,675,803	\$ 33,002,367	\$ 28,557,229	\$ 20,026,784	\$ 8,891,592	\$ 5,535,861	\$ 5,217,179	\$ 4,635,152	\$ 182,388,418
Natural Gas Refunds	\$ -	\$ -	\$ 1,431	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,431
Demand Charges	\$ 4,732,272	\$ 4,727,256	\$ 5,124,677	\$ 5,149,234	\$ 4,947,249	\$ 4,973,732	\$ 4,890,816	\$ 4,446,263	\$ 4,422,664	\$ 4,444,285	\$ 4,420,657	\$ 4,419,552	\$ 56,698,659
Supply Charges	\$ 1,571,784	\$ 3,028,219	\$ 8,903,748	\$ 21,907,741	\$ 24,188,660	\$ 24,808,297	\$ 18,745,482	\$ 9,460,348	\$ 4,408,400	\$ 2,956,879	\$ 3,100,841	\$ 3,077,520	\$ 126,157,900
Net Cost of Fuel	\$ 6,304,036	\$ 7,755,475	\$ 14,028,425	\$ 27,056,975	\$ 29,135,909	\$ 29,782,029	\$ 23,836,300	\$ 13,906,611	\$ 8,831,084	\$ 7,401,165	\$ 7,521,498	\$ 7,497,072	\$ 182,856,559

* Load Balancing Billed Revised

**FISCAL YEAR 2017
PHILADELPHIA GAS WORKS
C-FACTOR RECONCILIATION**

MONTH	NET COST	TOTAL	C FACTOR	C FACTOR	LOAD BALANCING	LNG SALES GCR	TOTAL	NATURAL GAS	OVER/	CUMULATIVE
	OF FUEL	GCR		REVENUE			REVENUE		C FACTOR	
	1	2	3	4 = (2 * 3)	5	6	7 = (4 + 5 + 6)	8	9 = (7 + 8 - 1)	10
	(\$)	(\$)		(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
SEPTEMBER 2016	6,304,036	3,457,095	108.1%	3,736,999	91,362	0	3,828,361	0	(2,475,675)	(2,475,675)
OCTOBER	7,755,475	5,070,159	101.5%	5,146,888	91,800	0	5,238,688	0	(2,516,787)	(4,992,463)
NOVEMBER	14,028,425	10,825,976	101.5%	10,989,811	83,326	0	11,073,137	1,431	(2,953,857)	(7,946,319)
DECEMBER	27,056,975	23,143,420	101.4%	23,456,233	75,857	7,493	23,539,582	0	(3,517,393)	(11,463,712)
JANUARY 2017	29,135,909	33,499,020	101.2%	33,897,041	81,487	95,396	34,073,924	0	4,938,015	(6,525,697)
FEBRUARY	29,782,029	32,834,215	101.2%	33,224,337	81,988	86,164	33,392,489	0	3,610,460	(2,915,237)
MARCH	23,636,300	28,391,905	101.2%	28,741,317	81,379	83,945	28,906,641	0	5,270,340	2,355,104
APRIL	13,906,611	19,863,676	101.3%	20,115,237	81,870	81,237	20,278,345	0	6,371,733	8,726,837
MAY	8,831,064	8,725,287	101.3%	8,835,787	82,360	83,945	9,002,092	0	171,028	8,897,865
JUNE	7,401,165	5,371,773	101.3%	5,439,803	82,851	81,237	5,603,891	0	(1,797,274)	7,100,591
JULY	7,521,498	5,049,893	101.3%	5,113,847	83,341	83,945	5,281,133	0	(2,240,365)	4,860,226
AUGUST	<u>7,497,072</u>	<u>4,467,319</u>	101.3%	<u>4,523,894</u>	<u>83,888</u>	<u>83,945</u>	<u>4,691,727</u>	<u>0</u>	<u>(2,805,344)</u>	2,054,881
Totals	182,856,559	180,699,738		183,221,193	1,001,509	687,306	184,910,009	1,431	2,054,881	

**FISCAL YEAR 2017
PHILADELPHIA GAS WORKS
E-FACTOR RECONCILIATION**

		GCR SALES 1	MIGRATION RIDER SALES 2	TOTAL E-FACTOR VOLUMES 3=(1+2)	TOTAL GCR REVENUE BILLED 4	E-FACTOR % of GCR 5	E-FACTOR GCR REVENUE BILLED 6=(4*5)	MIGRATION RIDER REVENUES 7	TOTAL E-FACTOR REVENUE 8=(6+7)	OVER/(UNDER) PROJECTED RECOVERY (9)
		(MCF)	(MCF)	(MCF)	(\$)		(\$)	(\$)	(\$)	(\$)
PRIOR YEAR E-FACTOR										\$ 2,444,989
MONTH										
SEPTEMBER 2016	Actual	925,157	1,476	926,633	\$ 3,457,095	-8.0%	\$ (278,226)	\$ (614)	\$ (278,840)	\$ 2,166,149
OCTOBER	Actual	1,202,685	-	1,202,685	\$ 5,070,159	-1.5%	\$ (74,678)	\$ 38	\$ (74,640)	\$ 2,091,509
NOVEMBER	Actual	2,580,829	-	2,580,829	\$ 10,825,976	-1.5%	\$ (159,456)	\$ 342	\$ (159,113)	\$ 1,932,396
DECEMBER	Actual	5,472,734	-	5,472,734	\$ 23,143,420	-1.3%	\$ (302,570)	\$ 98	\$ (302,472)	\$ 1,629,924
JANUARY 2017	Estimated	8,057,104	-	8,057,104	\$ 33,499,020	-1.1%	\$ (381,907)	\$ -	\$ (381,907)	\$ 1,248,017
FEBRUARY	Estimated	7,897,206	-	7,897,206	\$ 32,834,215	-1.1%	\$ (374,328)	\$ -	\$ (374,328)	\$ 873,689
MARCH	Estimated	6,239,499	-	6,239,499	\$ 28,391,905	-1.2%	\$ (337,869)	\$ -	\$ (337,869)	\$ 535,821
APRIL	Estimated	4,018,547	-	4,018,547	\$ 19,863,676	-1.2%	\$ (244,729)	\$ -	\$ (244,729)	\$ 291,091
MAY	Estimated	1,765,180	-	1,765,180	\$ 8,725,287	-1.2%	\$ (107,499)	\$ -	\$ (107,499)	\$ 183,592
JUNE	Estimated	1,086,743	-	1,086,743	\$ 5,371,773	-1.2%	\$ (66,183)	\$ -	\$ (66,183)	\$ 117,409
JULY	Estimated	1,021,625	-	1,021,625	\$ 5,049,893	-1.2%	\$ (62,217)	\$ -	\$ (62,217)	\$ 55,192
AUGUST	Estimated	903,767	-	903,767	\$ 4,467,319	-1.2%	\$ (55,039)	\$ -	\$ (55,039)	\$ 153
TOTAL		41,171,077	1,476	41,172,552	\$ 180,699,738		\$ (2,444,701)	\$ (135)	\$ (2,444,836)	

**FISCAL YEAR 2017
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 2016	3,457,095	-0.05%	(1,677)
OCTOBER	5,070,159	-0.04%	(2,051)
NOVEMBER	10,825,976	-0.04%	(4,379)
DECEMBER	23,143,420	-0.04%	(10,243)
JANUARY 2017	33,499,020	-0.05%	(16,114)
FEBRUARY	32,834,215	-0.05%	(15,794)
MARCH	28,391,905	-0.04%	(11,543)
APRIL	19,863,676	-0.03%	(6,832)
MAY	8,725,287	-0.03%	(3,001)
JUNE	5,371,773	-0.03%	(1,847)
JULY	5,049,893	-0.03%	(1,737)
AUGUST	<u>4,467,319</u>	-0.03%	<u>(1,536)</u>
TOTALS	180,699,738		(76,754)

**FISCAL YEAR 2017
PHILADELPHIA GAS WORKS
RECONCILIATION OF DEMAND CHARGES**

MONTH	DEMAND CHARGES			
	LESS LOAD BALANCING CHARGE REVENUE 1	DEMAND REVENUE BILLED 2	MONTHLY DEMAND OVER/(UNDER) 3 = (2 - 1)	CUMULATIVE DEMAND OVER/(UNDER) 4
	\$	\$	\$	\$
SEPTEMBER 2016	4,640,910	1,086,921	(3,553,989)	(3,553,989)
OCTOBER	4,635,456	1,464,028	(3,171,428)	(6,725,417)
NOVEMBER	5,041,351	3,141,643	(1,899,708)	(8,625,125)
DECEMBER	5,065,884	7,051,344	1,985,460	(6,639,665)
JANUARY 2017	4,770,366	10,954,438	6,184,072	(455,593)
FEBRUARY	4,805,580	10,737,042	5,931,462	5,475,869
MARCH	4,725,494	7,974,080	3,248,586	8,724,455
APRIL	4,283,156	4,807,789	524,633	9,249,088
MAY	4,256,359	2,111,862	(2,144,497)	7,104,591
JUNE	4,280,197	1,300,180	(2,980,017)	4,124,574
JULY	4,253,372	1,222,272	(3,031,099)	1,093,474
AUGUST	4,251,718	1,081,266	(3,170,452)	(2,076,978)
TOTALS	55,009,844	52,932,866	(2,076,978)	

**CALENDAR YEAR 2016
PHILADELPHIA GAS WORKS
INTEREST RATE CALCULATION**

MONTH	NET COST	C FACTOR	OVER/	INTEREST
	OF FUEL	% of GCR	(UNDER)	RATE
	1	REVENUE	RECOVERY	4
	3 = (2 - 1)	BILLED		
	(\$)	2	3 = (2 - 1)	(\$)
JANUARY 2016	26,541,391	25,579,847	(961,544)	
FEBRUARY	21,760,564	29,800,729	8,040,165	
MARCH	13,895,507	21,997,447	8,101,940	
APRIL	9,593,675	14,088,452	4,494,777	
MAY	9,541,183	8,920,785	(620,398)	
JUNE	5,887,695	5,306,190	(581,505)	
JULY	6,215,584	3,677,884	(2,537,700)	
AUGUST	6,675,834	3,216,623	(3,459,211)	
SEPTEMBER	6,304,036	3,828,361	(2,475,675)	
OCTOBER	7,755,475	5,238,688	(2,516,787)	
NOVEMBER	14,028,425	11,073,137	(2,955,288)	
DECEMBER	27,056,975	23,539,582	(3,517,393)	
Total	155,256,344	156,267,725	1,011,381	8%

**FISCAL YEAR 2017
PHILADELPHIA GAS WORKS
INTEREST CALCULATION**

MONTH	NET COST	TOTAL	OVER/	INTEREST	TIME	INTEREST	INTEREST	TOTAL
	OF FUEL ⁽¹⁾	C FACTOR REVENUE BILLED ⁽¹⁾	(UNDER) RECOVERY 3 = (2 - 1)	RATE	FACTOR	EXPENSE 6 = (3*4*5)	NATURAL GAS REFUNDS ⁽²⁾	INTEREST 8 = (6+7)
	1	2	3 = (2 - 1)	4	5	6 = (3*4*5)	7	8 = (6+7)
	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
SEPTEMBER 16	6,304,036	3,828,361	(2,475,675)	3.50%	18/12	(129,973)	-	(129,973)
OCTOBER	7,755,475	5,238,688	(2,516,787)	3.50%	17/12	(124,791)	-	(124,791)
NOVEMBER	14,028,425	11,073,137	(2,955,288)	3.50%	16/12	(137,913)	142	(137,771)
DECEMBER	27,056,975	23,539,582	(3,517,393)	3.75%	15/12	(164,878)	-	(164,878)
JANUARY 17	29,135,909	34,073,924	4,938,015	3.75%	14/12	216,038	-	216,038
FEBRUARY	29,782,029	33,392,489	3,610,460	3.75%	13/12	146,675	-	146,675
MARCH	23,636,300	28,906,641	5,270,340	3.75%	12/12	197,638	-	197,638
APRIL	13,906,611	20,278,345	6,371,733	3.75%	11/12	219,028	-	219,028
MAY	8,831,064	9,002,092	171,028	3.75%	10/12	5,345	-	5,345
JUNE	7,401,165	5,603,891	(1,797,274)	3.75%	9/12	(50,548)	-	(50,548)
JULY	7,521,498	5,281,133	(2,240,365)	3.75%	8/12	(56,009)	-	(56,009)
AUGUST	7,497,072	4,691,727	(2,805,344)	3.75%	7/12	(61,367)	-	(61,367)
Total	182,856,559	184,910,009	2,053,450			59,245	142	59,387
INTEREST FROM 5(b1)								302,955
TOTAL INTEREST								362,341

(1) See Schedule 4(b)

(2) See Schedule 5(c)

**CALENDAR YEAR 2016
PHILADELPHIA GAS WORKS
INTEREST ADJUSTMENT CALCULATION**

MONTH	NET COST	C FACTOR	OVER/	INTEREST	TIME	INTEREST	INTEREST	TOTAL
	OF FUEL (1)	% of GCR	(UNDER)	RATE	FACTOR	EXPENSE	NATURAL GAS	INTEREST
	1	REVENUE	RECOVERY	4	5	6 = (3*4*5)	REFUNDS	8 = (6+7)
	2	BILLED (1)	3 = (2 - 1)				7	
	(\$)		(\$)	(\$)		(\$)	(\$)	
JANUARY 2016	26,541,391	25,579,847	(961,544)	2%	14/12	(22,436)	-	(22,436)
FEBRUARY	21,760,564	29,800,729	8,040,165	2%	13/12	174,204	-	174,204
MARCH	13,895,507	21,997,447	8,101,940	2%	12/12	162,039	-	162,039
APRIL	9,593,675	14,088,452	4,494,777	2%	11/12	82,404	-	82,404
MAY	9,541,183	8,920,785	(620,398)	2%	10/12	(10,340)	-	(10,340)
JUNE	5,887,695	5,306,190	(581,505)	2%	9/12	(8,723)	-	(8,723)
JULY	6,215,584	3,677,884	(2,537,700)	2%	8/12	(33,836)	-	(33,836)
AUGUST	6,675,834	3,216,623	(3,459,211)	2%	7/12	(40,357)	-	(40,357)
	100,111,433	112,587,957	12,476,524			302,955	0	302,955

(1) See Schedule 5(a)

**FISCAL YEAR 2017
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 16	0	3.50%	18/12	0
OCTOBER	0	3.50%	17/12	0
NOVEMBER	1,431	3.50%	34/12	142
DECEMBER	0	3.75%	15/12	0
JANUARY 17	0	3.75%	14/12	0
FEBRUARY	0	3.75%	13/12	0
MARCH	0	3.75%	12/12	0
APRIL	0	3.75%	11/12	0
MAY	0	3.75%	10/12	0
JUNE	0	3.75%	9/12	0
JULY	0	3.75%	8/12	0
AUGUST	0	3.75%	7/12	0
TOTAL	1,431			142

(1) See Schedule 5(b)

**FISCAL YEAR 2017
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 16	(2,475,675)	(3,553,889)	1,078,314	3.50%	18/12	(186,584)	56,611	(129,973)	0	(129,973)
OCTOBER	(2,516,787)	(3,171,428)	654,640	3.50%	17/12	(157,250)	32,459	(124,791)	0	(124,791)
NOVEMBER	(2,955,288)	(1,899,708)	(1,055,580)	3.50%	16/12	(88,653)	(49,260)	(137,913)	142	(137,771)
DECEMBER	(3,517,393)	1,985,480	(5,502,852)	3.75%	15/12	93,068	(257,946)	(164,878)	0	(164,878)
JANUARY 17	4,938,015	6,184,072	(1,246,058)	3.75%	14/12	270,553	(54,515)	216,038	0	216,038
FEBRUARY	3,610,460	5,931,462	(2,321,001)	3.75%	13/12	240,966	(94,291)	146,675	0	146,675
MARCH	5,270,340	3,248,586	2,021,754	3.75%	12/12	121,822	75,816	197,638	0	197,638
APRIL	8,371,733	524,633	5,847,100	3.75%	11/12	18,034	200,994	219,028	0	219,028
MAY	171,028	(2,144,497)	2,315,525	3.75%	10/12	(67,016)	72,360	5,345	0	5,345
JUNE	(1,797,274)	(2,980,017)	1,182,744	3.75%	9/12	(83,813)	33,265	(50,548)	0	(50,548)
JULY	(2,240,365)	(3,031,099)	790,734	3.75%	8/12	(75,777)	19,768	(56,009)	0	(56,009)
AUGUST	(2,805,344)	(3,170,452)	365,108	3.75%	7/12	(69,354)	7,987	(61,367)	0	(61,367)
TOTAL FY 2017	2,053,450	(2,076,978)	4,130,428			15,996	43,248	59,245	142	59,387
JANUARY 2016	(961,544)	3,999,064	(4,960,608)	2%	14/12	93,311	(115,748)	(22,436)	0	(22,436)
FEBRUARY	8,040,165	5,913,391	2,126,774	2%	13/12	128,123	46,080	174,204	0	174,204
MARCH	8,101,940	2,388,812	5,713,128	2%	12/12	47,776	114,263	162,039	0	162,039
APRIL	4,494,777	(835,403)	5,330,180	2%	11/12	(15,316)	97,720	82,404	0	82,404
MAY	(620,398)	(2,051,281)	1,430,883	2%	10/12	(34,188)	23,848	(10,340)	0	(10,340)
JUNE	(581,505)	(2,941,164)	2,359,659	2%	9/12	(44,117)	35,395	(8,723)	0	(8,723)
JULY	(2,537,700)	(3,437,793)	900,093	2%	8/12	(45,837)	12,001	(33,836)	0	(33,836)
AUGUST	(3,459,211)	(3,650,472)	191,261	2%	7/12	(42,589)	2,231	(40,357)	0	(40,357)
	12,476,524	(814,846)	13,091,371			87,164	215,791	302,955	0	302,955
Grand Total	14,529,974	(2,691,824)	17,221,798			103,160	259,039	362,199	142	362,341

(1) See Schedule 5(b)

(2) See Schedule 6(e)

(3) See Schedule 5(c)

**FISCAL YEAR 2018
PHILADELPHIA GAS WORKS
LOAD BALANCING REVENUE**

<u>Month</u>		Load Balancing Revenue Billed
		(\$)
September 2017	Estimated	84,289
October	Estimated	84,644
November	Estimated	85,001
December	Estimated	85,200
January 2018	Estimated	85,555
February	Estimated	85,912
March	Estimated	86,311
April	Estimated	86,666
May	Estimated	87,021
June	Estimated	87,376
July	Estimated	87,731
August	Estimated	88,086
Total		1,033,791

CALCULATION OF RECOVERED CHARGES
1307F
September 1, 2017

	<u>50% March</u>	<u>11.5 Months</u>	<u>Total</u>
			(MCF) (\$)
S - Firm Sales (Mcf)	434,524	41,732,033	42,166,557
C-Factor	\$ 5.0056	\$ 4.8736	
Projected Recovery	2,175,051	203,385,238	\$ 205,560,289
S - Firm Sales (Mcf)	434,524	41,732,033	42,166,557
IRC-Factor	\$ (0.0017)	\$ (0.0012)	
Projected Recovery	(739)	(47,992)	\$ (48,731)
E-Factor Volumes (Mcf)	434,524	41,732,033	42,166,557
E-Factor	\$ (0.0609)	\$ (0.0573)	
Projected Recovery	(26,462)	(2,391,246)	\$ (2,417,708)
GCR (\$ / Mcf)	\$ 4.9430	\$ 4.8152	
<hr/>			
GCR Projected Recovery			\$ 203,093,851
Load Balancing Revenue			\$ 1,033,791
LNG Sales Demand Revenue			\$ <u>1,294,700</u>
TOTAL PROJECTED RECOVERY			\$ 205,422,342

**Change In Rates
1307F Filing
Rates Effective September 1, 2017**

Current Rates

	12/01/16 <u>Distribution Charge</u> (1)	12/01/16 <u>GCR</u> (2)	12/01/16 <u>MFC</u> (3)	12/01/16 <u>GPC</u> (4)	12/01/16 Commodity <u>Rate</u> (5)=(1)+(2)+(3)+(4)
Residential GS	\$7.7183	\$4.1577	\$0.1946	\$0.0400	\$12.1106
Commercial GS	\$6.3463	\$4.1577	\$0.0116	\$0.0400	\$10.5556
Industrial GS	\$6.2585	\$4.1577	\$0.0125	\$0.0400	\$10.4687
Phila.Housing Authority (PHA)	\$5.8580	\$4.1577	\$0.0000	\$0.0400	\$10.0557
Municipal (MS)	\$5.0530	\$4.1577	\$0.0000	\$0.0400	\$9.2507
Phila.Housing Authority (GS)	\$6.6557	\$4.1577	\$0.0000	\$0.0400	\$10.8534

September 1, 2017 - Distribution Charge

	Delivery <u>Delivery Charge</u> (6)	Surcharges				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	\$6.0067	\$0.3757	\$0.0304	\$1.2484	\$0.0095	\$1.6640	\$7.6707
Commercial GS	\$4.5984	\$0.3757	\$0.0765	\$1.2484	\$0.0095	\$1.7101	\$6.3085
Industrial GS	\$4.5332	\$0.3757	\$0.0893	\$1.2484	\$0.0095	\$1.7229	\$6.2561
Phila.Housing Authority (PHA)	\$4.1101	\$0.3757	\$0.0765	\$1.2484	\$0.0095	\$1.7101	\$5.8202
Municipal (MS)	\$3.3661	\$0.3757	\$0.0000	\$1.2484	\$0.0095	\$1.6336	\$4.9997
Phila.Housing Authority (GS)	\$4.9441	\$0.3757	\$0.0304	\$1.2484	\$0.0095	\$1.6640	\$6.6081

Proposed Rates

	09/01/17 <u>Distribution Charge</u> (12)	09/01/17 <u>GCR</u> (13)	09/01/17 <u>MFC</u> (14)	09/01/17 <u>GPC</u> (15)	09/01/17 Commodity <u>Rate</u> (16)=(12)+(13)+(14)+(15)	<u>Difference</u> (17)=(16)-(5)
Residential GS	\$7.6707	\$4.8152	\$0.2254	\$0.0400	\$12.7513	\$0.6407
Commercial GS	\$6.3085	\$4.8152	\$0.0135	\$0.0400	\$11.1772	\$0.6216
Industrial GS	\$6.2561	\$4.8152	\$0.0144	\$0.0400	\$11.1257	\$0.6570
Phila.Housing Authority (PHA)	\$5.8202	\$4.8152	\$0.0000	\$0.0400	\$10.6754	\$0.6197
Municipal (MS)	\$4.9997	\$4.8152	\$0.0000	\$0.0400	\$9.8549	\$0.6042
Phila.Housing Authority (GS)	\$6.6081	\$4.8152	\$0.0000	\$0.0400	\$11.4633	\$0.6099

PHILADELPHIA GAS WORKS
SEPTEMBER 1, 2017 - 1307F FILING
UNIVERSAL SERVICE & ENERGY CONSERVATION SURCHARGE

		Expenses in the Surcharge
Enhanced Low Income Retrofit Program (ELIRP)	\$	6,419,407
Customer Responsibility Program (CRP)	\$	48,263,186
Senior Citizen Discount *	\$	2,895,406
<u>August 17 Under Collection</u>	\$	<u>798,938</u>
Total \$ to be Recovered	\$	58,376,937
Total Applicable Volumes	Mcf	46,760,461
Universal Service & Energy Conservation Surcharge	\$	<u><u>1.2484</u></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 \$3,181,592.

**STATEMENT OF RECONCILIATION
UNIVERSAL SERVICES & ENERGY CONSERVATION SURCHARGE
SEPTEMBER 2016 THROUGH August 2017**

Month FY 16 Reconciliation		USC Applicable Volumes	USC Charge	USC Revenue Billed	USC Expenses	Monthly Over/(Under) Recovery	Cumulative Over/(Under) Recovery (\$13,309,033)
September 2016	Actual	1,071,555	\$ 1.5104	\$ 1,618,477	\$ (1,111,484)	\$ 2,729,960	(\$10,579,073)
October	Actual	1,401,688	\$ 1.5160	\$ 2,124,956	\$ (350,380)	\$ 2,475,335	(\$8,103,737)
November	Actual	2,945,088	\$ 1.5160	\$ 4,464,753	\$ 3,840,976	\$ 623,777	(\$7,479,961)
December	Actual	6,044,721	\$ 1.4103	\$ 8,524,567	\$ 9,787,491	\$ (1,262,923)	(\$8,742,884)
January 2017	Estimated	8,769,309	\$ 1.3045	\$ 11,439,563	\$ 11,649,091	\$ (209,528)	(\$8,952,412)
February	Estimated	8,586,057	\$ 1.3045	\$ 11,200,512	\$ 11,491,680	\$ (291,169)	(\$9,243,580)
March	Estimated	6,789,147	\$ 1.3837	\$ 9,393,803	\$ 10,313,768	\$ (919,965)	(\$10,163,546)
April	Estimated	4,364,601	\$ 1.4628	\$ 6,384,539	\$ 6,106,053	\$ 278,486	(\$9,885,059)
May	Estimated	1,971,137	\$ 1.4628	\$ 2,883,379	\$ 1,060,881	\$ 1,822,498	(\$8,062,562)
June	Estimated	1,270,314	\$ 1.4628	\$ 1,858,215	\$ (581,382)	\$ 2,439,597	(\$5,622,965)
July	Estimated	1,199,039	\$ 1.4628	\$ 1,753,955	\$ (686,057)	\$ 2,440,012	(\$3,182,953)
August	Estimated	1,061,788	\$ 1.4628	\$ 1,553,183	\$ (830,832)	\$ 2,384,015	(\$788,938)

USC Expenses	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Totals
ELIRP Expense	\$ 4,070	\$ 3,253	\$ 718,095	\$ 1,262,122	\$ 561,247	\$ 561,247	\$ 561,247	\$ 561,247	\$ 561,247	\$ 561,247	\$ 561,247	\$ 561,247	\$ 6,477,519
ELIRP Labor	\$ 9,245	\$ 6,710	\$ 8,205	\$ 9,915	\$ 7,417	\$ 7,417	\$ 7,417	\$ 7,417	\$ 7,417	\$ 7,417	\$ 7,417	\$ 7,417	\$ 93,410
CRP Discount	\$ (1,982,820)	\$ (1,220,808)	\$ 2,207,684	\$ 7,322,973	\$ 9,713,820	\$ 9,567,534	\$ 8,433,317	\$ 4,388,235	\$ (473,724)	\$ (2,044,844)	\$ (2,136,515)	\$ (2,259,134)	\$31,515,717
CRP Forgiveness	\$ 764,938	\$ 734,013	\$ 625,108	\$ 676,546	\$ 753,270	\$ 760,655	\$ 775,425	\$ 790,195	\$ 804,965	\$ 797,580	\$ 790,195	\$ 775,425	\$ 9,048,315
Senior Citizen Discount	\$ 93,084	\$ 126,452	\$ 281,884	\$ 515,935	\$ 613,337	\$ 594,827	\$ 536,362	\$ 358,958	\$ 160,976	\$ 97,218	\$ 91,599	\$ 84,212	\$ 3,554,844
Bad Debt Expense Offset*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ (1,111,484)	\$ (350,380)	\$ 3,840,976	\$ 9,787,491	\$ 11,649,091	\$ 11,491,680	\$10,313,768	\$ 6,106,053	\$ 1,060,681	\$ (581,382)	\$ (686,057)	\$ (830,832)	\$50,689,805

CRP Participation				
Rate Case Participation Rate	84,000	84,000	84,000	84,000
Actual Participation Rate*	50,045	49,664	49,556	49,321
CRP Under(Over) Participation	33,955	34,336	34,442	34,679
Average Shortfall Per CRP Participant				
CRP Discount	\$ (1,982,820)	\$ (1,220,808)	\$ 2,207,684	\$ 7,322,973
Actual Participation Rate	50,045	49,664	49,556	49,321
Average Shortfall per CRP Participant	\$ (40)	\$ (25)	\$ 45	\$ 148
Shortfall*	\$ -	\$ -	\$ -	\$ -
Bad Debt Expense Offset*	7.1%	\$ -	\$ -	\$ -

*Bad Debt Expense Offset Applicable When Actual CRP Participation Exceeds 84,000

INTERRUPTIBLE REVENUE CREDIT
September 1, 2017

Fiscal Year 2016 Reconciliation (8/31/16) \$ 85,233 Schedule 10(c)

<u>MONTH</u>	<u>IRC</u> <u>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	Estimated \$ (16,114)	\$ 157	
February	Estimated \$ (15,794)	\$ 142	
March	Estimated \$ (11,543)	\$ 157	
April	Estimated \$ (6,832)	\$ 152	
May	Estimated \$ (3,001)	\$ 157	
June	Estimated \$ (1,847)	\$ 152	
July	Estimated \$ (1,737)	\$ 347	
August	Estimated \$ (1,536)	\$ 347	
Act/Est IRC Credit September 2016 to August 2017	\$ (76,754)		
Act/Est Margin September 2016 to August 2017		\$ 35,964	\$ 35,964
FY 2016 Reconciliation Plus Act/Est Margin September 2016 to August 2017			\$ 121,197
<hr/>			
FY 2016 Reconciliation Plus Act/Est Margin September 2016 to August 2017			\$ 121,197
Act/Est IRC Credit September 2016 to August 2017			\$ (76,754)
Reconciliation as of August 31, 2017			\$ 44,443
Margin - September 2017 through August 2018			\$ 4,085 Schedule 10(b)
August 31, 2017 interruptible Revenue Credit			\$ 48,528
<hr/>			
GCR Firm Sales			42,166,557 Schedule 2
<hr/>			
September 1, 2017 IRC/Mcf			\$ 0.0012

INTERRUPTIBLE REVENUE MARGIN
1307F

<u>MONTH</u>		<u>MARGIN</u>
September	Estimated	\$ 336
October	Estimated	\$ 347
November	Estimated	\$ 336
December	Estimated	\$ 347
January-18	Estimated	\$ 347
February	Estimated	\$ 313
March	Estimated	\$ 347
April	Estimated	\$ 336
May	Estimated	\$ 347
June	Estimated	\$ 336
July	Estimated	\$ 347
August	Estimated	\$ 347
Total		\$ <u>4,085</u>

**INTERRUPTIBLE REVENUE CREDIT
FY 2016**

Fiscal Year 2015 Reconciliation (8/31/15) \$ 33,111

<u>MONTH</u>	<u>IRC CREDIT</u>	<u>MARGIN</u>
September-15	Actual \$ (679)	\$ 417
October	Actual \$ (1,073)	\$ 11,721
November	Actual \$ (1,924)	\$ 60,473
December	Actual \$ (3,282)	\$ 3,992
January-16	Actual \$ (5,910)	\$ 4,351
February	Actual \$ (6,888)	\$ 714
March	Actual \$ (9,186)	\$ 774
April	Actual \$ (8,589)	\$ 6,656
May	Actual \$ (5,418)	\$ (419)
June	Actual \$ (2,920)	\$ 1,736
July	Actual \$ (1,815)	\$ (72)
August	Actual \$ (1,628)	\$ 11,090

Actual IRC Credit September 2015 to August 2016	<u>\$ (49,312)</u>	
Actual Margin September 2015 to August 2016		<u>\$ 101,434</u> <u>\$ 101,434</u>

FY 2015 Reconciliation Plus Actual Margin September 2015 to August 2016 \$ 134,545

FY 2015 Reconciliation Plus Actual Margin September 2015 to August 2016	\$ 134,545
Actual IRC Credit September 2015 to August 2016	<u>\$ (49,312)</u>
Reconciliation as of August 31, 2016	<u>\$ 85,233</u>

**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	Estimated	8,821,291	\$0.3724	\$3,285,049
February	Estimated	8,636,415	\$0.3724	\$3,216,201
March	Estimated	6,827,921	\$0.3724	\$2,542,718
April	Estimated	4,388,820	\$0.3724	\$1,634,397
May	Estimated	1,980,423	\$0.3724	\$737,509
June	Estimated	1,274,819	\$0.3724	\$474,743
July	Estimated	1,203,162	\$0.3724	\$448,058
<u>August</u>	Estimated	<u>1,065,394</u>	\$0.3724	<u>\$396,753</u>
Total		45,724,095		\$16,988,874

FY 2017 Act/Est OPEB & FY 2016 Reconciliation	\$14,350,570
FY 2017 Permitted Recovery	<u>\$16,000,000</u>
Over/(Under) Recovery	<u>(\$1,649,430)</u>

FY 2017 Under Recovery	\$1,649,430
FY 2018 Permitted Recovery	<u>\$16,000,000</u>
FY 2018 Recovery	\$17,649,430

FY 2018 Volumes	46,974,330
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FY 2018 OPEB Surcharge / Mcf	\$0.3757
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**OTHER POST EMPLOYMENT BENEFIT (OPEB) SURCHARGE
FISCAL YEAR 2016**

FY 2015 Over/(Under) Recovery \$805,783

<u>Month</u>		<u>OPEB Volumes</u>	<u>OPEB Surcharge</u>	<u>Revenue Billed</u>
September 2015	Actual	1,039,409	\$0.3041	\$316,032
October	Actual	1,539,123	\$0.3003	\$462,199
November	Actual	2,684,958	\$0.3003	\$806,293
December	Actual	4,288,966	\$0.3003	\$1,287,976
January 2016	Actual	7,063,874	\$0.3003	\$2,121,281
February	Actual	8,518,873	\$0.3003	\$2,558,218
March	Actual	6,269,646	\$0.3003	\$1,882,775
April	Actual	4,119,971	\$0.3003	\$1,237,227
May	Actual	2,615,289	\$0.3003	\$785,371
June	Actual	1,562,420	\$0.3003	\$469,195
July	Actual	1,094,573	\$0.3003	\$328,700
August	Actual	<u>1,001,149</u>	\$0.3003	<u>\$300,645</u>
Total		41,798,251		\$12,555,913

FY 2016 Actual OPEB & FY 2015 Reconciliation	\$13,361,696
FY 2016 Permitted Recovery	<u>\$16,000,000</u>
Over/(Under) Recovery	<u>(\$2,638,304)</u>

EFFICIENCY COST RECOVERY (ECR) SURCHARGE
1307F - 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	\$746,329	\$86,574	\$726	\$833,628
Labor Expense	\$22,937	\$2,661	\$22	\$25,620
Commercial & Industrial Retrofit Incentive (CIRI)				
Program Expense	\$159,485	\$287,879	\$0	\$447,364
Labor Expense	\$4,498	\$8,120	\$0	\$12,618
Commercial & Industrial Equipment Rebate (CIER)				
Program Expense	\$10,356	\$346,241	\$81,160	\$437,756
Labor Expense	\$256	\$8,572	\$2,009	\$10,838
High-Efficiency Construction Incentive (HECI)				
Program Expense	\$116,131	\$141,487	\$0	\$257,619
Labor Expense	\$2,775	\$3,381	\$0	\$6,156
Comprehensive Residential Retrofit Incentive (CRR)				
Program Expense	\$49,140	\$860	\$0	\$50,000
Labor Expense	\$0	\$0	\$0	\$0
Total Expense	\$1,111,907	\$885,774	\$83,917	\$2,081,599
Prior Period Reconciliation (2/28/17)	\$ (69,385)	\$ (53,499)	\$ (13,519)	\$ (136,403)
Total	\$1,042,522	\$832,275	\$70,398	\$1,945,196
Volumes - Mcf (GCR Firm & Firm Transportation)	34,296,424	10,881,643	788,433	

Efficiency Cost Recovery Surcharge / Mcf	\$0.0304	\$0.0765	\$0.0893
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**EFFICIENCY COST RECOVERY (ECR) SURCHARGE
STATEMENT OF RECONCILIATION
1307F - FISCAL YEAR 2017**

		Actual Sep-16	Actual Oct-16	Actual Nov-16	Actual Dec-16	Estimated Jan-17	Estimated Feb-17	Estimated Mar-17	Estimated Apr-17	Estimated May-17	Estimated Jun-17	Estimated Jul-17	Estimated Aug-17
RESIDENTIAL & PHA.GS													
FY 2016 Over-Collection	\$ 470,139												
Volume Billed		690,375	883,073	2,034,747	4,485,964	6,698,618	6,577,426	5,191,843	3,348,103	1,418,198	818,185	764,515	675,402
ECR Surcharge		\$ 0.0157	\$ 0.0195	\$ 0.0195	\$ 0.0221	\$ 0.0247	\$ 0.0247	\$ 0.0235	\$ 0.0222	\$ 0.0222	\$ 0.0222	\$ 0.0222	\$ 0.0222
Revenue Billed		\$ 10,839	\$ 17,220	\$ 39,678	\$ 99,140	\$ 165,456	\$ 162,462	\$ 121,749	\$ 74,328	\$ 31,484	\$ 18,164	\$ 16,972	\$ 14,994
RHER	Expense	\$ 3,209	\$ 3,085	\$ 40,562	\$ 38,157	\$ 86,082	\$ 86,082	\$ 86,082	\$ 86,082	\$ 86,082	\$ 86,082	\$ 86,082	\$ 86,082
RHER	Labor	\$ 1,095	\$ 795	\$ 1,289	\$ 1,176	\$ 841	\$ 841	\$ 841	\$ 841	\$ 841	\$ 841	\$ 841	\$ 841
HECI	Expense	\$ 58	\$ 47	\$ 762	\$ 1,632	\$ 10,961	\$ 10,961	\$ 10,961	\$ 10,961	\$ 10,961	\$ 10,961	\$ 10,961	\$ 10,961
HECI	Labor	\$ 133	\$ 97	\$ 117	\$ 143	\$ 107	\$ 107	\$ 107	\$ 107	\$ 107	\$ 107	\$ 107	\$ 107
CRR1	Expense	\$ 93	\$ 1,870	\$ 14,029	\$ 80,151	\$ 9,802	\$ 9,802	\$ 9,802	\$ 9,802	\$ 9,802	\$ 9,802	\$ 9,802	\$ 9,802
CRR1	Labor	\$ 211	\$ 153	\$ 196	\$ 227	\$ 168	\$ 168	\$ 168	\$ 168	\$ 168	\$ 168	\$ 168	\$ 168
CIRI	Expense	\$ 76	\$ 61	\$ 285	\$ 111	\$ 14,046	\$ 14,046	\$ 14,046	\$ 14,046	\$ 14,046	\$ 14,046	\$ 14,046	\$ 14,046
CIRI	Labor	\$ 174	\$ 126	\$ 155	\$ 186	\$ 139	\$ 139	\$ 139	\$ 139	\$ 139	\$ 139	\$ 139	\$ 139
CIER	Expense	\$ 4	\$ 3	\$ (7)	\$ 412	\$ 641	\$ 641	\$ 641	\$ 641	\$ 641	\$ 641	\$ 641	\$ 641
CIER	Labor	\$ 8	\$ 6	\$ (14)	\$ 9	\$ 9	\$ 9	\$ 9	\$ 9	\$ 9	\$ 9	\$ 9	\$ 9
Total		\$ 5,062	\$ 6,243	\$ 57,374	\$ 122,203	\$ 122,795	\$ 122,795	\$ 122,795	\$ 122,795	\$ 122,795	\$ 122,795	\$ 122,795	\$ 122,795
Monthly Over/(Under)		\$ 5,777	\$ 10,977	\$ (17,696)	\$ (23,063)	\$ 42,661	\$ 39,668	\$ (1,046)	\$ (48,467)	\$ (91,311)	\$ (104,631)	\$ (105,822)	\$ (107,801)
Cumulative Over/(Under)		\$ 475,916	\$ 486,892	\$ 469,196	\$ 446,133	\$ 488,794	\$ 528,462	\$ 527,416	\$ 478,949	\$ 387,639	\$ 283,008	\$ 177,186	\$ 69,385
COMMERCIAL & PHA													
FY 2016 Over-Collection	\$ 160,448												
Volume Billed		342,337	464,675	809,222	1,351,756	1,790,913	1,737,277	1,393,977	890,730	493,401	405,150	388,973	345,882
ECR Surcharge		\$ 0.0493	\$ 0.0510	\$ 0.0510	\$ 0.0560	\$ 0.0610	\$ 0.0610	\$ 0.0590	\$ 0.0570	\$ 0.0570	\$ 0.0570	\$ 0.0570	\$ 0.0570
Revenue Billed		\$ 16,877	\$ 23,698	\$ 41,270	\$ 75,698	\$ 109,246	\$ 105,974	\$ 82,245	\$ 50,772	\$ 28,124	\$ 23,094	\$ 22,171	\$ 19,715
RHER	Expense	\$ 354	\$ 340	\$ (694)	\$ 4,138	\$ 9,971	\$ 9,971	\$ 9,971	\$ 9,971	\$ 9,971	\$ 9,971	\$ 9,971	\$ 9,971
RHER	Labor	\$ 121	\$ 88	\$ (208)	\$ 128	\$ 134	\$ 134	\$ 134	\$ 134	\$ 134	\$ 134	\$ 134	\$ 134
CRR1	Expense	\$ 2	\$ 35	\$ (36)	\$ 1,480	\$ 218	\$ 218	\$ 218	\$ 218	\$ 218	\$ 218	\$ 218	\$ 218
CRR1	Labor	\$ 4	\$ 3	\$ (7)	\$ 4	\$ 4	\$ 4	\$ 4	\$ 4	\$ 4	\$ 4	\$ 4	\$ 4
CIRI	Expense	\$ 138	\$ 110	\$ 514	\$ 200	\$ 25,353	\$ 25,353	\$ 25,353	\$ 25,353	\$ 25,353	\$ 25,353	\$ 25,353	\$ 25,353
CIRI	Labor	\$ 313	\$ 227	\$ 279	\$ 336	\$ 251	\$ 251	\$ 251	\$ 251	\$ 251	\$ 251	\$ 251	\$ 251
CIER	Expense	\$ 193	\$ 154	\$ 3,753	\$ 21,874	\$ 33,488	\$ 33,488	\$ 33,488	\$ 33,488	\$ 33,488	\$ 33,488	\$ 33,488	\$ 33,488
CIER	Labor	\$ 439	\$ 319	\$ (432)	\$ 464	\$ 448	\$ 448	\$ 448	\$ 448	\$ 448	\$ 448	\$ 448	\$ 448
HECI	Expense	\$ 72	\$ 57	\$ 941	\$ 2,001	\$ 13,442	\$ 13,442	\$ 13,442	\$ 13,442	\$ 13,442	\$ 13,442	\$ 13,442	\$ 13,442
HECI	Labor	\$ 163	\$ 119	\$ 146	\$ 175	\$ 131	\$ 131	\$ 131	\$ 131	\$ 131	\$ 131	\$ 131	\$ 131
Total		\$ 1,799	\$ 1,452	\$ 4,257	\$ 30,800	\$ 83,441	\$ 83,441	\$ 83,441	\$ 83,441	\$ 83,441	\$ 83,441	\$ 83,441	\$ 83,441
Monthly Over/(Under)		\$ 15,078	\$ 22,247	\$ 37,013	\$ 44,898	\$ 25,805	\$ 22,533	\$ (1,196)	\$ (32,669)	\$ (55,317)	\$ (60,347)	\$ (61,269)	\$ (63,725)
Cumulative Over/(Under)		\$ 175,526	\$ 197,772	\$ 234,786	\$ 279,684	\$ 305,489	\$ 328,022	\$ 326,826	\$ 294,157	\$ 238,841	\$ 178,494	\$ 117,224	\$ 53,499
INDUSTRIAL													
FY 2016 Over-Collection	\$ 15,015												
Volume Billed		25,814	37,863	60,548	104,737	125,563	120,898	97,315	61,423	37,590	33,757	32,507	28,865
ECR Surcharge		\$ 0.1224	\$ 0.1212	\$ 0.1212	\$ 0.0798	\$ 0.0384	\$ 0.0384	\$ 0.0470	\$ 0.0556	\$ 0.0556	\$ 0.0556	\$ 0.0556	\$ 0.0556
Revenue Billed		\$ 3,160	\$ 4,589	\$ 7,338	\$ 8,358	\$ 4,822	\$ 4,642	\$ 4,574	\$ 3,415	\$ 2,090	\$ 1,877	\$ 1,807	\$ 1,605
RHER	Expense	\$ 3	\$ 3	\$ (5)	\$ 31	\$ 74	\$ 74	\$ 74	\$ 74	\$ 74	\$ 74	\$ 74	\$ 74
RHER	Labor	\$ 1	\$ 1	\$ (2)	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1
CIRI	Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CIRI	Labor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CIER	Expense	\$ 29	\$ 23	\$ 12,689	\$ 3,604	\$ 4,010	\$ 4,010	\$ 4,010	\$ 4,010	\$ 4,010	\$ 4,010	\$ 4,010	\$ 4,010
CIER	Labor	\$ 85	\$ 47	\$ 901	\$ 76	\$ (46)	\$ (46)	\$ (46)	\$ (46)	\$ (46)	\$ (46)	\$ (46)	\$ (46)
Total		\$ 97	\$ 73	\$ 13,584	\$ 3,712	\$ 4,038	\$ 4,038	\$ 4,038	\$ 4,038	\$ 4,038	\$ 4,038	\$ 4,038	\$ 4,038
Monthly Over/(Under)		\$ 3,063	\$ 4,516	\$ (6,245)	\$ 4,646	\$ 783	\$ 604	\$ 535	\$ (623)	\$ (1,948)	\$ (2,161)	\$ (2,231)	\$ (2,433)
Cumulative Over/(Under)		\$ 18,077	\$ 22,593	\$ 16,348	\$ 20,994	\$ 21,777	\$ 22,381	\$ 22,916	\$ 22,293	\$ 20,345	\$ 18,183	\$ 15,952	\$ 13,519

**PHILADELPHIA GAS WORKS
LOAD BALANCING CHARGE RECONCILIATION
CALENDAR YEAR 2016**

		<u>2016</u>
Actual Storage and Peaking Cost		\$ 14,549,052
Prior Year Carryover		\$ <u>35,111</u>
		\$ 14,584,164
<hr/>		
Design Day Requirements	Annual Mcf	652,781
Fulfilled from FT Capacity	Annual Mcf	<u>296,427</u>
Fulfilled from Storage and Peaking Assets	Annual Mcf	356,354
<hr/>		
Annual Load Balancing Cost per Excess Mcf	Annual \$ / Mcf	\$ 40.9261
BTU Conversion		1.037
	Annual \$ / Dth	\$ <u>39.4659</u>
Monthly Charge /Dth		\$ 3.2888
<hr/>		
Over/(Under) Recovery		\$ (56,749)
Interest		\$ <u>(5,091)</u>
Carryover		\$ (61,841)

LOAD BALANCING CHARGE

2016 EXPENSE

	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Total
Trancco	\$ 506,191	\$ 458,923	\$ 482,053	\$ 393,392	\$ 396,785	\$ 392,202	\$ 407,799	\$ 357,957	\$ 418,650	\$ 404,537	\$ 349,649	\$ 376,871	\$ 4,945,010
Tetco	\$ 658,420	\$ 635,553	\$ 623,328	\$ 621,288	\$ 606,250	\$ 601,460	\$ 613,998	\$ 615,028	\$ 618,026	\$ 616,312	\$ 636,027	\$ 626,404	\$ 7,472,094
Dominion	\$ 136,590	\$ 131,038	\$ 129,636	\$ 126,309	\$ 125,111	\$ 126,109	\$ 131,892	\$ 131,892	\$ 131,264	\$ 129,631	\$ 126,480	\$ 120,435	\$ 136,078
WSS & EMM Trans	\$ 19,918	\$ 7,403	\$ 2,284	\$ 2,806	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 674	\$ 1,594	\$ 4,369	\$ 39,049
Purchased Electric	\$ 76,561	\$ 77,980	\$ 64,217	\$ 47,777	\$ 40,158	\$ 10,551	\$ 54,145	\$ 27,389	\$ 29,367	\$ 33,163	\$ 33,882	\$ 51,323	\$ 546,513
State Tax	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,879
Total	\$ 1,397,680	\$ 1,310,897	\$ 1,301,518	\$ 1,191,572	\$ 1,168,303	\$ 1,130,322	\$ 1,207,834	\$ 1,132,266	\$ 1,197,307	\$ 1,184,318	\$ 1,147,633	\$ 1,179,402	\$ 14,549,052

2016 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-16	29,560	3.2888	97,216	95,271	(1,945)	26/12	6.00%	(253)
Feb-16	29,139	3.2888	95,831	93,915	(1,917)	25/12	6.00%	(240)
Mar-16	29,162	3.2888	95,909	89,738	(6,171)	24/12	6.00%	(740)
Apr-16	29,291	3.2888	96,332	90,134	(6,198)	23/12	6.00%	(713)
May-16	29,185	3.2888	95,983	89,807	(6,175)	22/12	6.00%	(679)
Jun-16	29,182	3.2888	95,975	90,851	(5,124)	21/12	6.00%	(538)
Jul-16	29,384	3.2888	96,637	91,477	(5,160)	20/12	6.00%	(516)
Aug-16	29,299	3.2888	96,359	91,214	(5,145)	19/12	6.00%	(489)
Sep-16	29,152	3.2888	95,874	91,362	(4,513)	18/12	3.50%	(237)
Oct-16	29,292	3.2888	96,334	91,800	(4,534)	17/12	3.50%	(225)
Nov-16	26,588	3.2888	87,442	83,326	(4,116)	16/12	3.50%	(192)
Dec-16	24,814	3.2888	81,609	75,857	(5,752)	15/12	3.75%	(270)
Total	344,047		1,131,500	1,074,751	(56,749)			(5,091)

**PHILADELPHIA GAS WORKS
LOAD BALANCING CHARGE
SEPTEMBER 1, 2017**

Storage and Peaking Asset Cost \$ **13,451,552**

Design Day Requirements (Mcf) **652,781**
Fulfilled from FT Capacity (Mcf) **296,427**
Fulfilled from Storage and Peaking Assets (Excess Mcf) **356,354**

Annual Storage and Peaking Cost per Excess Mcf \$ **37.7477**
Per Mcf Over / (Under) Adjustment \$ **(0.1636)**
Load Balancing Charge \$ **37.9113**

Over / (Under) Recovery	\$	(56,749)
Interest	\$	<u>(5,091)</u>
Total Over/(Under) Recovery	\$	(61,841)
Forecasted SSPC Volumes		378,056
Per Mcf Over / (Under) Adjustment	\$	(0.1636)

Natural Gas Prices March 1, 2017 1307f GCR Filing

Basis Differentials

Prices Used For Gas Cost Inputs

	NYMEX	Basis Differentials											Prices Used For Gas Cost Inputs										
		TRANSCO				TETCO							TRANSCO				TETCO						
		Futures																					
1/13/17									Average														
Close	Sta 30	Sta 45	Sta 65	Sta. 85	ELA	WLA	ETX	STX	ELA/ETX	M-1	M-2	Sta 30	Sta 45	Sta 65	Sta 85	ELA	WLA	ETX	STX	ELA/ETX	M-1	M-2	
Jan-17												3.49	3.44	3.56	3.56	3.36	3.34	3.28	3.29	3.32	3.32	2.94	
Feb-17	3.419	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.48)	3.31	3.28	3.40	3.41	3.34	3.32	3.26	3.27	3.30	3.30	2.92
Mar-17	3.396	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.48)	3.29	3.26	3.38	3.39	3.32	3.30	3.24	3.25	3.28	3.28	2.90
Apr-17	3.384	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.48)	3.27	3.24	3.36	3.37	3.32	3.30	3.24	3.25	3.28	3.28	2.90
May-17	3.381	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.48)	3.27	3.24	3.36	3.37	3.36	3.34	3.28	3.29	3.32	3.32	2.94
Jun-17	3.423	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.48)	3.31	3.28	3.40	3.41	3.40	3.38	3.32	3.33	3.36	3.36	2.98
Jul-17	3.463	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.48)	3.35	3.32	3.44	3.45	3.41	3.39	3.33	3.34	3.37	3.37	2.99
Aug-17	3.465	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.48)	3.36	3.33	3.45	3.46	3.39	3.37	3.31	3.32	3.35	3.35	3.13
Sep-17	3.448	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	3.34	3.31	3.43	3.44	3.40	3.38	3.32	3.33	3.36	3.36	3.14
Oct-17	3.462	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	3.35	3.32	3.44	3.45	3.45	3.43	3.37	3.38	3.41	3.41	3.19
Nov-17	3.506	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	3.40	3.37	3.49	3.50	3.56	3.54	3.48	3.49	3.52	3.52	3.30
Dec-17	3.620	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	3.51	3.48	3.60	3.61	3.65	3.63	3.57	3.58	3.61	3.61	3.39
Jan-18	3.705	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	3.60	3.57	3.69	3.70	3.60	3.58	3.52	3.53	3.56	3.56	3.34
Feb-18	3.662	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	3.55	3.52	3.64	3.65	3.51	3.49	3.43	3.44	3.47	3.47	3.25
Mar-18	3.573	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	3.46	3.43	3.55	3.56	2.91	2.89	2.83	2.84	2.87	2.87	2.65
Apr-18	2.972	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	2.86	2.83	2.95	2.96	2.84	2.82	2.76	2.77	2.80	2.80	2.58
May-18	2.902	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	2.79	2.76	2.88	2.89	2.86	2.84	2.78	2.79	2.82	2.82	2.60
Jun-18	2.921	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	2.81	2.78	2.90	2.91	2.88	2.86	2.80	2.81	2.84	2.84	2.62
Jul-18	2.941	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	2.83	2.80	2.92	2.93	2.87	2.85	2.79	2.80	2.83	2.83	2.61
Aug-18	2.933	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.32)	2.82	2.79	2.91	2.92	2.65	2.63	2.57	2.58	2.61	2.61	2.23

Philadelphia Gas Works Calculation of UFG and Retainage Percentages Twelve Months Ending August 31, 2016		
	UFG	RETAINAGE
	Total Distribution System (MCF)	Firm Sales Sales Only (MCF)
A. Gas Received For Delivery To Customers		
From Interstate Pipelines directly into the Distribution System	67,959,953	67,959,953
Less gas delivered for Interruptible Customers sendout		<u>24,523,421</u>
From Interstate Pipelines directly into the Distribution System for Firm Customers Only		<u>43,436,532</u>
B. Gas Delivered		
To Customers	65,979,032	
To Customers - Delivered to Firm Customers Only		<u>41,807,187</u>
C. Adjustment		
Adjustment for PUC UFG Report and Retainage - Company use	233,115	233,115
Adjustment for PUC UFG Report Only - Maintenance and Construction - Gate station bleeds - Correction for 6" w.c. - Third party damage	515.01 7,743 546,104 <u>-</u>	 <u>-</u>
Total Adjustments	787,477	233,115
D. Distribution UFG and Retainage Rate		
Total Distribution System Unaccounted for Gas	1,193,444	
Unaccounted For and Accounted For Volumes Applicable to Retainage % Calculation		<u>1,396,230</u>
E. Percent UFG and Retainage		
UFG Percentage	1.76%	
Retainage Percentage		3.2%

**Philadelphia Gas Works
Restructuring & Consumer Education Surcharge
Fiscal Year 2018**

FY 16 Over/(Under) Recovery **(\$259,274)** Schedule 17(b)

<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	Estimated	8,821,291	\$0.0010	\$8,821
February	Estimated	8,636,415	\$0.0010	\$8,636
March	Estimated	6,827,921	\$0.0010	\$6,828
April	Estimated	4,388,820	\$0.0010	\$4,389
May	Estimated	1,980,423	\$0.0010	\$1,980
June	Estimated	1,274,819	\$0.0010	\$1,275
July	Estimated	1,203,162	\$0.0010	\$1,203
<u>August</u>	Estimated	<u>1,065,394</u>	<u>\$0.0010</u>	<u>\$1,065</u>
Total		45,724,095		\$48,467

FY 2017 Est R&CE Recovery	<u>(\$210,806)</u>	
FY 2017 R&CE Expense	<u>\$222,855</u>	Schedule 17(c)
FY 2017 Over/(Under) Recovery	<u>(\$433,661)</u>	

FY 2017 Under Recovery	\$433,661	
FY 2018 R&CE Expense	<u>\$12,500</u>	Schedule 17(c)
FY 2018 Recovery Amount	\$446,161	

FY 2018 R&CE Volumes	46,974,330
---------------------------------	-------------------

FY 2018 R&CE Surcharge / Mcf	\$0.0095
-----------------------------------------	-----------------

**Philadelphia Gas Works
Restructuring & Consumer Education Surcharge
Fiscal Year 2017**

FY 14 & FY 15 Over/(Under) Recovery (\$116,080)

<u>Month</u>		<u>R&CE Volumes</u>	<u>R&CE Surcharge</u>	<u>Revenue Billed</u>
September 2015	Actual	519,705	\$0.0061	\$3,170
October	Actual	1,539,123	\$0.0061	\$9,389
November	Actual	2,684,958	\$0.0061	\$16,378
December	Actual	4,288,966	\$0.0061	\$26,163
January 2016	Actual	7,063,874	\$0.0061	\$43,090
February	Actual	8,518,873	\$0.0061	\$51,965
March	Actual	6,269,646	\$0.0061	\$38,245
April	Actual	4,119,971	\$0.0061	\$25,132
May	Actual	2,615,289	\$0.0061	\$15,953
June	Actual	1,562,420	\$0.0061	\$9,531
July	Actual	1,094,573	\$0.0061	\$6,677
<u>August</u>	Actual	<u>1,001,149</u>	\$0.0061	<u>\$6,107</u>
Total		41,278,547		\$251,799

FY 2016 Actual R&CE & FY 2014-15 Recovery	\$135,719
FY 2016 R&CE Expense	<u>\$395,343</u>
FY 2016 Over/(Under) Recovery	(\$259,624)

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

Fiscal Year Month	FY 2017												FY18	
	Sep-16 Actual	Oct-16 Actual	Nov-16 Actual	Dec-16 Actual	Jan-17 Est	Feb-17 Est	Mar-17 Est	Apr-17 Est	May-17 Est	Jun-17 Est	Jul-17 Est	Aug-17 Est	FY 2017 Total	FY18 Est
Capital														
POR Build (90%)	\$ 2,430	\$ 9,982	\$ 1,606	\$ 2,594	\$ 18,280	\$ 18,280	\$ 18,280	\$ 18,280	\$ 18,280	\$ 18,280	\$ 18,280	\$ 18,280	\$ 162,855	
Access. Mech. (100%)	\$ -	\$ -	\$ -	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,000	
Operating														
Mailers (50%)														
Access Mech. (100%)														\$ 12,500
Totals	\$ 2,430	\$ 9,982	\$ 1,606	\$ 2,594	\$ 78,280	\$ 18,280	\$ 18,280	\$ 18,280	\$ 18,280	\$ 18,280	\$ 18,280	\$ 18,280	\$ 222,855	\$ 12,500

Tab 3

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PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

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, 2016 to December 31, 2016. 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, 2016 through December 31, 2016. This schedule reflects finalized numbers through the month of December.

Schedule 3 - Twenty (20) month forecast for the period January 1, 2017 through August 31, 2018.

Schedule 4 – Twenty (20) month forecast of capacity release credits by pipeline by month for the period January 1, 2017 through August 31, 2018.

Philadelphia Gas Works
Summary Of Total Purchased

	Jan-16	Feb-16	Mar-16	Apr-16	May-16	JUNE-16	JULY-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Williams	\$ 2,815,441	\$ 2,808,478	\$ 2,612,511	\$ 2,564,356	\$ 2,585,192	\$ 2,445,550	\$ 2,499,407	\$ 2,445,498	\$ 2,488,578	\$ 2,617,345	\$ 2,588,783	\$ 2,775,722
Texas Eastern	\$ 2,355,438	\$ 2,385,532	\$ 2,275,578	\$ 2,130,914	\$ 2,008,507	\$ 2,000,851	\$ 1,994,832	\$ 1,998,955	\$ 2,070,842	\$ 2,002,927	\$ 2,699,951	\$ 2,467,953
Dominion	\$ 136,590	\$ 131,038	\$ 129,636	\$ 126,309	\$ 125,111	\$ 126,109	\$ 131,892	\$ 131,892	\$ 131,264	\$ 129,631	\$ 126,480	\$ 138,078
Spot Purchases -Transco	\$ 59,081	\$ 11,508	\$ 19,451	\$ 16,689	\$ 14,577	\$ 14,174	\$ 13,652	\$ 2,451	\$ -	\$ -	\$ -	\$ -
Spot Purchases -Transco	\$ -	\$ 2,609	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Spot Purchases -Tetco	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply2	\$ 921,525	\$ 870,425	\$ 147,225	\$ 299,002	\$ 681,823	\$ 679,271	\$ 4,650	\$ 4,650	\$ 4,500	\$ 281,924	\$ -	\$ -
Transco Supply3	\$ -	\$ -	\$ -	\$ 182,250	\$ 200,725	\$ 218,250	\$ 338,675	\$ 279,775	\$ 206,250	\$ 160,425	\$ -	\$ -
Transco Supply6	\$ 752,525	\$ 689,838	\$ 737,413	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 409,125	\$ 495,613
Transco Supply7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply8	\$ 1,719,250	\$ 1,314,500	\$ 661,075	\$ 98,250	\$ 267,310	\$ 4,500	\$ 4,650	\$ 4,650	\$ 4,500	\$ 273,954	\$ 1,175,086	\$ 2,646,810
Transco Supply10	\$ 875,750	\$ 609,000	\$ 545,600	\$ 280,500	\$ 299,375	\$ 282,750	\$ 440,975	\$ 427,025	\$ 413,250	\$ 304,175	\$ 879,000	\$ 858,700
Transco Supply12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply14	\$ -	\$ -	\$ -	\$ 187,950	\$ 208,475	\$ 196,950	\$ 351,385	\$ 313,410	\$ 330,450	\$ 356,810	\$ 405,600	\$ 2,098,460
Transco Supply17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply22	\$ 1,209,275	\$ 1,052,013	\$ 490,841	\$ 209,975	\$ 119,175	\$ 4,500	\$ 296,256	\$ 236,711	\$ 273,308	\$ 974,239	\$ 672,311	\$ 2,674,175
Transco Supply23	\$ 900,700	\$ 948,650	\$ 818,450	\$ 279,000	\$ 299,150	\$ 288,500	\$ 443,300	\$ 402,499	\$ 388,200	\$ 401,140	\$ 409,125	\$ 495,155
Transco Supply24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 858,000	\$ 992,000
Transco Supply28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply29	\$ -	\$ -	\$ -	\$ 195,765	\$ 203,710	\$ 198,450	\$ 352,935	\$ 314,960	\$ 331,950	\$ 358,360	\$ 823,200	\$ 995,720
Transco Supply30	\$ 415,788	\$ 368,963	\$ 415,788	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 408,000	\$ 496,000
Transco Supply31	\$ 416,175	\$ 389,325	\$ 416,175	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply32	\$ -	\$ 37,600	\$ -	\$ 182,250	\$ 200,725	\$ 218,250	\$ 338,675	\$ 279,775	\$ 200,250	\$ 160,425	\$ -	\$ -
Tetco Supply1	\$ -	\$ -	\$ -	\$ 172,500	\$ 172,800	\$ 201,000	\$ 303,800	\$ 193,750	\$ 168,200	\$ 128,650	\$ -	\$ -
Tetco Supply2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,500	\$ 488,250
Tetco Supply4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply6	\$ 1,112,020	\$ 569,160	\$ 310,310	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply16	\$ 373,302	\$ 355,975	\$ 387,748	\$ 446,625	\$ 466,913	\$ 478,125	\$ 745,163	\$ 594,813	\$ 583,325	\$ 537,075	\$ 327,750	\$ 744,775
Tetco Supply17	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
Tetco Supply18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply19	\$ 418,950	\$ 390,050	\$ 418,950	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 428,000	\$ 484,375
Tetco Supply20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply24	\$ 1,609,700	\$ 1,541,100	\$ 736,000	\$ 278,626	\$ 365,695	\$ 201,000	\$ 623,605	\$ 563,146	\$ 557,107	\$ 438,947	\$ 941,660	\$ 2,017,560
Tetco Supply25	\$ 258,385	\$ 215,180	\$ 155,930	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply26	\$ 896,125	\$ 849,849	\$ 408,100	\$ 401,488	\$ 469,650	\$ 414,933	\$ 700,577	\$ 579,350	\$ 476,650	\$ 401,000	\$ 1,352,225	\$ 2,732,988
Tetco Supply27	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
Tetco Supply28	\$ 196,075	\$ 197,925	\$ 148,025	\$ 172,500	\$ 172,800	\$ 200,780	\$ 303,800	\$ 193,750	\$ 174,000	\$ 128,650	\$ 330,000	\$ 747,100
Tetco Supply29	\$ 334,413	\$ 312,838	\$ 334,413	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply30	\$ -	\$ -	\$ -	\$ 173,610	\$ 199,547	\$ 202,110	\$ 304,947	\$ 194,897	\$ 175,110	\$ 129,797	\$ 405,000	\$ 398,350
Tetco Supply31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL COSTS	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
Storage Injection	(\$228,319)	(\$232,570)	(\$668,366)	(\$371,503)	(\$1,231,938)	(2,483,674)	(\$4,105,963)	(3,796,622)	(2,910,409)	(\$1,780,727)	(\$1,419,464)	(\$278,847)
Storage Withdrawal	\$8,854,957	\$5,814,075	\$3,055,118	\$2,758,377	\$316,467	\$1,777	\$0	\$0	\$0	\$394,957	\$1,747,969	\$4,461,692

Philadelphia Gas Works
Volumes Purchased

Volume	Jan-16	Feb-16	Mar-16	Apr-16	May-16	JUNE-16	JULY-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Spot Purchases -Transco	22,767	5,962	20,446	11,051	9,648	7,886	10,251	1,407				
Spot Dem-Transco												
Spot Purchases -Tetco												
Spot for Resale												
Firm Contracts												
Transco Supply2 - Dem Commodity	465,000	435,000	465,000	450,000	465,000	450,000	485,000	485,000	450,000	465,000		
Transco Supply3 - Dem Commodity	405,000	330,000	90,000	180,468	366,170	285,064	-		145,000	105,000		
Transco Supply6 - Dem Commodity				150,000	155,000	150,000	155,000	155,000	150,000	155,000		
Transco Supply8 - Dem Commodity	310,000	290,000	310,000	-	-	-	-			150,000	300,000	310,000
Transco Supply8 - Dem Commodity	465,000	435,000	465,000	450,000	465,000	450,000	465,000	465,000	450,000	465,000	600,000	620,000
Transco Supply10 - Dem Commodity	775,000	635,000	310,000	50,000	140,818	-	-			95,819	620,234	765,000
Transco Supply14 - Dem Commodity	310,000	290,000	310,000	150,000	155,000	150,000	155,000	155,000	150,000	115,000	300,000	310,000
Transco Supply22 - Dem Commodity				150,000	155,000	150,000	155,000	155,000	150,000	155,000	150,000	610,000
Transco Supply22 - Dem Commodity	620,000	580,000	620,000	450,000	465,000	450,000	465,000	465,000	450,000	465,000	750,000	775,000
Transco Supply23 - Dem Commodity	545,000	520,000	252,151	110,000	114,525	-	105,405	232,061	92,100	337,543	260,234	760,000
Transco Supply25 - Dem Commodity	430,000	470,000	310,000	150,000	155,000	150,000	155,000	154,214	150,000	155,000	150,000	154,857
Transco Supply26 - Dem Commodity											300,000	310,000
Transco Supply28 - Dem Commodity											650,000	
Transco Supply29 - Dem Commodity											300,000	
Transco Supply30 - Dem Commodity				155,000	155,000	150,000	155,000	155,000	150,000	155,000	300,000	310,000
Transco Supply31 - Dem Commodity	155,000	145,000	155,000	-							150,000	155,000
Transco Supply32 - Dem Commodity		145,000	155,000	-								
Tetco Supply1 - Dem Commodity		20,000	-	150,000	155,000	150,000	155,000	155,000	150,000	155,000		
Tetco Supply3 - Dem Commodity				150,000	135,000	150,000	155,000	155,000	145,000	155,000		
Tetco Supply5 - Dem Commodity											150,000	155,000
Tetco Supply5 - Dem Commodity	580,000	360,000	310,000	-								240,000
Tetco Supply16 - Dem Commodity	152,058	145,000	157,942	300,000	280,000	300,000	310,000	310,000	295,000	310,000	300,000	310,000
Tetco Supply19 - Dem Commodity	155,000	145,000	155,000								150,000	155,000
Tetco Supply24 - Dem Commodity	620,000	580,000	620,000	-							150,000	310,000
Tetco Supply25 - Dem Commodity	1,160,000	1,160,000	760,000	220,460	280,102	150,000	388,402	448,632	525,702	499,648	600,000	775,000
Tetco Supply25 - Dem Commodity	155,000	145,000	155,000	-								
Tetco Supply26 - Dem Commodity	485,000	488,784	255,000	310,480	355,000	283,656	445,685	465,000	450,000	465,000	650,000	915,000
Tetco Supply28 - Dem Commodity	155,000	145,000	155,000	150,000	135,000	149,836	155,000	155,000	150,000	155,000	300,000	310,000
Tetco Supply29 - Dem Commodity	155,000	145,000	155,000	-								
Tetco Supply30 - Dem Commodity				150,000	155,000	150,000	155,000	155,000	150,000	155,000		
Tetco Supply31 - Dem Commodity											150,000	155,000

Philadelphia Gas Works
Cost Of Fuels Purchased

Rate - \$	Jan-16	Feb-16	Mar-16	Apr-16	May-16	JUNE-16	JULY-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Spot Purchases -Transco	\$ 2.5950	\$ 1.9302	\$ 0.9513	\$ 1.5102	\$ 1.5109	\$ 1.7974	\$ 1.3318	\$ 1.7423				
Spot Dem-Transco												
Spot Purchases -Tetco												
Spot for Resale												
Firm Contracts												
Transco Supply2 - Dem	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100
Commodity	\$ 2.2639	\$ 2.0184	\$ 1.5842	\$ 1.8353	\$ 1.8493	\$ 2.5457	\$ -	\$ -	\$ -	\$ 2.6407	\$ -	\$ -
Transco Supply3 - Dem												
Commodity				\$ 1.2150	\$ 1.2950	\$ 1.4550	\$ 2.1850	\$ 1.8050	\$ 1.3750	\$ 1.0350		
Transco Supply6 - Dem												
Commodity	\$ 2.4275	\$ 2.3788	\$ 2.3788								\$ 1.3638	\$ 1.5988
Transco Supply8 - Dem	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0077	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100
Commodity	\$ 2.2124	\$ 2.0632	\$ 2.1175	\$ 1.8750	\$ 1.8727						\$ 1.8849	\$ 4.2590
Transco Supply10 - Dem												
Commodity	\$ 2.8250	\$ 2.1000	\$ 1.7600	\$ 1.8700	\$ 1.9250	\$ 1.8850	\$ 2.8450	\$ 2.7550	\$ 2.7550	\$ 2.8450	\$ 2.9300	\$ 2.7700
Transco Supply14 - Dem												
Commodity					\$ 1.3450	\$ 1.3130	\$ 2.2670	\$ 2.0220	\$ 2.2030	\$ 2.3020	\$ 2.7040	\$ 3.4401
Transco Supply22 - Dem	\$ 0.0075	\$ 0.0075	\$ 0.0075	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100	\$ 0.0100
Commodity	\$ 2.2103	\$ 2.0147	\$ 1.9282	\$ 1.8690	\$ 1.0000			\$ 0.4991	\$ 0.5974	\$ 2.0851	\$ 2.5547	\$ 3.4405
Transco Supply23 - Dem												
Commodity	\$ 2.0947	\$ 2.0184	\$ 1.9950	\$ 1.8600	\$ 1.9300	\$ 1.9100	\$ 2.8600	\$ 2.6100	\$ 2.5880	\$ 2.5880	\$ 2.7275	\$ 3.1975
Transco Supply25 - Dem												
Commodity											\$ 2.8800	\$ 3.2000
Transco Supply26 - Dem												
Commodity											\$ -	
Transco Supply28 - Dem												
Commodity											\$ -	
Transco Supply29 - Dem												
Commodity				\$ 1.2630	\$ 1.3143	\$ 1.3230	\$ 2.2770	\$ 2.0320	\$ 2.2130	\$ 2.3120	\$ 2.7440	\$ 3.2120
Transco Supply30 - Dem												
Commodity	\$ 2.6825	\$ 2.6825	\$ 2.6825								\$ 2.7200	\$ 3.2000
Transco Supply31 - Dem												
Commodity		\$ 2.6850	\$ 2.6850									
Transco Supply32 - Dem												
Commodity		\$ 1.8800		\$ 1.2150	\$ 1.2950	\$ 1.4550	\$ 2.1850	\$ 1.8050	\$ 1.3350	\$ 1.0350		
Tetco Supply1 - Dem												
Commodity				\$ 1.1500	\$ 1.2800	\$ 1.3400	\$ 1.9800	\$ 1.2500	\$ 1.1600	\$ 0.8300		
Tetco Supply3 - Dem												
Commodity											\$ 2.6700	\$ 3.1500
Tetco Supply5 - Dem												
Commodity	\$ 1.9173	\$ 1.5810	\$ 1.0010	\$ -								
Tetco Supply16 - Dem												
Commodity	\$ 2.4550	\$ 2.4550	\$ 2.4550	\$ 1.4888	\$ 1.6100	\$ 1.5938	\$ 2.4038	\$ 1.9188	\$ 1.9774	\$ 1.7325	\$ 1.0925	\$ 2.4025
Tetco Supply18 - Dem												
Commodity												
Tetco Supply19 - Dem												
Commodity	\$ 2.6900	\$ 2.6900	\$ 2.6900	\$ -							\$ 2.8400	\$ 3.1250
Tetco Supply24 - Dem												
Commodity	\$ 0.0050	\$ 0.0050	\$ 0.0050	\$ -							\$ 0.0101	\$ 0.0049
Tetco Supply25 - Dem												
Commodity	\$ 1.3850	\$ 1.3280	\$ 0.9643	\$ 1.2638	\$ 1.3056	\$ 1.3400	\$ 1.6056	\$ 1.2553	\$ 1.0597	\$ 0.8785	\$ 1.5689	\$ 2.6014
Tetco Supply26 - Dem												
Commodity	\$ 1.6670	\$ 1.4840	\$ 1.0060									
Tetco Supply28 - Dem												
Commodity	\$ 1.9315	\$ 1.7458	\$ 1.6004	\$ 1.2932	\$ 1.3230	\$ 1.4628	\$ 1.5719	\$ 1.2459	\$ 1.0597	\$ 0.8624	\$ 2.0803	\$ 2.9869
Tetco Supply29 - Dem												
Commodity	\$ 1.2650	\$ 1.3650	\$ 0.9550	\$ 1.1500	\$ 1.2800	\$ 1.3400	\$ 1.9800	\$ 1.2500	\$ 1.1600	\$ 0.8300	\$ 1.1000	\$ 2.4100
Tetco Supply30 - Dem												
Commodity	\$ 2.1575	\$ 2.1575	\$ 2.1575									
Tetco Supply31 - Dem												
Commodity				\$ 1.1574	\$ 1.2874	\$ 1.3474	\$ 1.9874	\$ 1.2574	\$ 1.1674	\$ 0.8374		
Tetco Supply31 - Dem												
Commodity											\$ 2.7000	\$ 2.5700

Philadelphia Gas Works
Cost Of Fuels Purchased

Amounts - \$	Jan-16	Feb-16	Mar-16	Apr-16	May-16	JUNE-16	JULY-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Spot Purchases - Transco	\$ 59,081	\$ 11,508	\$ 19,451	\$ 16,689	\$ 14,577	\$ 14,174	\$ 13,652	\$ 2,451				
Spot Purchases - Tetco		\$ 2,609										
Spot for Resale	\$ 59,081	\$ 14,116	\$ 19,451	\$ 16,689	\$ 14,577	\$ 14,174	\$ 13,652	\$ 2,451				
Firm Contracts												
Transco Supply2 - Dem	\$ 4,650	\$ 4,350	\$ 4,650	\$ 4,500	\$ 4,650	\$ 4,500	\$ 4,650	\$ 4,650	\$ 4,500	\$ 4,650		
Commodity	\$ 916,875	\$ 666,075	\$ 142,575	\$ 294,502	\$ 677,173	\$ 674,771	\$ -	\$ -	\$ -	\$ 277,274		
Transco Supply3 - Dem												
Commodity			\$ -	\$ 182,250	\$ 200,725	\$ 218,250	\$ 338,675	\$ 279,775	\$ 206,250	\$ 160,425		
Transco Supply6 - Dem												
Commodity	\$ 752,525	\$ 689,838	\$ 737,413	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 409,125	\$ 495,613
Transco Supply8 - Dem	\$ 4,650	\$ 4,350	\$ 4,650	\$ 4,500	\$ 3,600	\$ 4,500	\$ 4,650	\$ 4,650	\$ 4,500	\$ 4,650	\$ 6,000	\$ 6,200
Commodity	\$ 1,714,600	\$ 1,310,150	\$ 656,425	\$ 93,750	\$ 263,710	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,169,088	\$ 2,640,810
Transco Supply10 - Dem												
Commodity	\$ 875,750	\$ 609,000	\$ 545,600	\$ 280,500	\$ 298,375	\$ 282,750	\$ 440,975	\$ 427,025	\$ 413,250	\$ 304,175	\$ 879,000	\$ 858,700
Transco Supply14 - Dem												
Commodity				\$ 187,950	\$ 208,475	\$ 196,950	\$ 351,385	\$ 313,410	\$ 330,450	\$ 356,810	\$ 405,600	\$ 2,088,460
Transco Supply22 - Dem	\$ 4,650	\$ 4,350	\$ 4,650	\$ 4,500	\$ 4,650	\$ 4,500	\$ 4,650	\$ 4,650	\$ 4,500	\$ 4,650	\$ 7,500	\$ 7,750
Commodity	\$ 1,204,625	\$ 1,047,663	\$ 486,191	\$ 205,475	\$ 114,525	\$ -	\$ 291,606	\$ 232,061	\$ 268,809	\$ 969,589	\$ 664,811	\$ 2,666,425
Transco Supply23 - Dem												
Commodity	\$ 900,700	\$ 948,850	\$ 618,450	\$ 279,000	\$ 299,150	\$ 286,500	\$ 443,300	\$ 402,498	\$ 388,200	\$ 401,140	\$ 409,125	\$ 495,155
Transco Supply24 - Dem												
Commodity												
*Transco Supply25 - Dem												
Commodity										\$ -	\$ 858,000	\$ 992,000
Transco Supply26 - Dem												
Commodity												
Transco Supply28 - Dem												
Commodity												
Transco Supply29 - Dem												
Commodity			\$ -	\$ 195,765	\$ 203,710	\$ 198,450	\$ 352,935	\$ 314,960	\$ 331,950	\$ 358,360	\$ 823,200	\$ 995,720
Transco Supply30 - Dem												
Commodity	\$ 415,788	\$ 388,963	\$ 415,788	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 408,000	\$ 496,000
Transco Supply31 - Dem												
Commodity	\$ 416,175	\$ 389,325	\$ 416,175	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply32 - Dem												
Commodity		\$ 37,600	\$ -	\$ 182,250	\$ 200,725	\$ 218,250	\$ 338,675	\$ 279,775	\$ 200,250	\$ 160,425	\$ -	\$ -
Tetco Supply1 - Dem												
Commodity				\$ 172,500	\$ 172,800	\$ 201,000	\$ 303,800	\$ 193,750	\$ 168,200	\$ 128,650	\$ -	\$ -
Tetco Supply3 - Dem												
Commodity											\$ 400,500	\$ 488,250
Tetco Supply5 - Dem												
Commodity	\$ 1,112,020	\$ 569,180	\$ 310,310	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 833,725
Tetco Supply16 - Dem												
Commodity	\$ 373,302	\$ 355,975	\$ 387,748	\$ 446,625	\$ 466,913	\$ 478,125	\$ 745,163	\$ 594,813	\$ 583,325	\$ 537,075	\$ 327,750	\$ 744,775
Tetco Supply19 - Dem												
Commodity	\$ 416,950	\$ 390,050	\$ 416,950	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 426,000	\$ 484,375
Tetco Supply24 - Dem												
Commodity	\$ 3,100	\$ 2,900	\$ 3,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,515	\$ 1,510
Tetco Supply25 - Dem												
Commodity	\$ 1,606,600	\$ 1,538,200	\$ 732,900	\$ 278,626	\$ 365,695	\$ 201,000	\$ 623,605	\$ 563,146	\$ 557,107	\$ 438,947	\$ 940,145	\$ 2,016,050
Tetco Supply25 - Dem												
Commodity	\$ 258,385	\$ 215,180	\$ 155,930	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply26 - Dem												
Commodity	\$ 898,125	\$ 849,849	\$ 408,100	\$ 401,488	\$ 469,650	\$ 414,933	\$ 700,577	\$ 579,350	\$ 476,850	\$ 401,000	\$ 1,352,225	\$ 2,732,888
Tetco Supply26 - Dem												
Commodity	\$ 196,075	\$ 197,925	\$ 148,025	\$ 172,500	\$ 172,800	\$ 200,780	\$ 303,800	\$ 193,750	\$ 174,000	\$ 128,650	\$ 330,000	\$ 747,100
Tetco Supply29 - Dem												
Commodity	\$ 334,413	\$ 312,838	\$ 334,413	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply30 - Dem												
Commodity				\$ 173,610	\$ 199,547	\$ 202,110	\$ 304,947	\$ 194,897	\$ 175,110	\$ 129,797	\$ -	\$ -
Tetco Supply31 - Dem												
Commodity											\$ 405,000	\$ 398,350

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

Amount - \$	Jan -16	Feb -16	Mar -16	Apr -16	May -16	JUNE -16	JULY -16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
S-2 Capacity	\$ 4,476	\$ 4,785	\$ 4,831	\$ 4,785	\$ 4,831	\$ 4,785	\$ 4,785	\$ 4,785	\$ 4,415	\$ 4,831	\$ 4,785	\$ 4,785
Storage Demand	\$ 21,870	\$ 23,348	\$ 22,595	\$ 23,348	\$ 22,595	\$ 23,348	\$ 23,496	\$ -	\$ 46,234	\$ 22,738	\$ 23,496	\$ 23,496
Handling fr Stg.	\$ 4,872	\$ 3,651	\$ 1,706	\$ 536	\$ -	\$ -	\$ -	\$ -	\$ 922	\$ -	\$ 922	\$ 4,090
Handling to Stg.	\$ -	\$ -	\$ -	\$ 94	\$ 284	\$ 1,612	\$ 2,053	\$ 1,789	\$ 1,731	\$ 1,181	\$ 802	\$ -
GSS Demand	\$ 182,423	\$ 180,008	\$ 192,423	\$ 185,994	\$ 192,193	\$ 185,994	\$ 192,193	\$ 192,193	\$ 185,994	\$ 192,193	\$ 188,215	\$ 192,423
Stg. Cap.Vol. Chg.	\$ 87,753	\$ 63,382	\$ 67,753	\$ 65,567	\$ 67,753	\$ 65,567	\$ 67,753	\$ 67,753	\$ 65,567	\$ 67,753	\$ 65,567	\$ 67,753
Handling fr Stg.	\$ 39,978	\$ 32,145	\$ 16,368	\$ 15,035	\$ 4,071	\$ 30	\$ -	\$ 87,753	\$ 65,567	\$ 3,468	\$ 4,064	\$ 27,846
Storage Injection	\$ 2,824	\$ 3,873	\$ 8,281	\$ 6,894	\$ 15,953	\$ 20,301	\$ 23,778	\$ 24,678	\$ 20,493	\$ 8,389	\$ 11,759	\$ 2,283
WSS Demand	\$ 23,927	\$ 22,383	\$ 23,927	\$ 24,658	\$ 27,835	\$ 27,021	\$ 27,835	\$ 27,835	\$ 27,021	\$ 27,835	\$ 27,021	\$ 27,835
Stg. Cap Vol Chg.	\$ 23,785	\$ 22,251	\$ 23,786	\$ 24,619	\$ 27,922	\$ 26,937	\$ 27,922	\$ 27,922	\$ 26,937	\$ 27,922	\$ 26,937	\$ 27,922
Handling fr Stg.	\$ 1,660	\$ 2,524	\$ 560	\$ 1,195	\$ 11	\$ -	\$ -	\$ -	\$ -	\$ 288	\$ 682	\$ 1,867
Handling to Stg.	\$ 72	\$ 200	\$ 291	\$ 349	\$ -	\$ 4,261	\$ 4,403	\$ 4,392	\$ 2,863	\$ 1,047	\$ 588	\$ 4
FT Demand/3491	\$ 2,446,612	\$ 2,288,766	\$ 2,449,178	\$ 2,359,267	\$ 2,437,909	\$ 2,359,267	\$ 2,437,909	\$ 2,437,909	\$ 2,359,267	\$ 2,437,909	\$ 2,359,267	\$ 2,435,352
FT Commodity/3491	\$ 118,846	\$ 98,662	\$ 64,578	\$ 31,116	\$ 38,037	\$ 17,097	\$ 11,791	\$ 11,168	\$ 14,518	\$ 33,424	\$ 84,418	\$ 133,183
PSFT Demand/5001	\$ 60,573	\$ 56,565	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,300
PSFT Commodity	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Eminence Cust.Dem.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Eminence Cust. Cap.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Eminence Storage Dem.	\$ 25,058	\$ 23,441	\$ 25,058	\$ 24,250	\$ 25,058	\$ 24,250	\$ 25,058	\$ 25,058	\$ 24,250	\$ 25,058	\$ 25,058	\$ 25,058
Eminence Storage Cap.	\$ 25,265	\$ 23,635	\$ 25,265	\$ 24,450	\$ 25,265	\$ 24,450	\$ 25,265	\$ 25,265	\$ 24,450	\$ 25,265	\$ 25,265	\$ 25,265
Handling fr Stg.	\$ 10,336	\$ 1,398	\$ 592	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Handling to Stg.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity Rel. Dem.Credit #3491	\$ (316,782)	\$ (294,541)	\$ (383,298)	\$ (219,421)	\$ (267,540)	\$ (323,015)	\$ (358,092)	\$ (361,536)	\$ (303,857)	\$ (258,525)	\$ (204,570)	\$ (229,983)
Capacity Rel. Dem.Credit #5001	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S2 Credit	\$ (3,295)	\$ (3,311)	\$ (3,331)	\$ (3,289)	\$ (3,250)	\$ (3,256)	\$ (3,204)	\$ (3,206)	\$ (3,206)	\$ (3,211)	\$ (3,189)	\$ (3,153)
Eminence #2 Demand	\$ 34,047	\$ 31,851	\$ 34,047	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Eminence #2 Capacity	\$ 34,330	\$ 32,115	\$ 34,330	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Handling to Stg.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Handling fr Stg.	\$ 12,155	\$ 1,574	\$ 942	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Eminence #2 Adj.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cashout / Cashout 02/29/2016	\$ -	\$ -	\$ 18,177	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S2 Adj. (02/1/16 - 02/29/16)	\$ -	\$ -	\$ -	\$ 7,996	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WSS Capacity Release	\$ (15,345)	\$ (14,355)	\$ (15,345)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Eminence Capacity Release	\$ -	\$ -	\$ -	\$ (13,099)	\$ (13,535)	\$ (13,099)	\$ (13,535)	\$ (13,535)	\$ (13,099)	\$ -	\$ -	\$ -
FT-Demand Charges Paid by VA Power	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cashout / Cashout 03/31/16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S2 Adj. (02/1/16 - 02/29/16)	\$ -	\$ (29)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cashout / Cashout Majority Buy 01/31/16	\$ -	\$ (808)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (22,187)	\$ -	\$ -	\$ -	\$ (3,663)
Unauthorized Overrun 02/2016	\$ -	\$ 4,862	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,404
TOTAL	\$ 2,615,441	\$ 2,608,476	\$ 2,612,511	\$ 2,584,356	\$ 2,585,192	\$ 2,445,550	\$ 2,499,407	\$ 2,445,498	\$ 2,488,578	\$ 2,617,345	\$ 2,588,763	\$ 2,775,722

Philadelphia Gas Works
Cost Of Fuel Purchased
Texas Eastern

Volumes - Dth	Jan-16	Feb-16	Mar-16	Apr-16	May-16	JUNE-16	JULY-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
CDS Access Area Demand	10.6000	10.5780	10.5780	10.5780	10.5780	10.5780	10.5780	10.6840	10.6840	10.6840	10.6840	10.7220
CDS Market Area Demand	3.3846	3.3846	3.3846	3.3846	3.3846	3.3846	3.3846	3.3846	3.3846	3.3846	3.3846	3.3846
CDS Commodity	0.0561	0.0563	0.0568	0.0549	0.0548	0.0550	0.0545	0.0577	0.0576	0.0577	0.0591	0.0501
CDS ACA Charge	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0013	0.0013	0.0013
FT1 Access Area Demand	10.3770	10.3550	10.3550	10.3550	10.3550	10.3550	10.3550	10.4610	10.4610	10.4610	10.4610	10.4990
FT1 Market Area Demand	3.5476	3.5476	3.5476	3.5476	3.5476	3.5476	3.5476	3.5476	3.5476	3.5476	3.5476	3.5476
FT1 Commodity	0.0000	0.0530	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FT1 ACA Charge	0.0000	0.0014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SS1 Demand 400121	5.4210	5.4150	5.4150	5.4150	5.4150	5.4150	5.4150	5.4430	5.4430	5.4430	5.4430	5.4430
Space Charge	0.1293	0.1293	0.1293	0.1293	0.1293	0.1293	0.1293	0.1293	0.1293	0.1293	0.1293	0.1293
Handling fr Storage	0.0555	0.0566	0.0566	0.0566	0.0566	0.0000	0.0000	0.0000	0.0000	0.0000	0.0577	0.0471
Excess Withdrawal	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Storage Injection	0.0350	0.0000	0.0350	0.0350	0.0350	0.0000	0.0350	0.0350	0.0350	0.0350	0.0350	0.0307
Excess Injection	0.1598	0.0000	0.1598	0.0000	0.1598	0.0000	0.0000	0.0000	0.1598	0.0000	0.1598	0.1555
Storage Surcharge Credit	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SS1 Demand 400209	5.4210	5.4150	5.4150	5.4150	5.4150	5.4150	5.4150	5.4430	5.4430	5.4430	5.4430	5.4430
Space Charge	0.1293	0.1293	0.1293	0.1293	0.1293	0.1293	0.1293	0.1293	0.1293	0.1293	0.1293	0.1293
Handling fr Storage	0.0555	0.0566	0.0566	0.0566	0.0566	0.0000	0.0000	0.0000	0.0000	0.0577	0.0577	0.0471
Excess Withdrawal	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Storage Injection	0.0350	0.0350	0.0350	0.0350	0.0350	0.0345	0.0350	0.0350	0.0350	0.0350	0.0350	0.0307
Excess Injection	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1598	0.1598	0.0000	0.1598	0.1598	0.1550
Storage Surcharge Credit	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FTS-2 Demand	7.9600	7.9600	7.9600	7.9600	7.9600	7.9600	7.9600	7.9600	7.9600	7.9600	7.9600	7.9620
FTS-7 Demand	6.5760	6.5760	6.5760	6.5760	6.5760	6.5760	6.5760	6.5760	6.5760	6.5760	6.5760	6.5760
FTS-8 Demand	6.8640	6.8640	6.8640	6.8640	6.8640	6.8640	6.8640	6.8640	6.8640	6.8640	6.8640	6.8640
FT-1 Acc.Area Dem. 800514	10.3770	10.3550	10.3550	10.3550	10.3550	10.3550	10.3550	10.4610	10.4610	10.4610	10.4610	10.4990
FT-1 Market Area Demand	2.2385	2.2385	2.2385	2.2385	2.2385	2.2385	2.2385	2.2385	2.2385	2.2385	2.2385	2.2385
FT Commodity	0.0601	0.0639	0.0639	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0675	0.0534
FT-1 ACA Charge	0.0014	0.0014	0.0014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0013	0.0013
FT1-3 Cap.Rel. demand credit 800514	0.0000	0.0000	0.0000	0.1060	0.1032	0.1138	0.1217	0.1327	0.1327	0.1064	0.0000	0.0000
FT-1 Acc.Area Dem. 800515	10.3770	10.3550	10.3550	10.3550	10.3550	10.3550	10.3550	10.4610	10.4610	10.4610	10.4610	10.4990
FT-1 Market Area Demand	2.2385	2.2385	2.2385	2.2385	2.2385	2.2385	2.2385	2.2385	2.2385	2.2385	2.2385	2.2385
FT Commodity	0.0602	0.0639	0.0639	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0675	0.0534
FT-1 ACA Charge	0.0014	0.0014	0.0014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0013	0.0013
FT1-3 Cap.Rel. demand credit 800515	0.0000	0.0000	0.0000	0.0837	0.1032	0.1138	0.1217	0.1327	0.1327	0.0000	0.0000	0.0000
CDS 800232 M1-M2 Cap. Rel.	0.3221	0.4338	0.4261	0.4261	0.6018	0.4541	0.3606	0.3631	0.3436	0.3442	0.0000	0.0000
FT1-800233 M1-M3 Cap. Rel.	0.5300	0.5300	0.5300	0.5300	0.5300	0.5300	0.5300	0.5300	0.5300	0.5300	0.0000	0.0000
FTS-2,7,8 ACA	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0013	0.0013	0.0013

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

Amount - \$	Jan-16	Feb-16	Mar-16	Apr-16	May-16	JUNE-16	JULY-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
CDS Access Area Demand	\$ 795,000	\$ 793,350	\$ 793,350	\$ 793,350	\$ 793,350	\$ 793,350	\$ 793,350	\$ 801,300	\$ 801,300	\$ 801,300	\$ 801,300	\$ 804,150
CDS Market Area Demand	\$ 330,249	\$ 330,249	\$ 330,249	\$ 330,249	\$ 330,249	\$ 330,249	\$ 330,249	\$ 330,249	\$ 330,249	\$ 330,249	\$ 330,249	\$ 330,249
CDS Commodity	\$ 90,171	\$ 78,573	\$ 43,360	\$ 60,629	\$ 64,023	\$ 55,581	\$ 77,442	\$ 88,485	\$ 88,184	\$ 89,298	\$ 59,785	\$ 82,974
CDS ACA Charge	\$ 2,252	\$ 1,952	\$ 1,068	\$ 1,547	\$ 1,835	\$ 1,414	\$ 1,989	\$ 2,098	\$ 2,142	\$ 2,013	\$ 1,315	\$ 2,154
FT1 Access Area Demand	\$ 247,201	\$ 246,877	\$ 246,877	\$ 246,877	\$ 246,877	\$ 246,877	\$ 246,877	\$ 249,202	\$ 249,202	\$ 249,202	\$ 249,202	\$ 250,107
FT1 Market Area Demand	\$ 194,687	\$ 194,687	\$ 194,687	\$ 194,687	\$ 194,687	\$ 194,687	\$ 194,687	\$ 194,687	\$ 194,687	\$ 194,687	\$ 194,687	\$ 194,687
FT1 Commodity	\$ -	\$ 3,180	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FT1 ACA Charge	\$ -	\$ 84	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SS1 Demand 400121	\$ 238,164	\$ 238,899	\$ 238,899	\$ 238,899	\$ 238,899	\$ 238,899	\$ 238,899	\$ 240,134	\$ 240,134	\$ 240,134	\$ 240,134	\$ 240,134
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 ft Storage	\$ 33,170	\$ 19,757	\$ 10,276	\$ 11,249	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,998	\$ 12,968
Excess Withdrawal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Storage Injection	\$ 478	\$ -	\$ 1,591	\$ 252	\$ 1,876	\$ -	\$ 13,597	\$ 14,463	\$ 6,776	\$ 9,919	\$ 4,534	\$ 838
Excess Injection	\$ 1,922	\$ -	\$ 788	\$ -	\$ 658	\$ -	\$ -	\$ -	\$ 1,859	\$ -	\$ 5,796	\$ 1,001
Storage Surcharge Credit	\$ (28,140)	\$ (28,309)	\$ (27,951)	\$ (27,676)	\$ (27,722)	\$ (27,278)	\$ (27,295)	\$ (27,315)	\$ (27,339)	\$ (26,845)	\$ (26,845)	\$ (26,910)
SS1 Demand 400209	\$ 113,012	\$ 112,887	\$ 112,887	\$ 112,887	\$ 112,887	\$ 112,887	\$ 112,887	\$ 113,470	\$ 113,470	\$ 113,470	\$ 113,470	\$ 113,470
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 ft Storage	\$ 27,266	\$ 21,657	\$ 12,537	\$ 12,896	\$ 1,865	\$ -	\$ -	\$ -	\$ -	\$ 3,958	\$ 8,879	\$ 12,641
Excess Withdrawal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Storage Injection	\$ 857	\$ 494	\$ 4,222	\$ 2,637	\$ 8,132	\$ 7,088	\$ 5,540	\$ 4,347	\$ 13,289	\$ 4,714	\$ 5,717	\$ 1,293
Excess Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 357	\$ 79	\$ -	\$ 1,051	\$ 6,919	\$ 1
Storage Surcharge Credit	\$ (13,313)	\$ (13,383)	\$ (13,224)	\$ (13,054)	\$ (13,075)	\$ (12,866)	\$ (12,874)	\$ (12,883)	\$ (12,885)	\$ (12,809)	\$ (12,682)	\$ (12,682)
FTS-2 Demand	\$ 42,936	\$ 42,936	\$ 42,936	\$ 42,936	\$ 42,936	\$ 42,936	\$ 42,936	\$ 42,936	\$ 42,936	\$ 42,936	\$ 42,936	\$ 42,947
FTS-7 Demand	\$ 51,214	\$ 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	\$ 178,467	\$ 178,467	\$ 178,467	\$ 178,467	\$ 178,467	\$ 178,467	\$ 178,467	\$ 178,467	\$ 178,467	\$ 178,467	\$ 178,467	\$ 178,467
FT-1 Acc.Area Dem. 800514	\$ 188,786	\$ 188,390	\$ 188,390	\$ 188,390	\$ 188,390	\$ 188,390	\$ 188,390	\$ 188,298	\$ 188,298	\$ 188,298	\$ 188,298	\$ 188,982
FT-1 Market Area Demand	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685
FT Commodity	\$ 33,342	\$ 33,348	\$ 35,645	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,469	\$ 29,802
FT-1 ACA Charge	\$ 777	\$ 731	\$ 781	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 702	\$ 725
FT-1 J Cap.Rel. dem credit 800514	\$ -	\$ -	\$ -	\$ (57,240)	\$ (94,302)	\$ (100,602)	\$ (111,209)	\$ (121,253)	\$ (117,342)	\$ (158,575)	\$ -	\$ -
FT-1 Acc.Area Dem. 800515	\$ 188,786	\$ 188,390	\$ 188,390	\$ 188,390	\$ 188,390	\$ 188,390	\$ 188,390	\$ 188,298	\$ 188,298	\$ 188,298	\$ 188,298	\$ 188,982
FT-1 Market Area Demand	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685	\$ 25,685
FT Commodity	\$ 33,588	\$ 33,348	\$ 35,634	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,469	\$ 29,802
FT-1 ACA Charge	\$ 781	\$ 731	\$ 781	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 702	\$ 725
FT-1 J Cap.Rel. dem credit 800515	\$ -	\$ -	\$ -	\$ (45,198)	\$ (94,302)	\$ (100,602)	\$ (111,209)	\$ (121,253)	\$ (117,342)	\$ (158,575)	\$ -	\$ -
CDS 800232 M1-M2 Cap. Rel.	\$ (156,174)	\$ (146,851)	\$ (154,298)	\$ (150,443)	\$ (164,069)	\$ (156,731)	\$ (165,297)	\$ (165,724)	\$ (117,448)	\$ (121,786)	\$ (109,612.44)	\$ (131,061.52)
FT1-800233 M1-M3 Cap. Rel.	\$ (342,993)	\$ (287,563)	\$ (342,993)	\$ (331,928)	\$ (342,993)	\$ (331,928)	\$ (342,993)	\$ (342,993)	\$ (331,928)	\$ (342,993)	\$ (217,996.44)	\$ (225,262.99)
FTS-2,7,8 ACA	\$ 1,470	\$ 1,031	\$ 788	\$ 676	\$ 217	\$ 210	\$ 217	\$ 217	\$ 210	\$ 202	\$ 564	\$ 1154.23
CSHOUT UNDER 8% DS												
PRIOR ADJUSTMENTS										\$ 32,076	\$ 209,562	
O.F.O CREDITS										\$ (5,400)		
TOTAL	\$ 2,366,436	\$ 2,385,532	\$ 2,276,676	\$ 2,130,914	\$ 2,008,507	\$ 2,000,851	\$ 1,994,832	\$ 1,998,955	\$ 2,070,842	\$ 2,002,927	\$ 2,689,861	\$ 2,467,953

Philadelphia Gas Works
Volumes, Rates, and Total Amounts
Dominion

Volumes	Jan-16	Feb-16	Mar-16	Apr-16	May-16	JUNE-16	JULY-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
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	-	-	74,750	-	186,914	431,163	445,718	445,718	421,755	359,451	-	-
GSS Handling from Storage	909,776	601,345	414,644	338,600	-	-	-	-	-	-	297,865	744,920
GSS-TE Surcharge	909,776	601,345	414,644	338,600	-	-	-	-	-	-	-	744,920
GSS-TE Excess Injection	-	-	-	-	-	-	-	-	-	-	-	-
Unauthorized Overrun Charges	-	-	-	-	-	-	-	-	-	-	-	-
Rates - \$												
GSS Storage Demand	\$ 1.8618	\$ 1.8618	\$ 1.8618	\$ 1.8618	\$ 1.8618	\$ 1.8618	\$ 1.8618	\$ 1.8618	\$ 1.8618	\$ 1.8618	\$ 1.8663	\$ 1.8883
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	\$ 0.0262	\$ 0.0262	\$ 0.0262	\$ 0.0262	\$ 0.0262	\$ 0.0262	\$ 0.0262	\$ 0.0262	\$ 0.0262	\$ 0.0262	\$ 0.0274	\$ 0.0274
GSS Handling from Storage	\$ 0.0149	\$ 0.0149	\$ 0.0149	\$ 0.0149	\$ 0.0149	\$ 0.0149	\$ 0.0149	\$ 0.0149	\$ 0.0149	\$ 0.0149	\$ 0.0148	\$ 0.0161
GSS-TE Surcharge	\$ 0.0031	\$ 0.0031	\$ 0.0031	\$ 0.0031	\$ 0.0031	\$ 0.0031	\$ 0.0031	\$ 0.0031	\$ 0.0031	\$ 0.0031	\$ 0.0049	\$ 0.0049
GSS-TE Excess Injection	\$ 0.6363	\$ 0.6363	\$ 0.6363	\$ 0.6363	\$ 0.6363	\$ 0.6363	\$ 0.6363	\$ 0.6363	\$ 0.6363	\$ 0.6363	\$ 0.2365	\$ 0.2365
Unauthorized Overrun Charges	\$ 0.6316	\$ 0.6316	\$ 0.6316	\$ 0.6316	\$ 0.6316	\$ 0.6316	\$ 0.6316	\$ 0.6316	\$ 0.6316	\$ 0.6316	\$ 0.6309	\$ 0.6309
Total Amount - \$												
GSS Storage Demand	\$ 63,389	\$ 63,389	\$ 63,389	\$ 63,389	\$ 63,389	\$ 63,389	\$ 63,389	\$ 63,389	\$ 63,389	\$ 63,389	\$ 63,610	\$ 63,610
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	\$ -	\$ -	\$ 1,958	\$ -	\$ 4,897	\$ 11,297	\$ 11,678	\$ 11,678	\$ 11,050	\$ 9,418	\$ -	\$ -
GSS Handling from Storage	\$ 13,556	\$ 8,960	\$ 6,178	\$ 5,045	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,045	\$ 11,993
GSS-TE Surcharge	\$ 2,820	\$ 1,864	\$ 1,285	\$ 1,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,650
GSS-TE Excess Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
*Overrun/Penalty Distribution	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (5,401)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unauthorized Overrun Charges	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL	\$ 136,590	\$ 131,038	\$ 129,636	\$ 126,309	\$ 125,111	\$ 126,109	\$ 131,892	\$ 131,892	\$ 131,264	\$ 129,631	\$ 126,480	\$ 136,078

Philadelphia Gas Works
 Pennsylvania Public Utilities Commission
 52 Pa. Code §53.61, et seq.
 For the Twelve Months Ending December 2016

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-16	\$ 332,126	985,614	\$ 499,167	1,012,677	\$ 831,293	1,998,291
Feb-16	\$ 308,896	918,111	\$ 434,214	880,596	\$ 743,110	1,798,707
Mar-16	\$ 398,641	1,282,173	\$ 497,288	1,009,267	\$ 895,929	2,291,440
Apr-16	\$ 232,520	953,220	\$ 584,810	2,059,350	\$ 817,330	3,012,570
May-16	\$ 301,075	1,912,700	\$ 695,667	2,218,701	\$ 996,742	4,131,401
Jun-16	\$ 336,114	2,440,460	\$ 689,864	2,142,330	\$ 1,025,978	4,582,790
Jul-16	\$ 371,626	2,920,583	\$ 730,708	2,221,584	\$ 1,102,334	5,142,167
Aug-16	\$ 375,071	2,998,512	\$ 751,223	2,205,061	\$ 1,126,295	5,203,573
Sep-16	\$ 316,954	2,801,820	\$ 684,061	2,048,030	\$ 1,001,015	4,849,850
Oct-16	\$ 258,525	2,278,720	\$ 777,931	3,232,959	\$ 1,036,456	5,511,679
Nov-16	\$ 204,570	555,210	\$ 327,611	876,150	\$ 532,181	1,431,360
Dec-16	\$ 229,974	614,079	\$ 365,329	951,173	\$ 595,303	1,565,252
	\$ 3,666,091	20,661,202	\$ 7,037,874	20,857,878	\$ 10,703,966	41,519,080

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

Tab 4

RECEIVED

MAR - 3 2017

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2017-August 2018

Schedule 3
Item 53.64(c)(1)

Values: (\$M)

	1/1/2017: Jan	2/1/2017: Feb	3/1/2017: Mar	4/1/2017: Apr	5/1/2017: May	6/1/2017: Jun	7/1/2017: Jul	8/1/2017: Aug	9/1/2017: Sep	10/1/2017: Oct
Spot Purchases - Transco	47,901	2,020,613	1,313,240	604,484	290,154	258	267	267	258	163,515
Spot Purchases - Tetco	74,079	2,746,493	3,062,302	2,033,625	2,045,516	1,403,418	1,111,243	736,409	2,124,125	1,970,096
Transco Supply 1	-	-	-	-	-	-	-	-	-	-
Transco Supply 2	-	-	-	-	-	-	-	-	-	-
Transco Supply 3	-	-	-	-	-	-	-	-	-	-
Transco Supply 4	-	-	-	-	-	-	-	-	-	-
Transco Supply 5	-	-	-	-	-	-	-	-	-	-
Transco Supply 6	155,000	-	-	-	-	-	-	-	-	-
Transco Supply 7	-	-	-	-	-	-	-	-	-	-
Transco Supply 8	755,000	560,000	512,297	593,682	551,643	580,000	5,272	5,096	560,000	496,686
Transco Supply 9	-	-	-	-	-	-	-	-	-	-
Transco Supply 10	310,000	280,000	310,000	-	-	-	-	-	-	-
Transco Supply 11	-	-	-	-	-	-	-	-	-	-
Transco Supply 12	-	-	-	-	-	-	-	-	-	-
Transco Supply 13	-	-	-	-	-	-	-	-	-	-
Transco Supply 14	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	750,000	676,647	599,660	635,031	405,104	34,055	176	351	169,085	327,171
Transco Supply 23	155,000	-	-	-	-	-	-	-	-	-
Transco Supply 24	-	-	-	-	-	-	-	-	-	-
Transco Supply 25	310,000	-	-	-	-	-	-	-	-	-
Transco Supply 26	-	-	-	-	-	-	-	-	-	-
Transco Supply 27	-	-	-	-	-	-	-	-	-	-
Transco Supply 28	-	-	-	-	-	-	-	-	-	-
Transco Supply 29	310,000	-	-	-	-	-	-	-	-	-
Transco Supply 30	155,000	-	-	-	-	-	-	-	-	-
Transco Supply 31	-	-	-	-	-	-	-	-	-	-
Transco Supply 32	-	-	-	-	-	-	-	-	-	-
Tetco Supply 1	-	-	-	-	-	-	-	-	-	-
Tetco Supply 2	-	-	-	-	-	-	-	-	-	-
Tetco Supply 3	155,000	-	-	-	-	-	-	-	-	-
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	310,000	-	-	-	-	-	-	-	-	-
Tetco Supply 17	-	-	-	-	-	-	-	-	-	-
Tetco Supply 18	-	-	-	-	-	-	-	-	-	-
Tetco Supply 19	155,000	-	-	-	-	-	-	-	-	-
Tetco Supply 20	-	-	-	-	-	-	-	-	-	-
Tetco Supply 21	-	-	-	-	-	-	-	-	-	-
Tetco Supply 22	-	-	-	-	-	-	-	-	-	-
Tetco Supply 23	-	-	-	-	-	-	-	-	-	-
Tetco Supply 24	765,000	190,000	165,000	273,016	402,336	150,000	155,000	165,000	170,000	175,000
Tetco Supply 25	-	-	-	-	-	-	-	-	-	-
Tetco Supply 26	905,000	125,000	61,255	73,301	192,140	-	-	50,000	50,434	92,003
Tetco Supply 27	-	-	-	-	-	-	-	-	-	-
Tetco Supply 28	310,000	-	-	-	-	-	-	-	-	-
Tetco Supply 29	-	-	-	-	-	-	-	-	-	-
Tetco Supply 30	-	-	-	-	-	-	-	-	-	-
Tetco Supply 31	155,000	-	-	-	-	-	-	-	-	-
Total Values	5,931,980	6,598,753	6,023,754	4,213,140	3,886,893	2,167,731	1,271,958	957,124	3,071,903	3,224,470

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2017-August 2018

Schedule 3
Item 53.64(c)(1)

Volumes (Mcf)

	11/1/2017: Nov	12/1/2017: Dec	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
Spot Purchases - Transco	1,086,610	1,754,751	1,899,367	2,107,827	1,555,559	609,485	86,352	-	-	-
Spot Purchases - Tetco	2,298,991	3,111,329	3,223,383	2,910,668	2,969,767	1,746,613	1,652,598	1,297,816	738,357	736,222
Transco Supply 1	-	-	-	-	-	-	-	-	-	-
Transco Supply 2	-	-	-	-	-	-	-	-	-	-
Transco Supply 3	-	-	-	-	-	-	-	-	-	-
Transco Supply 4	-	-	-	-	-	-	-	-	-	-
Transco Supply 5	-	-	-	-	-	-	-	-	-	-
Transco Supply 6	-	-	-	-	-	-	-	-	-	-
Transco Supply 7	-	-	-	-	-	-	-	-	-	-
Transco Supply 8	426,146	598,053	604,622	560,000	580,836	532,694	571,055	530,315	4,104	3,962
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	660,254	663,942	738,653	693,785	617,552	600,104	271,583	32,773	283	425
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	-	-	-	-	-	-	-	-	-	-
Tetco Supply 24	170,000	198,501	155,000	140,000	209,536	241,829	210,361	150,000	165,000	165,000
Tetco Supply 25	-	-	-	-	-	-	-	-	-	-
Tetco Supply 26	225,000	50,000	-	-	100,000	176,313	125,000	-	50,000	50,000
Tetco Supply 27	-	-	-	-	-	-	-	-	-	-
Tetco Supply 28	-	-	-	-	-	-	-	-	-	-
Tetco Supply 29	-	-	-	-	-	-	-	-	-	-
Tetco Supply 30	-	-	-	-	-	-	-	-	-	-
Tetco Supply 31	-	-	-	-	-	-	-	-	-	-
Total Volumes	4,867,002	6,376,576	6,621,025	6,412,280	6,033,250	3,907,039	2,916,949	2,010,903	957,744	955,609

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2017-August 2018

	1/1/2017: Jan	2/1/2017: Feb	3/1/2017: Mar	4/1/2017: Apr	5/1/2017: May	6/1/2017: Jun	7/1/2017: Jul	8/1/2017: Aug	9/1/2017: Sep	10/1/2017: Oct
Williams	\$ 2,650,108	\$ 2,656,812	\$ 2,536,102	\$ 2,483,042	\$ 2,472,108	\$ 2,449,141	\$ 2,395,640	\$ 2,395,111	\$ 2,472,001	\$ 2,461,892
Texas Eastern	\$ 2,520,975	\$ 2,508,293	\$ 2,485,211	\$ 2,029,334	\$ 2,034,623	\$ 1,994,397	\$ 1,948,965	\$ 1,933,682	\$ 2,143,710	\$ 2,105,624
Dominion	\$ 132,930	\$ 127,900	\$ 123,127	\$ 129,005	\$ 138,739	\$ 135,488	\$ 128,816	\$ 120,575	\$ 135,488	\$ 127,932
Spot Purchases - Transco	\$ 170,200	\$ 6,868,063	\$ 4,433,499	\$ 2,033,486	\$ 975,200	\$ 879	\$ 919	\$ 920	\$ 886	\$ 562,817
Spot Purchases - Teteo	\$ 252,240	\$ 8,071,944	\$ 8,929,672	\$ 5,905,647	\$ 5,934,042	\$ 4,130,259	\$ 3,314,838	\$ 2,198,182	\$ 6,644,264	\$ 6,190,041
Transco Supply 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 6	\$ 604,112	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 8	\$ 2,370,000	\$ 1,914,640	\$ 1,740,837	\$ 2,009,085	\$ 1,865,789	\$ 1,985,540	\$ 24,405	\$ 23,808	\$ 1,931,280	\$ 1,720,760
Transco Supply 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 10	\$ 1,106,700	\$ 999,600	\$ 1,106,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 14	\$ 599,850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 22	\$ 2,203,000	\$ 2,313,690	\$ 2,038,200	\$ 2,150,095	\$ 1,373,354	\$ 123,728	\$ 8,357	\$ 8,964	\$ 588,815	\$ 1,137,146
Transco Supply 23	\$ 604,112	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 25	\$ 1,207,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 29	\$ 1,212,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 30	\$ 602,950	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 3	\$ 592,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 16	\$ 1,054,775	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 19	\$ 592,875	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 24	\$ 2,116,560	\$ 439,660	\$ 353,070	\$ 794,348	\$ 1,168,685	\$ 442,960	\$ 463,875	\$ 494,035	\$ 533,270	\$ 551,360
Teteo Supply 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 26	\$ 2,435,237	\$ 367,375	\$ 178,620	\$ 212,868	\$ 557,399	\$ -	\$ -	\$ 149,250	\$ 157,757	\$ 289,072
Teteo Supply 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 28	\$ 1,057,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Teteo Supply 31	\$ 593,650	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FT PAYBACK ADJUST	\$ -	\$ -	\$ -	\$ -	\$ 223,610	\$ 223,610	\$ 223,610	\$ 223,610	\$ -	\$ -
Total Costs	\$ 24,679,113	\$ 26,267,976	\$ 23,925,039	\$ 17,746,908	\$ 16,296,338	\$ 11,028,782	\$ 8,062,206	\$ 7,100,918	\$ 14,607,471	\$ 15,146,643

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2017-August 2018

	11/1/2017: Nov	12/1/2017: Dec	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
Williams	\$ 2,525,609	\$ 2,613,230	\$ 2,665,581	\$ 2,643,114	\$ 2,528,553	\$ 2,477,147	\$ 2,456,146	\$ 2,440,331	\$ 2,391,043	\$ 2,390,681
Texas Eastern	\$ 2,441,852	\$ 2,491,583	\$ 2,495,574	\$ 2,501,725	\$ 2,479,083	\$ 2,008,107	\$ 1,982,330	\$ 1,973,803	\$ 1,930,623	\$ 1,930,129
Dominion	\$ 120,435	\$ 125,594	\$ 135,799	\$ 131,488	\$ 123,162	\$ 129,761	\$ 137,317	\$ 134,241	\$ 120,542	\$ 120,542
Spot Purchases - Transco	\$ 3,787,922	\$ 6,317,102	\$ 6,999,167	\$ 7,676,707	\$ 5,526,902	\$ 1,799,200	\$ 248,868	\$ -	\$ -	\$ -
Spot Purchases - Telco	\$ 7,324,587	\$ 10,267,387	\$ 10,911,152	\$ 9,727,451	\$ 9,660,652	\$ 4,632,019	\$ 4,267,007	\$ 3,375,618	\$ 1,935,235	\$ 1,923,748
Transco Supply 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 8	\$ 1,495,807	\$ 2,165,173	\$ 2,240,279	\$ 2,050,720	\$ 2,075,718	\$ 1,583,840	\$ 1,657,692	\$ 1,549,746	\$ 18,228	\$ 17,782
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	\$ 2,315,749	\$ 2,404,581	\$ 2,737,074	\$ 2,340,703	\$ 2,208,088	\$ 1,785,008	\$ 793,167	\$ 102,903	\$ 8,540	\$ 8,991
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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 24	\$ 543,130	\$ 656,562	\$ 526,185	\$ 469,390	\$ 683,131	\$ 642,842	\$ 544,663	\$ 391,660	\$ 433,975	\$ 432,655
Telco Supply 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 26	\$ 716,850	\$ 165,000	\$ -	\$ -	\$ 325,300	\$ 467,583	\$ 322,750	\$ -	\$ 131,050	\$ 130,650
Telco Supply 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Telco Supply 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FT PAYBACK ADJUST	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 309,274	\$ 309,274	\$ 319,274	\$ 309,274
Total Costs	\$ 21,271,941	\$ 27,206,213	\$ 28,710,810	\$ 27,741,297	\$ 23,610,589	\$ 15,525,507	\$ 12,100,666	\$ 9,659,028	\$ 6,660,002	\$ 6,645,904

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2017-August 2018

Schedule 3
 item 53.64(c)(1)

Cost of Natural Gas

<u>Suppliers</u>	<u>1/1/2017: Jan</u>	<u>2/1/2017: Feb</u>	<u>3/1/2017: Mar</u>	<u>4/1/2017: Apr</u>	<u>5/1/2017: May</u>	<u>6/1/2017: Jun</u>	<u>7/1/2017: Jul</u>	<u>8/1/2017: Aug</u>	<u>9/1/2017: Sep</u>	<u>10/1/2017: Oct</u>
TR Spot	\$ 170,288	\$ 6,868,063	\$ 4,433,499	\$ 2,033,486	\$ 975,208	\$ 879	\$ 919	\$ 920	\$ 886	\$ 562,817
Supplier 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 6	\$ 604,112	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 8	\$ 2,370,000	\$ 1,914,640	\$ 1,740,837	\$ 2,009,085	\$ 1,865,789	\$ 1,985,540	\$ 24,405	\$ 23,808	\$ 1,931,280	\$ 1,720,760
Supplier 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 10	\$ 1,106,700	\$ 999,600	\$ 1,106,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 14	\$ 599,850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 22	\$ 2,203,000	\$ 2,313,690	\$ 2,038,200	\$ 2,150,095	\$ 1,373,354	\$ 123,728	\$ 8,357	\$ 8,964	\$ 588,815	\$ 1,137,146
Supplier 23	\$ 604,112	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 25	\$ 1,207,450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 29	\$ 1,212,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 30	\$ 602,950	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Suppliers	\$ 10,680,563	\$ 12,095,993	\$ 9,319,236	\$ 6,192,665	\$ 4,214,351	\$ 2,110,147	\$ 33,681	\$ 33,692	\$ 2,520,980	\$ 3,420,723

Transportation Costs

Tr Spot	\$ 121,192	\$ 131,113	\$ 101,445	\$ 64,730	\$ 36,941	\$ 20,923	\$ 187	\$ 187	\$ 24,842	\$ 34,250
Williams Total	\$ 121,192	\$ 131,113	\$ 101,445	\$ 64,730	\$ 36,941	\$ 20,923	\$ 187	\$ 187	\$ 24,842	\$ 34,250
Total Costs	\$ 10,801,755	\$ 12,227,106	\$ 9,420,681	\$ 6,257,395	\$ 4,251,292	\$ 2,131,070	\$ 33,868	\$ 33,879	\$ 2,545,823	\$ 3,454,973

March 2017

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2017-August 2018

Schedule 3
item 53.64(c)(1)

Cost of Natural Gas

Suppliers	11/1/2017: Nov	12/1/2017: Dec	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
TR Spot	\$ 3,787,922	\$ 6,317,102	\$ 6,999,167	\$ 7,676,707	\$ 5,526,902	\$ 1,799,200	\$ 248,868	\$ -	\$ -	\$ -
Supplier 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 8	\$ 1,495,807	\$ 2,165,173	\$ 2,240,279	\$ 2,050,720	\$ 2,075,718	\$ 1,583,840	\$ 1,657,692	\$ 1,549,746	\$ 18,228	\$ 17,782
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	\$ 2,315,749	\$ 2,404,581	\$ 2,737,074	\$ 2,540,703	\$ 2,208,088	\$ 1,785,008	\$ 793,167	\$ 102,903	\$ 8,580	\$ 8,991
Supplier 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Suppliers	\$ 7,599,477	\$ 10,886,856	\$ 11,976,519	\$ 12,268,130	\$ 9,810,708	\$ 5,168,048	\$ 2,699,726	\$ 1,652,649	\$ 26,808	\$ 26,773
Transportation Costs										
Tr Spot	\$ 78,126	\$ 109,387	\$ 132,109	\$ 122,466	\$ 99,684	\$ 63,924	\$ 31,977	\$ 19,185	\$ 149	\$ 149
Williams Total	\$ 78,126	\$ 109,387	\$ 132,109	\$ 122,466	\$ 99,684	\$ 63,924	\$ 31,977	\$ 19,185	\$ 149	\$ 149
Total Costs	\$ 7,677,603	\$ 10,996,243	\$ 12,108,628	\$ 12,390,596	\$ 9,910,392	\$ 5,231,972	\$ 2,731,703	\$ 1,671,834	\$ 26,957	\$ 26,922

March 2017

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2017-August 2018

Schedule 3
 item 53.64(c)(1)

Volumes (Dth)

<u>Suppliers</u>	<u>1/1/2017: Jan</u>	<u>2/1/2017: Feb</u>	<u>3/1/2017: Mar</u>	<u>4/1/2017: Apr</u>	<u>5/1/2017: May</u>	<u>6/1/2017: Jun</u>	<u>7/1/2017: Jul</u>	<u>8/1/2017: Aug</u>	<u>9/1/2017: Sep</u>	<u>10/1/2017: Oct</u>
TR Spot	47,901	2,020,613	1,313,240	604,484	290,154	258	267	267	258	163,515
Supplier 1	-	-	-	-	-	-	-	-	-	-
Supplier 2	-	-	-	-	-	-	-	-	-	-
Supplier 3	-	-	-	-	-	-	-	-	-	-
Supplier 4	-	-	-	-	-	-	-	-	-	-
Supplier 5	-	-	-	-	-	-	-	-	-	-
Supplier 6	155,000	-	-	-	-	-	-	-	-	-
Supplier 7	-	-	-	-	-	-	-	-	-	-
Supplier 8	755,000	560,000	512,297	593,682	551,643	580,000	5,272	5,096	560,000	496,686
Supplier 9	-	-	-	-	-	-	-	-	-	-
Supplier 10	310,000	280,000	310,000	-	-	-	-	-	-	-
Supplier 11	-	-	-	-	-	-	-	-	-	-
Supplier 12	-	-	-	-	-	-	-	-	-	-
Supplier 13	-	-	-	-	-	-	-	-	-	-
Supplier 14	155,000	-	-	-	-	-	-	-	-	-
Supplier 15	-	-	-	-	-	-	-	-	-	-
Supplier 16	-	-	-	-	-	-	-	-	-	-
Supplier 17	-	-	-	-	-	-	-	-	-	-
Supplier 18	-	-	-	-	-	-	-	-	-	-
Supplier 19	-	-	-	-	-	-	-	-	-	-
Supplier 20	-	-	-	-	-	-	-	-	-	-
Supplier 21	-	-	-	-	-	-	-	-	-	-
Supplier 22	750,000	676,647	599,660	635,031	405,104	34,055	176	351	169,085	327,171
Supplier 23	155,000	-	-	-	-	-	-	-	-	-
Supplier 24	-	-	-	-	-	-	-	-	-	-
Supplier 25	310,000	-	-	-	-	-	-	-	-	-
Supplier 26	-	-	-	-	-	-	-	-	-	-
Supplier 27	-	-	-	-	-	-	-	-	-	-
Supplier 28	-	-	-	-	-	-	-	-	-	-
Supplier 29	310,000	-	-	-	-	-	-	-	-	-
Supplier 30	155,000	-	-	-	-	-	-	-	-	-
Supplier 31	-	-	-	-	-	-	-	-	-	-
Supplier 32	-	-	-	-	-	-	-	-	-	-
Total Volumes	3,102,901	3,537,260	2,735,197	1,833,198	1,246,901	614,313	5,715	5,715	729,343	987,372

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2017-August 2018

Schedule 3
 Item 53.64(c)(1)

Volumes (Dth)

<u>Suppliers</u>	11/1/2017: Nov	12/1/2017: Dec	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
TR Spot	1,086,610	1,754,751	1,899,367	2,107,827	1,555,559	609,485	86,352	-	-	-
Supplier 1	-	-	-	-	-	-	-	-	-	-
Supplier 2	-	-	-	-	-	-	-	-	-	-
Supplier 3	-	-	-	-	-	-	-	-	-	-
Supplier 4	-	-	-	-	-	-	-	-	-	-
Supplier 5	-	-	-	-	-	-	-	-	-	-
Supplier 6	-	-	-	-	-	-	-	-	-	-
Supplier 7	-	-	-	-	-	-	-	-	-	-
Supplier 8	426,146	598,053	604,622	560,000	580,836	532,694	571,055	530,315	4,104	3,962
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	660,254	663,942	738,653	693,785	617,552	600,104	271,583	32,773	283	425
Supplier 23	-	-	-	-	-	-	-	-	-	-
Supplier 24	-	-	-	-	-	-	-	-	-	-
Supplier 25	-	-	-	-	-	-	-	-	-	-
Supplier 26	-	-	-	-	-	-	-	-	-	-
Supplier 27	-	-	-	-	-	-	-	-	-	-
Supplier 28	-	-	-	-	-	-	-	-	-	-
Supplier 29	-	-	-	-	-	-	-	-	-	-
Supplier 30	-	-	-	-	-	-	-	-	-	-
Supplier 31	-	-	-	-	-	-	-	-	-	-
Supplier 32	-	-	-	-	-	-	-	-	-	-
Total Volumes	2,173,010	3,016,746	3,242,642	3,361,612	2,753,947	1,742,283	928,990	563,088	4,387	4,387

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2017-August 2018

Schedule 3
 Item 53.64(c)(1)

	1/1/2017: Jan	2/1/2017: Feb	3/1/2017: Mar	4/1/2017: Apr	5/1/2017: May	6/1/2017: Jun	7/1/2017: Jul	8/1/2017: Aug	9/1/2017: Sep	10/1/2017: Oct
WSS										
Injection	\$ 94	\$ -	\$ -	\$ 2	\$ 2,940	\$ 4	\$ 4	\$ 4	\$ 4	\$ 3
Withdrawal	\$ 3,047	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699
Total Charges	\$ 57,840	\$ 54,699	\$ 54,699	\$ 54,700	\$ 57,638	\$ 54,702				
S2										
Injection	\$ -	\$ -	\$ -	\$ 997	\$ 3,336	\$ 11	\$ 12	\$ 12	\$ 3,197	\$ 9
Withdrawal	\$ 4,939	\$ 616	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 27,749	\$ 27,749	\$ 27,749	\$ 27,749	\$ 27,749	\$ 27,749	\$ 27,749	\$ 27,749	\$ 27,749	\$ 27,749
Total Charges	\$ 32,688	\$ 28,365	\$ 27,749	\$ 28,745	\$ 31,085	\$ 27,760	\$ 27,760	\$ 27,760	\$ 30,945	\$ 27,758
GSS										
Injection	\$ 342	\$ -	\$ -	\$ 17,351	\$ 32,734	\$ 29,188	\$ 242	\$ 242	\$ 29,188	\$ 15,980
Withdrawal	\$ 34,842	\$ 32,669	\$ 9,146	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 255,277	\$ 255,277	\$ 255,277	\$ 255,277	\$ 255,277	\$ 255,277	\$ 255,277	\$ 255,277	\$ 255,277	\$ 255,277
Total Charges	\$ 290,461	\$ 287,946	\$ 264,423	\$ 272,627	\$ 288,010	\$ 284,464	\$ 255,518	\$ 255,518	\$ 284,464	\$ 271,257
Total Injection Charges	\$ 436	\$ -	\$ -	\$ 18,349	\$ 39,010	\$ 29,203	\$ 257	\$ 257	\$ 32,388	\$ 15,993
Total Withdrawal Charge	\$ 42,829	\$ 33,286	\$ 9,146	\$ -						
Total Demand Charges	\$ 337,724									
Total Storage	\$ 380,989	\$ 371,009	\$ 346,870	\$ 356,073	\$ 376,734	\$ 366,926	\$ 337,981	\$ 337,981	\$ 370,112	\$ 353,717

Forecasted Summary of Firm Transportation

Demand Charges	\$ 2,222,811	\$ 2,222,326	\$ 2,162,684	\$ 2,162,198	\$ 2,161,725	\$ 2,161,251	\$ 2,160,764	\$ 2,160,235	\$ 2,159,817	\$ 2,159,441
Capacity Release Credit	\$ (74,884)	\$ (67,637)	\$ (74,896)	\$ (99,960)	\$ (103,292)	\$ (99,960)	\$ (103,292)	\$ (103,292)	\$ (82,770)	\$ (85,516)
Net Demand Charge	\$ 2,147,927	\$ 2,154,689	\$ 2,087,788	\$ 2,062,238	\$ 2,058,433	\$ 2,061,291	\$ 2,057,472	\$ 2,056,943	\$ 2,077,047	\$ 2,073,925

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2017-August 2018

Schedule 3
item 53.64(c)(1)

	11/1/2017: Nov	12/1/2017: Dec	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
WSS										
Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Withdrawal	\$ -	\$ -	\$ 6,188	\$ -	\$ -	\$ 969	\$ -	\$ -	\$ -	\$ -
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	\$ 60,887	\$ 54,699	\$ 54,699	\$ 55,668	\$ 54,699	\$ 54,699	\$ 54,699	\$ 54,699
S2										
Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Withdrawal	\$ -	\$ 1,233	\$ 1,233	\$ 1,656	\$ 411	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 27,749	\$ 27,749	\$ 27,749	\$ 27,749	\$ 27,749	\$ 27,749	\$ 27,749	\$ 27,749	\$ 27,749	\$ 27,749
Total Charges	\$ 27,749	\$ 28,981	\$ 28,981	\$ 29,405	\$ 28,160	\$ 27,749				
GSS										
Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,119	\$ 32,734	\$ 26,763	\$ 210	\$ 210
Withdrawal	\$ -	\$ 21,959	\$ 45,762	\$ 31,832	\$ 8,127	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 255,277	\$ 255,277	\$ 255,277	\$ 255,277	\$ 255,277	\$ 255,277	\$ 255,277	\$ 255,277	\$ 255,277	\$ 255,277
Total Charges	\$ 255,277	\$ 277,235	\$ 301,038	\$ 287,108	\$ 263,403	\$ 272,396	\$ 288,010	\$ 282,040	\$ 255,487	\$ 255,487
Total Injection Charges	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,119	\$ 32,734	\$ 26,763	\$ 210	\$ 210
Total Withdrawal Charge	\$ -	\$ 23,191	\$ 53,183	\$ 33,488	\$ 8,538	\$ 969	\$ -	\$ -	\$ -	\$ -
Total Demand Charges	\$ 337,724	\$ 337,724	\$ 337,724	\$ 337,724	\$ 337,724	\$ 337,724	\$ 337,724	\$ 337,724	\$ 337,724	\$ 337,724
Total Storage	\$ 337,724	\$ 360,915	\$ 390,906	\$ 371,211	\$ 346,261	\$ 355,812	\$ 370,458	\$ 364,487	\$ 337,934	\$ 337,934

Forecasted Summary of Firm Transportation

Demand Charges	\$ 2,159,065	\$ 2,217,811	\$ 2,217,449	\$ 2,217,073	\$ 2,157,492	\$ 2,157,116	\$ 2,156,740	\$ 2,156,364	\$ 2,155,988	\$ 2,155,626
Capacity Release Credit	\$ (49,306)	\$ (74,884)	\$ (74,884)	\$ (67,637)	\$ (74,884)	\$ (99,705)	\$ (103,028)	\$ (99,705)	\$ (103,028)	\$ (103,028)
Net Demand Charge	\$ 2,109,759	\$ 2,142,928	\$ 2,142,566	\$ 2,149,437	\$ 2,082,608	\$ 2,057,411	\$ 2,053,711	\$ 2,056,659	\$ 2,052,959	\$ 2,052,597

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2017-August 2018

Schedule 3
 Item 53.64(c)(1)

Cost of Natural Gas

<u>Suppliers</u>	<u>1/1/2017: Jan</u>	<u>2/1/2017: Feb</u>	<u>3/1/2017: Mar</u>	<u>4/1/2017: Apr</u>	<u>5/1/2017: May</u>	<u>6/1/2017: Jun</u>	<u>7/1/2017: Jul</u>	<u>8/1/2017: Aug</u>	<u>9/1/2017: Sep</u>	<u>10/1/2017: Oct</u>
TE Spot	\$ 252,240	\$ 8,071,944	\$ 8,929,672	\$ 5,905,647	\$ 5,934,042	\$ 4,130,259	\$ 3,314,838	\$ 2,198,182	\$ 6,644,264	\$ 6,190,041
Supplier 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 3	\$ 592,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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	\$ 1,054,775	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 19	\$ 592,875	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 24	\$ 2,116,560	\$ 439,660	\$ 353,070	\$ 794,348	\$ 1,168,685	\$ 442,960	\$ 463,875	\$ 494,035	\$ 533,270	\$ 551,360
Supplier 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 26	\$ 2,435,237	\$ 367,375	\$ 178,620	\$ 212,868	\$ 557,399	\$ -	\$ -	\$ 149,250	\$ 157,757	\$ 289,072
Supplier 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 28	\$ 1,057,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 31	\$ 593,650	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub Total	\$ 8,694,537	\$ 8,878,979	\$ 9,461,362	\$ 6,912,862	\$ 7,660,127	\$ 4,573,219	\$ 3,778,713	\$ 2,841,467	\$ 7,335,291	\$ 7,030,473
Transportation Costs										
TE Spot	\$ 140,142	\$ 142,563	\$ 153,142	\$ 111,321	\$ 123,474	\$ 72,712	\$ 59,303	\$ 44,596	\$ 109,669	\$ 104,654
Total TE	\$ 140,142	\$ 142,563	\$ 153,142	\$ 111,321	\$ 123,474	\$ 72,712	\$ 59,303	\$ 44,596	\$ 109,669	\$ 104,654
Total Costs	\$ 8,834,680	\$ 9,021,542	\$ 9,614,504	\$ 7,024,184	\$ 7,783,601	\$ 4,645,931	\$ 3,838,015	\$ 2,886,063	\$ 7,444,960	\$ 7,135,126

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2017-August 2018

Schedule 3
 item 53.64(c)(1)

Cost of Natural Gas

<u>Suppliers</u>	<u>11/1/2017: Nov</u>	<u>12/1/2017: Dec</u>	<u>1/1/2018: Jan</u>	<u>2/1/2018: Feb</u>	<u>3/1/2018: Mar</u>	<u>4/1/2018: Apr</u>	<u>5/1/2018: May</u>	<u>6/1/2018: Jun</u>	<u>7/1/2018: Jul</u>	<u>8/1/2018: Aug</u>
TE Spot	\$ 7,324,587	\$ 10,267,387	\$ 10,911,152	\$ 9,727,451	\$ 9,660,652	\$ 4,632,019	\$ 4,267,007	\$ 3,375,618	\$ 1,935,235	\$ 1,923,748
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	\$ 543,130	\$ 656,562	\$ 526,185	\$ 469,390	\$ 683,131	\$ 642,842	\$ 544,663	\$ 391,660	\$ 433,975	\$ 432,655
Supplier 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 26	\$ 716,850	\$ 165,000	\$ -	\$ -	\$ 325,300	\$ 467,583	\$ 322,750	\$ -	\$ 131,050	\$ 130,650
Supplier 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub Total	\$ 8,584,567	\$ 11,088,949	\$ 11,437,337	\$ 10,196,841	\$ 10,669,083	\$ 5,742,443	\$ 5,134,420	\$ 3,767,278	\$ 2,500,260	\$ 2,487,053

Transportation Costs

TE Spot	\$ 125,991	\$ 156,457	\$ 155,342	\$ 142,060	\$ 152,712	\$ 101,270	\$ 93,016	\$ 67,779	\$ 44,687	\$ 44,587
Total TE	\$ 125,991	\$ 156,457	\$ 155,342	\$ 142,060	\$ 152,712	\$ 101,270	\$ 93,016	\$ 67,779	\$ 44,687	\$ 44,587
Total Costs	\$ 8,710,558	\$ 11,245,407	\$ 11,592,679	\$ 10,338,901	\$ 10,821,795	\$ 5,843,713	\$ 5,227,436	\$ 3,835,057	\$ 2,544,947	\$ 2,531,640

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2017-August 2018

Schedule 3
 item 53.64(c)(1)

Volumes

Suppliers

	<u>1/1/2017: Jan</u>	<u>2/1/2017: Feb</u>	<u>3/1/2017: Mar</u>	<u>4/1/2017: Apr</u>	<u>5/1/2017: May</u>	<u>6/1/2017: Jun</u>	<u>7/1/2017: Jul</u>	<u>8/1/2017: Aug</u>	<u>9/1/2017: Sep</u>	<u>10/1/2017: Oct</u>
TE Spot	74,079	2,746,493	3,062,302	2,033,625	2,045,516	1,403,418	1,111,243	736,409	2,124,125	1,970,096
Supplier 1	-	-	-	-	-	-	-	-	-	-
Supplier 2	-	-	-	-	-	-	-	-	-	-
Supplier 3	155,000	-	-	-	-	-	-	-	-	-
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	310,000	-	-	-	-	-	-	-	-	-
Supplier 17	-	-	-	-	-	-	-	-	-	-
Supplier 18	-	-	-	-	-	-	-	-	-	-
Supplier 19	155,000	-	-	-	-	-	-	-	-	-
Supplier 20	-	-	-	-	-	-	-	-	-	-
Supplier 21	-	-	-	-	-	-	-	-	-	-
Supplier 22	-	-	-	-	-	-	-	-	-	-
Supplier 23	-	-	-	-	-	-	-	-	-	-
Supplier 24	765,000	190,000	165,000	273,016	402,336	150,000	155,000	165,000	170,000	175,000
Supplier 25	-	-	-	-	-	-	-	-	-	-
Supplier 26	905,000	125,000	61,255	73,301	192,140	-	-	50,000	50,434	92,003
Supplier 27	-	-	-	-	-	-	-	-	-	-
Supplier 28	310,000	-	-	-	-	-	-	-	-	-
Supplier 29	-	-	-	-	-	-	-	-	-	-
Supplier 30	-	-	-	-	-	-	-	-	-	-
Supplier 31	155,000	-	-	-	-	-	-	-	-	-
Total	2,829,079	3,061,493	3,288,557	2,379,942	2,639,992	1,553,418	1,266,243	951,409	2,344,559	2,237,098

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2017-August 2018

Schedule 3
 Item 53.64(c)(1)

Volumes

Suppliers

	<u>11/1/2017: Nov</u>	<u>12/1/2017: Dec</u>	<u>1/1/2018: Jan</u>	<u>2/1/2018: Feb</u>	<u>3/1/2018: Mar</u>	<u>4/1/2018: Apr</u>	<u>5/1/2018: May</u>	<u>6/1/2018: Jun</u>	<u>7/1/2018: Jul</u>	<u>8/1/2018: Aug</u>
TE Spot	2,298,991	3,111,329	3,223,383	2,910,668	2,969,767	1,746,613	1,652,598	1,297,816	738,357	736,222
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	170,000	198,501	155,000	140,000	209,536	241,829	210,361	150,000	165,000	165,000
Supplier 25	-	-	-	-	-	-	-	-	-	-
Supplier 26	225,000	50,000	-	-	100,000	176,313	125,000	-	50,000	50,000
Supplier 27	-	-	-	-	-	-	-	-	-	-
Supplier 28	-	-	-	-	-	-	-	-	-	-
Supplier 29	-	-	-	-	-	-	-	-	-	-
Supplier 30	-	-	-	-	-	-	-	-	-	-
Supplier 31	-	-	-	-	-	-	-	-	-	-
Total	2,693,991	3,359,830	3,378,383	3,050,668	3,279,303	2,164,756	1,987,959	1,447,816	953,357	951,222

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2017-August 2018

Schedule 3
 Item 53.64(c)(1)

Storage

	1/1/2017: Jan	2/1/2017: Feb	3/1/2017: Mar	4/1/2017: Apr	5/1/2017: May	6/1/2017: Jun	7/1/2017: Jul	8/1/2017: Aug	9/1/2017: Sep	10/1/2017: Oct
SSIA										
Injections	\$ 2,147	\$ -	\$ -	\$ 3,456	\$ 10,162	\$ 1,041	\$ 50	\$ 50	\$ 12,343	\$ 4,808
Withdrawal	\$ 29,751	\$ 10,646	\$ 694	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522
Demand	\$ 213,289	\$ 213,289	\$ 213,289	\$ 213,289	\$ 213,289	\$ 213,289	\$ 213,289	\$ 213,289	\$ 213,289	\$ 213,289
Total Charges	\$ 273,709	\$ 252,457	\$ 242,505	\$ 245,268	\$ 251,973	\$ 242,853	\$ 241,862	\$ 241,862	\$ 254,155	\$ 246,620
SSIB										
Injections	\$ 576	\$ -	\$ -	\$ 3,700	\$ 10,375	\$ 818	\$ 47	\$ 47	\$ 11,656	\$ 2,786
Withdrawal	\$ 22,656	\$ 8,310	\$ 1,964	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529
Demand	\$ 100,809	\$ 100,809	\$ 100,809	\$ 100,809	\$ 100,809	\$ 100,809	\$ 100,809	\$ 100,809	\$ 100,809	\$ 100,809
Total Charges	\$ 150,570	\$ 135,648	\$ 129,302	\$ 131,038	\$ 137,713	\$ 128,156	\$ 127,385	\$ 127,385	\$ 138,994	\$ 130,125
GSSTE										
Injections	\$ -	\$ -	\$ -	\$ 8,054	\$ 18,304	\$ 15,053	\$ 8,381	\$ 140	\$ 15,053	\$ 7,497
Injections/Retention F	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Withdrawal	\$ 12,495	\$ 7,465	\$ 2,692	\$ 515	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825
Demand	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610
Total Charges	\$ 132,930	\$ 127,900	\$ 123,127	\$ 129,005	\$ 138,739	\$ 135,488	\$ 128,816	\$ 120,575	\$ 135,488	\$ 127,932
Total Injection Charges	\$ 2,723	\$ -	\$ -	\$ 15,210	\$ 38,841	\$ 16,912	\$ 8,478	\$ 237	\$ 39,052	\$ 15,091
Total Injections/Retention	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Withdrawal Charge	\$ 64,902	\$ 26,420	\$ 5,350	\$ 515	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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	\$ 377,708	\$ 377,708	\$ 377,708	\$ 377,708	\$ 377,708	\$ 377,708	\$ 377,708	\$ 377,708	\$ 377,708	\$ 377,708
	\$ 557,209	\$ 516,005	\$ 494,935	\$ 505,311	\$ 528,426	\$ 506,497	\$ 498,063	\$ 489,822	\$ 528,637	\$ 504,676

Forecasted Summary of Firm Transportation

Texas Eastern Demand	\$ 2,130,343	\$ 2,134,596	\$ 2,134,080	\$ 2,133,549	\$ 2,133,034	\$ 2,132,518	\$ 2,131,988	\$ 2,131,411	\$ 2,130,956	\$ 2,130,547
Capacity Release Credits	\$ (173,790)	\$ (156,971)	\$ (173,819)	\$ (591,843)	\$ (611,571)	\$ (591,843)	\$ (611,571)	\$ (611,571)	\$ (490,065)	\$ (506,321)
Net Total	\$ 1,956,553	\$ 1,977,624	\$ 1,960,262	\$ 1,541,706	\$ 1,521,463	\$ 1,540,675	\$ 1,520,416	\$ 1,519,840	\$ 1,640,892	\$ 1,624,226
Total Demand Charges	\$ 1,956,553	\$ 1,977,624	\$ 1,960,262	\$ 1,541,706	\$ 1,521,463	\$ 1,540,675	\$ 1,520,416	\$ 1,519,840	\$ 1,640,892	\$ 1,624,226

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2017-August 2018

Schedule 3
 Item 53.64(c)(1)

Storages

	11/1/2017: Nov	12/1/2017: Dec	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
SS1A										
Injections	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3	\$ 1,205	\$ 6	\$ 6	\$ 6
Withdrawal	\$ 3,678	\$ 5,310	\$ 9,425	\$ 10,203	\$ 763	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522
Demand	\$ 213,289	\$ 213,289	\$ 213,289	\$ 213,289	\$ 213,289	\$ 213,289	\$ 213,289	\$ 213,289	\$ 213,289	\$ 213,289
Total Charges	\$ 245,489	\$ 247,122	\$ 251,237	\$ 252,014	\$ 242,575	\$ 241,814	\$ 243,017	\$ 241,817	\$ 241,817	\$ 241,817
SS1B										
Injections	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2	\$ 1,364	\$ 4	\$ 4	\$ 4
Withdrawal	\$ 4,242	\$ 4,774	\$ 6,159	\$ 8,405	\$ 1,824	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529
Demand	\$ 100,809	\$ 100,809	\$ 100,809	\$ 100,809	\$ 100,809	\$ 100,809	\$ 100,809	\$ 100,809	\$ 100,809	\$ 100,809
Total Charges	\$ 131,580	\$ 132,112	\$ 133,497	\$ 135,743	\$ 129,162	\$ 127,340	\$ 128,703	\$ 127,342	\$ 127,342	\$ 127,342
GSSTE										
Injections	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,829	\$ 16,882	\$ 13,806	\$ 107	\$ 107
Injections/Retention F.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Withdrawal	\$ -	\$ 5,159	\$ 15,364	\$ 11,053	\$ 2,727	\$ 497	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825
Demand	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610	\$ 63,610
Total Charges	\$ 120,435	\$ 125,594	\$ 135,799	\$ 131,488	\$ 123,162	\$ 129,761	\$ 137,317	\$ 134,241	\$ 120,542	\$ 120,542
Total Injection Charges	\$ -	\$ 8,834	\$ 19,451	\$ 13,815	\$ 117	\$ 117				
Total Injections/Retention	\$ -									
Total Withdrawal Charge	\$ 7,920	\$ 15,243	\$ 30,948	\$ 29,661	\$ 5,314	\$ 497	\$ -	\$ -	\$ -	\$ -
Total Capacity Charges	\$ 111,877									
Total Demand Charges	\$ 377,708									
\$	\$ 497,505	\$ 504,828	\$ 520,533	\$ 519,246	\$ 494,899	\$ 498,916	\$ 509,036	\$ 503,400	\$ 489,702	\$ 489,702

Forecasted Summary of Firm Transportation

Texas Eastern Demand	\$ 2,130,138	\$ 2,129,683	\$ 2,129,288	\$ 2,128,879	\$ 2,128,424	\$ 2,128,015	\$ 2,127,605	\$ 2,127,196	\$ 2,126,787	\$ 2,126,392
Capacity Release Credits	\$ (191,346)	\$ (173,790)	\$ (173,790)	\$ (156,972)	\$ (173,790)	\$ (590,332)	\$ (610,010)	\$ (590,332)	\$ (610,010)	\$ (610,010)
Net Total	\$ 1,938,791	\$ 1,955,893	\$ 1,955,498	\$ 1,971,907	\$ 1,954,634	\$ 1,537,683	\$ 1,517,595	\$ 1,536,864	\$ 1,516,777	\$ 1,516,382
Total Demand Charges	\$ 1,938,791	\$ 1,955,893	\$ 1,955,498	\$ 1,971,907	\$ 1,954,634	\$ 1,537,683	\$ 1,517,595	\$ 1,536,864	\$ 1,516,777	\$ 1,516,382

Tab 5

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MAR - 3 2017

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

DIRECT TESTIMONY OF

KENNETH S. DYBALSKI

ON BEHALF OF
PHILADELPHIA GAS WORKS

Docket No. **R-2017-2587526**

Philadelphia Gas Works
Proposed 2017 Annual GCR Adjustment

March 1, 2017

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 2016 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-2016-2526700, R-2015-2465656, R-2014-2404355, R-2013-2346376, R-
6 2012-2286447, R-2011-2224739, R-2010-20157062, R-2009-2088076, and R-
7 2008-2021348. I have also submitted testimony in PGW's just filed base rate
8 proceeding and in PGW's previous base rate proceeding (Docket No. R-2009-
9 2139884) and PGW's 2008 Extraordinary Rate Request (Docket No. R-2008-
10 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, 2016 was \$4.2026 / Mcf and this rate was
27 decreased in the Company's first quarterly GCR filing on December 1, 2016 to
28 \$4.1577 / Mcf. PGW's second quarter GCR filing, also submitted to the PUC
29 concurrently with this filing, increases the GCR to \$4.9430 effective March 1,
30 2017. The proposed rate to be effective September 1, 2017 is \$4.8152.

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

A. Tab 2 of this filing contains the schedules supporting the filing requirements of Section 53.64 (a) for the proposed GCR for the period September 1, 2017 through August 31, 2018.

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

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

Schedule 3 identifies the Projected Applicable Fuel Expense. Specifically, this schedule identifies PGW's Net Natural Gas Expense and Total Applicable Expenses. To arrive at the Net Natural Gas Expense, the total cost of commodity and pipeline charges for firm sales are calculated per month. Two credits are then

1 applied for the portion of gas costs recovered from PGW's Interruptible Sales
2 customers (i.e. the "Interruptible & A/C Credit") and for gas used by PGW (i.e.
3 "Gas Used by Utility"). Next, the Company calculates the net effect of gas
4 supplies being transferred into and out of storage and LNG. The result is the Net
5 Natural Gas Expense. To arrive at the Total Applicable Expenses in Schedule 3,
6 the fuel expenses for Purchased Electric and miscellaneous are added to the Net
7 Natural Gas Expenses to arrive at Total Applicable Expenses.

8
9 Schedule 4(a) is the actual/estimated data for FY 17. Schedule 4(b) is the C factor
10 Reconciliation for FY 17. Schedule 4(c) is the E factor Reconciliation for FY 17.
11 Schedule 4(d) is the IRC Revenue Billed for FY 17. Schedule 4(e) is the
12 Reconciliation of Demand Charges for FY 17.

13
14 Schedule 5(a) ("Interest Rate Calculation") provides the interest rate for the
15 over/under recovery and is calculated on the over/under recovery in calendar year
16 2016. Schedule 5(b) ("Interest Calculation") provides the calculation of the
17 interest expense or credit for the period of September 2016 through August 2017
18 for the under/over recovery of fuel costs and the interest for the natural gas
19 refunds. Schedule 5(b1) is the interest adjustment calculation for the period of
20 January, 2016 through August 2016. Schedule 5(c) ("Interest on Natural Gas
21 Refunds") provides information on historic refunds that have been received by the
22 Company resulting from various cases before the Federal Energy Regulatory
23 Commission and the interest on these refunds. Schedule 5(d) provides the
24 calculation of the interest for the demand and commodity charges.

25
26 Schedule 6 presents the load balancing revenue for the forecast period of
27 September 2017 to August 2018.

28
29 Schedule 7 calculates total projected recovery with the proposed GCR.
30

1 Schedule 8 shows the changes in rates identifying the proposed changes to the
2 GCR and distribution charge and the impact on the proposed total commodity
3 rate.

4
5 Schedule 9(a) shows the calculation of the Universal Service & Energy
6 Conservation Surcharge to be effective September 1, 2017. Schedule 9(b) is the
7 reconciliation of the Universal Service & Energy Conservation Surcharge for
8 period of September 2016 to August 2017.

9
10 Schedule 10(a) shows the calculation of the Interruptible Revenue Credit to be
11 effective September 1, 2017. Schedule 10(b) is the forecasted Interruptible
12 Revenue Margin for Fiscal Year 2018. Schedule 10(c) is the reconciliation of the
13 Interruptible Revenue Credit for Fiscal Year 2016.

14
15 Schedule 11(a) shows the calculation of the Other Post Employment Benefit
16 (OPEB) Surcharge to be effective September 1, 2017. Schedule 11(b) is the
17 reconciliation of the OPEB Surcharge for Fiscal Year 2016.

18
19 Schedule 12(a) shows the calculation of the Efficiency Cost Recovery Surcharge
20 to be effective September 1, 2017. Schedule 12(b) shows the reconciliation of the
21 Efficiency Cost Recovery Surcharge for the Fiscal Year 2017.

22
23 Schedule 13(a) is the calendar year 2016 reconciliation of the Supplier and
24 Storage Peaking Charge (SSPC) and Schedule 13(b) is the 2016 SSPC expense
25 and interest calculation.

26
27 Schedule 14 sets the load balancing charge to be effective September 1, 2017.

28
29 Schedule 15 identifies the natural gas prices that were used in the preparation of
30 this filing.

1 Schedule 16 is the annual reconciliation of its retainage rate and lost and
2 unaccounted for rate.

3
4 Schedule 17(a) is the Restructuring and Consumer Education Surcharge and
5 Schedule 17(b) is the Restructuring and Consumer Education Expense.

6
7 **Q. WHAT IS THE TIME PERIOD FOR FORECASTING PGW'S FUTURE**
8 **GAS COSTS?**

9
10 A. PGW's forecast period is a twenty (20) month period that commences on January
11 1, 2017 (two months before this filing) and eight months before the effective date
12 of the tariff on September 1, 2017. The 2017-18 GCR year is from September 1,
13 2017 to August 31, 2018, however, since the required forecast covers 20 months,
14 it must begin eight months earlier, consistent with Commission regulations.

15
16 **Q. PLEASE PROVIDE A GENERAL DESCRIPTION OF PGW'S RATE**
17 **DESIGN AND GCR CALCULATION METHODOLOGY.**

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

1
2 The second element of the rate is the Gas Cost Rate or GCR factor. This charge is
3 a mechanism used to flow through the costs of natural gas costs and other raw
4 materials in a timely and equitable manner. The specific elements of PGW's
5 GCR are set forth in PGW's Tariff.

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

28
29 Only costs related to meeting customer sendout requirements, including
30 associated plant fuel, may be included as a fuel expense for GCR purposes.

1 Purchases diverted into storage and/or LNG become an expense only when
2 withdrawn for customer delivery. Costs associated with purchases made to supply
3 interruptible customers are excluded from the Total Applicable GCR Expenses
4 used to calculate the GCR. Also, demand costs for pipeline transportation for the
5 firm transportation customers are excluded from the GCR.

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

16
17 To determine the unit level of the GCR, the remaining total expenses must be
18 divided by the sum of the volumes over which they can be effectively distributed.

19
20 **Q. WHAT IS THE BASIS FOR THE PRICES USED IN DETERMINING THE**
21 **GAS COSTS USED IN THIS FILING?**

22
23 A. The pricing methodology utilized by the Company is consistent with that used in
24 the recent quarterly filings with the inclusion of the additional months in the 20-
25 month forecast. Specifically, the company utilized actual prices for January 2017
26 and the NYMEX Futures close data (as of January 13, 2017) for the 19 forecast
27 months of February 2017 through August 2018.

28

1 **Q. HOW DOES THE GCR FOR THE FORECAST PERIOD COMPARE**
2 **WITH THE GCR FORECASTED IN THE COMPANY'S LAST ANNUAL**
3 **GCR FILING?**

4
5 A. The GCR forecasted for 2017-2018 is higher than the level PGW had forecasted
6 for the 2016-2017 GCR. The level of costs in the 2017-2018 period are being
7 influenced by the increase in prices for natural gas compared to the prior year.

8
9
10 **Q. DESCRIBE THE LEVEL OF HEATING DEGREE-DAYS THAT WERE**
11 **USED IN YOUR ANALYSIS.**

12
13 A. The Company utilizes the temperatures recorded at the PGW Richmond Plant to
14 calculate the average temperature for a given day. The Company subtracts the
15 average temperature from 65 degrees to calculate the number of degree-days for
16 the day. The degree-days for all of the days in the year are aggregated to arrive at
17 the total number of degree-days for the year. Next, the Company calculates the
18 average heating degree-days for the past 10 years to arrive at the forecasted
19 heating degree-days in a normal year and in this filing PGW is using the 10 year
20 average of 3,855 degree days.

21
22 **Q. HOW HAS THE COMPANY CALCULATED THE NUMBER OF**
23 **CUSTOMERS IN EACH RATE CLASS?**

24
25 A. PGW determined the actual number of customer billings on December 31, 2016
26 using the PGW Gas Sales and Revenue Reports. Next, the Marketing Department
27 load forecast was used to factor in the addition and loss of customers. Finally, the
28 customer numbers were adjusted for the loss of customers due to non-payment
29 terminations.

30

1 **Q. WHAT IS THE METHODOLOGY FOR CALCULATING THE WEATHER**
2 **NORMALIZED BILLED SALES?**

3
4 A. PGW used a two step process to arrive at the appropriate level of usage
5 per customer. First, a trial domestic factor is developed by class of
6 customers from sales reported for the previous year's summer months.
7 This average factor is then utilized in the sendout formula with the
8 customer counts for the months of July, August and September. A
9 comparison between what the formula calculates and the actual
10 experienced for those three months is ascertained and the trial domestic
11 factors are finalized to replicate the total sendout experienced. The
12 finalized domestic factors (DOMS) are then utilized in conjunction with
13 the actual sales and customer counts for the months of December,
14 January and February to determine the average Mcf per degree day for
15 each of the individual months for the remaining temperature sensitive
16 load. The results are weighted by degree-days to give an average value
17 which is utilized as a trial value for the heating factor.

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

27
28 Utilizing these domestic and heating factors, billed sales are then
29 forecasted using 3,855 degree days and the number of customers.
30

1 **Q. WHAT IS THE UNACCOUNTED FOR GAS PERCENTAGE USED IN**
2 **THIS FILING?**

3

4 A. The level of unaccounted for gas and retainage rate used in this filing is 3.2 % and
5 is based on a 3-year average.

6

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

10

11 A. PGW has projected that the amount of off system sales, capacity release credits,
12 and asset management credits within the GCR period of 2017-18. This amount is
13 based on a 3 year average. Of that amount \$5,895,143 (75%) was credited to the
14 GCR.

15

16

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

19

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

24

25 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

26

27 A. Yes.

Tab 6

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PA PUBLIC UTILITIES COMMISSION
SECRETARY'S BUREAU

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

DIRECT TESTIMONY OF

RAYMOND M. SNYDER

ON BEHALF OF
PHILADELPHIA GAS WORKS

Docket Number R-2017-2587526

Philadelphia Gas Works
Proposed 2016 Annual GCR Adjustment

March 1, 2017

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 and R-2016-2526700.

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

17 A. My testimony discusses:

- 18 • PGW's gas purchasing policies and strategies applicable to FY 2018 (September
19 1, 2017 through August 31, 2018) and FY 2017 (September 1, 2016 through
20 August 31, 2017);
- 21 • PGW's design day requirement;
- 22 • Capacity release, off-system sales and asset management fee sharing and
- 23 • Price analysis and buying advisory service

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

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

Q. PLEASE IDENTIFY PGW'S CURRENT INTERSTATE SUPPLIERS.

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

II. GAS PURCHASING POLICIES AND SUPPLY STRATEGY

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

A. Yes.

Q. PLEASE DESCRIBE PGW'S SUPPLY STRATEGY.

1 A. PGW's supply strategy¹ (which is currently being used during the FY 2017 GCR period
2 and which the Company intends to use for the FY 2018 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
22 PGW's Gas Planning Department also runs a supply status model during the winter
23 operating season which recognizes normal and design winter conditions and the latest
24 actual balance of gas in all storage facilities. Gas Management utilizes the output of this

1 model to make recommendations or changes in its supply operating strategy to ensure
2 that peak day needs and design winter conditions can be met from that point forward.

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

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

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

11
12 A. Yes. The 2015-2016 gas costs and the gas costs incurred to date during the 2016-2017
13 period are the result of the least cost gas procurement strategy outlined in my testimony
14 and are therefore reasonable.

15
16 **III. DESIGN DAY REQUIREMENT**

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

18 A. Details of PGW's design day methodology and an account of the 2016/2017 winter
19 design day requirement can be found in the responses to items 53.64 (c)(13) and
20 53.64(c)(14) which were provided in PGW's February 1, 2017 GCR Filing.

21
22 **IV. CAPACITY RELEASE, OFF-SYSTEM SALES MARGIN AND ASSET**
23 **MANAGEMENT CREDITS/FEEES**

24
25 **Q. HAS PGW BEEN RETAINING A PORTION OF NET PROCEEDS FROM**
26 **CAPACITY RELEASE CREDITS, OFF-SYSTEM SALES MARGIN AND**
27 **ASSET MANAGEMENT CREDITS/FEEES?**
28

1 A. Yes. During the 2008-2009 GCR proceeding (Docket No. R-2008-2021348), the parties
 2 agreed that PGW will retain 25% of all off-system sales margins and capacity release
 3 credits with the remaining 75% applied as an offset to purchased gas costs for the
 4 retention period of September 1, 2008 to August 31, 2011. Likewise, the parties agreed
 5 that PGW will retain 25% of all off-system sales margins, capacity release credits and
 6 asset management margins/credits/fees² with the remaining 75% applied as an offset to
 7 purchased gas costs for the following GCR proceedings and retention periods:

GCR Proceeding	Docket No.	Retention Period
2012-2013	R-2012-2286447	9/1/12 to 8/31/13
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 8/31/16

8
 9 The Company also agreed to include an off-system sales margin, capacity release credit
 10 and asset management margins/credits/fees retention proposal for the Purchased Gas Cost
 11 period(s) beginning on September 1, 2016 in its March 1, 2016 annual 1307(f) filing.

12 **Q. DOES PGW HAVE A RETENTION PROPOSAL FOR THE PGC PERIODS**
 13 **BEGINNING ON SEPTEMBER 1, 2017?**
 14

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

4 **Q. DO OTHER PENNSYLVANIA NATURAL GAS DISTRIBUTION COMPANIES**
5 **(“NGDCs”) HAVE SHARING MECHANISMS FOR CAPACITY RELEASE AND**
6 **OFF SYSTEM SALES CREDITS?**
7

8 A. Yes. Please see Exhibit RMS-1 for a chart which provides a description of the sharing
9 mechanisms currently in place. Six of the largest NGDCs have sharing mechanisms
10 similar to PGW’s and the sharing percentage for all of the NGDCs is 25%.

11 **Q. HOW ARE SHARING MECHANISMS BENEFICIAL TO BOTH RATEPAYERS**
12 **AND UTILITES?**
13

14 A. The ratepayers and the utility receive benefit from the policy because it creates an
15 incentive to maximize efforts to make off system sales and capacity release transactions,
16 thereby increasing the amounts applied to the gas cost rate and the lesser portion retained
17 by the utility.
18

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

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

23 A. Yes. It does; it utilizes a firm called Plananytics to provide such services.

24 **Q. WHAT TYPES OF SERVICES DOES PLANANYTICS PROVIDE TO PGW?**
25 A. Plananytics provides the following services:

- 26 • Price feed from Nymex and Globex for natural gas, crude oil, heating oil and
27 RBOB (reformulated gasoline);
28 • Buying suggestions up to 18 months in the future;

- 1 • A charting tool for technical analysis;
- 2 • Short and medium range weather forecasts;
- 3 • Weather alerts (issued in advance of significant weather events);
- 4 • Planalytic's pre-season hurricane forecast and in-season updates; and
- 5 • Additional energy buyer features include reporting (i.e. mark-to-market,
- 6 transaction history, etc.) and portfolio/hedging parameters.

7 **Q. WHAT WAS INCORPORATED INTO PGW'S 2016-2017 GCR PROCEEDING**
8 **SETTLEMENT AGREEMENT WITH REGARD TO THE PLANANLYTICS**
9 **ENERGY BUYER SERVICES?**

10 A. PGW agreed to the following:

11 PGW is permitted to recover the Planalytics fee for price analysis and buying
12 advisory services (not to exceed \$125,000) for the 2016-2017 GCR period.
13 Continued recovery of the fee beyond the 2016-2017 GCR period must be
14 addressed in next year's Purchased Gas Cost proceeding.
15

16 **Q. DOES PGW WISH TO CONTINUE THE PLANALYTICS BUYING ADVISORY**
17 **SERVICES?**

18 A. Yes. The Planalytics' service provides a comprehensive amount of information that the
19 Company finds useful in the procurement of all gas supply. Nonetheless, PGW
20 understands that it must reach a new agreement as to the continuing recovery of the
21 Planalytics fee and the Company looks forward to discussing this issue with the parties
22 involved in this year's proceeding.
23

24 **VII. TRANSCO ESS STORAGE**

25 **Q. HAS PGW TERMINATED ANY STORAGE CONTRACTS IN THE 2016-2017**
26 **GCR PERIOD?**

27 A. Yes, the Company terminated two storage contracts with Transco. PGW sent
28 Termination Notices to Transco on 9/15/2015. The schedule below details the terms and

1 conditions of the ESS storage contract agreements. The Termination Notice applies to
2 Contract No. 1039085 which terminated on 3/31/2016 and Contract No. 1010416 which
3 terminated on 10/31/2016.

	<u>Contract No. 1039085 (Volumes)</u>		<u>Contract No. 1010416 (Volumes)</u>
6	Capacity	439,455	Capacity 323,416
7	Demand	52,077	Demand 38,327
8	Injection	4,346	Injection 3,198

9 **Q. WHY DID PGW TERMINATE THE TRANSCO STORAGE CONTRACT?**

10 A. PGW conducts annual reviews of pipeline and storage contracts to evaluate need with
11 respect to supply security and cost. The two Transco ESS contracts are unbundled
12 storages. The primary benefits of these contracts were for supply security in the event of
13 supply interruptions due to hurricanes in the gulf producing region and second, for
14 summer price advantages. Because of the shift in producing regions that now include
15 proven supply from the Appalachia region, the risk of supply interruptions from gulf
16 hurricanes has been mitigated.. Secondly, the ESS contracts had become PGW's highest
17 unit cost storages, offsetting the summer price advantages.

18
19 **VIII. HAS PGW IMPLEMENTED A NEW INTEGRATED GAS MANAGEMENT**
20 **SYSTEM (IGMS) THAT WILL IMPROVE INFORMATION AND FLEXIBILITY**
21 **FOR THIRD PARTY SUPPLIERS, INCLUDING THE FUTURE POTENTIAL TO**
22 **TRADE POOL IMBALANCES?**

23 A. PGW is in the process of testing the retail operations module of the new IGMS. In service
24 date is expected in the summer of 2017. The new application will have the ability, with some
25 added configuration, to allow third party suppliers to trade pool imbalances

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A.

Month	Load	Delivery	Imbalance	Position	Band 1 Charges	Band 2 Charges	Total Cashout	Average Cashout Price
Sep-14	733,134	737,228	4,094.00	Oversupply	\$ (4,275.41)	\$ (2,686.61)	\$ (6,962.03)	\$ 1.70
Oct-14	835,028	842,048	7,020.00	Oversupply	\$ (14,392.13)	\$ -	\$ (14,392.13)	\$ 2.05
Nov-14	1,292,558	1,300,370	7,812.00	Undersupply	\$ (49,874.08)	\$ 50,325.78	\$ 451.70	\$ 0.06
Dec-14	1,575,568	1,603,214	27,646.00	Oversupply	\$ (77,105.43)	\$ (1,782.76)	\$ (78,888.19)	\$ 2.85
Jan-15	1923613	1922379	-1,234.00	Undersupply	\$ 6,108.90	\$ -	\$ 6,108.90	\$ 4.95
Feb-15	2064002	2079656	15,654.00	Oversupply	\$ (216,520.39)	\$ 80,671.58	\$ (135,848.82)	\$ 8.68
Mar-15	1595494	1,593,228	-2,266.00	Undersupply	\$ 7,245.35	\$ -	\$ 7,245.35	\$ 3.20
Apr-15	1072081	1,073,614	1,533.00	Oversupply	\$ 3,883.79	\$ (3,897.78)	\$ (13.99)	\$ 0.01
May-15	748175	754,659	6,484.00	Oversupply	\$ (7,391.85)	\$ (3,255.57)	\$ (10,647.42)	\$ 1.64
Jun-15	716877	723,603	6,726.00	Oversupply	\$ (11,342.36)	\$ (688.75)	\$ (12,031.11)	\$ 1.79
Jul-15	709652	703,926	-5,726.00	Undersupply	\$ 8,791.27	\$ 2,343.92	\$ 11,135.19	\$ 1.94
Aug-15	729,771	737,131	7,360.00	Oversupply	\$ (11,491.71)	\$ (1,118.04)	\$ (12,609.75)	\$ 1.71
TOTAL	13,995,953	14,071,056	-75,103	Oversupply	\$ (366,364.07)	\$ 119,911.76	\$ (246,452.31)	\$ 3.28

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8
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10 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

11 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 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities).

3/1/2017

Dated



Raymond M. Snyder

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MAR - 8 2017

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

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MAR 03 2017

CERTIFICATE OF SERVICE

PA PUBLIC UTILITY COMMISSION
SECRETARY'S OFFICE

I hereby certify that this day I served a copy of PGW's PGW's March 1, 2017, 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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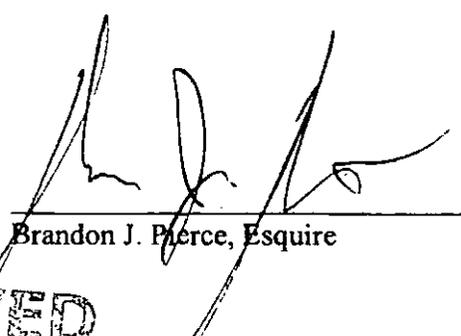
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