



Eckert Seamans Cherin & Mellott, LLC
213 Market Street
8th Floor
Harrisburg, PA 17101

TEL: 717 237 6000
FAX: 717 237 6019

Kristine E. Marsilio
717.237.6037
kmarsilio@eckertseamans.com

March 1, 2022

Via Federal Express

Rosemary Chiavetta, Secretary
PA Public Utility Commission
P.O. Box 3265
Harrisburg, PA 17105-3265

Re: Philadelphia Gas Works 2021-2022 1307(f) Gas Cost Rate Filing
Docket No. R-2022-3030686

Dear Secretary Chiavetta:

On behalf of Philadelphia Gas Works ("PGW"), enclosed for filing is the original of PGW's March 1, 2022 Section 1307(f) Gas Cost Rate Filing. This filing contains:

- Supplement No. 149 to PGW's Gas Service Tariff – Pa P.U.C. No. 2;
- Supplement No. 100 to PGW's Gas Supplier Tariff – Pa P.U.C. No. 1;
- Supporting information regarding the computation of annual purchased gas costs for the twelve months ending August 31, 2023;
- Testimony of Florian Teme (PGW St. 1); and
- Testimony of Ryan E. Reeves (PGW St. 2).

Please contact me if you have any questions.

Sincerely,

Kristine E. Marsilio

Kristine E. Marsilio, Esq.

Enclosures

cc: Cert. of Service w/enc.
Craig Berry w/enc.

Philadelphia Gas Works
Before The
Pennsylvania Public Utility Commission

**Computation of Annual Purchased Gas Costs
For Twelve Months Ending August 31, 2023**

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, 2022

**Philadelphia Gas Works
66 Pa.C.S. § 1307(f) – 2019**

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52 Pa. Code §§ 53.64(c) and 53.65**

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Tab 1

PGW
Gas Service Tariff
Pa. P.U.C. No. 2

Supplement No. 149

PHILADELPHIA GAS WORKS
GAS SERVICE TARIFF



Issued by: Seth Shapiro
President and CEO

PHILADELPHIA GAS WORKS
800 West Montgomery Avenue
Philadelphia, PA 19122

List of Changes Made by this Tariff Supplement**TABLE OF CONTENTS (PAGE Nos. 6-7)**

Updated to reflect revised page numbers for each of the changes listed below on this page.
Restructuring and Consumer Education Surcharge (Page No. 79) removed as part of withdrawing the surcharge.

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

In the definition of “GAC,” the GAC value effective September 1, 2022, increases from \$(0.01727) per Ccf to \$(0.00151).

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

In the definition of “IRC,” the IRC value effective September 1, 2022 is \$0.00085 per Ccf. In the definition of “SSC,” the SSC value effective September 1, 2022, decreases from \$0.57932 per Ccf to \$0.56284 per Ccf.

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

The Gas Cost Rate (GCR) effective September 1, 2022 decreases from \$0.56123 per Ccf to \$0.56048 per Ccf.

PRICE TO COMPARE (PAGE No. 78)

The Prices to Compare effective September 1, 2022 are: a) \$0.58562 per Ccf for Residential (GS-RES); b) \$0.58562 per Ccf for Public Housing Customers (GS-PH); (c) \$0.57043 per Ccf for Commercial (GS-COM); (d) \$0.56768 per Ccf for Industrial (GS-IND); (e) \$0.56533 per Ccf for Municipal Service (MS); (f) \$0.56533 per Ccf for Philadelphia Housing Authority (PHA); and, (g) \$0.56533 per Ccf for Natural Gas Vehicle Service (NGVS).

RESTRUCTURING AND CONSUMER EDUCATION SURCHARGE (Page No. 79)

The Restructuring and Consumer Education Surcharge is withdrawn effective September 1, 2022.

EFFICIENCY COST RECOVERY SURCHARGE (PAGE No. 80)

The Efficiency Cost Recovery Surcharge rates effective September 1, 2022 are: a) \$0.00266 per Ccf for Residential and Public Housing Customers on Rate GS; b) \$0.00261 per Ccf for Commercial Customers on Rate GS; c) \$(0.00020) per Ccf for Industrial Customers on Rate GS; and, d) \$0.00261 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, 2022 decreases from \$0.16331 per Ccf to \$0.15869 per Ccf.

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

The Other Post Employment Benefit Surcharge effective September 1, 2022, decreases from \$0.03371 per Ccf to \$0.03333 per Ccf.

GENERAL SERVICE – RATE GS (PAGE No. 83); MUNICIPAL SERVICE – RATE MS (PAGE No. 87); PHILADELPHIA HOUSING AUTHORITY SERVICE – RATE PHA (PAGE No. 90); and, DEVELOPMENTAL NATURAL GAS VEHICLE SVC - RATE NGVS FIRM SERVICE (Page No. 135)

The Gas Cost Rate (GCR) effective September 1, 2022 decreases from \$0.56123 per Ccf to \$0.56048 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.

(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 (\$0.00943) per Ccf for Commodity Costs and \$0.00792 per Ccf for Demand Costs, for service on or after September 1, 2022. The total GAC is (\$0.00151) 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

PHILADELPHIA GAS WORKS

IRC - Interruptible Revenue Credit - The credit defined in Subsection VI below. The currently effective IRC is \$0.00085 per Ccf for service on or after September 1, 2022.

(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 \$0.38283 per Ccf for Commodity Costs and \$0.18001 per Ccf for Demand Costs, for service on or after September 1, 2022. The total SSC is \$0.56284 per Ccf.

(D)

(D) – Decrease

PHILADELPHIA GAS WORKS

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 \$0.56048 per Ccf, for service on or after September 1, 2022.

(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

MERCHANT FUNCTION CHARGE (“MFC”)

The MFC is a volumetric charge, applied to firm sales service customers, which will be included in the Price to Compare. The MFC is based on Gas Cost Rate multiplied by a fixed uncollectible percentage established in the Company’s last general base rate proceeding. The MFC will not be reconciled to reflect actual results. The MFC is intended to make the Company’s Price to Compare more comparable to the gas supply services price offers of other Natural Gas Suppliers that presumably reflect anticipated uncollectible expenses. The following percentages will be applied to the quarterly Gas Cost Rate in order to calculate the quarterly MFC: 3.62% - GS Residential (“GS RES”); 3.62% - GS Public Housing (“GS PHA”); 0.91% - GS Commercial (“GS COM”); and 0.42% - 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	\$0.56284	\$0.56284	\$0.56284	\$0.56284	\$0.56284	\$0.56284	\$0.56284	(C)
GAC	(\$0.00151)	(\$0.00151)	(\$0.00151)	(\$0.00151)	(\$0.00151)	(\$0.00151)	(\$0.00151)	(C)
MFC	\$0.02029	\$0.02029	\$0.00510	\$0.00235	\$0.00000	\$0.00000	\$0.00000	(C)
GPC	\$0.00400	\$0.00400	\$0.00400	\$0.00400	\$0.00400	\$0.00400	\$0.00400	(C)
PTC	\$0.58562	\$0.58562	\$0.57043	\$0.56768	\$0.56533	\$0.56533	\$0.56533	(C)

(C) – Change

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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) \$0.00266 per Ccf for Residential and Public Housing Customers on Rate GS; | (I) |
| b) \$0.00261 per Ccf for Commercial Customers on Rate GS; | (I) |
| c) \$(0.00020) per Ccf for Industrial Customers on Rate GS; | (I) |
| d) \$0.00000 per Ccf for Municipal Customers on Rate MS; and | (NC) |
| e) \$0.00261 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 PGW's Low Income Usage Reduction Program (LIRUP), known as the Home Comfort Program (previously known as the Conservation Works Program (CWP), the Enhanced Low Income Retrofit Program (ELIRP) and the CRP Home Comfort Program); 4) the costs of the pilot Conservation Incentive Credit program; and, 5) 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 = \$0.15869/Ccf.

(D)

(D) - Decrease

OTHER POST EMPLOYMENT BENEFIT (“OPEB”) SURCHARGE

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

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

Current Other Post Employment Benefit Rider Surcharge = \$0.03333/Ccf

(D)

(D) - Decrease

GENERAL SERVICE - RATE GS

Rate: Applicable to all Retail Sales Service or Transportation Service rendered pursuant to this Rate Schedule on or after September 1, 2022. **(C)**

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. Not available for back-up service, refer to Rate BUS.

RATES

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

\$ 14.90 per month for Residential and Public Housing Authority Customers.
\$ 25.35 per month for Commercial Customers
\$ 75.90 per month for Industrial Customers

Surcharge: Distribution System Improvement Charge.

Plus,

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

\$0.56048 per Ccf for Residential and Public Housing **(D)**
\$0.56048 per Ccf for Commercial Customers **(D)**
\$0.56048 per Ccf for Industrial Customers **(D)**

Plus,

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

(A) Delivery Charge:

\$0.72955 per Ccf for Residential
\$0.65393 per Ccf for Public Housing
\$0.51908 per Ccf for Commercial Customers
\$0.51668 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; (C) - Change

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, 2022.

(C)

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):

\$ 25.35 per month

Surcharge: Distribution System Improvement Charge.

Plus,

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

\$0.56048 per Ccf

(D)

Plus,

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

(A) Delivery Charge:

\$0.47765 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, (C) – Change

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, 2022.

(C)

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);

\$25.35 per month

Surcharge: Distribution System Improvement Charge.

Plus,

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

\$0.56048 per Ccf

(D)

Plus

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

(A) Delivery Charge:

\$0.54534 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, (C) – Change

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, 2022.

(C)

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):

\$0.56048 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, (C) - Change

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

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

Supplement No. 100

PHILADELPHIA GAS WORKS
GAS SUPPLIER TARIFF



Issued by: Seth Shapiro
President and CEO

PHILADELPHIA GAS WORKS
800 West Montgomery Avenue
Philadelphia, PA 19122

List of Changes Made by this Tariff

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Updated to reflect revised page numbers.

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

The load balancing charge effective September 1, 2022, is \$59.7588 per design day Mcf.

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9.14. LOAD BALANCING CHARGE.

9.14.A. Suppliers for all gas delivered under Firm Transportation Rates, of this Suppliers Tariff shall be charged at \$59.7588 per design day Mcf that is fulfilled by PGW storage and peaking assets, for recovery of those costs for Balancing Service, calculated in the manner set forth in the Commission's Order at M-00021612 (entered March 31, 2003) and as set forth below. Such rate for Balancing Service shall be increased or decreased, from time to time, in accordance with applicable law and procedures. (I)

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

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

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

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

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

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

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

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

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

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

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

(I) – Increase

Tab 2

Philadelphia Gas Works

Pennsylvania Public Utility 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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1307(f) GCR FILING
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Philadelphia Gas Works

Levelized Gas Cost Rate

September 1, 2022

Formula:
GCR = SSC + GAC - IRC

where:

	<u>Demand</u>	<u>Commodity</u>	<u>Total</u>	
S = Firm Sales (Mcf)			43,388,578	Schedule 2
Net Natural Gas Expense	\$ 79,042,546	\$ 167,486,954	\$ 246,529,500	
Purchased Electric & Misc Expenses	\$ -	\$ 614,790	\$ 614,790	
C = Total Applicable GCR Expense	\$ 79,042,546	\$ 168,101,744	\$ 247,144,290	Schedule 3
SSC = C / S	\$ 1.8217	\$ 3.8744	\$ 5.6961	

Adjustment For:

E-Factor Volumes (Mcf)			43,388,578	Schedule 2
Interest	\$ (195,057)	\$ 317,762	\$ 122,705	Schedule 5(a),5(c)
E-Factor Reconciliation	\$ 3,988,067	\$ (4,833,952)	\$ (845,885)	Schedule 4(b),4(c),4(e)
	\$ 3,793,010	\$ (4,516,190)	\$ (723,180)	
E = E-Factor	\$ 0.0874	\$ (0.1041)	\$ (0.0167)	

Interruptible Revenue Credit			\$ 369,907	Schedule 10(a)
IRC = Interruptible Revenue Credit / S			\$ 0.0085	

Net Applicable GCR Expenses = C + E - Interruptible Revenue Credit			\$ 246,051,203	
<u>GCR = SSC + GAC - IRC</u>			\$ 5.6709	

SSC in effect 9/01/22	\$ 1.8001	\$ 3.8283	\$ 5.6284	
GAC in effect 9/01/22	\$ 0.0792	\$ (0.0943)	\$ (0.0151)	
IRC in effect 9/01/22			\$ (0.0085)	
GCR in effect 9/01/22			\$ 5.6048	Schedule 7

Recovery Test on:

Firm Sales (Mcf)			43,388,578	
= GCR Projected Recovery		\$	243,187,568	
= Load Balancing Revenue		\$	2,773,591	
= LNG Sales Demand Revenue		\$	91,085	
= Total Projected Recovery		\$	246,052,245	Schedule 7
Compared To				
Net Applicable GCR Expenses		\$	246,051,203	
= Net Over/(Under) Recovery		\$	1,042	

Degree Days 3,893

Philadelphia Gas Works

Price To Compare (\$ / MCF)

September 1, 2022

	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	\$5.6048	(\$0.0236)	\$5.6284	3.62%	\$0.2029	\$0.0400	(\$0.0151)	\$5.8562
Commercial GS	\$5.6048	(\$0.0236)	\$5.6284	0.91%	\$0.0510	\$0.0400	(\$0.0151)	\$5.7043
Industrial GS	\$5.6048	(\$0.0236)	\$5.6284	0.42%	\$0.0235	\$0.0400	(\$0.0151)	\$5.6768
Phila. Housing Authority (PHA)	\$5.6048	(\$0.0236)	\$5.6284	0%	\$0.0000	\$0.0400	(\$0.0151)	\$5.6533
Municipal (MS)	\$5.6048	(\$0.0236)	\$5.6284	0%	\$0.0000	\$0.0400	(\$0.0151)	\$5.6533
NGV Firm	\$5.6048	(\$0.0236)	\$5.6284	0%	\$0.0000	\$0.0400	(\$0.0151)	\$5.6533
Phila. Housing Authority (GS)	\$5.6048	(\$0.0236)	\$5.6284	3.62%	\$0.2029	\$0.0400	(\$0.0151)	\$5.8562

SALES & VOLUMES

SEPTEMBER 2022 THROUGH AUGUST 2023

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 2022	1,084,276	181,447	902,829	30,212	1,644	-	870,973	1,818	1,050,602
OCTOBER	1,523,895	263,583	1,260,312	31,219	1,699	-	1,227,394	2,747	1,488,230
NOVEMBER	3,318,494	487,425	2,831,069	30,212	1,644	-	2,799,213	7,667	3,278,971
DECEMBER	6,041,678	829,461	5,212,218	31,219	1,699	-	5,179,300	14,834	5,993,927
JANUARY 2023	11,120,887	1,366,763	9,754,124	31,219	1,699	-	9,721,206	28,856	11,059,113
FEBRUARY	9,374,661	1,158,793	8,215,868	28,198	1,534	-	8,186,136	23,912	9,321,017
MARCH	7,195,267	914,657	6,280,610	31,219	1,699	-	6,247,692	17,679	7,144,671
APRIL	4,867,783	605,025	4,262,757	30,212	1,644	-	4,230,902	11,701	4,824,226
MAY	2,281,987	318,075	1,963,911	31,219	1,699	-	1,930,994	4,729	2,244,340
JUNE	1,366,563	226,197	1,140,366	30,212	1,644	4	1,108,506	2,105	1,332,597
JULY	1,220,443	206,173	1,014,270	31,219	1,699	48	981,305	1,786	1,185,692
AUGUST	<u>1,129,082</u>	<u>191,207</u>	<u>937,876</u>	<u>31,219</u>	<u>1,699</u>	<u>-</u>	<u>904,958</u>	<u>1,630</u>	<u>1,094,535</u>
TOTAL	50,525,015	6,748,806	43,776,209	367,579	20,000	52	43,388,578	119,464	50,017,920

**PROJECTED APPLICABLE FUEL EXPENSE
SUMMARY
SEPTEMBER 2022 - AUGUST 2023**

	SEPTEMBER 2022	OCTOBER 2022	NOVEMBER 2022	DECEMBER 2022	JANUARY 2023	FEBRUARY 2023	MARCH 2023	APRIL 2023	MAY 2023	JUNE 2023	JULY 2023	AUGUST 2023	TOTAL
NATURAL GAS BILLED													
DEMAND CHARGE	\$ 6,350,485	\$ 6,307,311	\$ 6,722,792	\$ 7,031,275	\$ 7,029,188	\$ 7,078,896	\$ 6,982,662	\$ 6,335,892	\$ 6,294,068	\$ 6,331,479	\$ 6,290,213	\$ 6,288,285	\$ 79,042,546
DEMAND CHARGE CREDIT FOR LNG SALES	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
COMMODITY CHARGE	\$ 12,185,297	\$ 17,824,566	\$ 13,906,796	\$ 17,929,628	\$ 17,828,763	\$ 13,487,148	\$ 9,767,476	\$ 13,380,251	\$ 13,885,544	\$ 10,356,601	\$ 10,376,097	\$ 9,879,874	\$ 160,808,043
TOTAL NATURAL GAS BILLED	\$ 18,535,782	\$ 24,131,877	\$ 20,629,588	\$ 24,960,903	\$ 24,857,952	\$ 20,566,044	\$ 16,750,138	\$ 19,716,144	\$ 20,179,612	\$ 16,688,080	\$ 16,666,310	\$ 16,168,159	\$ 239,850,589
INTERRUPTIBLE AND FIRM A/C CREDIT	\$ 120,859	\$ 128,409	\$ 103,882	\$ 119,617	\$ 123,613	\$ 112,729	\$ 119,177	\$ 123,006	\$ 115,648	\$ 102,023	\$ 102,971	\$ 104,007	\$ 1,375,943
SENDOUT VOLUME IN MCF	30,923	31,954	30,923	31,954	31,954	28,862	31,954	30,923	31,954	30,927	32,003	31,954	376,284
DKT CONVERSION FACTOR	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031
PRICE \$/DKT	\$ 3.7909	\$ 3.8977	\$ 3.2584	\$ 3.6309	\$ 3.7522	\$ 3.7884	\$ 3.6175	\$ 3.8582	\$ 3.5104	\$ 3.1996	\$ 3.1208	\$ 3.1571	\$ 3.1571
GAS USED FOR UTILITY	\$ 30,955	\$ 37,093	\$ 77,969	\$ 150,534	\$ 176,032	\$ 170,084	\$ 109,085	\$ 78,281	\$ 50,545	\$ 26,075	\$ 20,646	\$ 22,646	\$ 949,946
NATURAL GAS TO STORAGE	(\$ 8,440,931)	(\$ 8,793,251)	(\$ 134,404)	\$ -	\$ -	\$ -	\$ -	(\$ 4,793,889)	(\$ 8,139,852)	(\$ 7,486,373)	(\$ 7,507,728)	(\$ 6,984,613)	(\$ 52,281,041)
FROM STORAGE PGW	\$ -	\$ -	\$ 1,275,413	\$ 9,839,259	\$ 16,190,543	\$ 15,869,030	\$ 13,310,705	\$ 3,956,393	\$ -	\$ -	\$ -	\$ -	\$ 60,441,342
FT FROM STORAGE	\$ -	\$ -	\$ 89,495	\$ 1,145,543	\$ 1,664,517	\$ 1,239,818	\$ 383,875	\$ 35,444	\$ -	\$ -	\$ -	\$ -	\$ 4,558,691
NET NATURAL GAS STORAGE	(\$ 8,440,931)	(\$ 8,793,251)	\$ 1,141,009	\$ 9,839,259	\$ 16,190,543	\$ 15,869,030	\$ 13,310,705	(\$ 837,496)	(\$ 8,139,852)	(\$ 7,486,373)	(\$ 7,507,728)	(\$ 6,984,613)	\$ 8,160,301
LNG TO STORAGE	(\$ 6,928)	(\$ 589,391)	(\$ 1,487,270)	(\$ 969,582)	(\$ 606,227)	(\$ 754,972)	(\$ 1,107,604)	(\$ 541,362)	(\$ 218,976)	\$ -	\$ -	\$ -	(\$ 6,282,311)
FROM LNG PGW	\$ 282,638	\$ 328,450	\$ 288,378	\$ 1,370,095	\$ 1,691,369	\$ 1,360,867	\$ 324,997	\$ 304,519	\$ 315,091	\$ 304,916	\$ 315,080	\$ 315,080	\$ 7,201,479
FT FROM LNG	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NET LNG STORAGE	\$ 275,710	(\$ 260,940)	(\$ 1,198,892)	\$ 400,513	\$ 1,085,142	\$ 605,895	(\$ 782,607)	(\$ 236,843)	\$ 96,114	\$ 304,916	\$ 315,080	\$ 315,080	\$ 919,168
LNG SALES FROM LNG TANK	\$ 5,859	\$ 6,054	\$ 5,910	\$ 6,221	\$ 6,299	\$ 5,735	\$ 6,415	\$ 6,292	\$ 6,524	\$ 6,313	\$ 6,523	\$ 6,523	\$ 74,669
SENDOUT VOLUMES (MCF)	1,644	1,699	1,644	1,699	1,699	1,534	1,699	1,644	1,699	1,644	1,699	1,699	1,699
@ AVG LNG COMMODITY RATE	\$ 3.5640	\$ 3.5643	\$ 3.5953	\$ 3.6623	\$ 3.7082	\$ 3.7383	\$ 3.7767	\$ 3.8279	\$ 3.8405	\$ 3.8403	\$ 3.8403	\$ 3.8403	\$ 3.8403
NET NATURAL GAS EXPENSE	\$ 10,212,888	\$ 14,906,129	\$ 20,383,944	\$ 34,924,302	\$ 41,827,693	\$ 36,752,420	\$ 29,043,559	\$ 18,434,225	\$ 11,963,158	\$ 9,372,212	\$ 9,343,522	\$ 9,365,448	\$ 246,529,500
APPLICABLE GCR EXPENSE													
NET NATURAL GAS EXPENSE	\$ 10,212,888	\$ 14,906,129	\$ 20,383,944	\$ 34,924,302	\$ 41,827,693	\$ 36,752,420	\$ 29,043,559	\$ 18,434,225	\$ 11,963,158	\$ 9,372,212	\$ 9,343,522	\$ 9,365,448	\$ 246,529,500
PURCHASED ELECTRIC & MISC	\$ 31,196	\$ 35,412	\$ 34,418	\$ 33,599	\$ 182,561	\$ 51,092	\$ 53,624	\$ 39,778	\$ 33,017	\$ 48,649	\$ 29,034	\$ 42,410	\$ 614,790
TOTAL APPLICABLE EXPENSES	\$ 10,244,084	\$ 14,941,541	\$ 20,418,362	\$ 34,957,901	\$ 42,010,254	\$ 36,803,512	\$ 29,097,183	\$ 18,474,003	\$ 11,996,176	\$ 9,420,861	\$ 9,372,556	\$ 9,407,859	\$ 247,144,290
TOTAL GCR FIRM SALES	870,973	1,227,394	2,799,213	5,179,300	9,721,206	8,186,136	6,247,692	4,230,902	1,930,994	1,108,506	981,305	904,958	43,388,578

**ACTUAL / ESTIMATED DATA - FISCAL YEAR 2022
PHILADELPHIA GAS WORKS**

Rate	Split Month		Split Month		Split Month		
	7/1/2021	9/1/2021	10/1/2021	12/1/2021	1/1/2022	3/1/2022	4/1/2022
SSC in Effect	\$ 3.7609	\$ 4.5385	\$ 5.3160	\$ 5.8509	\$ 6.3857	\$ 6.0895	\$ 5.7932
GAC in Effect	\$ (0.1882)	\$ (0.3121)	\$ (0.4360)	\$ (0.4020)	\$ (0.3680)	\$ (0.2704)	\$ (0.1727)
IRC in Effect	\$ (0.0027)	\$ (0.0041)	\$ (0.0055)	\$ (0.0066)	\$ (0.0077)	\$ (0.0080)	\$ (0.0082)
Total Effective	\$ 3.5700	\$ 4.2223	\$ 4.8745	\$ 5.4423	\$ 6.0100	\$ 5.8112	\$ 5.6123
Percentage of Total							
C-Factor	105.3%	107.5%	109.1%	107.5%	106.3%	104.8%	103.2%
E-Factor	-5.3%	-7.4%	-8.9%	-7.4%	-6.1%	-4.7%	-3.1%
IRC-Factor	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%
Total	100%	100%	100%	100%	100%	100%	100%

C-Factor							
Demand Charge in Effect	\$ 0.9933	\$ 1.2648	\$ 1.5362	\$ 1.7106	\$ 1.8850	\$ 1.7017	\$ 1.5184
Commodity in Effect	\$ 2.7676	\$ 3.2737	\$ 3.7798	\$ 4.1403	\$ 4.5007	\$ 4.3878	\$ 4.2748
	\$ 3.7609	\$ 4.5385	\$ 5.3160	\$ 5.8509	\$ 6.3857	\$ 6.0895	\$ 5.7932
Percentage of Total							
Demand Charge in Effect	26.4%	27.9%	28.9%	29.2%	29.5%	27.9%	26.2%
Commodity in Effect	73.6%	72.1%	71.1%	70.8%	70.5%	72.1%	73.8%
	100%	100%	100%	100%	100%	100%	100%

Fiscal Year 2021 E-Factor	C-Factor Over/(Under)	E-Factor Over/(Under)	Interest Over/(Under)	FY 2021 Final E-Factor
\$ 10,417,313	\$ 7,629,647	\$ 499,391	\$ 18,546,351	

Actual Fiscal Year 2021-2022	Sep-2021	Oct-2021	Nov-2021	Dec-2021	Jan-2022	Feb-2022	Mar-2022	Apr-2022	May-2022	Jun-2022	Jul-2022	Aug-2022	FY2021 Total
	Actual	Actual	Actual	Actual	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	
GCR Firm Sales	913,407	1,029,990	2,908,995	5,546,970	8,637,856	8,279,843	6,056,594	4,100,943	1,873,327	1,077,102	953,841	879,770	42,258,638
GCR Revenue Billed	\$ 3,980,567	\$ 5,014,637	\$ 14,188,678	\$ 31,177,480	\$ 51,913,515	\$ 49,761,855	\$ 35,195,774	\$ 23,015,721	\$ 10,513,676	\$ 6,045,021	\$ 5,353,243	\$ 4,937,534	241,097,700
Migration Rider Revenue Billed	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Load Balancing Billed	\$ 183,531	\$ 207,616	\$ 212,570	\$ 178,011	\$ 210,299	\$ 210,394	\$ 221,884	\$ 221,983	\$ 222,092	\$ 222,182	\$ 222,280	\$ 222,379	2,535,221
LNG Sales Demand Charge Credit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Total Revenue Billed	\$ 4,164,097	\$ 5,222,253	\$ 14,401,248	\$ 31,355,492	\$ 52,123,814	\$ 49,972,249	\$ 35,417,658	\$ 23,237,704	\$ 10,735,767	\$ 6,267,202	\$ 5,575,523	\$ 5,159,912	243,632,920
Natural Gas Refunds	\$ -	\$ 14,453	\$ 113,192	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	127,646
Demand Charges	\$ 5,636,125	\$ 5,752,507	\$ 4,703,963	\$ 4,781,251	\$ 5,752,258	\$ 5,791,819	\$ 5,748,040	\$ 7,486,949	\$ 7,485,022	\$ 7,486,187	\$ 7,484,305	\$ 7,483,946	75,592,371
Supply Charges	\$ 3,734,014	\$ 7,336,296	\$ 24,103,958	\$ 25,764,113	\$ 36,170,398	\$ 32,302,123	\$ 26,327,014	\$ 12,212,359	\$ 7,200,898	\$ 3,664,409	\$ 3,669,606	\$ 3,698,089	186,183,277
Net Cost of Fuel	\$ 9,370,138	\$ 13,088,803	\$ 28,807,921	\$ 30,545,364	\$ 41,922,656	\$ 38,093,942	\$ 32,075,053	\$ 19,699,308	\$ 14,685,920	\$ 11,150,596	\$ 11,153,911	\$ 11,182,035	261,775,648

**FISCAL YEAR 2022
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	% of GCR	4 = (2 * 3)	5	6	7 = (4 + 5 + 6)	8	9 = (7 + 8 - 1)	10
	(\$)	(\$)		(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
SEPTEMBER 2021	9,370,138	3,980,567	107.5%	4,278,667	183,531	0	4,462,198	0	(4,907,940)	(4,907,940)
OCTOBER	13,088,803	5,014,637	109.1%	5,468,829	207,616	0	5,676,445	14,453	(7,397,904)	(12,305,844)
NOVEMBER	28,807,921	14,188,678	109.1%	15,473,795	212,570	0	15,686,365	113,192	(13,008,364)	(25,314,208)
DECEMBER	30,545,364	31,177,480	107.5%	33,518,262	178,011	0	33,696,273	0	3,150,909	(22,163,299)
JANUARY 2022	41,922,656	51,913,515	106.3%	55,158,758	210,299	0	55,369,057	0	13,446,400	(8,716,899)
FEBRUARY	38,093,942	49,761,855	106.3%	52,872,592	210,394	0	53,082,986	0	14,989,044	6,272,145
MARCH	32,075,053	35,195,774	104.8%	36,881,324	221,884	0	37,103,208	0	5,028,155	11,300,300
APRIL	19,699,308	23,015,721	103.2%	23,757,582	221,983	0	23,979,565	0	4,280,257	15,580,557
MAY	14,685,920	10,513,676	103.2%	10,852,561	222,092	0	11,074,652	0	(3,611,268)	11,969,289
JUNE	11,150,596	6,045,021	103.2%	6,239,868	222,182	0	6,462,050	0	(4,688,546)	7,280,743
JULY	11,153,911	5,353,243	103.2%	5,525,792	222,280	0	5,748,073	0	(5,405,838)	1,874,905
AUGUST	11,182,035	4,937,534	103.2%	5,096,684	222,379	0	5,319,063	0	(5,862,972)	(3,988,067)
TOTAL	261,775,648	241,097,700		255,124,714	2,535,221	0	257,659,935	127,646	(3,988,067)	

**FISCAL YEAR 2022
PHILADELPHIA GAS WORKS
E-FACTOR RECONCILIATION**

		GCR SALES 1 (MCF)	TOTAL E-FACTOR VOLUMES 2 (MCF)	TOTAL GCR REVENUE BILLED 3 (\$)	E-FACTOR % of GCR 4	E-FACTOR GCR REVENUE BILLED 5=(3 * 4) (\$)	OVER/(UNDER) PROJECTED RECOVERY 6 (\$)
PRIOR YEAR E-FACTOR MONTH							\$ 18,546,351
SEPTEMBER 2021	Actual	913,407	913,407	\$ 3,980,567	-7.4%	\$ (294,235)	\$ 18,252,115
OCTOBER	Actual	1,029,990	1,029,990	\$ 5,014,637	-8.9%	\$ (448,535)	\$ 17,803,581
NOVEMBER	Actual	2,908,995	2,908,995	\$ 14,188,678	-8.9%	\$ (1,269,107)	\$ 16,534,473
DECEMBER	Actual	5,546,970	5,546,970	\$ 31,177,480	-7.4%	\$ (2,302,972)	\$ 14,231,502
JANUARY 2022	Estimated	8,637,856	8,637,856	\$ 51,913,515	-6.1%	\$ (3,178,731)	\$ 11,052,771
FEBRUARY	Estimated	8,279,843	8,279,843	\$ 49,761,855	-6.1%	\$ (3,046,982)	\$ 8,005,789
MARCH	Estimated	6,056,594	6,056,594	\$ 35,195,774	-4.7%	\$ (1,637,400)	\$ 6,368,389
APRIL	Estimated	4,100,943	4,100,943	\$ 23,015,721	-3.1%	\$ (708,233)	\$ 5,660,156
MAY	Estimated	1,873,327	1,873,327	\$ 10,513,676	-3.1%	\$ (323,524)	\$ 5,336,632
JUNE	Estimated	1,077,102	1,077,102	\$ 6,045,021	-3.1%	\$ (186,016)	\$ 5,150,617
JULY	Estimated	953,841	953,841	\$ 5,353,243	-3.1%	\$ (164,728)	\$ 4,985,888
AUGUST	Estimated	879,770	879,770	\$ 4,937,534	-3.1%	\$ (151,936)	\$ 4,833,952
TOTAL		42,258,638	42,258,638	\$ 241,097,700		(13,712,399)	

**FISCAL YEAR 2022
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 2021	3,980,567	-0.10%	(3,865)
OCTOBER	5,014,637	-0.11%	(5,658)
NOVEMBER	14,188,678	-0.11%	(16,009)
DECEMBER	31,177,480	-0.12%	(37,810)
JANUARY 2022	51,913,515	-0.13%	(66,511)
FEBRUARY	49,761,855	-0.13%	(63,755)
MARCH	35,195,774	-0.14%	(48,150)
APRIL	23,015,721	-0.15%	(33,628)
MAY	10,513,676	-0.15%	(15,361)
JUNE	6,045,021	-0.15%	(8,832)
JULY	5,353,243	-0.15%	(7,821)
AUGUST	4,937,534	-0.15%	(7,214)
TOTALS	241,097,700		(314,614)

**FISCAL YEAR 2022
PHILADELPHIA GAS WORKS
RECONCILIATION OF DEMAND CHARGES**

MONTH	DEMAND CHARGES LESS LOAD BALANCING CHARGE REVENUE	DEMAND REVENUE BILLED	MONTHLY DEMAND OVER/(UNDER)	CUMULATIVE DEMAND OVER/(UNDER)
	1	2	3 = (2 - 1)	4
	\$	\$	\$	\$
SEPTEMBER 2021	5,452,594	1,155,232	(4,297,362)	(4,297,362)
OCTOBER	5,544,891	1,582,271	(3,962,620)	(8,259,982)
NOVEMBER	4,491,393	4,468,798	(22,595)	(8,282,577)
DECEMBER	4,603,240	9,488,647	4,885,407	(3,397,170)
JANUARY 2022	5,541,959	16,282,359	10,740,399	7,343,230
FEBRUARY	5,581,425	15,607,504	10,026,079	17,369,308
MARCH	5,526,156	10,306,505	4,780,350	22,149,658
APRIL	7,264,966	6,226,872	(1,038,094)	21,111,564
MAY	7,262,930	2,844,460	(4,418,470)	16,693,094
JUNE	7,264,005	1,635,472	(5,628,533)	11,064,561
JULY	7,262,025	1,448,312	(5,813,712)	5,250,849
AUGUST	<u>7,261,567</u>	<u>1,335,843</u>	<u>(5,925,725)</u>	(674,876)
TOTALS	73,057,150	<u>72,382,274</u>	(674,876)	

**FISCAL YEAR 2022
PHILADELPHIA GAS WORKS
INTEREST CALCULATION**

<u>MONTH</u>	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 21	9,370,138	4,462,198	(4,907,940)	3.25%	18/12	(239,262)	-	(239,262)
OCTOBER	13,088,803	5,676,445	(7,412,358)	3.25%	17/12	(341,277)	1,229	(340,048)
NOVEMBER	28,807,921	15,686,365	(13,121,556)	3.25%	16/12	(568,601)	9,055	(559,546)
DECEMBER	30,545,364	33,696,273	3,150,909	3.25%	15/12	128,006	-	128,006
JANUARY 22	41,922,656	55,369,057	13,446,400	3.25%	14/12	509,843	-	509,843
FEBRUARY	38,093,942	53,082,986	14,989,044	3.25%	13/12	527,739	-	527,739
MARCH	32,075,053	37,103,208	5,028,155	3.25%	12/12	163,415	-	163,415
APRIL	19,699,308	23,979,565	4,280,257	3.25%	11/12	127,516	-	127,516
MAY	14,685,920	11,074,652	(3,611,268)	3.25%	10/12	(97,805)	-	(97,805)
JUNE	11,150,596	6,462,050	(4,688,546)	3.25%	9/12	(114,283)	-	(114,283)
JULY	11,153,911	5,748,073	(5,405,838)	3.25%	8/12	(117,126)	-	(117,126)
AUGUST	11,182,035	5,319,063	(5,862,972)	3.25%	7/12	(111,152)	-	(111,152)
Total	261,775,648	257,659,935	(4,115,713)			(132,989)	10,284	(122,705)

(1) See Schedule 4(b)

(2) See Schedule 5(c)

**FISCAL YEAR 2022
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 21	0	6.00%	18/12	0
OCTOBER	14,453	6.00%	17/12	1,229
NOVEMBER	113,192	6.00%	16/12	9,055
DECEMBER	0	6.00%	15/12	0
JANUARY 22	0	6.00%	14/12	0
FEBRUARY	0	6.00%	13/12	0
MARCH	0	6.00%	12/12	0
APRIL	0	6.00%	11/12	0
MAY	0	6.00%	10/12	0
JUNE	0	6.00%	9/12	0
JULY	0	6.00%	8/12	0
AUGUST	0	6.00%	7/12	0
TOTAL	127,646			10,284

**FISCAL YEAR 2022
PHILADELPHIA GAS WORKS
DEMAND AND COMMODITY INTEREST CALCULATION**

MONTH	OVER/(UNDER)	DEMAND CHARGE	COMMODITY CHARGE	INTEREST	TIME	DEMAND	COMMODITY	TOTAL	INTEREST ON	TOTAL	
	RECOVERY (1)	OVER/(UNDER)	OVER/(UNDER)			INTEREST	INTEREST	INTEREST		REFUNDS (3)	INTEREST
	1	2	3=(1-2)			4	5	6=(2*4*5)		7=(3*4*5)	8=(6+7)
	(\$)	(\$)	(\$)			(\$)	(\$)	(\$)	(\$)	(\$)	
SEPTEMBER 21	(4,907,940)	(4,297,362)	(610,578)	3.25%	18/12	(209,496)	(29,766)	(239,262)	0	(239,262)	
OCTOBER	(7,412,358)	(3,962,620)	(3,449,737)	3.25%	17/12	(182,446)	(158,832)	(341,277)	1,229	(340,048)	
NOVEMBER	(13,121,556)	(22,595)	(13,098,961)	3.25%	16/12	(979)	(567,622)	(568,601)	9,055	(559,546)	
DECEMBER	3,150,909	4,885,407	(1,734,499)	3.25%	15/12	198,470	(70,464)	128,006	0	128,006	
JANUARY 22	13,446,400	10,740,399	2,706,001	3.25%	14/12	407,240	102,603	509,843	0	509,843	
FEBRUARY	14,989,044	10,026,079	4,962,965	3.25%	13/12	353,002	174,738	527,739	0	527,739	
MARCH	5,028,155	4,780,350	247,805	3.25%	12/12	155,361	8,054	163,415	0	163,415	
APRIL	4,280,257	(1,038,094)	5,318,352	3.25%	11/12	(30,927)	158,443	127,516	0	127,516	
MAY	(3,611,268)	(4,418,470)	807,202	3.25%	10/12	(119,667)	21,862	(97,805)	0	(97,805)	
JUNE	(4,688,546)	(5,628,533)	939,987	3.25%	9/12	(137,196)	22,912	(114,283)	0	(114,283)	
JULY	(5,405,838)	(5,813,712)	407,874	3.25%	8/12	(125,964)	8,837	(117,126)	0	(117,126)	
AUGUST	(5,862,972)	(5,925,725)	62,753	3.25%	7/12	(112,342)	1,190	(111,152)	0	(111,152)	
TOTAL FY 2021	(4,115,713)	(674,876)	(3,440,837)			195,057	(328,046)	(132,989)		(122,705)	

**FISCAL YEAR 2023
PHILADELPHIA GAS WORKS
LOAD BALANCING REVENUE**

<u>Month</u>		<u>Load Balancing Revenue Billed (\$)</u>
September 2022	Estimated	228,041
October	Estimated	228,589
November	Estimated	229,404
December	Estimated	230,013
January 2023	Estimated	230,854
February	Estimated	231,488
March	Estimated	232,253
April	Estimated	232,884
May	Estimated	233,624
June	Estimated	234,280
July	Estimated	234,912
<u>August</u>	Estimated	<u>235,545</u>
Total		2,781,886

CALCULATION OF RECOVERED CHARGES
1307F Filing
September 1, 2022

	<u>50% September</u>	<u>11.5 Months</u>	<u>Total</u>
			(MCF) (\$)
S - Firm Sales (Mcf)	435,487	42,953,091	43,388,578
C-Factor	<u>\$ 5.7932</u>	<u>\$ 5.6284</u>	
Projected Recovery	2,522,861	241,757,180	\$ 244,280,041
S - Firm Sales (Mcf)	435,487	42,953,091	43,388,578
IRC-Factor	<u>\$ (0.0082)</u>	<u>\$ (0.0085)</u>	
Projected Recovery	(3,571)	(365,101)	\$ (368,672)
E-Factor Volumes (Mcf)	435,487	42,953,091	43,388,578
E-Factor	<u>\$ (0.1727)</u>	<u>\$ (0.0151)</u>	
Projected Recovery	(75,209)	(648,592)	\$ (723,800)
GCR (\$ / Mcf)	\$ 5.6123	\$ 5.6048	
<hr/>			
GCR Projected Recovery			\$ 243,187,568
Load Balancing Revenue			\$ 2,773,591
LNG Sales Demand Revenue			<u>\$ 91,085</u>
TOTAL PROJECTED RECOVERY			\$ 246,052,245

**Change In Rates
1307F Filing
Rates Effective September 1, 2022**

Current Rates

	<u>03/01/22</u> <u>Distribution Charge</u> (1)	<u>03/01/22</u> <u>GCR</u> (2)	<u>03/01/22</u> <u>MFC</u> (3)	<u>03/01/22</u> <u>GPC</u> (4)	<u>03/01/22</u> <u>Commodity</u> <u>Rate</u> (5)=(1)+(2)+(3)+(4)
Residential GS	\$9.2843	\$5.6123	\$0.2032	\$0.0400	\$15.1398
Commercial GS	\$7.1829	\$5.6123	\$0.0511	\$0.0400	\$12.8863
Industrial GS	\$7.1304	\$5.6123	\$0.0236	\$0.0400	\$12.8063
Phila.Housing Authority (PHA)	\$7.4455	\$5.6123	\$0.0000	\$0.0400	\$13.0978
Municipal (MS)	\$6.7467	\$5.6123	\$0.0000	\$0.0400	\$12.3990
Phila.Housing Authority (GS)	\$8.5281	\$5.6123	\$0.2032	\$0.0400	\$14.3836

September 1, 2022 - Distribution Charge

	<u>Delivery</u>	<u>Surcharges</u>				<u>Total</u>	<u>Distribution Charge / Mcf</u> (12)=(11)+(6)
	<u>Delivery Charge</u> (6)	<u>Other Post Employment Benefit</u> (7)	<u>Efficiency Cost Recovery</u> (8)	<u>Universal Service & Ener. Cons.</u> (9)	<u>Restructuring & Consumer Education</u> (10)	<u>Total Surcharges</u> (11)=(7)+(8)+(9)+(10)	
Residential GS	\$7.2955	\$0.3333	\$0.0266	\$1.5869	\$0.0000	\$1.9468	\$9.2423
Commercial GS	\$5.1908	\$0.3333	\$0.0261	\$1.5869	\$0.0000	\$1.9463	\$7.1371
Industrial GS	\$5.1668	\$0.3333	(\$0.0020)	\$1.5869	\$0.0000	\$1.9182	\$7.0850
Phila.Housing Authority (PHA)	\$5.4534	\$0.3333	\$0.0261	\$1.5869	\$0.0000	\$1.9463	\$7.3997
Municipal (MS)	\$4.7765	\$0.3333	\$0.0000	\$1.5869	\$0.0000	\$1.9202	\$6.6967
Phila.Housing Authority (GS)	\$6.5393	\$0.3333	\$0.0266	\$1.5869	\$0.0000	\$1.9468	\$8.4861

Proposed Rates

	<u>09/01/22</u> <u>Distribution Charge</u> (12)	<u>09/01/22</u> <u>GCR</u> (13)	<u>09/01/22</u> <u>MFC</u> (14)	<u>09/01/22</u> <u>GPC</u> (15)	<u>09/01/22</u> <u>Commodity</u> <u>Rate</u> (16)=(12)+(13)+(14)+(15)	<u>Difference</u> (17)=(16)-(5)
Residential GS	\$9.2423	\$5.6048	\$0.1497	\$0.0400	\$15.0368	(\$0.1030)
Commercial GS	\$7.1371	\$5.6048	\$0.0376	\$0.0400	\$12.8195	(\$0.0668)
Industrial GS	\$7.0850	\$5.6048	\$0.0174	\$0.0400	\$12.7472	(\$0.0591)
Phila.Housing Authority (PHA)	\$7.3997	\$5.6048	\$0.0000	\$0.0400	\$13.0445	(\$0.0533)
Municipal (MS)	\$6.6967	\$5.6048	\$0.0000	\$0.0400	\$12.3415	(\$0.0575)
Phila.Housing Authority (GS)	\$8.4861	\$5.6048	\$0.1497	\$0.0400	\$14.2806	(\$0.1030)

PHILADELPHIA GAS WORKS
SEPTEMBER 1, 2022
UNIVERSAL SERVICE & ENERGY CONSERVATION SURCHARGE

	Expenses in <u>the Surcharge</u>
Enhanced Low Income Retrofit Program (ELIRP)	\$ 7,988,818
Customer Responsibility Program (CRP)	\$ 72,574,266
Senior Citizen Discount *	\$ 1,900,064
<u>August 2022 Over Collection</u>	<u>\$ (3,190,154)</u>
Total \$ to be Recovered	\$ 79,272,994
Total Applicable Volumes	Mcf 49,955,519
Universal Service & Energy Conservation Surcharge	<u>\$ 1.5869</u>

* This is the Senior Citizen Discount based on the Distribution Charge without the Universal Services Surcharge plus the GCR. This is used to calculate the Universal Services Surcharge. The total senior citizen discount is \$2,100,272

**STATEMENT OF RECONCILIATION
UNIVERSAL SERVICES & ENERGY CONSERVATION SURCHARGE
SEPTEMBER 2021 THROUGH AUGUST 2022**

Month		USC Applicable Volumes	USC Charge	USC Revenue Billed	USC Expenses	Monthly Over/(Under) Recovery	Cumulative Over/(Under) Recovery
FY 21 Reconciliation							\$ 7,736,115
September 2021	Actual	1,084,185	\$ 1,4927	\$ 1,618,363	\$ 985,594	\$ 632,769	\$ 8,368,884
October	Actual	1,230,794	\$ 1,5844	\$ 1,950,070	\$ 1,978,816	\$ (28,746)	\$ 8,340,138
November	Actual	3,348,003	\$ 1,5844	\$ 5,304,576	\$ 6,528,336	\$ (1,223,761)	\$ 7,116,378
December	Actual	6,220,739	\$ 1,6684	\$ 10,378,371	\$ 12,788,359	\$ (2,409,989)	\$ 4,706,389
January 2022	Estimated	9,902,452	\$ 1,7523	\$ 17,352,066	\$ 18,838,458	\$ (1,486,391)	\$ 3,219,998
February	Estimated	9,426,221	\$ 1,7523	\$ 16,517,568	\$ 18,278,094	\$ (1,760,526)	\$ 1,459,471
March	Estimated	6,928,205	\$ 1,6927	\$ 11,727,372	\$ 12,638,030	\$ (910,658)	\$ 548,814
April	Estimated	4,674,299	\$ 1,6331	\$ 7,633,598	\$ 8,279,398	\$ (645,799)	\$ (96,986)
May	Estimated	2,174,243	\$ 1,6331	\$ 3,550,756	\$ 3,119,040	\$ 431,716	\$ 334,730
June	Estimated	1,291,012	\$ 1,6331	\$ 2,108,351	\$ 1,154,465	\$ 953,886	\$ 1,288,616
July	Estimated	1,148,681	\$ 1,6331	\$ 1,875,910	\$ 911,957	\$ 963,953	\$ 2,252,569
August	Estimated	1,060,276	\$ 1,6331	\$ 1,731,537	\$ 793,952	\$ 937,585	\$ 3,190,154

USC Expenses	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	FY22 TOTAL
ELIRP Expense	\$ (1,970)	\$ 1,039,826	\$ 840,986	\$ 868,967	\$ 642,739	\$ 642,739	\$ 642,739	\$ 642,739	\$ 642,739	\$ 642,739	\$ 642,739	\$ 642,739	\$ 7,889,719
ELIRP Labor	\$ 6,084	\$ 7,361	\$ 7,681	\$ 8,592	\$ 13,285	\$ 13,285	\$ 13,285	\$ 13,285	\$ 13,285	\$ 13,285	\$ 13,285	\$ 13,285	\$ 136,000
CRP Discount	\$ (1,198,272)	\$ (403,005)	\$ 4,063,623	\$ 10,378,568	\$ 16,742,605	\$ 16,207,246	\$ 10,703,684	\$ 6,445,244	\$ 1,403,115	\$ (510,489)	\$ (743,865)	\$ (863,167)	\$ 62,225,287
CRP Forgiveness	\$ 2,120,890	\$ 1,261,234	\$ 1,433,164	\$ 1,197,706	\$ 935,392	\$ 924,017	\$ 929,626	\$ 942,179	\$ 949,616	\$ 946,205	\$ 943,075	\$ 947,436	\$ 13,530,539
Senior Citizen Discount	\$ 58,862	\$ 73,400	\$ 182,882	\$ 334,527	\$ 504,436	\$ 490,807	\$ 348,696	\$ 235,951	\$ 110,285	\$ 62,725	\$ 56,722	\$ 53,660	\$ 2,512,954
Bad Debt Expense Offset*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 985,594	\$ 1,978,816	\$ 6,528,336	\$ 12,788,359	\$ 18,838,458	\$ 18,278,094	\$ 12,638,030	\$ 8,279,398	\$ 3,119,040	\$ 1,154,465	\$ 911,957	\$ 793,952	\$ 86,294,499

CRP Participation				
Rate Case Participation Rate	80,000	80,000	80,000	80,000
Actual Participation Rate	60,498	60,137	59,281	53,466
CRP Under/(Over) Participation	19,502	19,863	20,719	26,534
Average Shortfall Per CRP Participant				
CRP Discount	\$ (1,198,272)	\$ (403,005)	\$ 4,063,623	\$ 10,378,568
Actual Participation Rate	60,498	60,137	59,281	53,466
Average Shortfall per CRP Participant	\$ (20)	\$ (7)	\$ 69	\$ 194
Shortfall*	\$ -	\$ -	\$ -	\$ -
Bad Debt Expense Offset** 5.75%	\$ -	\$ -	\$ -	\$ -

**Bad Debt Expense Offset Applicable When Actual CRP Participation Exceeds 80,000.

INTERRUPTIBLE REVENUE CREDIT
September 1, 2022

Fiscal Year 2021 Reconciliation (8/31/21) \$ 126,169

<u>MONTH</u>	<u>IRC CREDIT</u>	<u>MARGIN</u>	
September-21	Actual \$ (3,865)	\$ 23,451	
October	Actual \$ (5,658)	\$ 15,490	
November	Actual \$ (16,009)	\$ 26,405	
December	Actual \$ (37,810)	\$ 33,788	
January-22	Estimated \$ (66,511)	\$ 23,413	
February	Estimated \$ (63,755)	\$ 21,147	
March	Estimated \$ (48,150)	\$ 23,416	
April	Estimated \$ (33,628)	\$ 22,658	
May	Estimated \$ (15,361)	\$ 23,414	
June	Estimated \$ (8,832)	\$ 22,658	
July	Estimated \$ (7,821)	\$ 23,414	
August	Estimated \$ (7,214)	\$ 23,414	
Act/Est IRC Credit September 2021 to August 2022	\$ (314,614)		
Act/Est Margin September 2021 to August 2022		\$ 282,668	\$ 282,668
FY 2021 Reconciliation Plus Act/Est Margin September 2021 to August 2022			\$ 408,837
FY 2021 Reconciliation Plus Act/Est Margin September 2021 to August 2022			\$ 408,837
Act/Est IRC Credit September 2021 to August 2022			\$ (314,614)
Reconciliation as of August 31, 2021			\$ 94,223
Margin - September 2021 through August 2022			\$ 275,684
August 31, 2021 Interruptible Revenue Credit			\$ 369,907
GCR Firm Sales			43,388,578
September 1, 2022 IRC/Mcf			\$ 0.0085

INTERRUPTIBLE REVENUE MARGIN
1307F

<u>MONTH</u>		<u>MARGIN</u>
September-22	Estimated	\$ 22,659
October	Estimated	\$ 23,414
November	Estimated	\$ 22,659
December	Estimated	\$ 23,414
January-23	Estimated	\$ 23,415
February	Estimated	\$ 21,150
March	Estimated	\$ 23,414
April	Estimated	\$ 22,658
May	Estimated	\$ 23,414
June	Estimated	\$ 22,660
July	Estimated	\$ 23,413
August	Estimated	\$ 23,414
Total		\$ <u>275,684</u>

**INTERRUPTIBLE REVENUE CREDIT
FINALIZED RECONCILIATION FY 2021**

Fiscal Year 2020 Reconciliation (8/31/20) \$ (89,542)

<u>MONTH</u>	<u>IRC CREDIT</u>	<u>MARGIN</u>
September-20	Actual \$ 1,878	\$ 930
October	Actual \$ 1,980	\$ 855
November	Actual \$ 4,602	\$ 751
December	Actual \$ 8,352	\$ 1,094
January-21	Actual \$ 9,823	\$ 11,463
February	Actual \$ 11,162	\$ 18,765
March	Actual \$ 6,444	\$ 24,609
April	Actual \$ 2,939	\$ 26,869
May	Actual \$ 1,590	\$ 20,592
June	Actual \$ (1,016)	\$ 21,519
July	Actual \$ (2,497)	\$ 20,479
August	Actual \$ (2,334)	\$ 24,862
Actual IRC Credit September 2020 to August 2021	<u>\$ 42,923</u>	
Actual Margin September 2020 to August 2021		<u>\$ 172,788</u> \$ 172,788
FY 2020 Reconciliation Plus Actual Margin September 2020 to August 2021		<u>\$ 83,246</u>

FY 2020 Reconciliation Plus Actual Margin September 2020 to August 2021		\$ 83,246
Actual IRC Credit September 2020 to August 2021		<u>\$ 42,923</u>
Reconciliation as of August 31, 2021		\$ 126,169

**OTHER POST EMPLOYMENT BENEFIT (OPEB) SURCHARGE
FISCAL YEAR 2023**

FY 2021 Over/(Under) Recovery (\$1,085,287)

<u>Month</u>		<u>OPEB Volumes</u>	<u>OPEB Surcharge</u>	<u>Revenue Billed</u>
September 2021	Actual	1,086,465	\$0.3422	\$371,788
October	Actual	1,233,430	\$0.3371	\$415,789
November	Actual	3,358,330	\$0.3371	\$1,132,093
December	Actual	6,239,766	\$0.3371	\$2,103,425
January 2022	Estimated	9,928,797	\$0.3371	\$3,346,997
February	Estimated	9,451,818	\$0.3371	\$3,186,208
March	Estimated	6,948,820	\$0.3371	\$2,342,447
April	Estimated	4,687,858	\$0.3371	\$1,580,277
May	Estimated	2,179,112	\$0.3371	\$734,579
June	Estimated	1,292,939	\$0.3371	\$435,850
July	Estimated	1,150,027	\$0.3371	\$387,674
<u>August</u>	Estimated	<u>1,061,309</u>	\$0.3371	<u>\$357,767</u>
Total		48,618,670		\$16,394,895

FY 2022 Act/Est OPEB & FY 2021 Reconciliation	\$15,309,608
FY 2022 Permitted Recovery	<u>\$16,000,000</u>
Over/(Under) Recovery	(\$690,392)

FY 2022 Under Recovery	\$690,392
FY 2023 Permitted Recovery	<u>\$16,000,000</u>
FY 2023 Recovery	\$16,690,392

FY 2023 Volumes	50,074,983
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FY 2023 OPEB Surcharge / Mcf	\$0.3333
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OTHER POST EMPLOYMENT BENEFIT (OPEB) SURCHARGE
CALCULATION OF BEGINNING OF FISCAL YEAR 2022
OVER/(UNDER) RECOVERY

FY 2020 Over/(Under) Recovery (\$1,071,724)

<u>Month</u>		<u>OPEB Volumes</u>	<u>OPEB Surcharge</u>	<u>Revenue Billed</u>
September 2020	Actual	1,135,929	\$0.3418	\$388,204
October	Actual	1,406,052	\$0.3473	\$488,322
November	Actual	3,150,664	\$0.3473	\$1,094,226
December	Actual	6,270,813	\$0.3473	\$2,177,853
January 2021	Actual	8,505,193	\$0.3473	\$2,953,854
February	Actual	9,694,780	\$0.3473	\$3,366,997
March	Actual	6,715,022	\$0.3473	\$2,332,127
April	Actual	3,725,922	\$0.3473	\$1,294,013
May	Actual	2,014,927	\$0.3473	\$699,784
June	Actual	1,322,377	\$0.3473	\$459,262
July	Actual	1,082,919	\$0.3473	\$376,098
<u>August</u>	Actual	<u>1,024,183</u>	\$0.3473	<u>\$355,699</u>
Total		46,048,781		\$15,986,437

FY 2021 Act/Est OPEB & FY 2020 Reconciliation	\$14,914,713
FY 2021 Permitted Recovery	<u>\$16,000,000</u>
Over/(Under) Recovery	(<u>\$1,085,287</u>)

EFFICIENCY COST RECOVERY (ECR) SURCHARGE
September 1, 2022

<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	\$499,932	\$34,209	\$374	\$534,515
Labor Expense	\$54,510	\$3,730	\$41	\$58,281
Low Income Thermostate (LITSTAT)				
Program Expense	\$61,777	\$0	\$0	\$61,777
Labor Expense	\$6,736	\$0	\$0	\$6,736
Commercial & Industrial Equipment Rebate (CIER)				
Program Expense	\$3,771	\$226,793	\$2,235	\$232,800
Labor Expense	\$411	\$24,728	\$244	\$25,383
High-Efficiency Construction Incentive (HECI)				
Program Expense	\$236,259	\$0	\$0	\$236,259
Labor Expense	\$25,760	\$0	\$0	\$25,760
EnergySense Smart Thermostat (TSTAT)				
Program Expense	\$181,963	\$0	\$0	\$181,963
Labor Expense	<u>\$19,840</u>	<u>\$0</u>	<u>\$0</u>	<u>\$19,840</u>
Total Expense	\$1,090,959	\$289,461	\$2,894	\$1,383,314
Prior Period Reconciliation (8/31/22)	<u>\$ (109,237)</u>	<u>\$ 7,887</u>	<u>\$ (4,556)</u>	<u>\$ (105,906)</u>
Total	\$981,722	\$297,348	-\$1,662	\$1,277,408
Volumes - Mcf (GCR Firm & Firm Transportation)	36,884,740	11,400,466	841,835	

Efficiency Cost Recovery Surcharge / Mcf	\$0.0266	\$0.0261	(\$0.0020)
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**EFFICIENCY COST RECOVERY (ECR) SURCHARGE
STATEMENT OF RECONCILIATION
FISCAL YEAR 2022**

	Actual Sep-21	Actual Oct-21	Actual Nov-21	Actual Dec-21	Estimated Jan-22	Estimated Feb-22	Estimated Mar-22	Estimated Apr-22	Estimated May-22	Estimated Jun-22	Estimated Jul-22	Estimated Aug-22
RESIDENTIAL & PHA GS												
FY 2021 Over-Collection	\$ 440,912											
Volume Billed	673,328	744,906	2,312,821	4,582,274	7,425,980	7,231,928	5,223,786	3,544,899	1,540,297	797,791	695,620	640,796
ECR Surcharge	\$ 0.0203	\$ 0.0211	\$ 0.0211	\$ 0.0214	\$ 0.0217	\$ 0.0217	\$ 0.0202	\$ 0.0186	\$ 0.0186	\$ 0.0186	\$ 0.0186	\$ 0.0186
Revenue Billed	\$ 13,635	\$ 15,718	\$ 48,801	\$ 98,061	\$ 161,144	\$ 156,933	\$ 105,259	\$ 65,935	\$ 28,650	\$ 14,839	\$ 12,939	\$ 11,919
RHER	Expense	\$ (827)	\$ 38,720	\$ 49,174	\$ 38,285	\$ 50,669	\$ 50,669	\$ 50,669	\$ 50,669	\$ 50,669	\$ 50,669	\$ 50,669
RHER	Labor	\$ 2,555	\$ 3,092	\$ 6,756	\$ 3,608	\$ 5,138	\$ 5,138	\$ 5,138	\$ 5,138	\$ 5,138	\$ 5,138	\$ 5,138
HECI	Expense	\$ (288)	\$ 8,719	\$ (8,431)	\$ 8,929	\$ 21,952	\$ 21,952	\$ 21,952	\$ 21,952	\$ 21,952	\$ 21,952	\$ 21,952
HECI	Labor	\$ 889	\$ 1,075	\$ (1,964)	\$ 1,255	\$ 2,326	\$ 2,326	\$ 2,326	\$ 2,326	\$ 2,326	\$ 2,326	\$ 2,326
LITSTAT	Expense	\$ (96)	\$ 0	\$ 96	\$ 147	\$ 7,701	\$ 7,701	\$ 7,701	\$ 7,701	\$ 7,701	\$ 7,701	\$ 7,701
LITSTAT	Labor	\$ 297	\$ 360	\$ (657)	\$ 420	\$ 778	\$ 778	\$ 778	\$ 778	\$ 778	\$ 778	\$ 778
CIER	Expense	\$ (7)	\$ 479	\$ (472)	\$ 356	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501
CIER	Labor	\$ 21	\$ 25	\$ (46)	\$ 30	\$ 55	\$ 55	\$ 55	\$ 55	\$ 55	\$ 55	\$ 55
TSTAT	Expense	\$ (282)	\$ 1,054	\$ 1,020	\$ 7,824	\$ 21,374	\$ 21,374	\$ 21,374	\$ 21,374	\$ 21,374	\$ 21,374	\$ 21,374
TSTAT	Labor	\$ 870	\$ 1,052	\$ (1,666)	\$ 1,228	\$ 2,244	\$ 2,244	\$ 2,244	\$ 2,244	\$ 2,244	\$ 2,244	\$ 2,244
Total	\$ 3,132	\$ 54,577	\$ 43,808	\$ 62,081	\$ 112,738	\$ 112,738	\$ 112,738	\$ 112,738	\$ 112,738	\$ 112,738	\$ 112,738	\$ 112,738
Monthly Over/(Under)	\$ 10,503	\$ (38,859)	\$ 4,992	\$ 35,980	\$ 48,405	\$ 44,194	\$ (7,479)	\$ (46,803)	\$ (84,089)	\$ (97,899)	\$ (99,800)	\$ (100,820)
Cumulative Over/(Under)	\$ 451,415	\$ 412,555	\$ 417,548	\$ 453,527	\$ 501,933	\$ 546,127	\$ 538,648	\$ 491,845	\$ 407,756	\$ 309,856	\$ 210,057	\$ 109,237
COMMERCIAL & PHA												
FY 2021 Over-Collection	\$ 53,399											
Volume Billed	369,864	441,706	918,766	1,408,311	2,135,526	1,904,557	1,487,539	985,608	560,714	437,834	401,404	371,586
ECR Surcharge	\$ 0.0146	\$ 0.0169	\$ 0.0169	\$ 0.0224	\$ 0.0278	\$ 0.0278	\$ 0.0249	\$ 0.0219	\$ 0.0219	\$ 0.0219	\$ 0.0219	\$ 0.0219
Revenue Billed	\$ 5,382	\$ 7,465	\$ 15,527	\$ 31,476	\$ 59,368	\$ 52,947	\$ 36,965	\$ 21,585	\$ 12,280	\$ 9,589	\$ 8,791	\$ 8,138
RHER	Expense	\$ (57)	\$ 2,650	\$ (2,593)	\$ 2,620	\$ 4,212	\$ 4,212	\$ 4,212	\$ 4,212	\$ 4,212	\$ 4,212	\$ 4,212
RHER	Labor	\$ 175	\$ 212	\$ (386)	\$ 247	\$ 458	\$ 458	\$ 458	\$ 458	\$ 458	\$ 458	\$ 458
CIER	Expense	\$ (409)	\$ 28,799	\$ 31,059	\$ 21,386	\$ 22,688	\$ 22,688	\$ 22,688	\$ 22,688	\$ 22,688	\$ 22,688	\$ 22,688
CIER	Labor	\$ 1,263	\$ 1,528	\$ 5,677	\$ 1,784	\$ 2,248	\$ 2,248	\$ 2,248	\$ 2,248	\$ 2,248	\$ 2,248	\$ 2,248
Total	\$ 972	\$ 33,189	\$ 33,757	\$ 26,037	\$ 29,605	\$ 29,605	\$ 29,605	\$ 29,605	\$ 29,605	\$ 29,605	\$ 29,605	\$ 29,605
Monthly Over/(Under)	\$ 4,409	\$ (25,724)	\$ (18,230)	\$ 5,439	\$ 29,762	\$ 23,342	\$ 7,360	\$ (8,020)	\$ (17,326)	\$ (20,017)	\$ (20,814)	\$ (21,467)
Cumulative Over/(Under)	\$ 57,808	\$ 32,084	\$ 13,854	\$ 19,293	\$ 49,055	\$ 72,397	\$ 79,757	\$ 71,737	\$ 54,411	\$ 34,395	\$ 13,580	\$ (7,887)
INDUSTRIAL												
FY 2021 Over-Collection	\$ 16,336											
Volume Billed	31,390	32,253	64,683	103,724	152,583	129,553	104,954	67,713	42,375	36,414	33,686	31,183
ECR Surcharge	\$ (0.0107)	\$ (0.0095)	\$ (0.0095)	\$ (0.0112)	\$ (0.0129)	\$ (0.0129)	\$ (0.0098)	\$ (0.0066)	\$ (0.0066)	\$ (0.0066)	\$ (0.0066)	\$ (0.0066)
Revenue Billed	\$ (336)	\$ (306)	\$ (614)	\$ (1,162)	\$ (1,968)	\$ (1,671)	\$ (1,023)	\$ (447)	\$ (280)	\$ (240)	\$ (222)	\$ (206)
RHER	Expense	\$ (1)	\$ 29	\$ (28)	\$ 29	\$ 46	\$ 46	\$ 46	\$ 46	\$ 46	\$ 46	\$ 46
RHER	Labor	\$ 2	\$ 2	\$ (4)	\$ 3	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5
CIER	Expense	\$ (4)	\$ 284	\$ (280)	\$ 211	\$ 297	\$ 297	\$ 297	\$ 297	\$ 297	\$ 297	\$ 297
CIER	Labor	\$ 12	\$ 15	\$ (28)	\$ 18	\$ 33	\$ 33	\$ 33	\$ 33	\$ 33	\$ 33	\$ 33
Total	\$ 10	\$ 330	\$ (340)	\$ 260	\$ 380	\$ 380	\$ 380	\$ 380	\$ 380	\$ 380	\$ 380	\$ 380
Monthly Over/(Under)	\$ (346)	\$ (637)	\$ (275)	\$ (1,421)	\$ (2,349)	\$ (2,052)	\$ (1,404)	\$ (827)	\$ (660)	\$ (621)	\$ (603)	\$ (586)
Cumulative Over/(Under)	\$ 15,990	\$ 15,354	\$ 15,079	\$ 13,658	\$ 11,309	\$ 9,257	\$ 7,853	\$ 7,026	\$ 6,366	\$ 5,745	\$ 5,142	\$ 4,556

**PHILADELPHIA GAS WORKS
LOAD BALANCING CHARGE RECONCILIATION
CALENDAR YEAR 2021**

		<u>2021</u>
Actual Storage and Peaking Cost		\$ 16,471,006
WSS Volumes MDQ DTH	17,558	
Daily Demand Charge	\$ 0.45836	
Total Storage and Peaking Cost		\$ 2,937,394
Prior Year Carryover		\$ <u>(172,365)</u>
		\$ 19,236,036
Design Day Requirements	Annual Mcf	696,298
Fulfilled from FT Capacity	Annual Mcf	(298,152)
WSS Storage Withdrawal Volumes MCF		<u>17,030</u>
Fulfilled from Storage and Peaking Assets	Annual Mcf	415,175
Annual Load Balancing Cost per Excess Mcf	Annual \$ / Mcf	\$ 46.3323
BTU Conversion		1.031
	Annual \$ / Dth	\$ <u>44.9392</u>
Monthly Charge /Dth		\$ 3.7449
Over/(Under) Recovery		\$ 71,548
Interest		\$ <u>1,282</u>
Carryover		\$ 72,830

LOAD BALANCING CHARGE

2021 EXPENSE

	<u>Jan-21</u>	<u>Feb-21</u>	<u>Mar-21</u>	<u>Apr-21</u>	<u>May-21</u>	<u>Jun-21</u>	<u>Jul-21</u>	<u>Aug-21</u>	<u>Sep-21</u>	<u>Oct-21</u>	<u>Nov-21</u>	<u>Dec-21</u>	<u>Total</u>
Transco	\$ 449,273	\$ 414,872	\$ 415,722	\$ 391,002	\$ 409,704	\$ 403,846	\$ 412,368	\$ 413,060	\$ 407,908	\$ 410,734	\$ 394,512	\$ 413,575	\$ 4,936,577
Tetco	\$ 835,404	\$ 826,422	\$ 805,121	\$ 769,753	\$ 785,499	\$ 764,848	\$ 779,247	\$ 798,650	\$ 779,662	\$ 785,389	\$ 808,724	\$ 812,520	\$ 9,551,239
Eastern	\$ 139,123	\$ 137,462	\$ 128,751	\$ 125,910	\$ 127,511	\$ 123,576	\$ 133,877	\$ 133,964	\$ 133,642	\$ 134,550	\$ 126,292	\$ 130,757	\$ 1,575,415
WSS /Transportation	\$ 818	\$ 1,084	\$ 599	\$ 103	\$ 274	\$ -	\$ -	\$ -	\$ 1	\$ -	\$ 696	\$ 258	\$ 3,833
Purchased Electric	\$ 51,344	\$ 46,596	\$ 59,656	\$ 36,657	\$ 28,656	\$ 56,357	\$ 5,536	\$ 69,369	\$ 844	\$ 26,362	\$ 19,612	\$ 2,953	\$ 403,942
Total	\$ 1,475,962	\$ 1,426,437	\$ 1,409,847	\$ 1,323,424	\$ 1,351,645	\$ 1,348,627	\$ 1,331,028	\$ 1,415,044	\$ 1,322,056	\$ 1,357,035	\$ 1,349,836	\$ 1,360,063	\$ 16,471,006

2021 INTEREST CALCULATION

<u>MONTH *</u>	<u>LOAD BALANCING VOLUME (1) (DTH)</u>	<u>RATE* (2) (\$)</u>	<u>LOAD BALANCING CHARGE (3)=(1)*(2) (\$)</u>	<u>CHARGES BILLED (4) (\$)</u>	<u>OVER/(UNDER) RECOVERY (5)=(4)-(3) (\$)</u>	<u>TIME FACTOR (6)</u>	<u>INTEREST RATE (7)</u>	<u>INTEREST EXPENSE (8)=(5)*(6)*(7) (\$)</u>
Jan-21	52,978	3.7449	198,397	\$ 188,745	(9,653)	18/12	3.75%	(543)
Feb-21	52,756	3.7449	197,566	\$ 187,954	(9,612)	17/12	3.75%	(511)
Mar-21	52,902	3.7449	198,113	\$ 190,035	(8,078)	16/12	4.00%	(431)
Apr-21	52,466	3.7449	196,480	\$ 188,468	(8,012)	15/12	4.25%	(426)
May-21	47,604	3.7449	178,272	\$ 170,996	(7,276)	14/12	4.50%	(382)
Jun-21	48,242	3.7449	180,661	\$ 183,508	2,846	13/12	4.50%	139
Jul-21	48,508	3.7449	181,658	\$ 184,520	2,862	12/12	4.50%	129
Aug-21	48,248	3.7449	180,684	\$ 183,531	2,847	11/12	4.50%	117
Sep-21	48,782	3.7449	182,684	\$ 207,616	24,932	10/12	4.25%	883
Oct-21	49,946	3.7449	187,043	\$ 212,570	25,527	9/12	4.25%	814
Nov-21	41,826	3.7449	156,634	\$ 178,011	21,377	8/12	4.25%	606
Dec-21	45,906	3.7449	171,913	\$ 205,700	33,787	7/12	4.50%	887
Total	590,164		2,210,105	2,281,653	71,548			1,282

**PHILADELPHIA GAS WORKS
LOAD BALANCING CHARGE
SEPTEMBER 1, 2022**

Storage and Peaking Cost	<u>Units</u>		
	\$	\$	21,927,093
WSS Volumes MDQ DTH	17,557.5	\$	2,937,394
Daily Demand Charge	\$0.45836		
Total Storage and Peaking Cost		\$	24,864,487
Design Day Requirements	Annual mcf		696,298
Fulfilled from FT Capacity (Mcf)			(298,152)
WSS Storage Withdrawal Volumes MCF			<u>17,030</u>
Fulfilled from Storage and Peaking Assets	Annual mcf		415,175
<hr/>			
Annual Storage and Peaking Cost per Excess	Annual \$ / mcf	\$	59.8892
Per Mcf Over / (Under) Adjustment		\$	<u>0.1304</u>
Load Balancing Charge		\$	59.7588

Over / (Under) Recovery	\$	71,548
Interest	\$	<u>1,282</u>
Total Over/(Under) Recovery	\$	72,830
Forecasted SSPC Volumes		558,623
Per Mcf Over / (Under) Adjustment	\$	0.1304

Natural Gas Prices March 1, 2022 1307f GCR Filing

Basis Differentials

Prices Used For Gas Cost Inputs

	NYMEX	TRANSCO				TETCO							TRANSCO				TETCO							
		Futures 01/13/22 Close	Sta 30	Sta 45	Sta 65	Sta. 85	ELA	WLA	ETX	STX	Average ELA/ETX	M-1	M-2	Sta 30	Sta 45	Sta 65	Sta 85	ELA	WLA	ETX	STX	ELA/ETX	M-1	M-2
Jan-22	4.055												4.02	4.05	4.06	4.02	3.80	3.95	4.06	4.21	3.93	4.45	3.17	
Feb-22	5.186	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	5.08	5.05	5.17	5.18	5.13	5.11	5.05	5.06	5.09	5.09	5.09	
Mar-22	5.305	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	5.20	5.17	5.29	5.30	5.25	5.23	5.17	5.18	5.21	5.21	5.21	
Apr-22	5.202	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	5.09	5.06	5.18	5.19	5.14	5.12	5.06	5.07	5.10	5.10	5.10	
May-22	4.912	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	4.35	4.32	4.44	4.45	4.40	4.38	4.32	4.33	4.36	4.36	4.81	
Jun-22	3.893	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	3.87	3.84	3.96	3.97	3.92	3.90	3.84	3.85	3.88	3.88	3.79	
Jul-22	3.799	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	3.85	3.82	3.94	3.95	3.90	3.88	3.82	3.83	3.86	3.86	3.70	
Aug-22	3.836	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	3.87	3.84	3.96	3.97	3.92	3.90	3.84	3.85	3.88	3.88	3.74	
Sep-22	3.880	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	3.89	3.86	3.98	3.99	3.94	3.92	3.86	3.87	3.90	3.90	3.78	
Oct-22	3.882	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	3.90	3.87	3.99	4.00	3.95	3.93	3.87	3.88	3.91	3.91	3.78	
Nov-22	3.865	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	3.93	3.90	4.02	4.03	3.98	3.96	3.90	3.91	3.94	3.94	3.77	
Dec-22	3.895	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	4.03	4.00	4.12	4.13	4.08	4.06	4.00	4.01	4.04	4.04	3.80	
Jan-23	3.984	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	4.12	4.09	4.21	4.22	4.17	4.15	4.09	4.10	4.13	4.13	3.88	
Feb-23	4.153	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	4.13	4.10	4.22	4.23	4.18	4.16	4.10	4.11	4.14	4.14	4.05	
Mar-23	4.245	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	3.99	3.96	4.08	4.09	4.04	4.02	3.96	3.97	4.00	4.00	4.15	
Apr-23	4.141	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	3.58	3.55	3.67	3.68	3.63	3.61	3.55	3.56	3.59	3.59	4.04	
May-23	3.831	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	3.39	3.36	3.48	3.49	3.44	3.42	3.36	3.37	3.40	3.40	3.73	
Jun-23	3.190	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	3.08	3.05	3.17	3.18	3.13	3.11	3.05	3.06	3.09	3.09	3.09	
Jul-23	3.106	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	3.06	3.03	3.15	3.16	3.11	3.09	3.03	3.04	3.07	3.07	3.01	
Aug-23	3.145	(0.11)	(0.14)	(0.02)	(0.01)	(0.06)	(0.08)	(0.14)	(0.13)	(0.10)	(0.10)	(0.10)	3.08	3.05	3.17	3.18	3.13	3.11	3.05	3.06	3.09	3.09	3.05	

Philadelphia Gas Works Calculation of UFG and Retainage Percentages Twelve Months Ending August 31,2021		
	<u>UFG</u>	<u>RETAINAGE</u>
	Total Distribution System (MCF)	Firm Sales Sales Only (MCF)
A. Gas Received For Delivery To Customers		
From Interstate Pipelines directly into the Distribution System	72,986,760	72,986,760
Less gas delivered for Interruptible Customers sendout		25,647,855
From Interstate Pipelines directly into the Distribution System for Firm Customers Only		47,338,905
B. Gas Delivered		
To Customers	71,488,025	
To Customers - Delivered to Firm Customers Only		46,123,077
C. Adjustment		
Adjustment for PUC UFG Report and Retainage		
- Company use	296,018	296,018
- Unbilled Sales		(54,480)
Adjustment for PUC UFG Report Only		
- Maintenance and Construction	569.41	
- Gate station bleeds	7,743	
- Correction for 6" w.c.	562,644	
- Third party damage	-	-
Total Adjustments	866,974	241,538
D. Distribution UFG and Retainage Rate		
Total Distribution System Unaccounted for Gas	631,761	
Unaccounted For and Accounted For Volumes Applicable to Retainage % Calculation		974,290
E. Percent UFG and Retainage		
UFG Percentage	0.87%	
Retainage Percentage		2.1%

Tab 3

Philadelphia Gas Works

Pennsylvania Public Utility Commission
52 Pa. Code § 53.61, et seq.

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 below contain details of the requested information. Information concerning PGW's Transportation and Storage contracts are addressed in section 53.64(c) in the February 1, 2022 Prefiling.

Schedule 1 – Twelve (12) month purchased gas costs expressed in terms of volumes and dollars for the period January 1, 2021 to December 31, 2021. 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, 2021 through December 31, 2021 was provided in the February 1, 2022 Prefiling.

Schedule 3 – Twenty (20) month forecasted summary of total fuel purchased for the period January 1, 2022 through August 31, 2023.

Schedule 4 – Twenty (20) month forecast of capacity release credits by pipeline by month for the period January 1, 2022 through August 31, 2023.

Schedule 5 - 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 was provided in the February 1, 2022 Prefiling.

Philadelphia Gas Works

Summary Of Total Purchased

	Jan-21	Feb-21	Mar-21	Apr-21	May-21	June-21	July-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
Williams	\$ 2,803,035	\$ 2,527,216	\$ 2,656,169	\$ 2,699,754	\$ 2,815,821	\$ 2,719,656	\$ 2,819,435	\$ 2,824,797	\$ 2,737,693	\$ 2,844,286	\$ 2,283,929	\$ 2,401,316
Texas Eastern	\$ 2,667,781	\$ 2,671,464	\$ 2,524,519	\$ 2,853,231	\$ 2,862,091	\$ 2,801,077	\$ 2,785,638	\$ 2,865,241	\$ 2,951,710	\$ 3,007,080	\$ 2,182,701	\$ 2,181,178
Eastern Gas	\$ 139,123	\$ 137,462	\$ 128,751	\$ 125,910	\$ 127,511	\$ 123,576	\$ 133,877	\$ 133,964	\$ 133,642	\$ 134,550	\$ 126,292	\$ 130,757
Spot Purchases -Tranco	\$ 3,604	\$ 131,457	\$ 106,173	\$ 20,567	\$ 48,266	\$ 4,000	\$ 39,412	\$ 24,736	\$ 41,850	\$ 31,808	\$ -	\$ 108,510
Spot Purchases -Tranco												
Spot Purchases -Tetco												
Transco Supply2												
Transco Supply3												
Transco Supply6											\$ 2,710,050	\$ 2,467,755
Transco Supply7	\$ 757,950	\$ 768,600	\$ 891,250									
Transco Supply8												
Transco Supply10												
Transco Supply12												
Transco Supply14				\$ 290,625	\$ 315,813	\$ 353,625	\$ 478,563	\$ 500,263	\$ 526,125	\$ 709,513		
Transco Supply17												
Transco Supply20												
Transco Supply21												
Transco Supply22												
Transco Supply23												
Transco Supply24												
Transco Supply25												
Transco Supply26												
Transco Supply27												
Transco Supply28												
Transco Supply29												
Transco Supply30	\$ 1,897,116	\$ 3,337,640	\$ 1,259,791	\$ 252,300	\$ 332,025	\$ 4,500	\$ 243,930	\$ 123,310	\$ 4,500	\$ 1,791,250	\$ 1,371,575	\$ 1,427,850
Transco Supply31												
Transco Supply32				\$ 604,800	\$ 657,510	\$ 720,320	\$ 999,285	\$ 1,044,855	\$ 1,099,350	\$ 1,484,280	\$ 3,049,650	\$ 2,538,125
Transco Supply33												
Transco Supply34	\$ 793,600	\$ 706,540	\$ 793,600	\$ 385,050	\$ 458,335	\$ 451,050	\$ 565,285	\$ 630,385	\$ 659,550	\$ 909,385	\$ 1,860,225	\$ 1,691,283
Transco Supply35	\$ 557,188	\$ 2,279,590	\$ 540,113	\$ 127,750	\$ 1,938	\$ 1,875	\$ 1,938	\$ 1,938	\$ 1,875	\$ 1,269,098		
Transco Supply36												
Transco Supply37	\$ 1,717,633	\$ 1,761,410	\$ 2,050,883	\$ 519,891	\$ 560,484	\$ 655,164	\$ 919,959	\$ 966,553	\$ 1,025,556	\$ 1,415,855	\$ 4,515,675	\$ 4,092,698
Transco Supply40	\$ 522,203	\$ 537,481	\$ 626,643	\$ 148,500	\$ 162,750	\$ 186,300	\$ 260,400	\$ 273,420	\$ 289,800	\$ 398,970	\$ 3,039,352	\$ 2,748,688
Tetco Supply1												
Tetco Supply2												
Tetco Supply3												
Tetco Supply4												
Tetco Supply5	\$ 624,055	\$ 698,181	\$ 743,848									
Tetco Supply7												
Tetco Supply13												
Tetco Supply14												
Tetco Supply16											\$ 2,023,125	\$ 2,520,688
Tetco Supply17												
Tetco Supply18												
Tetco Supply19												
Tetco Supply20												
Tetco Supply21												
Tetco Supply22												
Tetco Supply23												
Tetco Supply24	\$ 1,880,250	\$ 2,306,600	\$ 1,775,350	\$ 529,891	\$ 645,665	\$ 571,644	\$ 808,442	\$ 782,130	\$ 1,156,620	\$ 1,383,144	\$ 817,500	\$ 756,400
Tetco Supply25												
Tetco Supply26	\$ 1,631,300	\$ 2,557,370	\$ 878,400	\$ 315,000	\$ 820,750	\$ 1,084,744	\$ 952,062.70	\$ 2,276,737	\$ 3,118,250	\$ 1,668,655	\$ 806,875	\$ 1,566,950
Tetco Supply27												
Tetco Supply28	\$ 299,150	\$ 331,342	\$ 356,500									
Tetco Supply29												
Tetco Supply30												
Tetco Supply31				\$ 219,373	\$ 256,990	\$ 263,258	\$ 320,230	\$ 345,030	\$ 407,100	\$ 554,590		
Tetco Supply32												
Tetco Supply33	\$ 844,756	\$ 983,073	\$ 1,040,732	\$ 182,259	\$ 257,300	\$ 277,500	\$ 336,350	\$ 367,350	\$ 447,000	\$ 629,300	\$ 2,596,158	\$ 2,380,787
Tetco Supply34	\$ 151,125	\$ 175,140	\$ 185,535	\$ 138,989	\$ 164,843	\$ 174,428	\$ 212,273	\$ 230,873	\$ 278,325	\$ 388,043	\$ 458,325	\$ 420,593
Tetco Supply35	\$ 87,350										\$ 1,251,578	\$ 2,268,905
Tetco Supply36												
Tetco Supply37				\$ 545,883	\$ 641,700	\$ 589,686	\$ 774,869	\$ 861,800	\$ 1,017,000	\$ 1,385,700	\$ 2,023,125	\$ 1,869,688
Tetco Supply38				\$ 218,913	\$ 256,990	\$ 230,186	\$ 320,230	\$ 344,830	\$ 407,049	\$ 554,590		
TOTAL COSTS	\$ 17,377,217	\$ 21,910,567	\$ 16,558,256	\$ 10,178,684	\$ 11,386,780	\$ 11,212,589	\$ 12,972,177	\$ 14,598,211.07	\$ 16,302,994.82	\$ 20,560,094.67	\$ 31,116,135.23	\$ 31,572,167.90
Storage Injection	\$ 5	\$ 22	\$ 23,392	\$ 12,352	\$ 76,654	\$ 61,797	\$ 78,847	\$ 100,333	\$ 85,978	\$ 85,723	\$ 24,358	\$ 82,683
Storage Withdrawal	\$ 177,506	\$ 166,381	\$ 81,753	\$ 39,524	\$ 1,464	\$ 341	\$ 31	\$ -	\$ 1	\$ -	\$ 70,686	\$ 27,933

Philadelphia Gas Works
Cost Of Fuels Purchased

Amounts - \$	Jan-21	Feb-21	Mar-21	Apr-21	May-21	June-21	July-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
Spot Purchases - Transco	\$ 3,604	\$ 131,457	\$ 106,173	\$ 20,567	\$ 48,266	\$ 4,000	\$ 39,412	\$ 24,736	\$ 41,850	\$ 31,808	\$ -	\$ 108,510
Spot - Transco												
Spot Purchases - Tetco												
Spot for Resale												
Firm Contracts												
Transco Supply2 - Dem												
Commodity												
Transco Supply3 - Dem												
Commodity												
Transco Supply6 - Dem											\$ 2,710,050	\$ 2,467,755
Commodity												
Transco Supply7 - Dem												
Commodity	\$ 757,950	\$ 768,600	\$ 891,250									
Transco Supply8 - Dem												
Commodity												
Transco Supply10 - Dem												
Commodity				\$ 290,625	\$ 315,813	\$ 353,625	\$ 478,563	\$ 500,263	\$ 526,125	\$ 709,513		
Transco Supply14 - Dem												
Commodity												
Transco Supply22 - Dem												
Commodity												
Transco Supply23 - Dem												
Commodity												
Transco Supply25 - Dem												
Commodity												
Transco Supply26 - Dem												
Commodity												
Transco Supply29 - Dem												
Commodity												
Transco Supply30 - Dem												
Commodity	\$ 1,022,186	\$ 1,036,665	\$ 1,202,141									
Transco Supply30 - Dem												
Commodity	\$ 4,650	\$ 4,200	\$ 4,650	\$ 4,500	\$ 4,650	\$ 4,500	\$ 4,650	\$ 4,650	\$ 4,500	\$ 4,650	\$ 6,000	\$ 6,200
Transco Supply31 - Dem												
Commodity	\$ 870,280	\$ 2,296,775	\$ 53,000	\$ 247,800	\$ 327,375		\$ 239,280	\$ 118,660		\$ 1,786,600	\$ 1,365,575	\$ 1,421,650
Transco Supply31 - Dem												
Commodity												
Transco Supply32 - Dem												
Commodity				\$ 604,800	\$ 657,510	\$ 720,320	\$ 999,285	\$ 1,044,855	\$ 1,099,350	\$ 1,484,280	\$ 18,750	\$ 19,375
Transco Supply33 - Dem												
Commodity											\$ 3,030,900	\$ 2,518,750
Transco Supply34 - Dem												
Commodity	\$ 396,800	\$ 353,270	\$ 396,800									\$ 923,550
Transco Supply34 - Dem												
Commodity	\$ 396,800	\$ 353,270	\$ 396,800	\$ 385,050	\$ 458,335	\$ 451,050	\$ 565,285	\$ 630,385	\$ 669,850	\$ 909,385	\$ 936,675	\$ 851,648
Transco Supply35 - Dem												
Commodity	\$ 1,938	\$ 1,750	\$ 1,938	\$ 1,875	\$ 1,938	\$ 1,875	\$ 1,938	\$ 1,938	\$ 1,875	\$ 1,938	\$ 1,875	\$ 1,267,160
Transco Supply36 - Dem												
Commodity												
Transco Supply37 - Dem												
Commodity	\$ 233,275	\$ 240,100	\$ 279,930	\$ 173,513	\$ 190,146	\$ 217,613	\$ 304,071	\$ 319,261	\$ 338,363	\$ 465,736	\$ 623,700	\$ 564,200
Transco Supply37 - Dem												
Commodity****					\$ (1,862)							
Transco Supply37 - Dem												
Commodity	\$ 233,818	\$ 240,590	\$ 280,473	\$ 173,775	\$ 190,418	\$ 217,875	\$ 304,343	\$ 319,533	\$ 338,625	\$ 466,008	\$ 627,375	\$ 567,998
Transco Supply37 - Dem												
Commodity****					\$ (8,156)							
Transco Supply37 - Dem												
Commodity	\$ 506,540	\$ 524,720	\$ 613,180	\$ 172,603	\$ 189,938	\$ 219,677	\$ 311,545	\$ 327,759	\$ 348,569	\$ 484,111	\$ 1,407,600	\$ 1,271,000
Transco Supply37 - Dem												
Commodity	\$ 744,000	\$ 756,000	\$ 877,300									\$ 1,857,000
Transco Supply40 - Dem												
Commodity	\$ 522,203	\$ 537,481	\$ 626,843	\$ 148,500	\$ 162,750	\$ 186,300	\$ 260,400	\$ 273,420	\$ 289,800	\$ 398,970	\$ 1,396,197	\$ 1,263,002
Transco Supply40 - Dem												
Commodity												\$ 1,643,155
Tetco Supply1 - Dem												
Commodity												
Tetco Supply3 - Dem												
Commodity												
Tetco Supply6 - Dem												
Commodity	\$ 624,055	\$ 698,181	\$ 743,848									
Tetco Supply16 - Dem												
Commodity												\$ 2,023,125
Tetco Supply16 - Dem												
Commodity												\$ 1,869,688
Tetco Supply19 - Dem												
Commodity												\$ 651,000
Tetco Supply24 - Dem												
Commodity	\$ 303,800	\$ 338,800	\$ 361,150	\$ 279,708	\$ 318,336	\$ 345,000	\$ 406,100	\$ 437,100	\$ 514,500	\$ 699,050	\$ 817,500	\$ 756,400
Tetco Supply24 - Dem												
Commodity	\$ 892,800	\$ 999,600	\$ 1,064,850	\$ 219,373	\$ 256,990	\$ 226,644	\$ 320,230	\$ 345,030	\$ 407,100	\$ 554,590		
Tetco Supply24 - Dem												
Commodity	\$ 3,100	\$ 2,800	\$ 3,100									
Tetco Supply25 - Dem												
Commodity	\$ 680,550	\$ 965,400	\$ 346,250	\$ 30,810	\$ 70,339		\$ 82,112		\$ 235,020	\$ 129,504		
Tetco Supply26 - Dem												
Commodity	\$ 1,631,300	\$ 2,557,370	\$ 878,400	\$ 315,000	\$ 820,750	\$ 1,084,744	\$ 951,459	\$ 2,276,800	\$ 3,118,250	\$ 1,668,655	\$ 806,875	\$ 1,566,950
Tetco Supply26 - Dem												
Commodity*****							\$ 604	\$ (63)				
Tetco Supply28 - Dem												
Commodity	\$ 299,150	\$ 331,342	\$ 356,500									
Tetco Supply29 - Dem												
Commodity												
Tetco Supply30 - Dem												
Commodity				\$ 219,373	\$ 256,990	\$ 263,258	\$ 320,230	\$ 345,030	\$ 407,100	\$ 554,590		
Tetco Supply31 - Dem												
Commodity												
Tetco Supply32 - Dem												
Commodity												
Tetco Supply33 - Dem												
Commodity	\$ 610,706	\$ 707,273	\$ 749,332									\$ 1,849,158
Tetco Supply33 - Dem												
Commodity****				\$ (36,741)								\$ 1,697,237
Tetco Supply33 - Dem												
Commodity	\$ 234,050	\$ 275,800	\$ 291,400	\$ 213,810	\$ 257,300	\$ 272,894	\$ 336,350	\$ 367,350	\$ 447,000	\$ 629,300	\$ 747,000	\$ 683,550
Tetco Supply33 - Dem												
Commodity****				\$ 5,190	\$ 4,607							
Tetco Supply34 - Dem												
Commodity	\$ 151,125	\$ 175,140	\$ 185,535	\$ 139,404	\$ 164,843	\$ 174,725	\$ 212,273	\$ 230,873	\$ 278,325	\$ 388,043	\$ 458,325	\$ 420,593
Tetco Supply34 - Dem												
Commodity*****				\$ (415)	\$ 70	\$ (298)						
Tetco Supply35 - Dem												
Commodity	\$ 87,350											\$ 45,000
Tetco Supply35 - Dem												
Commodity												\$ 881,928
Tetco Supply35 - Dem												
Commodity												\$ 2,350
Tetco Supply35 - Dem												
Commodity												\$ 322,400
Tetco Supply36 - Dem												
Commodity												\$ 636,150
Tetco Supply36 - Dem												
Commodity												\$ 815,300
Tetco Supply37 - Dem												
Commodity				\$ 545,883	\$ 641,700	\$ 589,686	\$ 774,869	\$ 861,800	\$ 1,017,000	\$ 1,385,700	\$ 2,023,125	\$ 1,869,688
Tetco Supply38 - Dem												
Commodity				\$ 219,373	\$ 256,9							

**Philadelphia Gas Works
Volumes Purchased
Williams Pipeline Company**

Volumes-DTH	Jan-21	Feb-21	Mar-21	Apr-21	May-21	June-21	July-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
S-2 Storage Capacity	1,088,612	1,205,249	1,166,370	1,205,249	1,166,370	1,205,249	1,205,249	1,166,370	1,205,249	1,166,370	1,205,249	1,205,249
S-2 Demand	145,348	160,921	155,730	160,921	155,730	160,921	160,921	155,730	160,921	155,730	160,921	160,921
Handling fr Stg.	91,692	99,848	33,445	4,070							42,515	58,995
Handling to Stg.				17,917	38,878	52,787	53,781	55,800	54,000	56,398	8,478	
GSS Demand	1,908,577	1,723,876	1,908,577	1,847,010	1,908,577	1,847,010	1,908,577	1,908,577	1,847,010	1,908,577	1,847,010	1,908,577
Stg. Cap.Vol. Chg.	127,835,723	115,464,524	127,835,723	123,711,990	127,835,723	123,711,990	127,835,723	127,835,723	123,711,990	127,835,723	123,711,990	127,835,723
Handling fr Stg.	1,192,772	1,084,855	280,795	73,546	8,253		646				156,635	298,265
Storage Injection			230,701	159,739	375,176	438,800	386,062	431,229	525,572	430,417	114,749	140,761
WSS Demand	1,088,565	983,220	1,088,565	1,053,450	1,088,565	1,053,450	1,088,565	1,088,565	1,053,450	1,088,565	1,053,450	1,088,565
Stg. Cap Vol Chg.	103,413,179	93,405,452	103,413,179	100,077,270	103,413,179	100,077,270	103,413,179	103,413,179	100,077,270	103,413,179	100,077,270	103,413,179
Handling fr Stg.	146,044	193,633	106,932	18,364	48,973				183		124,298	46,014
Handling to Stg.			5,871		18,145	141,433	97,416	50,588	38,289	20,507	1,744	83,747
FT Demand/.3691	5,121,572	4,625,936	5,145,349	4,979,370	5,145,349	4,979,370	5,145,349	5,145,349	4,979,370	5,145,349	4,979,370	5,121,572
FT Commodity/.3691	2,529,811	1,943,521	1,302,362	1,268,636	1,319,972	1,012,235	1,167,641	1,186,066	1,130,199	1,749,176	764,521	731,397
PSFT Demand/5001	84,754	76,552										84,754
PSFT Commodity/5001												
Eminence Cust.Dem.												
Eminence Cust. Cap.												
Eminence Storage Dem.												
Eminence Storage Cap.												
Handling fr Stg.												
Handling to Stg.												
Capacity Rel. Dem.Credit #3691*	(2,123,500)	(2,113,000)	(2,123,500)	(2,250,000)	(2,325,000)	(2,250,000)	(2,325,000)	(2,325,000)	(2,550,000)	(2,635,000)	(3,600,000)	(3,720,000)
Capacity Rel.Dem. Credit #5001	(507,284)	(453,964)	(503,905)	(488,970)	(465,837)	(449,070)	(448,229)	(441,316)	(422,130)	(423,925)	(426,330)	(475,137)
S2 Credit												
Eminence #2 Demand												
Eminence #2 Capacity												
Handling to Stg.												
Handling fr. Stg.												
Eminence #2 adj.												
Cashout / Cashout Majority Sell												
S 2 Adj. (02/1/16 - 02/29/16)												
WSS Capacity Release												
Eminence Capacity Release												
Unauthorized Overrun 02/2016												
Eminence Capacity Release												
Cashout / Cashout 03/31/16												

* While the amount charged for the release is zero, the money will be recovered in the Sales Service Charge to make the GCR whole.

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

Rate - \$	Jan-21	Feb-21	Mar-21	Apr-21	May-21	June-21	July-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
S-2 Capacity	0.01086	0.01086	0.01086	0.01086	0.01086	0.01086	0.01086	0.01086	0.01086	0.01086	0.01086	0.01086
Storage Demand	0.20533	0.20183	0.20349	0.20349	0.20349	0.20349	0.20372	0.20372	0.20372	0.20372	0.20372	0.20358
Handling fr Stg.	0.08747	0.08427	0.08425	0.08426	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.08497	0.07787
Handling to Stg.	0.00000	0.00000	0.00000	0.05445	0.05445	0.05445	0.05445	0.05445	0.05445	0.05455	0.05455	0.00000
GSS Demand	0.10555	0.10555	0.10555	0.10548	0.10548	0.10548	0.10548	0.10548	0.10548	0.10548	0.10537	0.10537
Stg. Cap.Vol. Chg.	0.00063	0.00063	0.00063	0.00063	0.00063	0.00063	0.00063	0.00063	0.00063	0.00063	0.00063	0.00063
Handling fr Stg.	0.04639	0.04639	0.04639	0.04756	0.04756	0.00000	0.04757	0.00000	0.00000	0.00000	0.04304	0.04304
Storage Injection	0.00000	0.00000	0.04972	0.05089	0.05089	0.05089	0.05089	0.05089	0.05089	0.04580	0.04619	0.04619
WSS Demand	0.03102	0.03102	0.03102	0.03102	0.03102	0.03102	0.03102	0.03102	0.03102	0.03102	0.03102	0.03102
Stg. Cap Vol Chg.	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033
Handling fr Stg.	0.00440	0.00440	0.00440	0.00440	0.00440	0.00000	0.00000	0.00000	0.00443	0.00000	0.00440	0.00440
Handling to Stg.	0.00000	0.00000	0.00440	0.00000	0.00440	0.00440	0.00440	0.00440	0.00440	0.00440	0.00438	0.00440
FT Demand/.3691	0.52866	0.52866	0.52669	0.52584	0.52584	0.52584	0.52584	0.52584	0.52584	0.52584	0.52584	0.52781
FT Commodity/.3691	0.04134	0.04040	0.03822	0.02501	0.02399	0.01680	0.01970	0.02015	0.01971	0.02425	0.03629	0.03098
PSFT Demand/.5001	0.74098	0.74098	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.73977
PSFT Commodity/.5001												
Eminence Cust.Dem.												
Eminence Cust. Cap.												
Eminence Storage Dem.												
Eminence Storage Cap.												
Handling fr Stg.												
Handling to Stg.												
Capacity Rel. Dem.Credit #3691*	0.11480	0.10421	0.11480	0.03307	0.03307	0.03307	0.03307	0.03307	0.03153	0.03153	0.14554	0.14554
Capacity Rel. Dem Credit #5001	0.54685	0.54685	0.54685	0.54595	0.54595	0.54595	0.54595	0.54595	0.54595	0.54595	0.54595	0.54595
S2 Credit												
Eminence #2 Demand												
Eminence #2 Capacity												
Handling to Stg.												
Handling fr Stg.												
WSS Capacity Release												
Eminence Capacity Release												
S 2 Adj. (02/1/15 - 02/29/16)												
Cashout / Cashout Majority Sell												
Unauthorized Overrun 02/2016												
Cashout / Cashout 03/31/16												

* While the amount charged for the release is zero, the money will be recovered in the Sales Service Charge to make the GCR whole.

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

Amount - \$	Jan-21	Feb-21	Mar-21	Apr-21	May-21	June-21	July-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
S-2 Capacity	\$ 11,822	\$ 13,089	\$ 12,667	\$ 13,089	\$ 12,667	\$ 13,089	\$ 13,089	\$ 12,667	\$ 13,089	\$ 12,667	\$ 13,089	\$ 13,089
Storage Demand	\$ 29,844	\$ 32,478	\$ 31,689	\$ 32,746	\$ 31,689	\$ 32,746	\$ 32,783	\$ 31,725	\$ 32,783	\$ 31,725	\$ 32,783	\$ 32,760
Handling fr Stg.	\$ 8,020	\$ 8,414	\$ 2,818	\$ 343	\$ 976	\$ 2,874	\$ 2,928	\$ 3,038	\$ 2,940	\$ 3,077	\$ 3,612	\$ 4,594
Handling to Stg.					\$ 2,117	\$ 2,928	\$ 2,928	\$ 3,038	\$ 2,940	\$ 3,077	\$ 462	
GSS Demand	\$ 201,451	\$ 181,955	\$ 201,451	\$ 194,823	\$ 201,317	\$ 194,823	\$ 201,317	\$ 201,317	\$ 194,823	\$ 201,317	\$ 194,620	\$ 201,107
Stg. Cap.Vol. Chg.	\$ 80,536	\$ 72,743	\$ 80,536	\$ 77,939	\$ 80,536	\$ 77,939	\$ 80,536	\$ 80,536	\$ 77,939	\$ 80,536	\$ 77,939	\$ 80,536
Handling fr Stg.	\$ 55,333	\$ 50,326	\$ 13,026	\$ 3,498	\$ 393	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 6,742	\$ 12,837
Storage Injection			\$ 11,470	\$ 8,129	\$ 19,093	\$ 22,331	\$ 19,647	\$ 21,945	\$ 26,746	\$ 19,713	\$ 5,300	\$ 6,502
WSS Demand	\$ 33,767	\$ 30,499	\$ 33,767	\$ 32,678	\$ 33,767	\$ 32,678	\$ 33,767	\$ 33,767	\$ 32,678	\$ 33,767	\$ 32,678	\$ 33,767
Stg. Cap Vol Chg.	\$ 34,126	\$ 30,824	\$ 34,126	\$ 33,026	\$ 34,126	\$ 33,026	\$ 34,126	\$ 34,126	\$ 33,026	\$ 34,126	\$ 33,026	\$ 34,126
Handling fr Stg.	\$ 643	\$ 852	\$ 471	\$ 81	\$ 215	\$ 80	\$ 622	\$ 429	\$ 223	\$ 1	\$ 547	\$ 202
Handling to Stg.			\$ 26	\$ 80	\$ 80	\$ 622	\$ 429	\$ 223	\$ 168	\$ 90	\$ 8	\$ 368
FT Demand/.3691	\$ 2,707,560	\$ 2,445,538	\$ 2,710,016	\$ 2,618,374	\$ 2,705,653	\$ 2,618,374	\$ 2,705,653	\$ 2,705,653	\$ 2,618,374	\$ 2,705,653	\$ 2,618,374	\$ 2,703,200
FT Commodity/.3691	\$ 104,593	\$ 78,524	\$ 49,775	\$ 31,731	\$ 31,668	\$ 17,005	\$ 23,004	\$ 23,900	\$ 22,273	\$ 42,421	\$ 27,748	\$ 22,657
PSFT Demand/5001	\$ 62,801	\$ 56,724										\$ 62,698
PSFT Commodity												
Eminence Cust.Dem.												
Eminence Cust. Cap.												
Eminence Storage Dem.												
Eminence Storage Cap.												
Handling fr Stg.												
Handling to Stg.												
Capacity Rel. Dem.Credit #3691*	\$ (243,784)	\$ (220,192)	\$ (243,784)	\$ (74,400)	\$ (76,880)	\$ (74,400)	\$ (76,880)	\$ (76,880)	\$ (80,400)	\$ (83,080)	\$ (523,950)	\$ (541,415)
Capacity Rel. Dem.Credit #5001	\$ (277,408)	\$ (248,249)	\$ (275,560)	\$ (266,953)	\$ (254,325)	\$ (245,169)	\$ (244,710)	\$ (240,936)	\$ (230,462)	\$ (231,443)	\$ (232,755)	\$ (259,400)
S2 Credit	\$ (6,269)	\$ (6,309)	\$ (6,326)	\$ (6,324)	\$ (6,296)	\$ (6,281)	\$ (6,285)	\$ (6,285)	\$ (6,285)	\$ (6,285)	\$ (6,293)	\$ (6,315)
Eminence #2 Demand												
Eminence #2 Capacity												
Handling to Stg.												
Handling fr Stg.												
Eminence #2 adj.												
Cashout / Cashout 02/29/2016												
S2 Adj. (02/1/15 - 02/28/15)												
WSS Capacity Release												
Eminence Capacity Release												
FT-Demand Charges Paid by VA Power												
Cashout / Cashout 03/31/16												
S2 Adj. (02/1/16 - 02/29/16)												
Cashout / Cashout Majority Sell												
Unauthorized Overrun 02/2016												
TOTAL	\$ 2,803,035	\$ 2,527,216	\$ 2,656,169	\$ 2,699,754	\$ 2,815,821	\$ 2,719,656	\$ 2,819,435	\$ 2,824,797	\$ 2,737,693	\$ 2,844,286	\$ 2,283,929	\$ 2,401,316

* While the amount charged for the release is zero, the money will be recovered in the Sales Service Charge to make the GCR whole.

Philadelphia Gas Works
Volumes Purchased
Texas Eastern

Volumes - Dth	Jan-21	Feb-21	Mar-21	Apr-21	May-21	June-21	July-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
CDS Market Area Demand	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
CDS Access Area Demand	97,573	97,573	97,573	97,573	97,573	97,573	97,573	97,573	97,573	97,573	97,573	97,573
CDS Commodity	1,407,629	1,262,104	934,399	1,023,418	1,303,811	1,296,442	1,262,438	1,536,149	1,671,242	1,320,296	656,904	1,399,958
CDS ACA Charge	1,407,629	1,262,104	934,399	1,023,418	1,303,811	1,296,442	1,262,438	1,536,149	1,671,242	1,320,296	656,904	1,399,958
CDS PCB True-up Settlement												
FT1 Market Area Demand	23,822	23,822	23,822	23,822	23,822	23,822	23,822	23,822	23,822	23,822	23,822	23,822
FT1 Access Area Demand	54,878	54,878	54,878	54,878	54,878	54,878	54,878	54,878	54,878	54,878	54,878	54,878
FT1 Commodity												
FT1 ACA Charge												
FT1 PCB True-up Settlement												
SS1 Demand 400121	44,118	44,118	44,118	44,118	44,118	44,118	44,118	44,118	44,118	44,118	44,118	44,118
Space Charge	220,590	220,590	220,590	220,590	220,590	220,590	220,590	220,590	220,590	220,590	220,590	220,590
Handling fr Storage	528,777	537,822	335,148	138,450							300,450	
Excess Withdrawal												
Storage Injection	84		56,889	3,643	118,844	358,277	174,434	421,786	352,927	164,761	52,300	174,603
Excess Injection			4,066		77,146		36,270		6,588	60,062	17,546	117,140
Storage Surcharge Credit												
PCB True-up Settlement 400121												
SS1 Demand 400209	20,847	20,847	20,847	20,847	20,847	20,847	20,847	20,847	20,847	20,847	20,847	20,847
Space Charge	205,177	205,177	205,177	205,177	205,177	205,177	205,177	205,177	205,176	205,176	205,176	205,176
Handling fr Storage	499,768	470,856	334,585	211,039	6,371	3,822					359,248	4,169
Excess Withdrawal												
Storage Injection		404	85,514	38,907	214,092	148,541	337,589	322,422	379,680	292,518	61,579	195,708
Excess Injection						283		52,507				24,641
Storage Surcharge Credit												
PCB True-up Settlement 400209												
FTS-2 Demand	5,394	5,394	5,394	5,394	5,394	5,394	5,394	5,394	5,394	5,394	5,394	5,394
FTS-7 Demand	7,788	7,788	7,788	7,788	7,788	7,788	7,788	7,788	7,788	7,788	7,788	7,788
FTS-8 Demand	25,709	25,709	25,709	25,709	25,709	25,709	25,709	25,709	25,709	25,709	25,709	25,709
FTS-2 PCB True-up Settlement												
FT-1 Market Demand 800514	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000
FT-1 Access Area Demand 800514	11,474	11,474	11,474	11,474	11,474	11,474	11,474	11,474	11,474	11,474	11,474	11,474
FT Commodity	557,995	503,256	555,138								540,000	558,000
FT-1 ACA Charge	557,995	503,256	555,138								540,000	558,000
FT3-3 Cap.Rel. dem.credit 800514				(540,000)	(558,000)	(540,000)	(558,000)	(558,000)	(540,000)	(558,000)		
FT3-3 Cap.Rel. dem.credit 800514												
PCB True-up Settlement 800514												
FT-1 Market Demand 800515	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000
FT-1 Access Area Demand 800515	11,474	11,474	11,474	11,474	11,474	11,474	11,474	11,474	11,474	11,474	11,474	11,474
FT Commodity	558,000	502,670	557,523								540,000	558,000
FT-1 ACA Charge	558,000	502,670	557,523								540,000	558,000
FT1-3 Cap.Rel. dem. credit 800515				(540,000)	(558,000)	(540,000)	(558,000)	(558,000)	(540,000)	(558,000)		
FT1-3 Cap.Rel. dem. credit 800515												
PCB True-up Settlement 800515												
CDS 800232 M1-M1 Cap. Rel.	(506,974)	(453,488)	(503,502)	(488,490)	(465,403)	(448,590)	(447,950)	(440,851)	(421,650)	(423,305)	(426,060)	(474,641)
FT1-800233 M3-M3 Cap. Rel.	(579,948)	(523,824)	(579,948)	(561,240)	(579,948)	(561,240)	(579,948)	(579,948)	(561,240)	(579,948)	(561,240)	(579,948)
FTS-2,7,8 ACA	1,021,112	928,863	424,140	354,806	164,327	374,580	664,144	434,208	150,000	155,000	175,524	621,368
FTS-2,7,8 Commodity												
CSHOUT UNDER 5% DS				(3,340)					(66)			

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

Volumes - Dth	Jan-21	Feb-21	Mar-21	Apr-21	May-21	June-21	July-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
CDS Market Area Demand	12.7230	12.5040	12.5040	12.5040	12.5040	12.5040	12.5040	12.5320	12.5320	12.5320	12.5320	12.5140
CDS Access Area Demand	4.1061	4.1038	4.1038	4.1038	4.1038	4.1038	4.1038	4.1013	4.1013	4.1013	4.1013	4.1013
CDS Commodity	0.0933	0.0836	0.0836	0.0836	0.0836	0.0836	0.0836	0.0858	0.0858	0.0858	0.0858	0.0777
CDS ACA Charge	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0012	0.0012	0.0012
CDS PCB True-up Settlement	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FT1 Market Area Demand	12.5000	12.2810	12.2810	12.2810	12.2810	12.2810	12.2810	12.3090	12.3090	12.3090	12.3090	12.2910
FT1 Access Area Demand	4.3052	4.3024	4.3024	4.3024	4.3024	4.3024	4.3024	4.2994	4.2994	4.2994	4.2994	4.2994
FT1 Commodity	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FT1 PCB True-up Settlement	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 400121	6.6200	6.5640	6.5640	6.5640	6.5640	6.5640	6.5640	6.5710	6.5710	6.5710	6.5710	6.5700
Space Charge	0.3371	0.3371	0.3371	0.3371	0.3371	0.3371	0.3371	0.3371	0.3371	0.3371	0.3371	0.3371
Handling fr Storage	0.0923	0.0891	0.0891	0.0891	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0898	0.0000
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	0.0552	0.0000	0.0552	0.0552	0.0552	0.0552	0.0552	0.0552	0.0552	0.0552	0.0552	0.0537
Excess Injection	0.0000	0.0000	0.3929	0.0000	0.3929	0.0000	0.3929	0.0000	0.3929	0.3929	0.3929	0.3912
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
PCB True-up Settlement 400121	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	6.6200	6.5640	6.5640	6.5640	6.5640	6.5640	6.5640	6.5710	6.5710	6.5710	6.5710	6.5700
Space Charge	0.3371	0.3371	0.3371	0.3371	0.3371	0.3371	0.3371	0.3371	0.3371	0.3371	0.3371	0.3371
Handling fr Storage	0.0923	0.0891	0.0891	0.0891	0.0891	0.0891	0.0000	0.0000	0.0000	0.0000	0.0898	0.0827
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	0.0000	0.0552	0.0552	0.0552	0.0552	0.0552	0.0552	0.0552	0.0552	0.0552	0.0552	0.0537
Excess Injection	0.0000	0.0000	0.0000	0.0000	0.0000	0.3929	0.0000	0.3929	0.0000	0.0000	0.0000	0.3912
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
PCB True-up Settlement 400209	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	8.4680	8.4680	8.4680	8.4680	8.4680	8.4680	8.4680	8.4680	8.4680	8.4680	8.4680	8.4670
FTS-7 Demand	7.4250	7.4250	7.4250	7.4250	7.4250	7.4250	7.4250	7.4250	7.4250	7.4250	7.4250	7.4250
FTS-8 Demand	7.2810	7.2810	7.2810	7.2810	7.2810	7.2810	7.2810	7.2810	7.2810	7.2810	7.2810	7.2810
FTS-2 PCB True-up Settlement	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FT-1 Market Demand 800514	12.5000	12.2810	12.2810	12.2810	12.2810	12.2810	12.2810	12.3090	12.3090	12.3090	12.3090	12.2910
FT-1 Access Area Demand 800514	2.8737	2.8725	2.8725	2.8725	2.8725	2.8725	2.8725	2.8711	2.8711	2.8711	2.8711	2.8711
FT Commodity	0.0933	0.0836	0.0836	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0858	0.0777
FT-1 ACA Charge	0.0011	0.0011	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0012	0.0012
FT3-3 Cap.Rel. demand credit 800514	0.0000	0.0000	0.0000	0.0800	0.1483	0.1996	0.1993	0.1932	0.1231	0.0310	0.0000	0.0000
FT3-3 Cap.Rel. demand credit 800514	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PCB True-up Settlement 800514	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FT-1 Market Demand 800515	12.5000	12.2810	12.2810	12.2810	12.2810	12.2810	12.2810	12.3090	12.3090	12.3090	12.3090	12.2910
FT-1 Access Area Demand 800515	2.8737	2.8725	2.8725	2.8725	2.8725	2.8725	2.8725	2.8711	2.8711	2.8711	2.8711	2.8711
FT Commodity	0.0933	0.0836	0.0836	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0858	0.0777
FT-1 ACA Charge	0.0011	0.0011	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0012	0.0012
FT1-3 Cap.Rel. demand credit 800515	0.0000	0.0000	0.0000	0.0800	0.1483	0.1996	0.1993	0.1932	0.1231	0.0610	0.0000	0.0000
FT1-3 Cap.Rel. demand credit 800515	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PCB True-up Settlement 800515	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CDS 800232 M1-M1 Cap. Rel.	0.5663	0.5590	0.5590	0.5590	0.5590	0.5590	0.5590	0.5590	0.5599	0.5598	0.5598	0.5591
FT1-800233 M3-M3 Cap. Rel.	0.9819	0.9819	0.9819	0.0500	0.0500	0.0500	0.0500	0.0500	0.0500	0.0500	1.7005	1.7005
FTS-2,7,8 ACA	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0012	0.0012	0.0012
FTS-2,7,8 Commodity	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CSHOUT UNDER 5%	0.0000	0.0000	0.0000	2.0580	0.0000	0.0000	0.0000	0.0000	3.5620	0.0000	0.0000	0.0000

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

Amount - \$	Jan-21	Feb-21	Mar-21	Apr-21	May-21	June-21	July-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
CDS Market Area Demand	\$ 954,225	\$ 937,800	\$ 937,800	\$ 937,800	\$ 937,800	\$ 937,800	\$ 937,800	\$ 939,900	\$ 939,900	\$ 939,900	\$ 939,900	\$ 938,550
CDS Access Area Demand	\$ 400,646	\$ 400,423	\$ 400,423	\$ 400,423	\$ 400,423	\$ 400,423	\$ 400,177	\$ 400,177	\$ 400,177	\$ 400,177	\$ 400,177	\$ 400,177
CDS Commodity	\$ 131,332	\$ 105,512	\$ 78,116	\$ 85,558	\$ 108,999	\$ 108,383	\$ 105,540	\$ 131,802	\$ 143,393	\$ 113,281	\$ 56,362	\$ 108,777
CDS ACA Charge	\$ 1,548	\$ 1,388	\$ 1,028	\$ 1,126	\$ 1,434	\$ 1,426	\$ 1,389	\$ 1,690	\$ 1,838	\$ 1,584	\$ 788	\$ 1,680
CDS PCB True-up Settlement												
FT1 Market Area Demand	\$ 297,775	\$ 292,558	\$ 292,558	\$ 292,558	\$ 292,558	\$ 292,558	\$ 292,558	\$ 293,225	\$ 293,225	\$ 293,225	\$ 293,225	\$ 292,796
FT1 Access Area Demand	\$ 236,259	\$ 236,109	\$ 236,109	\$ 236,109	\$ 236,109	\$ 236,109	\$ 236,109	\$ 235,945	\$ 235,945	\$ 235,945	\$ 235,945	\$ 235,945
FT1 Commodity												
FT1 ACA Charge												
FT1 PCB True-up Settlement												
SS1 Demand 400121	\$ 292,061	\$ 289,591	\$ 289,591	\$ 289,591	\$ 289,591	\$ 289,591	\$ 289,591	\$ 289,899	\$ 289,899	\$ 289,899	\$ 289,899	\$ 289,855
Space Charge	\$ 74,361	\$ 74,361	\$ 74,361	\$ 74,361	\$ 74,361	\$ 74,361	\$ 74,361	\$ 74,361	\$ 74,361	\$ 74,361	\$ 74,361	\$ 74,361
Handling fr Storage	\$ 48,806	\$ 47,920	\$ 29,862	\$ 12,336							\$ 26,980	
Excess Withdrawal												
Storage Injection	\$ 5	\$	\$ 3,140	\$ 201	\$ 6,560	\$ 19,777	\$ 9,629	\$ 23,283	\$ 19,482	\$ 9,095	\$ 2,887	\$ 9,376
Excess Injection			\$ 1,598	\$	\$ 30,311	\$	\$ 14,250	\$	\$ 2,588	\$ 23,598	\$ 6,894	\$ 45,825
Storage Surcharge Credit	\$ (53,723)	\$ (53,866)	\$ (53,846)	\$ (53,611)	\$ (53,479)	\$ (53,521)	\$ (53,520)	\$ (53,516)	\$ (53,516)	\$ (53,584)	\$ (53,771)	\$ (53,732)
PCB True-up Settlement 400121												
SS1 Demand 400209	\$ 138,007	\$ 136,840	\$ 136,840	\$ 136,840	\$ 136,840	\$ 136,840	\$ 136,840	\$ 136,986	\$ 136,986	\$ 136,986	\$ 136,986	\$ 136,965
Space Charge	\$ 69,165	\$ 69,165	\$ 69,165	\$ 69,165	\$ 69,165	\$ 69,165	\$ 69,165	\$ 69,165	\$ 69,165	\$ 69,165	\$ 69,165	\$ 69,165
Handling fr Storage	\$ 46,129	\$ 41,953	\$ 29,812	\$ 18,804	\$ 568	\$ 341					\$ 32,260	\$ 345
Excess Withdrawal												
Storage Injection	\$	\$ 22	\$ 4,720	\$ 2,148	\$ 11,818	\$ 8,199	\$ 18,635	\$ 17,798	\$ 20,958	\$ 16,147	\$ 3,399	\$ 10,510
Excess Injection					\$	\$ 111	\$	\$ 20,630			\$	\$ 9,640
Storage Surcharge Credit	\$ (25,342)	\$ (25,409)	\$ (25,400)	\$ (25,289)	\$ (25,227)	\$ (25,246)	\$ (25,246)	\$ (25,244)	\$ (25,244)	\$ (25,276)	\$ (25,365)	\$ (25,346)
PCB True-up Settlement 400209												
FTS-2 Demand	\$ 45,676	\$ 45,676	\$ 45,676	\$ 45,676	\$ 45,676	\$ 45,676	\$ 45,676	\$ 45,676	\$ 45,676	\$ 45,676	\$ 45,676	\$ 45,671
FTS-7 Demand	\$ 57,826	\$ 57,826	\$ 57,826	\$ 57,826	\$ 57,826	\$ 57,826	\$ 57,826	\$ 57,826	\$ 57,826	\$ 57,826	\$ 57,826	\$ 57,826
FTS-8 Demand	\$ 187,187	\$ 187,187	\$ 187,187	\$ 187,187	\$ 187,187	\$ 187,187	\$ 187,187	\$ 187,187	\$ 187,187	\$ 187,187	\$ 187,187	\$ 187,187
FTS-2 PCB True-up Settlement												
FT-1 Market Demand 800514	\$ 225,000	\$ 221,058	\$ 221,058	\$ 221,058	\$ 221,058	\$ 221,058	\$ 221,058	\$ 221,562	\$ 221,562	\$ 221,562	\$ 221,562	\$ 221,238
FT-1 Access Area Demand 800514	\$ 32,973	\$ 32,959	\$ 32,959	\$ 32,959	\$ 32,959	\$ 32,959	\$ 32,959	\$ 32,943	\$ 32,943	\$ 32,943	\$ 32,943	\$ 32,943
FT Commodity	\$ 52,061	\$ 42,072	\$ 46,410								\$ 46,332	\$ 43,357
FT-1 ACA Charge	\$ 614	\$ 554	\$ 611								\$ 648	\$ 670
FT3-3 Cap.Rel. dem. credit 800514			\$	\$ (43,200)	\$ (82,751)	\$ (107,784)	\$ (111,209)	\$ (107,806)	\$ (66,474)	\$ (17,298)		
FT3-3 Cap.Rel. dem. credit 800514												
PCB True-up Settlement 800514												
FT-1 Market Demand 800515	\$ 225,000	\$ 221,058	\$ 221,058	\$ 221,058	\$ 221,058	\$ 221,058	\$ 221,058	\$ 221,562	\$ 221,562	\$ 221,562	\$ 221,562	\$ 221,238
FT-1 Access Area Demand 800515	\$ 32,973	\$ 32,959	\$ 32,959	\$ 32,959	\$ 32,959	\$ 32,959	\$ 32,959	\$ 32,943	\$ 32,943	\$ 32,943	\$ 32,943	\$ 32,943
FT Commodity	\$ 52,061	\$ 42,023	\$ 46,609								\$ 46,332	\$ 43,357
FT-1 ACA Charge	\$ 614	\$ 553	\$ 613								\$ 648	\$ 670
FT1-3 Cap.Rel. dem. credit 800515			\$	\$ (43,200)	\$ (82,751)	\$ (107,784)	\$ (111,209)	\$ (107,806)	\$ (66,474)	\$ (34,038)		
FT1-3 Cap.Rel. dem. credit 800515												
PCB True-up Settlement 800515												
CDS 800232 M1-M1 Cap. Rel.	\$ (287,110)	\$ (253,488)	\$ (281,446)	\$ (273,042)	\$ (260,143)	\$ (250,745)	\$ (250,385)	\$ (246,428)	\$ (236,067)	\$ (236,977)	\$ (238,524)	\$ (265,376)
FT1-800233 M3 - M3 Cap. Rel.	\$ (569,472)	\$ (514,362)	\$ (569,472)	\$ (28,062)	\$ (28,997)	\$ (28,062)	\$ (28,997)	\$ (28,997)	\$ (28,062)	\$ (28,997)	\$ (954,367)	\$ (986,179)
FTS-2,7,8 ACA	\$ 1,123	\$ 1,022	\$ 467	\$ 390	\$ 181	\$ 412	\$ 731	\$ 478	\$ 165	\$ 186	\$ 211	\$ 746
FTS-2,7,8 Commodity				\$ (6,874)					\$ (235)			
CSHOUT UNDER 5% DS												
PRIOR ADJUSTMENTS				\$ (29,624)	\$ (0.28)	\$ 0.10					\$ (8,372)	
O.F.O CREDITS							\$ (19,539)					
EPC Refund												
ASA Refund			\$ (23,872)									
PCB Refund												
Interest on Past Due Balance												
TOTAL	\$ 2,667,781	\$ 2,671,464	\$ 2,524,519	\$ 2,853,231	\$ 2,862,091	\$ 2,801,077	\$ 2,785,638	\$ 2,865,241	\$ 2,951,710	\$ 3,007,080	\$ 2,182,701	\$ 2,181,178

Philadelphia Gas Works
Volumes, Rates, and Total Amounts
Eastern Gas

Volumes	Jan-21	Feb-21	Mar-21	Apr-21	May-21	June-21	July-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
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	-	-	91,301	33,657	250,020	295,214	499,224	502,507	490,425	524,440	198,101	16,940
GSS Handling from Storage	880,360	801,660	273,240	211,537	13,662	-	-	-	-	-	25,913	474,040
GSS-TE Surcharge	880,360	801,660	273,240	211,537	13,662	-	-	-	-	-	25,913	474,040
GSS-TE Excess Injection	-	-	-	-	-	-	-	-	-	-	-	-
Unauthorized Overrun Charges	-	-	-	-	-	-	-	-	-	-	-	-
Rates - \$												
GSS Storage Demand	\$ 1.8716	\$ 1.8716	\$ 1.8716	\$ 1.8716	\$ 1.8716	\$ 1.8716	\$ 1.8716	\$ 1.8716	\$ 1.8716	\$ 1.8716	\$ 1.8655	\$ 1.8655
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	\$ 0.0267	\$ 0.0267	\$ 0.0267	\$ 0.0267	\$ 0.0267	\$ 0.0267	\$ 0.0267	\$ 0.0267	\$ 0.0267	\$ 0.0267	\$ 0.0273	\$ 0.0273
GSS Handling from Storage	\$ 0.0158	\$ 0.0158	\$ 0.0158	\$ 0.0158	\$ 0.0158	\$ 0.0158	\$ 0.0158	\$ 0.0158	\$ 0.0158	\$ 0.0158	\$ 0.0165	\$ 0.0165
GSS-TE Surcharge	\$ 0.0053	\$ 0.0053	\$ 0.0053	\$ 0.0053	\$ 0.0053	\$ 0.0053	\$ 0.0053	\$ 0.0053	\$ 0.0053	\$ 0.0053	\$ 0.0045	\$ 0.0045
GSS-TE Excess Injection	\$ 0.2358	\$ 0.2358	\$ 0.2358	\$ 0.2358	\$ 0.2358	\$ 0.2358	\$ 0.2358	\$ 0.2358	\$ 0.2358	\$ 0.2358	\$ 0.2364	\$ 0.2364
Unauthorized Overrun Charges	\$ 0.6313	\$ 0.6313	\$ 0.6313	\$ 0.6313	\$ 0.6313	\$ 0.6313	\$ 0.6313	\$ 0.6313	\$ 0.6313	\$ 0.6313	\$ 0.6303	\$ 0.6303
Total Amount - \$												
GSS Storage Demand	\$ 63,722	\$ 63,722	\$ 63,722	\$ 63,722	\$ 63,722	\$ 63,722	\$ 63,722	\$ 63,722	\$ 63,722	\$ 63,722	\$ 63,515	\$ 63,515
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	\$ -	\$ -	\$ 2,438	\$ 899	\$ 6,676	\$ 7,882	\$ 13,329	\$ 13,417	\$ 13,094	\$ 14,003	\$ 5,408	\$ 462.47
GSS Handling from Storage	\$ 13,910	\$ 12,666	\$ 4,317	\$ 3,342	\$ 216	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 428	\$ 7,822
GSS-TE Surcharge	\$ 4,666	\$ 4,249	\$ 1,448	\$ 1,121	\$ 72	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 117	\$ 2,133
GSS-TE Excess Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
*Overrun/Penalty Distribution	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (4,853)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unauthorized Overrun Charges	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL	\$ 139,123	\$ 137,462	\$ 128,751	\$ 125,910	\$ 127,511	\$ 123,576	\$ 133,877	\$ 133,964	\$ 133,642	\$ 134,550	\$ 126,292	\$ 130,757

Tab 4

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2022-August 2023

Schedule 3
 item 53.64(c)(1)

	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22
Williams	\$ 2,984,389	\$ 2,929,650	\$ 2,870,962	\$ 2,786,147	\$ 2,803,547	\$ 2,750,464	\$ 2,755,440	\$ 2,751,213	\$ 2,575,347	\$ 2,603,968
Texas Eastern	\$ 3,230,936	\$ 3,236,407	\$ 3,146,049	\$ 4,753,652	\$ 4,700,397	\$ 4,790,940	\$ 4,797,217	\$ 4,796,586	\$ 3,835,376	\$ 3,836,734
Dominion	\$ 132,563	\$ 134,452	\$ 133,867	\$ 255,853	\$ 257,571	\$ 256,926	\$ 257,571	\$ 257,571	\$ 256,926	\$ 257,571
Spot Purchases - Transco	\$ 5,827,132	\$ 68,764	\$ 13,332	\$ 922,423	\$ 3,636,388	\$ 1,259,315	\$ 1,295,041	\$ 1,303,595	\$ 1,265,683	\$ 2,929,556
Spot Purchases - Tecto	\$ 4,388,054	\$ 2,534,409	\$ 656,957	\$ 3,436,739	\$ 1,323,000	\$ 3,617,394	\$ 3,854,094	\$ 3,757,364	\$ 3,726,544	\$ 5,315,672
Transco Supply 6	\$ 1,838,455	\$ 2,101,456	\$ 2,380,103	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 30	\$ 2,140,568	\$ 671,729	\$ 112,100	\$ 457,465	\$ 2,270,426	\$ 6,000	\$ 6,200	\$ 6,200	\$ 14,008	\$ 1,050,600
Transco Supply 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 32	\$ 1,938	\$ 629,901	\$ 243,873	\$ 1,409,416	\$ 3,504,938	\$ 626,066	\$ 898,795	\$ 645,670	\$ 780,599	\$ 2,357,702
Transco Supply 33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 34	\$ 1,257,282	\$ 1,422,890	\$ 1,612,232	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 37	\$ 3,007,697	\$ 3,476,830	\$ 3,941,573	\$ 1,599,872	\$ 1,406,251	\$ 1,204,679	\$ 1,238,512	\$ 1,247,165	\$ 1,211,121	\$ 1,255,486
Transco Supply 38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 40	\$ 2,007,112	\$ 2,329,867	\$ 2,642,529	\$ 742,800	\$ 652,550	\$ 558,750	\$ 574,430	\$ 578,460	\$ 561,750	\$ 582,335
Tetco Supply 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 5	\$ 426,250	\$ 653,240	\$ 741,675	\$ 702,300	\$ 680,760	\$ 505,950	\$ 508,245	\$ 513,980	\$ 504,000	\$ 521,110
Tetco Supply 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 16	\$ 1,226,438	\$ 1,778,350	\$ 2,015,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 24	\$ 499,100	\$ 719,040	\$ 814,525	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 26	\$ -	\$ -	\$ -	\$ 1,864,551	\$ 2,887,200	\$ 2,496,338	\$ 2,352,534	\$ 2,460,436	\$ 2,509,104	\$ 2,114,696
Tetco Supply 33	\$ 1,075,291	\$ 1,619,621	\$ 1,837,737	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 34	\$ 266,212	\$ 401,394	\$ 455,467	\$ 431,505	\$ 418,918	\$ 313,695	\$ 315,409	\$ 318,850	\$ 312,525	\$ 323,129
Tetco Supply 35	\$ 537,307	\$ 777,369	\$ 880,742	\$ 714,280	\$ 784,404	\$ 986,180	\$ 924,750	\$ 971,360	\$ 982,800	\$ 983,320
Tetco Supply 36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 37	\$ 1,226,438	\$ 1,778,350	\$ 2,015,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FT PAYBACK ADJUSTI	\$ -	\$ -	\$ -	\$ -	\$ 668,749	\$ 668,749	\$ 668,749	\$ 668,749	\$ -	\$ -
Total Costs	\$ 32,073,162	\$ 27,263,719	\$ 26,513,723	\$ 20,077,001	\$ 24,657,602	\$ 18,703,950	\$ 19,109,490	\$ 18,939,700	\$ 18,535,782	\$ 24,131,877

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2022-August 2023

Schedule 3
 item 53.64(c)(1)

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23
Williams	\$ 2,628,661	\$ 2,728,794	\$ 2,764,182	\$ 2,762,046	\$ 2,700,478	\$ 2,634,114	\$ 2,620,513	\$ 2,578,303	\$ 2,571,682	\$ 2,565,933
Texas Eastern	\$ 4,178,626	\$ 4,596,705	\$ 4,659,742	\$ 4,576,863	\$ 4,391,028	\$ 3,700,391	\$ 3,713,379	\$ 3,852,515	\$ 3,826,865	\$ 3,814,127
Dominion	\$ 246,643	\$ 256,884	\$ 259,294	\$ 261,500	\$ 255,605	\$ 253,854	\$ 257,667	\$ 260,792	\$ 260,802	\$ 257,838
Spot Purchases - Transco	\$ 1,160,628	\$ 1,036,734	\$ 933,686	\$ 826,904	\$ 1,383,650	\$ 3,465,016	\$ 3,380,261	\$ 1,444,432	\$ 1,481,991	\$ 1,492,815
Spot Purchases - Tecto	\$ 5,298,167	\$ 7,499,019	\$ 8,279,460	\$ 5,229,905	\$ 607,107	\$ 351,240	\$ 1,182,597	\$ 3,678,150	\$ 3,663,950	\$ 4,798,595
Transco Supply 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 30	\$ 882,528	\$ 1,713,473	\$ 769,230	\$ 599,941	\$ 1,231,781	\$ 2,152,280	\$ 1,852,222	\$ 6,000	\$ 6,200	\$ 6,200
Transco Supply 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 32	\$ 1,875	\$ 1,938	\$ 1,938	\$ 1,750	\$ 1,938	\$ 2,813,250	\$ 2,758,225	\$ 1,010,960	\$ 952,399	\$ 665,511
Transco Supply 33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 34	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 37	\$ 1,669,350	\$ 1,771,030	\$ 1,813,810	\$ 1,643,320	\$ 1,753,825	\$ 1,112,403	\$ 1,085,583	\$ 952,330	\$ 976,586	\$ 984,240
Transco Supply 38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transco Supply 40	\$ 1,909,604	\$ 2,025,697	\$ 2,074,429	\$ 1,879,419	\$ 2,006,098	\$ 515,775	\$ 503,208	\$ 441,225	\$ 452,445	\$ 456,010
Tetco Supply 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 5	\$ 501,750	\$ 523,125	\$ 536,920	\$ 508,620	\$ 577,375	\$ 543,150	\$ 513,205	\$ 400,500	\$ 400,830	\$ 406,875
Tetco Supply 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,313,325	\$ 2,238,600	\$ 2,148,721	\$ 2,149,652	\$ 1,270,151
Tetco Supply 33	\$ 1,256,340	\$ 1,309,458	\$ 1,342,803	\$ 1,270,045	\$ 1,440,591	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 34	\$ 311,175	\$ 324,337	\$ 332,615	\$ 314,622	\$ 356,888	\$ 336,015	\$ 318,385	\$ 250,425	\$ 250,960	\$ 254,587
Tetco Supply 35	\$ 584,242	\$ 1,173,710	\$ 1,089,845	\$ 691,110	\$ 43,775	\$ 525,330	\$ 895,440	\$ 803,400	\$ 811,620	\$ 334,950
Tetco Supply 36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 37	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tetco Supply 38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FT PAYBACK ADJUSTI	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,139,673	\$ 1,139,673	\$ 1,139,673	\$ 1,139,673
Total Costs	\$ 20,629,588	\$ 24,960,903	\$ 24,857,952	\$ 20,566,044	\$ 16,750,138	\$ 19,716,144	\$ 20,179,612	\$ 16,688,080	\$ 16,666,310	\$ 16,168,159

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2022-August 2023

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Volumes (Dth)

	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22
Spot Purchases - Transco	1,424,727	13,311	2,523	178,005	819,006	318,411	329,025	329,025	318,411	734,777
Spot Purchases - Tetco	1,384,244	498,311	126,217	673,606	274,938	953,703	1,041,929	1,005,718	985,858	1,405,519
Transco Supply 6	449,500	406,000	449,500	-	-	-	-	-	-	-
Transco Supply 30	521,850	128,696	20,000	86,954	508,815	-	-	-	2,010	261,684
Transco Supply 31	-	-	-	-	-	-	-	-	-	-
Transco Supply 32	-	121,358	45,691	267,492	775,000	154,694	223,321	159,261	192,040	579,239
Transco Supply 33	-	-	-	-	-	-	-	-	-	-
Transco Supply 34	310,000	280,000	310,000	-	-	-	-	-	-	-
Transco Supply 35	-	-	-	-	-	-	-	-	-	-
Transco Supply 36	-	-	-	-	-	-	-	-	-	-
Transco Supply 37	775,000	700,000	775,000	322,080	332,816	322,080	332,816	332,816	322,080	332,816
Transco Supply 38	-	-	-	-	-	-	-	-	-	-
Transco Supply 39	-	-	-	-	-	-	-	-	-	-
Transco Supply 40	529,697	478,436	529,697	150,000	155,000	150,000	155,000	155,000	150,000	155,000
Tetco Supply 1	-	-	-	-	-	-	-	-	-	-
Tetco Supply 2	-	-	-	-	-	-	-	-	-	-
Tetco Supply 3	-	-	-	-	-	-	-	-	-	-
Tetco Supply 4	-	-	-	-	-	-	-	-	-	-
Tetco Supply 5	155,000	140,000	155,000	150,000	155,000	150,000	155,000	155,000	150,000	155,000
Tetco Supply 6	-	-	-	-	-	-	-	-	-	-
Tetco Supply 16	387,500	350,000	387,500	-	-	-	-	-	-	-
Tetco Supply 24	155,000	140,000	155,000	-	-	-	-	-	-	-
Tetco Supply 25	-	-	-	-	-	-	-	-	-	-
Tetco Supply 26	-	-	-	365,455	600,000	658,143	635,992	658,575	663,784	559,147
Tetco Supply 33	374,666	338,408	374,666	-	-	-	-	-	-	-
Tetco Supply 34	93,000	84,000	93,000	90,000	93,000	90,000	93,000	93,000	90,000	93,000
Tetco Supply 35	168,764	152,432	168,764	140,000	163,010	260,000	250,000	260,000	260,000	260,000
Tetco Supply 36	-	-	-	-	-	-	-	-	-	-
Tetco Supply 37	387,500	350,000	387,500	-	-	-	-	-	-	-
Tetco Supply 38	-	-	-	-	-	-	-	-	-	-
Total Volumes	7,116,448	4,180,952	3,980,058	2,423,592	3,876,585	3,057,031	3,216,082	3,148,395	3,134,183	4,536,182

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
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Volumes (Dth)

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23
Spot Purchases - Transco	288,606	251,604	221,646	195,740	338,839	944,532	972,317	455,441	470,623	470,623
Spot Purchases - Tetco	1,407,216	1,976,026	2,131,684	1,290,379	146,467	86,919	316,965	1,190,340	1,218,879	1,575,893
Transco Supply 6	-	-	-	-	-	-	-	-	-	-
Transco Supply 30	217,370	413,382	180,706	140,357	299,446	583,412	529,477	-	-	-
Transco Supply 31	-	-	-	-	-	-	-	-	-	-
Transco Supply 32	702,698	775,000	775,000	700,000	775,000	750,000	775,000	310,344	294,352	204,051
Transco Supply 33	-	-	-	-	-	-	-	-	-	-
Transco Supply 34	-	-	-	-	-	-	-	-	-	-
Transco Supply 35	-	-	-	-	-	-	-	-	-	-
Transco Supply 36	-	-	-	-	-	-	-	-	-	-
Transco Supply 37	450,000	465,000	465,000	420,000	465,000	322,080	332,816	322,080	332,816	332,816
Transco Supply 38	-	-	-	-	-	-	-	-	-	-
Transco Supply 39	-	-	-	-	-	-	-	-	-	-
Transco Supply 40	512,610	529,697	529,697	478,436	529,697	150,000	155,000	150,000	155,000	155,000
Tetco Supply 1	-	-	-	-	-	-	-	-	-	-
Tetco Supply 2	-	-	-	-	-	-	-	-	-	-
Tetco Supply 3	-	-	-	-	-	-	-	-	-	-
Tetco Supply 4	-	-	-	-	-	-	-	-	-	-
Tetco Supply 5	150,000	155,000	155,000	140,000	155,000	150,000	155,000	150,000	155,000	155,000
Tetco Supply 6	-	-	-	-	-	-	-	-	-	-
Tetco Supply 16	-	-	-	-	-	-	-	-	-	-
Tetco Supply 24	-	-	-	-	-	-	-	-	-	-
Tetco Supply 25	-	-	-	-	-	-	-	-	-	-
Tetco Supply 26	-	-	-	-	-	325,000	600,000	695,379	715,121	417,127
Tetco Supply 33	362,580	374,666	374,666	338,408	374,666	-	-	-	-	-
Tetco Supply 34	90,000	93,000	93,000	84,000	93,000	90,000	93,000	90,000	93,000	93,000
Tetco Supply 35	154,579	308,665	280,000	170,000	10,000	130,000	240,000	260,000	270,000	110,000
Tetco Supply 36	-	-	-	-	-	-	-	-	-	-
Tetco Supply 37	-	-	-	-	-	-	-	-	-	-
Tetco Supply 38	-	-	-	-	-	-	-	-	-	-
Total Volumes	4,335,659	5,342,040	5,206,399	3,957,320	3,187,115	3,531,943	4,169,575	3,623,585	3,704,790	3,513,509

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2022-August 2023

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Cost of Natural Gas

<u>Suppliers</u>	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22
TR Spot	\$ 5,827,132	\$ 68,764	\$ 13,332	\$ 922,423	\$ 3,636,388	\$ 1,259,315	\$ 1,295,041	\$ 1,303,595	\$ 1,265,683	\$ 2,929,556
Supplier 6	\$ 1,838,455	\$ 2,101,456	\$ 2,380,103	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 30	\$ 2,140,568	\$ 671,729	\$ 112,100	\$ 457,465	\$ 2,270,426	\$ 6,000	\$ 6,200	\$ 6,200	\$ 14,008	\$ 1,050,600
Supplier 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 32	\$ 1,938	\$ 629,901	\$ 243,873	\$ 1,409,416	\$ 3,504,938	\$ 626,066	\$ 898,795	\$ 645,670	\$ 780,599	\$ 2,357,702
Supplier 33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 34	\$ 1,257,282	\$ 1,422,890	\$ 1,612,232	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 37	\$ 3,007,697	\$ 3,476,830	\$ 3,941,573	\$ 1,599,872	\$ 1,406,251	\$ 1,204,679	\$ 1,238,512	\$ 1,247,165	\$ 1,211,121	\$ 1,255,486
Supplier 38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 40	\$ 2,007,112	\$ 2,329,867	\$ 2,642,529	\$ 742,800	\$ 652,550	\$ 558,750	\$ 574,430	\$ 578,460	\$ 561,750	\$ 582,335
<u>Total Suppliers</u>	\$ 16,080,185	\$ 10,701,437	\$ 10,945,742	\$ 5,131,975	\$ 11,470,552	\$ 3,654,811	\$ 4,012,978	\$ 3,781,090	\$ 3,833,161	\$ 8,175,679

Transportation Costs

Tr Spot	\$ 181,229	\$ 115,826	\$ 119,960	\$ 29,024	\$ 61,713	\$ 9,441	\$ 10,494	\$ 9,749	\$ 9,962	\$ 44,902
Williams Total	\$ 181,229	\$ 115,826	\$ 119,960	\$ 29,024	\$ 61,713	\$ 9,441	\$ 10,494	\$ 9,749	\$ 9,962	\$ 44,902
<u>Total Costs</u>	\$ 16,261,414	\$ 10,817,263	\$ 11,065,701	\$ 5,160,999	\$ 11,532,265	\$ 3,664,252	\$ 4,023,472	\$ 3,790,839	\$ 3,843,122	\$ 8,220,581

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2022-August 2023

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Cost of Natural Gas

<u>Suppliers</u>	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23
TR Spot	\$ 1,160,628	\$ 1,036,734	\$ 933,686	\$ 826,904	\$ 1,383,650	\$ 3,465,016	\$ 3,380,261	\$ 1,444,432	\$ 1,481,991	\$ 1,492,815
Supplier 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 30	\$ 882,528	\$ 1,713,473	\$ 769,230	\$ 599,941	\$ 1,231,781	\$ 2,152,280	\$ 1,852,222	\$ 6,000	\$ 6,200	\$ 6,200
Supplier 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 32	\$ 1,875	\$ 1,938	\$ 1,938	\$ 1,750	\$ 1,938	\$ 2,813,250	\$ 2,758,225	\$ 1,010,960	\$ 952,399	\$ 665,511
Supplier 33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 34	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 37	\$ 1,669,350	\$ 1,771,030	\$ 1,813,810	\$ 1,643,320	\$ 1,753,825	\$ 1,112,403	\$ 1,085,583	\$ 952,330	\$ 976,586	\$ 984,240
Supplier 38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 40	\$ 1,909,604	\$ 2,025,697	\$ 2,074,429	\$ 1,879,419	\$ 2,006,098	\$ 515,775	\$ 503,208	\$ 441,225	\$ 452,445	\$ 456,010
Total Suppliers	\$ 5,623,984	\$ 6,548,871	\$ 5,593,092	\$ 4,951,334	\$ 6,377,292	\$ 10,058,725	\$ 9,579,498	\$ 3,854,947	\$ 3,869,620	\$ 3,604,776

Transportation Costs

Tr Spot	\$ 94,134	\$ 118,885	\$ 133,331	\$ 113,036	\$ 128,399	\$ 82,189	\$ 64,105	\$ 12,177	\$ 12,277	\$ 11,227
Williams Total	\$ 94,134	\$ 118,885	\$ 133,331	\$ 113,036	\$ 128,399	\$ 82,189	\$ 64,105	\$ 12,177	\$ 12,277	\$ 11,227
Total Costs	\$ 5,718,118	\$ 6,667,756	\$ 5,726,423	\$ 5,064,370	\$ 6,505,691	\$ 10,140,913	\$ 9,643,603	\$ 3,867,124	\$ 3,881,897	\$ 3,616,003

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
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Volumes (Dth)

<u>Suppliers</u>	<u>Jan-22</u>	<u>Feb-22</u>	<u>Mar-22</u>	<u>Apr-22</u>	<u>May-22</u>	<u>Jun-22</u>	<u>Jul-22</u>	<u>Aug-22</u>	<u>Sep-22</u>	<u>Oct-22</u>
TR Spot	1,424,727	13,311	2,523	178,005	819,006	318,411	329,025	329,025	318,411	734,777
Supplier 6	449,500	406,000	449,500	-	-	-	-	-	-	-
Supplier 30	521,850	128,696	20,000	86,954	508,815	-	-	-	2,010	261,684
Supplier 31	-	-	-	-	-	-	-	-	-	-
Supplier 32	-	121,358	45,691	267,492	775,000	154,694	223,321	159,261	192,040	579,239
Supplier 33	-	-	-	-	-	-	-	-	-	-
Supplier 34	310,000	280,000	310,000	-	-	-	-	-	-	-
Supplier 35	-	-	-	-	-	-	-	-	-	-
Supplier 36	-	-	-	-	-	-	-	-	-	-
Supplier 37	775,000	700,000	775,000	322,080	332,816	322,080	332,816	332,816	322,080	332,816
Supplier 38	-	-	-	-	-	-	-	-	-	-
Supplier 39	-	-	-	-	-	-	-	-	-	-
Supplier 40	529,697	478,436	529,697	150,000	155,000	150,000	155,000	155,000	150,000	155,000
Total Volumes	4,010,774	2,127,801	2,132,411	1,004,531	2,590,637	945,185	1,040,162	976,101	984,541	2,063,516

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
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Volumes (Dth)

<u>Suppliers</u>	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23
TR Spot	288,606	251,604	221,646	195,740	338,839	944,532	972,317	455,441	470,623	470,623
Supplier 6	-	-	-	-	-	-	-	-	-	-
Supplier 30	217,370	413,382	180,706	140,357	299,446	583,412	529,477	-	-	-
Supplier 31	-	-	-	-	-	-	-	-	-	-
Supplier 32	702,698	775,000	775,000	700,000	775,000	750,000	775,000	310,344	294,352	204,051
Supplier 33	-	-	-	-	-	-	-	-	-	-
Supplier 34	-	-	-	-	-	-	-	-	-	-
Supplier 35	-	-	-	-	-	-	-	-	-	-
Supplier 36	-	-	-	-	-	-	-	-	-	-
Supplier 37	450,000	465,000	465,000	420,000	465,000	322,080	332,816	322,080	332,816	332,816
Supplier 38	-	-	-	-	-	-	-	-	-	-
Supplier 39	-	-	-	-	-	-	-	-	-	-
Supplier 40	512,610	529,697	529,697	478,436	529,697	150,000	155,000	150,000	155,000	155,000
Total Volumes	2,171,284	2,434,683	2,172,049	1,934,533	2,407,982	2,750,024	2,764,610	1,237,866	1,252,790	1,162,489

Philadelphia Gas Works
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	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22
WSS										
Injection	\$ -	\$ -	\$ -	\$ 685	\$ 1,416	\$ 1,370	\$ 1,416	\$ 1,416	\$ 1,370	\$ 1,416
Withdrawal	\$ -	\$ 2,199	\$ 2,572	\$ 1,516	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 66,625	\$ 66,625	\$ 66,625	\$ 66,625	\$ 66,625	\$ 66,625	\$ 66,625	\$ 66,625	\$ 66,625	\$ 66,625
Total Charges	\$ 66,625	\$ 68,824	\$ 69,196	\$ 68,825	\$ 68,040	\$ 67,995	\$ 68,040	\$ 68,040	\$ 67,995	\$ 68,040
S2										
Injection	\$ -	\$ -	\$ -	\$ 1,518	\$ 3,138	\$ 3,066	\$ 6,496	\$ 3,138	\$ 3,036	\$ 3,138
Withdrawal	\$ 8,849	\$ 10,106	\$ 5,707	\$ 1,617	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 44,998	\$ 44,998	\$ 44,998	\$ 44,998	\$ 44,998	\$ 44,998	\$ 44,998	\$ 44,998	\$ 44,998	\$ 44,998
Total Charges	\$ 53,847	\$ 55,104	\$ 50,705	\$ 48,133	\$ 48,136	\$ 48,064	\$ 51,494	\$ 48,136	\$ 48,034	\$ 48,136
GSS										
Injection	\$ -	\$ -	\$ 3,176	\$ 12,699	\$ 26,244	\$ 25,397	\$ 26,244	\$ 26,244	\$ 25,794	\$ 26,244
Withdrawal	\$ 40,636	\$ 47,140	\$ 28,249	\$ 27,637	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 276,333	\$ 276,333	\$ 276,333	\$ 276,333	\$ 276,333	\$ 276,333	\$ 276,333	\$ 276,333	\$ 276,333	\$ 276,333
Total Charges	\$ 316,969	\$ 323,473	\$ 307,758	\$ 316,668	\$ 302,577	\$ 301,730	\$ 302,577	\$ 302,577	\$ 302,127	\$ 302,577
Total Injection Charges	\$ -	\$ -	\$ 3,176	\$ 14,902	\$ 30,797	\$ 29,833	\$ 34,155	\$ 30,797	\$ 30,200	\$ 30,797
Total Withdrawal Charges	\$ 49,485	\$ 59,445	\$ 36,527	\$ 30,769	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Demand Charges	\$ 387,956	\$ 387,956	\$ 387,956	\$ 387,956	\$ 387,956	\$ 387,956	\$ 387,956	\$ 387,956	\$ 387,956	\$ 387,956
Total Storage	\$ 437,441	\$ 447,400	\$ 427,659	\$ 433,627	\$ 418,753	\$ 417,789	\$ 422,111	\$ 418,753	\$ 418,156	\$ 418,753

Forecasted Summary of Firm Transportation

Demand Charges	\$ 2,374,275	\$ 2,374,151	\$ 2,331,900	\$ 2,331,776	\$ 2,331,638	\$ 2,331,514	\$ 2,331,391	\$ 2,331,267	\$ 2,330,619	\$ 2,329,816
Capacity Release Credit	\$ (8,556)	\$ (7,728)	\$ (8,556)	\$ (8,280)	\$ (8,556)	\$ (8,280)	\$ (8,556)	\$ (8,556)	\$ (183,390)	\$ (189,503)
Net Demand Charge	\$ 2,365,719	\$ 2,366,423	\$ 2,323,344	\$ 2,323,496	\$ 2,323,082	\$ 2,323,234	\$ 2,322,835	\$ 2,322,711	\$ 2,147,229	\$ 2,140,313

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	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23
WSS										
Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 980	\$ 2,025	\$ 1,960	\$ 2,025	\$ 2,025
Withdrawal	\$ -	\$ 1,402	\$ 4,056	\$ 3,025	\$ 2,460	\$ 800	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 66,625	\$ 66,625	\$ 66,625	\$ 66,625	\$ 66,625	\$ 66,625	\$ 66,625	\$ 66,625	\$ 66,625	\$ 66,625
Total Charges	\$ 66,625	\$ 68,026	\$ 70,680	\$ 69,650	\$ 69,084	\$ 68,404	\$ 68,649	\$ 68,584	\$ 68,649	\$ 68,649
S2										
Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,889	\$ 3,904	\$ 3,778	\$ 3,904	\$ 3,904
Withdrawal	\$ 808	\$ 8,489	\$ 9,297	\$ 10,450	\$ 5,045	\$ 404	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 44,998	\$ 44,998	\$ 44,998	\$ 44,998	\$ 44,998	\$ 44,998	\$ 44,998	\$ 44,998	\$ 44,998	\$ 44,998
Total Charges	\$ 45,807	\$ 53,487	\$ 54,295	\$ 55,448	\$ 50,043	\$ 47,291	\$ 48,902	\$ 48,776	\$ 48,902	\$ 48,902
GSS										
Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,159	\$ 27,303	\$ 31,746	\$ 31,628	\$ 27,592
Withdrawal	\$ -	\$ 31,026	\$ 49,292	\$ 49,653	\$ 39,932	\$ 4,601	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 276,333	\$ 276,333	\$ 276,333	\$ 276,333	\$ 276,333	\$ 276,333	\$ 276,333	\$ 276,333	\$ 276,333	\$ 276,333
Total Charges	\$ 276,333	\$ 307,358	\$ 325,625	\$ 325,986	\$ 316,265	\$ 294,093	\$ 303,636	\$ 308,079	\$ 307,961	\$ 303,925
Total Injection Charges	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,028	\$ 33,232	\$ 37,484	\$ 37,556	\$ 33,521
Total Withdrawal Charges	\$ 808	\$ 40,916	\$ 62,645	\$ 63,128	\$ 47,436	\$ 5,806	\$ -	\$ -	\$ -	\$ -
Total Demand Charges	\$ 387,956	\$ 387,956	\$ 387,956	\$ 387,956	\$ 387,956	\$ 387,956	\$ 387,956	\$ 387,956	\$ 387,956	\$ 387,956
Total Storage	\$ 388,764	\$ 428,872	\$ 450,600	\$ 451,084	\$ 435,392	\$ 409,789	\$ 421,188	\$ 425,440	\$ 425,512	\$ 421,477

Forecasted Summary of Firm Transportation

Demand Charges	\$ 2,329,153	\$ 2,370,540	\$ 2,369,753	\$ 2,369,089	\$ 2,326,190	\$ 2,325,526	\$ 2,324,724	\$ 2,324,075	\$ 2,323,396	\$ 2,322,733
Capacity Release Credit	\$ (183,390)	\$ (189,503)	\$ (189,503)	\$ (171,164)	\$ (189,503)	\$ (183,390)	\$ (189,503)	\$ (183,390)	\$ (189,503)	\$ (189,503)
Net Demand Charge	\$ 2,145,763	\$ 2,181,037	\$ 2,180,250	\$ 2,197,925	\$ 2,136,687	\$ 2,142,136	\$ 2,135,221	\$ 2,140,685	\$ 2,133,893	\$ 2,133,230

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2022-August 2023

Schedule 3
 item 53.64(c)(1)

Cost of Natural Gas

<u>Suppliers</u>	<u>Jan-22</u>	<u>Feb-22</u>	<u>Mar-22</u>	<u>Apr-22</u>	<u>May-22</u>	<u>Jun-22</u>	<u>Jul-22</u>	<u>Aug-22</u>	<u>Sep-22</u>	<u>Oct-22</u>
TE Spot	\$ 4,388,054	\$ 2,534,409	\$ 656,957	\$ 3,436,739	\$ 1,323,000	\$ 3,617,394	\$ 3,854,094	\$ 3,757,364	\$ 3,726,544	\$ 5,315,672
Supplier 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 5	\$ 426,250	\$ 653,240	\$ 741,675	\$ 702,300	\$ 680,760	\$ 505,950	\$ 508,245	\$ 513,980	\$ 504,000	\$ 521,110
Supplier 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 16	\$ 1,226,438	\$ 1,778,350	\$ 2,015,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 24	\$ 499,100	\$ 719,040	\$ 814,525	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 26	\$ -	\$ -	\$ -	\$ 1,864,551	\$ 2,887,200	\$ 2,496,338	\$ 2,352,534	\$ 2,460,436	\$ 2,509,104	\$ 2,114,696
Supplier 33	\$ 1,075,291	\$ 1,619,621	\$ 1,837,737	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 34	\$ 266,212	\$ 401,394	\$ 455,467	\$ 431,505	\$ 418,918	\$ 313,695	\$ 315,409	\$ 318,850	\$ 312,525	\$ 323,129
Supplier 35	\$ 537,307	\$ 777,369	\$ 880,742	\$ 714,280	\$ 784,404	\$ 986,180	\$ 924,750	\$ 971,360	\$ 982,800	\$ 983,320
Supplier 36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 37	\$ 1,226,438	\$ 1,778,350	\$ 2,015,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub Total	\$ 9,645,090	\$ 10,261,773	\$ 9,417,103	\$ 7,149,375	\$ 6,094,283	\$ 7,919,557	\$ 7,955,033	\$ 8,021,990	\$ 8,034,973	\$ 9,257,926
<u>Transportation Costs</u>										
TE Spot	\$ 240,210	\$ 208,114	\$ 187,283	\$ 155,129	\$ 140,578	\$ 230,863	\$ 237,868	\$ 237,471	\$ 234,995	\$ 270,308
Total TE	\$ 240,210	\$ 208,114	\$ 187,283	\$ 155,129	\$ 140,578	\$ 230,863	\$ 237,868	\$ 237,471	\$ 234,995	\$ 270,308
Total Costs	\$ 9,885,300	\$ 10,469,887	\$ 9,604,386	\$ 7,304,504	\$ 6,234,861	\$ 8,150,421	\$ 8,192,901	\$ 8,259,461	\$ 8,269,969	\$ 9,528,233

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2022-August 2023

Schedule 3
 item 53.64(c)(1)

Cost of Natural Gas

<u>Suppliers</u>	<u>Nov-22</u>	<u>Dec-22</u>	<u>Jan-23</u>	<u>Feb-23</u>	<u>Mar-23</u>	<u>Apr-23</u>	<u>May-23</u>	<u>Jun-23</u>	<u>Jul-23</u>	<u>Aug-23</u>
TE Spot	\$ 5,298,167	\$ 7,499,019	\$ 8,279,460	\$ 5,229,905	\$ 607,107	\$ 351,240	\$ 1,182,597	\$ 3,678,150	\$ 3,663,950	\$ 4,798,595
Supplier 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 5	\$ 501,750	\$ 523,125	\$ 536,920	\$ 508,620	\$ 577,375	\$ 543,150	\$ 513,205	\$ 400,500	\$ 400,830	\$ 406,875
Supplier 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,313,325	\$ 2,238,600	\$ 2,148,721	\$ 2,149,652	\$ 1,270,151
Supplier 33	\$ 1,256,340	\$ 1,309,458	\$ 1,342,803	\$ 1,270,045	\$ 1,440,591	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 34	\$ 311,175	\$ 324,337	\$ 332,615	\$ 314,622	\$ 356,888	\$ 336,015	\$ 318,385	\$ 250,425	\$ 250,960	\$ 254,587
Supplier 35	\$ 584,242	\$ 1,173,710	\$ 1,089,845	\$ 691,110	\$ 43,775	\$ 525,330	\$ 895,440	\$ 803,400	\$ 811,620	\$ 334,950
Supplier 36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 37	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub Total	\$ 7,951,673	\$ 10,829,649	\$ 11,581,642	\$ 8,014,302	\$ 3,025,736	\$ 3,069,060	\$ 5,148,227	\$ 7,281,196	\$ 7,277,013	\$ 7,065,158
<u>Transportation Costs</u>										
TE Spot	\$ 236,606	\$ 314,364	\$ 328,095	\$ 218,718	\$ 84,245	\$ 84,547	\$ 151,915	\$ 257,961	\$ 265,128	\$ 254,209
Total TE	\$ 236,606	\$ 314,364	\$ 328,095	\$ 218,718	\$ 84,245	\$ 84,547	\$ 151,915	\$ 257,961	\$ 265,128	\$ 254,209
Total Costs	\$ 8,188,279	\$ 11,144,013	\$ 11,909,738	\$ 8,233,020	\$ 3,109,981	\$ 3,153,607	\$ 5,300,142	\$ 7,539,157	\$ 7,542,140	\$ 7,319,367

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2022-August 2023

Schedule 3
 item 53.64(c)(1)

Volumes

Suppliers

	<u>Jan-22</u>	<u>Feb-22</u>	<u>Mar-22</u>	<u>Apr-22</u>	<u>May-22</u>	<u>Jun-22</u>	<u>Jul-22</u>	<u>Aug-22</u>	<u>Sep-22</u>	<u>Oct-22</u>
TE Spot	1,384,244	498,311	126,217	673,606	274,938	953,703	1,041,929	1,005,718	985,858	1,405,519
Supplier 1	-	-	-	-	-	-	-	-	-	-
Supplier 2	-	-	-	-	-	-	-	-	-	-
Supplier 3	-	-	-	-	-	-	-	-	-	-
Supplier 4	-	-	-	-	-	-	-	-	-	-
Supplier 5	155,000	140,000	155,000	150,000	155,000	150,000	155,000	155,000	150,000	155,000
Supplier 6	-	-	-	-	-	-	-	-	-	-
Supplier 16	387,500	350,000	387,500	-	-	-	-	-	-	-
Supplier 24	155,000	140,000	155,000	-	-	-	-	-	-	-
Supplier 25	-	-	-	-	-	-	-	-	-	-
Supplier 26	-	-	-	365,455	600,000	658,143	635,992	658,575	663,784	559,147
Supplier 33	374,666	338,408	374,666	-	-	-	-	-	-	-
Supplier 34	93,000	84,000	93,000	90,000	93,000	90,000	93,000	93,000	90,000	93,000
Supplier 35	168,764	152,432	168,764	140,000	163,010	260,000	250,000	260,000	260,000	260,000
Supplier 36	-	-	-	-	-	-	-	-	-	-
Supplier 37	387,500	350,000	387,500	-	-	-	-	-	-	-
Supplier 38	-	-	-	-	-	-	-	-	-	-
Total	3,105,674	2,053,151	1,847,647	1,419,061	1,285,948	2,111,846	2,175,921	2,172,293	2,149,643	2,472,666

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2022-August 2023

Schedule 3
 item 53.64(c)(1)

Volumes

Suppliers

	<u>Nov-22</u>	<u>Dec-22</u>	<u>Jan-23</u>	<u>Feb-23</u>	<u>Mar-23</u>	<u>Apr-23</u>	<u>May-23</u>	<u>Jun-23</u>	<u>Jul-23</u>	<u>Aug-23</u>
TE Spot	1,407,216	1,976,026	2,131,684	1,290,379	146,467	86,919	316,965	1,190,340	1,218,879	1,575,893
Supplier 1	-	-	-	-	-	-	-	-	-	-
Supplier 2	-	-	-	-	-	-	-	-	-	-
Supplier 3	-	-	-	-	-	-	-	-	-	-
Supplier 4	-	-	-	-	-	-	-	-	-	-
Supplier 5	150,000	155,000	155,000	140,000	155,000	150,000	155,000	150,000	155,000	155,000
Supplier 6	-	-	-	-	-	-	-	-	-	-
Supplier 16	-	-	-	-	-	-	-	-	-	-
Supplier 24	-	-	-	-	-	-	-	-	-	-
Supplier 25	-	-	-	-	-	-	-	-	-	-
Supplier 26	-	-	-	-	-	325,000	600,000	695,379	715,121	417,127
Supplier 33	362,580	374,666	374,666	338,408	374,666	-	-	-	-	-
Supplier 34	90,000	93,000	93,000	84,000	93,000	90,000	93,000	90,000	93,000	93,000
Supplier 35	154,579	308,665	280,000	170,000	10,000	130,000	240,000	260,000	270,000	110,000
Supplier 36	-	-	-	-	-	-	-	-	-	-
Supplier 37	-	-	-	-	-	-	-	-	-	-
Supplier 38	-	-	-	-	-	-	-	-	-	-
Total	2,164,375	2,907,357	3,034,350	2,022,787	779,133	781,919	1,404,965	2,385,719	2,451,999	2,351,020

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2022-August 2023

Schedule 3
 item 53.64(c)(1)

Storages

	<u>Jan-22</u>	<u>Feb-22</u>	<u>Mar-22</u>	<u>Apr-22</u>	<u>May-22</u>	<u>Jun-22</u>	<u>Jul-22</u>	<u>Aug-22</u>	<u>Sep-22</u>	<u>Oct-22</u>
SS1A										
Injections	\$ -	\$ -	\$ -	\$ 8,367	\$ 17,292	\$ 16,734	\$ 17,292	\$ 17,292	\$ 16,734	\$ 17,292
Withdrawal	\$ 74,770	\$ 67,817	\$ 17,786	\$ 38,856	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 74,361	\$ 74,361	\$ 74,361	\$ 101,935	\$ 101,935	\$ 101,935	\$ 101,935	\$ 101,935	\$ 101,935	\$ 101,935
Demand	\$ 236,167	\$ 239,388	\$ 239,388	\$ 370,154	\$ 370,154	\$ 370,154	\$ 370,154	\$ 370,154	\$ 370,154	\$ 370,154
Total Charges	\$ 385,298	\$ 381,566	\$ 331,535	\$ 519,311	\$ 489,380	\$ 488,822	\$ 489,380	\$ 489,380	\$ 488,822	\$ 489,380
SS1B										
Injections	\$ -	\$ -	\$ -	\$ 6,896	\$ 14,252	\$ 13,792	\$ 14,252	\$ 14,252	\$ 13,792	\$ 14,252
Withdrawal	\$ 48,175	\$ 52,826	\$ 35,042	\$ 14,353	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 69,165	\$ 69,165	\$ 69,165	\$ 94,812	\$ 94,812	\$ 94,812	\$ 94,812	\$ 94,812	\$ 94,812	\$ 94,812
Demand	\$ 111,640	\$ 113,161	\$ 113,161	\$ 174,952	\$ 174,952	\$ 174,952	\$ 174,952	\$ 174,952	\$ 174,952	\$ 174,952
Total Charges	\$ 228,979	\$ 235,153	\$ 217,368	\$ 291,014	\$ 284,016	\$ 283,557	\$ 284,016	\$ 284,016	\$ 283,557	\$ 284,016
GSSTE										
Injections	\$ -	\$ -	\$ 815	\$ 9,677	\$ 19,999	\$ 19,354	\$ 19,999	\$ 19,999	\$ 19,354	\$ 19,999
Injections/Retention Ft	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Withdrawal	\$ 12,223	\$ 14,112	\$ 12,712	\$ 8,604	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 56,825	\$ 56,825	\$ 56,825	\$ 125,799	\$ 125,799	\$ 125,799	\$ 125,799	\$ 125,799	\$ 125,799	\$ 125,799
Demand	\$ 63,515	\$ 63,515	\$ 63,515	\$ 111,773	\$ 111,773	\$ 111,773	\$ 111,773	\$ 111,773	\$ 111,773	\$ 111,773
Total Charges	\$ 132,563	\$ 134,452	\$ 133,867	\$ 255,853	\$ 257,571	\$ 256,926	\$ 257,571	\$ 257,571	\$ 256,926	\$ 257,571
Total Injection Charges	\$ -	\$ -	\$ 815	\$ 24,940	\$ 51,543	\$ 49,880	\$ 51,543	\$ 51,543	\$ 49,880	\$ 51,543
Total Injections/Retention	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Withdrawal Charges	\$ 135,167	\$ 134,755	\$ 65,540	\$ 61,813	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capacity Charges	\$ 200,351	\$ 200,351	\$ 200,351	\$ 322,546	\$ 322,546	\$ 322,546	\$ 322,546	\$ 322,546	\$ 322,546	\$ 322,546
Total Demand Charges	\$ 411,322	\$ 416,064	\$ 416,064	\$ 656,878	\$ 656,878	\$ 656,878	\$ 656,878	\$ 656,878	\$ 656,878	\$ 656,878
	\$ 746,840	\$ 751,171	\$ 682,770	\$ 1,066,177	\$ 1,030,967	\$ 1,029,305	\$ 1,030,967	\$ 1,030,967	\$ 1,029,305	\$ 1,030,967

Forecasted Summary of Firm Transportation

Texas Eastern Demand	\$ 2,392,455	\$ 2,426,032	\$ 2,425,869	\$ 3,833,496	\$ 3,833,231	\$ 3,832,996	\$ 3,832,761	\$ 3,832,526	\$ 3,831,291	\$ 3,829,763
Capacity Release Credits	\$ (16,007)	\$ (14,458)	\$ (16,007)	\$ (45,298)	\$ (46,808)	\$ (45,298)	\$ (46,808)	\$ (46,808)	\$ (1,003,290)	\$ (1,036,733)
Net Total	\$ 2,376,448	\$ 2,411,575	\$ 2,409,862	\$ 3,788,197	\$ 3,786,423	\$ 3,787,698	\$ 3,785,953	\$ 3,785,718	\$ 2,828,001	\$ 2,793,030
Total Demand Charges	\$ 2,376,448	\$ 2,411,575	\$ 2,409,862	\$ 3,788,197	\$ 3,786,423	\$ 3,787,698	\$ 3,785,953	\$ 3,785,718	\$ 2,828,001	\$ 2,793,030

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2022-August 2023

Schedule 3
 item 53.64(c)(1)

Storages

	<u>Nov-22</u>	<u>Dec-22</u>	<u>Jan-23</u>	<u>Feb-23</u>	<u>Mar-23</u>	<u>Apr-23</u>	<u>May-23</u>	<u>Jun-23</u>	<u>Jul-23</u>	<u>Aug-23</u>
SS1A										
Injections	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,435	\$ 19,499	\$ 18,870	\$ 20,055	\$ 19,499
Withdrawal	\$ -	\$ 35,609	\$ 61,500	\$ 59,150	\$ 48,303	\$ 20,467	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 101,935	\$ 101,935	\$ 101,935	\$ 101,935	\$ 101,935	\$ 101,935	\$ 101,935	\$ 101,935	\$ 101,935	\$ 101,935
Demand	\$ 370,154	\$ 370,154	\$ 370,154	\$ 370,154	\$ 370,154	\$ 370,154	\$ 370,154	\$ 370,154	\$ 370,154	\$ 370,154
Total Charges	\$ 472,088	\$ 507,697	\$ 533,588	\$ 531,239	\$ 520,391	\$ 501,990	\$ 491,587	\$ 490,958	\$ 492,143	\$ 491,587
SS1B										
Injections	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,121	\$ 16,783	\$ 18,293	\$ 19,028	\$ 19,028
Withdrawal	\$ 843	\$ 32,284	\$ 57,198	\$ 53,001	\$ 48,294	\$ 17,668	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 94,812	\$ 94,812	\$ 94,812	\$ 94,812	\$ 94,812	\$ 94,812	\$ 94,812	\$ 94,812	\$ 94,812	\$ 94,812
Demand	\$ 174,952	\$ 174,952	\$ 174,952	\$ 174,952	\$ 174,952	\$ 174,952	\$ 174,952	\$ 174,952	\$ 174,952	\$ 174,952
Total Charges	\$ 270,608	\$ 302,049	\$ 326,963	\$ 322,766	\$ 318,058	\$ 295,553	\$ 286,547	\$ 288,057	\$ 288,793	\$ 288,793
GSSTE										
Injections	\$ 1,308	\$ -	\$ -	\$ -	\$ -	\$ 9,724	\$ 20,095	\$ 23,220	\$ 23,231	\$ 20,266
Injections/Retention Ft	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Withdrawal	\$ 7,764	\$ 19,312	\$ 21,722	\$ 23,928	\$ 18,033	\$ 6,559	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 125,799	\$ 125,799	\$ 125,799	\$ 125,799	\$ 125,799	\$ 125,799	\$ 125,799	\$ 125,799	\$ 125,799	\$ 125,799
Demand	\$ 111,773	\$ 111,773	\$ 111,773	\$ 111,773	\$ 111,773	\$ 111,773	\$ 111,773	\$ 111,773	\$ 111,773	\$ 111,773
Total Charges	\$ 246,643	\$ 256,884	\$ 259,294	\$ 261,500	\$ 255,605	\$ 253,854	\$ 257,667	\$ 260,792	\$ 260,802	\$ 257,838
Total Injection Charges	\$ 1,308	\$ -	\$ -	\$ -	\$ -	\$ 27,279	\$ 56,377	\$ 60,384	\$ 62,314	\$ 58,794
Total Injections/Retention	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Withdrawal Charges	\$ 8,607	\$ 87,205	\$ 140,420	\$ 136,080	\$ 114,630	\$ 44,693	\$ -	\$ -	\$ -	\$ -
Total Capacity Charges	\$ 322,546	\$ 322,546	\$ 322,546	\$ 322,546	\$ 322,546	\$ 322,546	\$ 322,546	\$ 322,546	\$ 322,546	\$ 322,546
Total Demand Charges	\$ 656,878	\$ 656,878	\$ 656,878	\$ 656,878	\$ 656,878	\$ 656,878	\$ 656,878	\$ 656,878	\$ 656,878	\$ 656,878
	\$ 989,339	\$ 1,066,629	\$ 1,119,844	\$ 1,115,504	\$ 1,094,054	\$ 1,051,397	\$ 1,035,802	\$ 1,039,808	\$ 1,041,738	\$ 1,038,218

Forecasted Summary of Firm Transportation

Texas Eastern Demand	\$ 3,828,499	\$ 3,827,117	\$ 3,825,618	\$ 3,824,354	\$ 3,822,855	\$ 3,821,591	\$ 3,820,063	\$ 3,818,828	\$ 3,817,535	\$ 3,816,271
Capacity Release Credits	\$ (629,174)	\$ (354,522)	\$ (354,522)	\$ (320,214)	\$ (354,522)	\$ (1,003,290)	\$ (1,036,733)	\$ (1,003,290)	\$ (1,036,733)	\$ (1,036,733)
Net Total	\$ 3,199,324	\$ 3,472,595	\$ 3,471,096	\$ 3,504,141	\$ 3,468,333	\$ 2,818,301	\$ 2,783,330	\$ 2,815,538	\$ 2,780,802	\$ 2,779,538
Total Demand Charges	\$ 3,199,324	\$ 3,472,595	\$ 3,471,096	\$ 3,504,141	\$ 3,468,333	\$ 2,818,301	\$ 2,783,330	\$ 2,815,538	\$ 2,780,802	\$ 2,779,538

Philadelphia Gas Works
 Forecasted Summary of Total Fuel Purchased
 January 2022-August 2023

Schedule 4
 item 53.64(c)(1)

CAPACITY RELEASE (Dth)

	TRANSCO		TETCO		TETCO		<u>TOTAL DOLLARS</u>		<u>TOTAL VOLUMES</u>	
	Contract 3691		Contract 800232		Contract 800515-514		<u>TRANSCO</u>	<u>TETCO</u>	<u>TRANSCO</u>	<u>TETCO</u>
	<u>VOLUMES</u>	<u>DOLLARS</u>	<u>VOLUMES</u>	<u>DOLLARS</u>	<u>VOLUMES</u>	<u>DOLLARS</u>				
					<u>Paid</u>					
Sep-22	300,000	\$ 183,390	561,240	\$ 343,086	1,080,000	\$ 660,204	\$ 183,390	\$ 1,003,290	300,000	1,641,240
Oct-22	310,000	\$ 189,503	579,948	\$ 354,522	1,116,000	\$ 682,211	\$ 189,503	\$ 1,036,733	310,000	1,695,948
Nov-22	300,000	\$ 183,390	561,240	\$ 343,086	468,000	\$ 286,088	\$ 183,390	\$ 629,174	300,000	1,029,240
Dec-22	310,000	\$ 189,503	579,948	\$ 354,522	-	\$ -	\$ 189,503	\$ 354,522	310,000	579,948
Jan-23	310,000	\$ 189,503	579,948	\$ 354,522	-	\$ -	\$ 189,503	\$ 354,522	310,000	579,948
Feb-23	280,000	\$ 171,164	523,824	\$ 320,214	-	\$ -	\$ 171,164	\$ 320,214	280,000	523,824
Mar-23	310,000	\$ 189,503	579,948	\$ 354,522	-	\$ -	\$ 189,503	\$ 354,522	310,000	579,948
Apr-23	300,000	\$ 183,390	561,240	\$ 343,086	1,080,000	\$ 660,204	\$ 183,390	\$ 1,003,290	300,000	1,641,240
May-23	310,000	\$ 189,503	579,948	\$ 354,522	1,116,000	\$ 682,211	\$ 189,503	\$ 1,036,733	310,000	1,695,948
Jun-23	300,000	\$ 183,390	561,240	\$ 343,086	1,080,000	\$ 660,204	\$ 183,390	\$ 1,003,290	300,000	1,641,240
Jul-23	310,000	\$ 189,503	579,948	\$ 354,522	1,116,000	\$ 682,211	\$ 189,503	\$ 1,036,733	310,000	1,695,948
Aug-23	310,000	\$ 189,503	579,948	\$ 354,522	1,116,000	\$ 682,211	\$ 189,503	\$ 1,036,733	310,000	1,695,948
TOTAL Sept 22 - Aug 23	<u>3,650,000</u>	<u>2,231,245</u>	<u>6,828,420</u>	<u>4,174,213</u>	<u>8,172,000</u>	<u>4,995,544</u>	<u>\$ 2,231,245</u>	<u>\$ 9,169,757</u>	<u>3,650,000</u>	<u>15,000,420</u>

Tab 5

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

DIRECT TESTIMONY OF

Florian Teme

ON BEHALF OF
PHILADELPHIA GAS WORKS

Docket No. R-2022-3030686

Philadelphia Gas Works
Proposed 2022-23 Annual GCR Adjustment

March 1, 2022

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1 **I. INTRODUCTION**

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

3 A. My name is Florian Teme. My position is Vice President, Marketing, Sales and
4 Energy Planning at the Philadelphia Gas Works.

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

6 A. I assumed my present position in December 2020. Prior to this position, I was
7 Vice President, Marketing and Sales.

8 **Q. AS IT PERTAINS TO ENERGY PLANNING AND RATEMAKING,
9 WHAT ARE YOUR JOB RESPONSIBILITIES?**

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

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

20 A. I have been employed with PGW since August 2003. I became PGW's Vice
21 President, Marketing, Sales and Energy Planning in December 2020. Prior to
22 that, I had various positions with PGW: Vice President, Marketing and Sales
23 (September 2016 – December 2020), Director, Marketing and Sales (April 2013 –
24 September 2016), Manager, Residential and Commercial Sales, Marketing

1 (March 2012 – April 2013); Manager, Controls and Analytics, Supply Chain
2 (January 2010 – March 2012); Project Manager, Information Services (January
3 2007 – January 2010); Supply Analyst, Gas Planning (April 2005 – January
4 2007); and Technical Project Administrator, Marketing (August 2003 – March
5 2005).

6 I received my Bachelor of Business Administration (Management
7 Information Systems) from Temple University - Fox School of Business and
8 Management in 2003 and my Master of Business Administration (Business
9 Intelligence, Six Sigma) from Saint Joseph's University - Erivan K. Haub School
10 of Business in 2011.

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

13 A. Yes, I have provided testimony in PGW's last two base rate cases (Docket Nos.
14 R-20120-3017206 and R-2017-2586783), in PGW's 2019-2020 Gas Cost Rate
15 proceeding (Docket No. R-2019-3007636), and in PGW's 2021-2022 Gas Cost
16 Rate proceeding (Docket No. R-2021-3023970).

17 **Q. HOW IS YOUR TESTIMONY STRUCTURED?**

18 A. First, I describe PGW's rate design and Gas Cost Rate (GCR) calculation
19 methodology. Second, I describe the level of heating degree-days utilized in this
20 filing. Third, I identify the methodology for determining the number of customers
21 and calculating firm sales. Fourth, I discuss the calculation for the Unaccounted
22 for Adjustment Factor (UAF). Fifth, I discuss Off System Sales and Capacity
23 Release credits. Sixth, I discuss PGW's analysis of its projected overcollection of

1 USECP costs verses actual results. Lastly, I will discuss the reasonableness of
2 PGW's gas costs.

3 **II. RATE IMPACTS AND SUPPORTING DOCUMENTS**

4 **Q. PLEASE DESCRIBE THE IMPACT OF THE PROPOSED CHANGE IN**
5 **PGW'S GCR IN THIS PROCEEDING.**

6 A. PGW's GCR on September 1, 2021 was \$4.8745/Mcf, and this rate was increased
7 in the Company's first quarterly GCR filing on December 1, 2021 to \$6.0100.

8 PGW's second quarter GCR filing, also submitted to the PUC concurrently with
9 this filing, decreases the GCR to \$5.6123 effective March 1, 2022. The proposed
10 rate to be effective September 1, 2022 is \$5.6048 (Sch. 1).

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

13 A. This filing contains the schedules supporting the filing requirements of Section
14 53.64(a) for the proposed GCR for the period September 1, 2022 through August
15 31, 2023.

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

- 1 • Schedule 2 identifies the calculation of GCR Firm Sales in Mcfs (“S”) and
2 the Applicable Volumes. The company utilizes Total Volumes and
3 subtracts the volumes associated with Firm Transportation, Interruptible
4 Sales, LNG Sales and AC Sales to arrive at GCR Firm Sales (“S”). Also
5 included in Schedule 2 are the Applicable Volumes which is comprised of
6 GCR Firm Sales less 20% of the sales attributable to Senior Citizens
7 Discount Sales plus the Firm Transportation Volumes.
- 8 • Schedule 3 identifies the Projected Applicable Fuel Expense. Specifically,
9 this schedule identifies PGW’s Net Natural Gas Expense and Total
10 Applicable Expenses. To arrive at the Net Natural Gas Expense, the total
11 cost of commodity and pipeline charges for firm sales are calculated per
12 month. Two credits are then applied for the portion of gas costs recovered
13 from PGW’s Interruptible Sales customers (i.e. the “Interruptible & Firm
14 A/C Credit”) and for gas used by PGW (i.e. “Gas Used by Utility”). Next,
15 the Company calculates the net effect of gas supplies being transferred
16 into and out of storage and LNG. The result is the Net Natural Gas
17 Expense. To arrive at the Total Applicable Expenses in Schedule 3, the
18 fuel expenses for Purchased Electric and miscellaneous are added to the
19 Net Natural Gas Expenses to arrive at Total Applicable Expenses.
- 20 • Schedule 4(a) is the actual/estimated data for FY 22. Schedule 4(b) is the
21 C factor Reconciliation for FY 22. Schedule 4(c) is the E factor
22 Reconciliation for FY 22. Schedule 4(d) is the IRC Revenue Billed for
23 FY 22. Schedule 4(e) is the Reconciliation of Demand Charges for FY 22.

- 1 • Schedule 5(a) (“Interest Calculation”) provides the calculation of the
2 interest expense or credit for the period of September 2021 through
3 August 2022 for the under/over recovery of fuel costs and the interest for
4 the natural gas refunds. Schedule 5(b) (“Interest on Natural Gas
5 Refunds”) provides information on historic refunds that have been
6 received by the Company resulting from various cases before the Federal
7 Energy Regulatory Commission and the interest on these refunds.
8 Schedule 5(c) provides the calculation of the interest for the demand and
9 commodity charges.
- 10 • Schedule 6 presents the load balancing revenue for the forecast period of
11 September 2022 to August 2023.
- 12 • Schedule 7 calculates total projected recovery with the proposed GCR.
- 13 • Schedule 8 shows the changes in rates identifying the proposed changes to
14 the GCR and distribution charge and the impact on the proposed total
15 commodity rate.
- 16 • Schedule 9(a) shows the calculation of the Universal Service & Energy
17 Conservation Surcharge to be effective September 1, 2022. Schedule 9(b)
18 is the reconciliation of the Universal Service & Energy Conservation
19 Surcharge for the period September 2021 to August 2022.
- 20 • Schedule 10(a) shows the calculation of the Interruptible Revenue Credit
21 to be effective September 1, 2022. Schedule 10(b) is the forecasted
22 Interruptible Revenue Margin for Fiscal Year 2023. Schedule 10(c) is the
23 reconciliation of the Interruptible Revenue Credit for Fiscal Year 2022.

- 1 • Schedule 11(a) shows the calculation of the Other Post Employment
2 Benefit (OPEB) Surcharge to be effective September 1, 2022. Schedule
3 11(b) is the reconciliation of the OPEB Surcharge for Fiscal Year 2022.
- 4 • Schedule 12(a) shows the calculation of the Efficiency Cost Recovery
5 Surcharge to be effective September 1, 2022. Schedule 12(b) shows the
6 reconciliation of the Efficiency Cost Recovery Surcharge for the Fiscal
7 Year 2022.
- 8 • Schedule 13(a) is the calendar year 2021 reconciliation of the Load
9 Balancing Charge and Schedule 13(b) is the 2021 Load Balancing
10 Expense and Interest Calculation.
- 11 • Schedule 14 sets the Load Balancing Charge to be effective September 1,
12 2022 which is an increase from last year.
- 13 • Schedule 15 identifies the natural gas prices that were used in the
14 preparation of this filing.
- 15 • Schedule 16 is the annual reconciliation of the retainage rate and lost and
16 unaccounted for rate.

17 **Q. IN PRIOR FILINGS, SCHEDULE 17 SHOWED THE FORECASTED**
18 **OVER/(UNDER) RECOVERY OF THE RESTRUCTURING AND**
19 **CONSUMER EDUCATION SURCHARGE AND THE RECONCILIATION**
20 **FROM THE PRIOR YEAR. PLEASE EXPLAIN WHY YOU ARE NOT**
21 **DISPLAYING THAT SCHEDULE.**

22 A. PGW has not recorded any significant new expenses that would be eligible for
23 recovery via this Surcharge for several years; the amount that has been claimed
24 for recovery (or return to customers) was the amounts that PGW had failed to
25 recover (or over recovered) in prior years. At this point, PGW has a relatively

1 small balance of remaining under recovery (\$5,060) and has decided to forgo
2 attempting to recovery this last amount. In order to provide the Parties with the
3 actual data associated with the surcharge, I am attaching to my testimony (Exhibit
4 FT-1) the schedules that PGW has included in the past as Schedules 17(a), (b) and
5 (c). These schedules are being provided for informational purposes only.

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

8 A. PGW's forecast period is a twenty (20) month period that commences on January
9 1, 2022 (two months before this filing) and eight months before the effective date
10 of the tariff on September 1, 2022. The 2022-23 GCR year is from September 1,
11 2022 to August 31, 2023, however, since the required forecast covers 20 months,
12 it must begin eight months earlier, consistent with Commission regulations.

13 **III. RATE DESIGN AND GCR CALCULATION METHODOLOGY**

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

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

1 Cost Recovery Surcharge recovers the cost of the energy efficiency programs.

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

6 Generally, the cost of gas purchased to serve the requirements of PGW's
7 customers constitutes the largest single item in the delivered price of gas. In the
8 past, all natural gas costs were recovered through base rates (distribution charge).
9 However, in the early 1970's, the price of gas lost its stability and underwent rapid
10 escalation during and after a worldwide oil crisis. To combat this instability and
11 prevent the economic harm to all parties caused by regulatory lag in reflecting
12 these price fluctuations in base rates, the concept of a fuel adjustment surcharge
13 mechanism was introduced by PGW. This mechanism provides the flexibility to
14 rapidly reflect current conditions without the time delay inherent in a full-scale
15 base rate alteration. The intent is to achieve an annual balance of the costs
16 incurred for fuel and its pass-through to customers. The costs for pipeline
17 transportation, storage capacity and related fuel prices charged by the interstate
18 pipeline suppliers are largely outside of distributor control. The PUC oversees the
19 pass-through of these charges and the balancing activity. The Gas Cost Rate
20 Section in PGW's Tariff identifies the appropriate formula for such a balance and
21 the charges that may be recovered through this mechanism. Charges for natural
22 gas and other raw materials are included in the GCR. In addition, the interest
23 expense for the over or under recovery of gas costs and natural gas refunds are

1 also included in the GCR. No labor or profit component is added by PGW. The
2 GCR represents the direct pass-through of actual costs incurred.

3 Only costs related to meeting customer sendout requirements, including
4 associated plant fuel, may be included as a fuel expense for GCR purposes.
5 Purchases diverted into storage and/or LNG become an expense only when
6 withdrawn for customer delivery. Costs associated with purchases made to
7 supply interruptible customers are excluded from the Total Applicable GCR
8 Expenses used to calculate the GCR. Also, demand costs for pipeline
9 transportation for the firm transportation customers are excluded from the GCR.

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

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

1 **Q. WHAT IS THE BASIS FOR THE PRICES USED IN DETERMINING THE**
2 **GAS COSTS USED IN THIS FILING?**

3 A. The pricing methodology utilized by the Company is consistent with that used in
4 the recent quarterly filings with the inclusion of the additional months in the 20-
5 month forecast. Specifically, the company utilized actual prices for January 2022
6 and the NYMEX Futures close data (as of January 15, 2022) for the 19 forecast
7 months of February 2022 through August 2023.

8 **Q. HOW DOES THE GCR FORECASTED FOR THE 2022-2023 PERIOD**
9 **COMPARE WITH THE GCR FORECASTED IN THE COMPANY'S**
10 **LAST ANNUAL GCR FILING?**

11 A. The GCR forecasted for 2022-2023 is \$1.4687 greater than the level PGW had
12 forecasted for the 2021-2022 GCR (\$4.1361). The level of costs in the 2022-
13 2023 period are being influenced by the increase in demand charges as a result of
14 Spectra Energy's Pipeline Rate Case filing and by the increase in natural gas costs
15 compared to the prior year.

16 **IV. LEVEL OF HEATING DEGREE DAYS**

17 **Q. DESCRIBE THE LEVEL OF HEATING DEGREE-DAYS THAT WERE**
18 **USED IN YOUR ANALYSIS.**

19 A. The Company utilizes the temperatures recorded at the PGW Richmond Plant to
20 calculate the average temperature for a given day. The Company subtracts the
21 average temperature from 65 degrees to calculate the number of degree-days for
22 the day. The degree-days for all of the days in the year are aggregated to arrive at
23 the total number of degree-days for the year. Next, the Company calculates the
24 average heating degree-days for the past 20 years to arrive at the forecasted
25 heating degree-days in a normal year, and in this filing PGW is using the 20 year
26 average of 3893 degree days.

1 **V. METHODOLOGY FOR DETERMINING NUMBER OF CUSTOMERS**
2 **AND CALCULATING FIRM SALES**

3 **Q. HOW HAS THE COMPANY CALCULATED THE NUMBER OF**
4 **CUSTOMERS IN EACH RATE CLASS?**

5 A. PGW determined the actual number of customer billings on December 31, 2021
6 using the PGW Gas Sales and Revenue Reports. Next, the Marketing Department
7 load forecast was used to factor in the addition and loss of customers. Finally, the
8 customer numbers were adjusted for the loss of customers due to non-payment
9 terminations.

10 **Q. WHAT IS THE METHODOLOGY FOR CALCULATING THE WEATHER**
11 **NORMALIZED BILLED SALES?**

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

25 The finalized domestic factor and the trial heating factor developed, as

1 such, are then applied in the sendout calculations together with customer counts
2 for the months of December, January and February (the peak winter cold period)
3 to project an estimated sendout for each of these months. The projected sendout
4 is then compared with the actual sendout experienced. Any variation between the
5 projected and actual is adjusted to force the replication of the actual sendout
6 experience, thus resulting in the determination of a finalized heating factor.

7 Utilizing these domestic and heating factors, billed sales are then
8 forecasted using 3893 degree days and the number of customers.

9 **VI. CALCULATION OF UNACCOUNTED FOR ADJUSTMENT FACTOR**

10 **Q. WHAT IS THE UNACCOUNTED FOR GAS PERCENTAGE USED IN**
11 **THIS FILING?**

12 A. The level of unaccounted for gas and retainage rate used in this filing is 2.3% and
13 is based on a 3-year average.

14 **VII. OFF SYSTEM SALES AND CAPACITY RELEASE CREDITS**

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

18 A. PGW has projected the amount of off system sales, capacity release credits, and
19 asset management credits within the GCR period of 2022-23. This amount is
20 based on a 3-year average. Of that amount, \$11,401,002 was credited to the GCR
21 using a 75%/ to GCR/25% to base rates split.

22 **IX RATE BUS**

23 **Q. AS PART OF THE SETTLEMENT IN PGW'S MOST RECENT BASE**
24 **RATE CASE (R-2020-3017206, ¶ 32), PGW AGREED TO PROVIDE DATA**
25 **AS PART OF ITS ANNUAL GCR FILINGS ON THE NUMBER OF**
26 **CUSTOMERS, SALES LEVELS, REVENUES, AND THE COSTS**

1 **INCURRED TO PROVIDE SERVICE UNDER RATE BUS. CAN YOU**
 2 **PROVIDE THOSE DATA?**

3 A. Yes. The information pertaining to the number of customers, sales levels,
 4 revenues, and the capital costs incurred to provide service under Rate BUS is
 5 provided below:

Tariff Rate	Total Customer Count	Total Annual Sales Volume (MCF)	Total Annual Revenue	Total Customer Capital Cost
Back-Up Service – Rate BUS	35	1,525	\$163,934	\$1,072,178

6
 7 **VIII. COMPARISON OF USECP PROJECTION**

8 **Q. DID PGW MAKE ANY OTHER COMMITMENTS IN ITS PRIOR GCR**
 9 **PROCEEDING THAT YOU WISH TO DISCUSS?**

10 A. Yes. In PGW’s last GCR proceeding, PGW committed that it would: “provide a
 11 comparison between its prior FY USECP actual over/under-collection and the
 12 projected USECP over/under-collection from the prior proceeding and identify
 13 the reasons for any material cost and/or revenue variances.

14 **Q. HAVE YOU CONDUCTED SUCH AN ANALYSIS?**

15 A. Yes. It is shown on Exhibit FT-2. As that Exhibit shows, PGW analyzed the
 16 difference between the actual USECP overcollection at FY 21 year end compared
 17 to the projected overcollection.

18 **Q. PLEASE DISCUSS THE RESULTS OF YOUR ANALYSIS.**

19 A. As the Exhibit shows, in FY 2021 PGW experienced an actual USECP
 20 overcollection of some \$7.7 million; PGW’s projected overcollection for this
 21 period, after accounting for several corrections for prior periods, was

1 approximately \$8.8 million. PGW conducted an analysis of the various factors
2 that affect the USECP, and that would result in any projection being over or
3 understated, and was able to identify about one-third of the difference (on a net
4 basis) as related to specific items that either were not fully reflected in the actual
5 results or which are related to the effects of actual weather and/or sales or
6 program activity. As I have noted previously, there should be no expectation that
7 PGW's projection of USECP over/under collection will match actual results.
8 These projections are calculated using "normal" weather and sales, which will
9 never reflect actual results, except by chance. While we were able to identify a
10 number of items that would have affected actual results but which are not, and
11 cannot be, included in the projection, there are also a variety of other factors that
12 will make the projections differ from the actual results in any year, but which can
13 not be identified or easily quantified. These include simplifying assumptions
14 regarding sales forecasts, customer usage and "normal" degree days, the effect of
15 billing cycles, and the effect on CRP discounts and other benefits of extreme
16 differences between normal degree day forecasts and actuals during a particular
17 billing cycle.¹

18 **Q. IN THE 2021 REPORT THAT PGW SUBMITTED ANALYZING THE**
19 **DIFFERENCES BETWEEN THE 2019-2020 USEC PROJECTED AND**
20 **ACTUAL OVER/UNDERCOLLECTION, PGW INDICATED THAT IT**
21 **BELIEVED THAT IT WOULD BE "APPROPRIATE TO REEVALUATE**
22 **THE CURRENT MODEL TO DETERMINE WHETHER IT CAN BE**
23 **IMPROVED AND TO REPORT THE RESULTS OF THAT REVIEW,**
24 **AND ANY CHANGES IT HAS DECIDED TO MAKE IN THE FY 2022-**

¹ See, *Philadelphia Gas Works' Report on the Universal Service and Energy Conservation Surcharge for Fiscal Year 2020*, Docket No. R-2021-3023970 (June 4, 2021).

1 **2023 GCR PROCEEDING.” PLEASE DESCRIBE WHAT PGW HAS**
2 **DONE TO FULFIL THAT COMMITMENT.**

3 A. In the course of preparing the 2021 Report, PGW reviewed virtually every aspect
4 of its projection methodology. Generally, we concluded that our overall
5 methodology was reasonable in that it reasonably projects a level of USECP
6 over/undercollection *assuming normal weather*. Because the projection is based
7 on normal weather, it will only match actual results by chance. There are also
8 other elements of PGW’s billing (i.e., WNA, discount on discount effect) that can
9 not be projected at the time of PGW’s 1307(f) filing. Our goal, therefore, is to
10 attempt to project the elements of the USECP charge that we can project in a
11 reasonable way and to be able to generally understand the reasons why the actual
12 results differ from the projection. We believe our current methodology generally
13 allows us to do that.

14 We did, however, identify one methodological change that, we believe,
15 will improve the accuracy of the forecast. The USECP forecast is prepared in late
16 January of each year. As a result, we have actual data through January 20 and use
17 the actual data to calculate the CRP discount in February. For the rest of the
18 fiscal year, PGW utilizes “normal” weather using normal daily degree days for
19 that calculation. However, in our analysis of our methodology for the purposes of
20 the 2020 report, we noticed that the use of “normal” daily degree days for the
21 remainder of January produced a consistent understatement of the actual degree
22 days and, therefore, an understatement of CRP discount in February. This
23 appears to be because PGW’s “normal” degree day forecast assumes that
24 temperatures will progressively move from colder to warmer as the winter

1 progresses. But our historical experience does not show that pattern in actuality,
 2 at least for the end of January. Accordingly we have decided to utilize a forecast
 3 of actual degree days for the final portion of January to calculate usage and
 4 billings for February. We utilized this refinement for the FY 2022 forecast that
 5 appears in our filing accompanying my testimony. We intend to monitor the
 6 results in order to judge whether this refinement results in a USECP projected
 7 over/undercollection that is more consistent with actual results.

8 **IX. NOTICE OF FUTURE GCR FILINGS**

9 **Q. IN PGW’S PRIOR GCR PROCEEDING DID THE COMMISSION**
 10 **APPROVE CUSTOMER NOTICE PROCEDURES FOR USE FOR THIS**
 11 **CASE?**

12 A. Yes. In the Settlement of the prior GCR case the Parties agreed as follows:

13 The parties agree that PGW is requesting in this Settlement
 14 that the Commission permit PGW to continue to proceed as
 15 follows in its 2022-2023 GCR proceedings:

16 (a) provide written notice to customers by bill insert in the
 17 one-month billing cycle commencing on the date of the
 18 annual 1307(f) filing, on March 1, of a tariff addendum and
 19 tariff or tariff supplement reflecting changes in purchased
 20 gas costs and ending no later than thirty (30) days after the
 21 filing of such tariff addendum and tariff or tariff
 22 supplement, instead of beginning such notice with the one-
 23 month billing cycle commencing thirty (30) days prior to
 24 the filing of the tariff addendum and tariff or tariff
 25 supplement as required by 52 Pa. Code § 53.68(a);

26 (b) in company offices in which payments are accepted,
 27 provide public notice on the date of the annual 1307(f)
 28 filing, March 1, of a tariff addendum and tariff or tariff
 29 supplement reflecting changes in purchased gas costs,
 30 instead of thirty (30) days prior to the filing of such tariff
 31 addendum and tariff or tariff supplement as required by 52
 32 Pa. Code §§ 53.68(a) and 53.45(b); and

33 (c) provide estimated data for both January and February in
 34 the March 1 quarterly 1307(f) filing instead of providing

1 actual data for January alone as required by 52 Pa. Code §
2 53.64(i)(5)(i).

3 These procedures were accepted by the Commission and PGW is
4 following these procedures in this case.

5 **Q. DO YOU HAVE A PROPOSAL FOR FUTURE GCR PROCEEDINGS?**

6 A. Yes. PGW proposes that the above procedures be permitted for the next, and all,
7 future GCR proceedings. They have been used for several years without issue.
8 Accordingly, PGW is here requesting that a permanent waiver be granted of
9 contrary PUC regulations and these notice procedures be used on a going forward
10 basis, subject of course to any future orders of the PUC to the contrary.

11 **X. REASONABLENESS OF GAS COSTS**

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

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

18 **XI. CONCLUSION**

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

20 A. Yes.

**Philadelphia Gas Works
Restructuring & Consumer Education Surcharge
FISCAL YEAR 2022**

FY 2020 Over/(Under) Recovery \$19,650 Schedule 17(b)

<u>Month</u>		<u>R&CE Volumes</u>	<u>R&CE Surcharge</u>	<u>Revenue Billed</u>
September 2020	Actual	1,135,929	\$0.0017	\$1,931
October	Actual	1,406,052	(\$0.0009)	(\$1,265)
November	Actual	3,150,664	(\$0.0009)	(\$2,836)
December	Actual	6,270,813	(\$0.0009)	(\$5,644)
January 2021	Actual	8,505,193	(\$0.0009)	(\$7,655)
February	Actual	9,694,780	(\$0.0009)	(\$8,725)
March	Actual	6,715,022	(\$0.0004)	(\$2,350)
April	Actual	3,725,922	\$0.0002	\$745
May	Actual	2,014,927	\$0.0002	\$403
June	Actual	1,322,377	\$0.0002	\$264
July	Actual	1,082,919	\$0.0002	\$217
August	Actual	<u>1,024,183</u>	\$0.0002	\$205
Total		46,048,781		(\$24,710)

FY 2021 Act/Est R&CE & FY 2020 Reconciliation (\$5,060)

FY 2021 Permitted Recovery \$0 Schedule 17(c)

Over/(Under) Recovery (\$5,060)

**Philadelphia Gas Works
Restructuring & Consumer Education Surcharge
FISCAL YEAR 2020**

FY 2018 Over/(Under) Recovery (\$147,623)

<u>Month</u>		<u>R&CE Volumes</u>	<u>R&CE Surcharge</u>	<u>Revenue Billed</u>
September 2019	Actual	1,141,774	\$0.0060	\$6,851
October	Actual	1,363,289	\$0.0043	\$5,862
November	Actual	3,767,742	\$0.0043	\$16,201
December	Actual	7,076,152	\$0.0043	\$30,427
January 2020	Actual	8,185,552	\$0.0043	\$35,198
February	Actual	7,537,547	\$0.0043	\$32,411
March	Actual	5,596,295	\$0.0043	\$24,064
April	Actual	4,041,596	\$0.0043	\$17,379
May	Actual	2,868,396	\$0.0043	\$12,334
June	Actual	1,410,071	\$0.0043	\$6,063
July	Actual	1,031,552	\$0.0043	\$4,436
<u>August</u>	Actual	<u>952,170</u>	\$0.0043	<u>\$4,094</u>
Total		44,972,134		\$195,321

FY 2020 Act/Est R&CE & FY 2019 Reconciliation \$47,698

FY 2020 Permitted Recovery \$28,049

Over/(Under) Recovery \$19,650

Exhibit FT-2

Analysis

The following table starts with the projected overcollection of USEC for FY 2021 of \$1.554 as filed on 3/1/2021 and proceeds to show each of the variations.

	Description	Amount	Explanation
1	Original 1307(f) filing projected over-collection, Sch 9(b) as filed on 03/01/2021	\$ 1,554,843	
2	Original FY 20 under-collection as stated on Sch 9(b) as filed on 03/01/2021	\$ (9,447,959)	
3	Adjustment to beginning over-collection for FY 20 under-collection	\$ 2,828,984	FY 20 CRP forgiveness over-collection
4	Revised FY 20 under-collection as stated on Sch 9 as filed on 05/28/2021	\$ (6,618,975)	Made as part of a quarterly filing in the 2020 GCR Proceeding.
5	FY 18 over-recovery as stated on Sch 9 as filed on 05/28/2021	\$ 4,381,978	Made as part of a quarterly filing in the 2020 GCR Proceeding.
6	Revised 1307(f) FY 20 Reconciliation 1307 as stated on Sch 9 as filed on 05/28/2021	\$ (2,236,997)	Made as part of a quarterly filing in the 2020 GCR Proceeding.
7	Revised over-collection 1307f	\$ 8,765,805	Revised Original estimate accounting for: (1) Revisions to FY 2020 under-collection, and (2) FY 2018 over-recovery.
8	Original FY 21 Actual, as filed in Sch 12 on 11/30/2021	\$ 7,735,965	Actual USEC for FY 2021, as filed 11/30/2021 in the 2021 GCR Proceeding
9	Difference between estimate and actual	\$ 1,029,840	
10	FY 18 over-collection	\$ 4,130,329	Amount to be recovered in FY 22. \$251,649 recovered in FY 21
11	Higher actual USC Revenue Billed due to higher sales because of weather	(\$1,290,301)	
12	Seniors Discount	(\$124,299)	Higher actual due to higher sales because of weather
13	ELIRP Expense & Labor	(\$375,025)	Higher expense
14	CRP Forgiveness	(\$430,803)	Addition of the cumulative impact of the omitted CRP Average bill customer Forgiveness for FY 18 and 19 and the impact of the underestimate for FY 2020.
15	CRP Discount – WNA	(\$807,781)	WNA was not part of the USC Estimate but colder weather results in higher CRP Discount
16	CRP Discount on Discount	(\$756,235)	
17	Quantified Differences	\$ 345,886	
18	Unquantified Difference in CRP Discount	\$ 683,954	

VERIFICATION

I, Florian Teme, hereby state that: (1) I am the Vice President of Marketing & Energy Planning for Philadelphia Gas Works (“PGW”); (2) the facts set forth in the foregoing Direct Testimony which I am sponsoring are true and correct to the best of my knowledge, information and belief; and (3) I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities).

March 1, 2022

Dated

Florian Teme

Florian Teme
Vice President of Marketing & Energy
Planning
Philadelphia Gas Works

Tab 6

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

DIRECT TESTIMONY OF

Ryan E. Reeves

ON BEHALF OF
PHILADELPHIA GAS WORKS

Docket No. R-2022-3030686

Philadelphia Gas Works
Proposed 2022-2023 Annual GCR Adjustment

March 1, 2022

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1 **I. INTRODUCTION**

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

3 A. My name is Ryan E. Reeves. My position with Philadelphia Gas Works (“PGW” or
4 “Company”) is Director of Gas Supply, Transportation and Control.

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

6 A. I received a Bachelor of Science degree in Chemical Engineering from Drexel University
7 in 2009 and a Master’s degree in Business Administration from Villanova University in
8 2016. I have held the following positions at PGW: Staff Engineer and Operations
9 Engineer at the Richmond LNG Plant, and Manager of Special Projects.

10 **Q. PLEASE DESCRIBE YOUR DUTIES IN YOUR PRESENT POSITION.**

11 A. I develop and monitor PGW’s long-term Gas Supply Strategic Plan that ensures PGW
12 has the financial resources and assets to execute its business strategy. I advance policies,
13 procedures and practices that ensure safe, reliable, competitively priced gas supplies and
14 other energy resources to meet current and future demands on PGW’s system, and I
15 analyze the overall long-term capital and operating budget plans for Gas Supply.

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

18 A. Yes. I provided testimony in PGW’s 2021-2022 Gas Cost Rate proceeding (Docket No.
19 R-2021-3023970).

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

21 A. My testimony discusses:

- 22 ● PGW’s gas purchasing policies and strategies applicable to FY 2023 (September
23 1, 2022 through August 31, 2023) and those utilized in FY 2022 (September 1,
24 2021 through August 31, 2022); and
25
26 ● Price analysis and buying advisory service.
27

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

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

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

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

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

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

18 A. Yes. PGW pursues a least cost gas procurement policy in a manner consistent with
19 PGW's obligation to provide safe, adequate and reliable service to its customers.

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

21 A. PGW's supply strategy¹ (which is currently being used during the FY 2022 GCR period
22 and which the Company intends to use for the FY 2023 GCR period) is a portfolio
23 approach in both contract structure and pricing. The portfolio approach of purchasing gas

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 supply allows PGW to remove some of the volatility in purchasing natural gas supplies
2 for its ratepayers. Without the use of the portfolio approach, firm ratepayer would be
3 totally at the mercy of market volatility.

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

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

11 (2) The Company enters into physical forward purchased contracts for seasonal
12 baseload supplies and long-term baseload supplies, including "pre-paid natural gas"
13 arrangements (discussed below). These contracts permit the Company to make
14 discretionary physical forward purchases on a year-round basis.

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

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

20 The Enbridge and Williams Gas Pipelines represent the only interstate pipeline
21 facilities with physical connections to the PGW service territory. As a result, all of
22 PGW's supply contracts utilize these pipelines, and the contracts also recognize pipeline
23 receipt and delivery rights. These contracts contain the ability to "lock up" the price for

1 upcoming months or to have the pricing default to an agreed upon market index if there is
2 no market advantage in fixing a price before the month begins. As a result, PGW not
3 only ensures security of supply from the pipelines but also can take advantage of varying
4 basis differentiated pricing in the market. This differentiated pricing results from the fact
5 that all shippers of natural gas receive their gas at varying locations along the pipeline.
6 PGW uses a city-gate delivered price in comparing the various alternatives available.
7 The city gate delivered price is computed considering the “into the pipe price of gas” plus
8 all incremental charges levied by the transporting pipeline to deliver the gas to the city
9 gate. These prices include, but are not limited to, reservation fees, fuel, transportation
10 charges and FERC Annual Charge Adjustment (“ACA”) charges.

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

19 Once operational requirements are met, these assets are then used in the overall
20 cost saving strategies. For example, once design winter sendout requirements are
21 ensured, the Company may utilize bundled storage and LNG as a substitute for higher
22 priced gas. PGW’s summer gas procurement policy uses a similar approach to address
23 system supply and storage refill. The Gas Supply department also uses forecasted prices

1 as a benchmark to purchase gas volumes for both system supply and storage refill below
2 the projected cost (when possible) on a proportional basis, while leaving a portion of its
3 needs to default to first of the month pricing.

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

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

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

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

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

22 A. Yes. PGW reviews each of its existing contracts on a regular basis to ensure that the
23 contracts are needed to assure reliable supply and that none of the contracts are adverse to
24 its customers' interests. Whenever appropriate, PGW initiates renegotiations (if the
25 contract permits) to change the terms.

1 **Q. IN PGW'S LAST GCR, YOU INDICATED THAT PGW HAD BEGUN TO TAKE**
2 **ADVANTAGE OF A PREPAID GAS PROGRAM MADE POSSIBLE BY**
3 **PROVISIONS IN THE INTERNAL REVENUE CODE THAT PERMITTED**
4 **MUNICIPAL GAS COMPANIES TO OBTAIN GAS COST REDUCTIONS, IS**
5 **THAT CORRECT?**

6 A. Yes. Beginning in FY 2020, PGW has taken advantage of provisions in the Internal
7 Revenue Code that permits municipal gas companies to use tax exempt bond financed
8 prepaid gas purchase arrangements to obtain significant discounts on those purchases, the
9 savings from which are passed on to PGW sales customers.

10 **Q. WHAT IS A PREPAID GAS ARRANGEMENT?**

11 A. A prepaid gas arrangement is an arrangements in which PGW has agreed to purchase gas
12 from a gas supplier for (typically) 25-30 years. (PGW does not pay for the entire 30 years
13 of purchases up front but receives a monthly invoice for gas received by PGW). The
14 natural gas is purchased from a gas supplier, through a government authority. The
15 authority issues a tax-free long-term bond and uses the proceeds to "prepay" for the
16 natural gas it will purchase on behalf of various municipal gas utilities, including PGW.
17 The gas supplier sells the natural gas to the authority (which then, in turn, sells it to
18 PGW) at a discount, in recognition of the fact that the supplier is able to invest the
19 prepayment at taxable rates. In order to share some of this investment income, the
20 supplier provides PGW with natural gas at significant discounts from a market index
21 price. The size of the discount is determined based on the spread between non-taxable
22 and taxable investments. As noted, the gas is purchased on index, but PGW receives a
23 discount from the current index price due to the investment arbitrage.

24 **Q. HOW MANY SUCH ARRANGEMENTS HAS PGW ENTERED INTO?**

25 A. PGW is currently involved in nine (9) prepaid gas arrangements.

1 **Q. WILL THESE ARRANGEMENTS EXIST IN THE 2022-23 GCR PERIOD?**

2 A. Yes. As noted, PGW currently has nine (9) arrangements under signature. Those
3 contracts will reduce the monthly price of gas paid by PGW compared to the price it
4 would otherwise pay. In FY 2022, PGW will save approximately \$4.9 million for gas
5 sales to customers as a result of prepaid gas purchase arrangements. For FY 2023, PGW
6 is projecting that gas sales to customers will save approximately \$5.9 million from the
7 nine prepaid deals.

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

10 A. Yes. The gas costs incurred to date during the 2021-2022 period are the result of the least
11 cost gas procurement strategy outlined in my testimony and are therefore reasonable.
12 The gas costs that PGW is projecting for the 2022-2023 period are also the product of a
13 least cost gas procurement strategy, consistent with PGW's obligation to provide safe,
14 adequate and reliable service to its customers, and are therefore also reasonable.

15 **III. CAPACITY RELEASE, OFF-SYSTEM SALES MARGIN AND ASSET**
16 **MANAGEMENT CREDITS/FEES**

17 **Q. HAS PGW BEEN RETAINING A PORTION OF NET PROCEEDS FROM**
18 **CAPACITY RELEASE CREDITS, OFF-SYSTEM SALES MARGIN AND ASSET**
19 **MANAGEMENT CREDIT/FEES?**

20 A. Yes. During the 2008-2009 GCR proceeding (Docket No. R-2008-2021348), the parties
21 agreed that PGW would be permitted to retain 25% of all off-system sales margins and
22 capacity release credits with the remaining 75% applied as an offset to purchased gas
23 costs for the retention period of September 1, 2008 to August 31, 2011. Likewise, the
24 parties agreed that, for the subsequent GCR period, PGW would retain 25% of all off-
25 system sales margins, capacity release credits and margins or fees arising from asset

1 management arrangements² with the remaining 75% applied as an offset to purchased gas
 2 costs. This sharing arrangement was approved by the PUC in all subsequent GCR
 3 proceedings.

4 **Q. DOES PGW HAVE A RETENTION PROPOSAL FOR THE PERIODS**
 5 **BEGINNING ON SEPTEMBER 1, 2022?**

6 A. Yes. PGW proposes to continue the retention of 25% of capacity release credits, off
 7 system sales margin and asset management margin/credit/fees and apply the remaining
 8 75% to the Gas Cost Rate.

9 **Q. DO OTHER PENNSYLVANIA NATURAL GAS DISTRIBUTION COMPANIES**
 10 **(“NGDCS”) HAVE SHARING MECHANISMS FOR CAPACITY OFF SYSTEM**
 11 **SALES CREDITS?**

12 A. Yes. All of the largest NGDCs have sharing mechanisms similar to PGW’s and the
 13 sharing percentage for all of the NGDCs is 25%.

14 **Q. HOW ARE SHARING MECHANISMS BENEFICIAL TO BOTH RATEPAYERS**
 15 **AND UTILITIES?**

16 A. The ratepayers and the utility benefit from the policy because it creates an incentive to
 17 maximize efforts to fully utilize gas supply assets by making off-system sales and
 18 capacity release transactions, thereby reducing the overall cost of gas supply and the
 19 resulting gas cost rate. For PGW, the lesser portion retained by the Company is used to
 20 offset the overall cost of service that must be recovered in base rates.

21 **Q. DID PGW ENGAGE IN ANY CAPACITY RELEASE OR OFF-SYSTEM SALES**
 22 **IN FY 2022?**

23 A. Yes. PGW contracted for an off-system sales and several capacity releases. For each of
 24 these arrangements, the margin in excess of the incremental costs was split 75-25%, with

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 75% being credited to the GCR. PGW retained the remaining 25% in base rates and used
2 it to offset other costs of operation.

3 **Q. DID PGW ENGAGE IN AN ASSET MANAGEMENT ARRANGEMENT IN FY**
4 **2022?**

5 A. Yes. PGW entered into an AMA arrangement with a counterparty for the winter season
6 of FY 2022. The revenue from the AMA arrangement will be split 75-25%, with 75%
7 being credited to the GCR. PGW retained the remaining 25% in base rates and used it to
8 offset other costs of operation.

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

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

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

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

15 A. Planalytics provides the following services:

- 16 ● Price feed from Nymex and Globex for natural gas, crude oil, heating oil and
17 RBOB (reformulated gasoline);
- 18 ● Buying suggestions up to 18 months in the future;
- 19 ● A charting tool for technical analysis;
- 20 ● Short and medium range weather forecasts;
- 21 ● Weather alerts (issued in advance of significant weather events);
- 22 ● Planalytics' pre-season hurricane forecast and in-season updates; and
- 23 ● Additional energy buyer features include reporting (i.e., market-to-market,
24 transaction history, etc.) and portfolio/hedging parameters.

1 **Q. WHAT WAS INCORPORATED INTO PGW’S 2021-2022 GCR PROCEEDING**
2 **SETTLEMENT AGREEMENT WITH REGARD TO THE PLANALYTICS**
3 **ENERGY BUYER SERVICES?**

4 A. PGW agreed to the following:

5 PGW is permitted to continue to recover the Planalytics fee for price
6 analysis and buying advisory services (not to exceed \$125,000) for the
7 2021-2022 GCR period. Continued recovery of the fee beyond the 2021-
8 2022 GCR period must be addressed in next year’s Purchased Gas Cost
9 proceeding.

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

12 A. Yes. The Planalytics’ service provides a comprehensive amount of information that the
13 Company finds useful in the procurement of all gas supply. Nonetheless, PGW
14 understands that it must reach a new agreement as to the continuing recovery of the
15 Planalytics fee. It again proposes that these fees be included in the 2022-23 GCR; PGW
16 looks forward to discussing this issue with the parties involved in this year’s proceeding.

17 **V. GAS SUPPLY PURCHASES**

18 **Q. WHERE DID PGW PURCHASE NATURAL GAS SUPPLY ON THE TEXAS**
19 **EASTERN TRANSMISSION CORPORATION (“TETCO”) PIPELINE IN FY**
20 **2022?**

21 A. 100% of all baseload and swing supply purchases on the TETCO pipeline were from
22 Market Zone M-2 in FY 2022.

23 **VI. CONCLUSION**

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

25 A. Yes it does.

VERIFICATION

I, Ryan E. Reeves, hereby state that: (1) I am the Director of Gas Supply, Transportation and Control for Philadelphia Gas Works (“PGW”); (2) the facts set forth in the foregoing Direct Testimony which I am sponsoring are true and correct to the best of my knowledge, information and belief; and (3) I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities).

March 1, 2022

Dated

Ryan E. Reeves

Ryan E. Reeves
Director of Gas Supply, Transportation and
Control
Philadelphia Gas Works

CERTIFICATE OF SERVICE

I hereby certify that this day I served a copy of Philadelphia Gas Works' 1307(f) filing upon the persons listed below in the manner indicated in accordance with the requirements of 52 Pa. Code Section 1.54.

Via Email Only

Gina L. Miller, Esq.
Scott B. Granger, Esq.
Bureau of Investigation & Enforcement
Commonwealth Keystone Building
400 North Street, 2nd Floor
Harrisburg, PA 17120
ginmiller@pa.gov
sgranger@pa.gov

Sharon E. Webb, Esq.
Office of Small Business Advocate
555 Walnut Street
1st Floor, Forum Place Bldg.
Harrisburg, PA 17101-1923
swebb@pa.gov

Christy M. Appleby, Esq.
Aron J. Beatty, Esq.
Office of Consumer Advocate
555 Walnut Street
5th Floor, Forum Place Bldg.
Harrisburg, PA 17101-1923
cappleby@paoca.org
abeatty@paoca.org

Jerome D. Mierzwa
Exeter Associates, Inc.
10480 Little Patuxent Parkway
Suite 300
Columbia, MD 21904-2690
jmierzwa@exeterassociates.com

Charis Mincavage, Esq.
McNees Wallace & Nurick
100 Pine Street
Harrisburg, PA 17101
cmincavage@mcneeslaw.com

Robert Knecht
Industrial Economics Inc.
2067 Massachusetts Ave.
Cambridge, MA 02140
rdk@indecon.com

Craig Berry, Esq.
Philadelphia Gas Works
800 West Montgomery Avenue
Philadelphia, PA 19122
Craig.berry@pgworks.com

Dated: March 1, 2022

/s/ Kristine E. Marsilio
Kristine E. Marsilio, Esq.