

Philadelphia Gas Works
Before The
Pennsylvania Public Utility Commission

**Computation of Annual Purchased Gas Costs
For Twelve Months Ending August 31, 2021**

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 2, 2020

**Philadelphia Gas Works
66 Pa.C.S. § 1307(f) – 2020**

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Tab 1

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

Supplement No. 130

PHILADELPHIA GAS WORKS

GAS SERVICE TARIFF



Issued by: Craig White
President and CEO

PHILADELPHIA GAS WORKS
800 West Montgomery Avenue
Philadelphia, PA 19122

List of Changes Made by this Tariff Supplement

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

In the definition of "GAC," the GAC value effective September 1, 2020, decreases from \$(0.00223) per Ccf to \$(0.00834) per Ccf.

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

In the definition of "IRC," the IRC value effective September 1, 2020 is \$(0.00019) per Ccf. In the definition of "SSC," the SSC value effective September 1, 2020, increases from \$0.39200 per Ccf to \$0.43344.

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

The Gas Cost Rate (GCR) effective September 1, 2020 increases from \$0.39009 per Ccf to \$0.42529.

PRICE TO COMPARE (PAGE No. 78)

The Prices to Compare effective September 1, 2020 are: a) \$0.44509 per Ccf for Residential (GS-RES); b) \$0.42910 per Ccf for Public Housing Customers (GS-PH); (c) \$0.43174 per Ccf for Commercial (GS-COM); (d) \$0.43076 per Ccf for Industrial (GS-IND); (e) \$0.42910 per Ccf for Municipal Service (MS); (f) \$0.42910 per Ccf for Philadelphia Housing Authority (PHA); and, (g) \$0.42910 \$0.39377 per Ccf for Natural Gas Vehicle Service (NGVS).

RESTRUCTURING AND CONSUMER EDUCATION SURCHARGE (PAGE No. 79)

The Restructuring and Consumer Education Surcharge effective September 1, 2020 decreases from \$0.00043 per Ccf to \$0.00000 per Ccf.

EFFICIENCY COST RECOVERY SURCHARGE (PAGE No. 80)

The Efficiency Cost Recovery Surcharge rates effective September 1, 2020 are: a) \$0.00102 per Ccf for Residential and Public Housing Customers on Rate GS; b) \$0.00406 per Ccf for Commercial Customers on Rate GS; c) \$.00159 per Ccf for Industrial Customers on Rate GS; and, d) \$0.00406 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, 2020 i decreases from \$0.11711 per Ccf to \$0.10614 per Ccf.

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

The current Other Post Employment Benefit Surcharge increases from \$0.03362 per Ccf to \$0.03410 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, 2020 increases from \$0.39009 per Ccf to \$0.42529 per Ccf.

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

I. PROVISION FOR ADJUSTMENT

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

II. DEFINITIONS

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

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

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

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

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

GAC (Gas Adjustment Charge) - The "E" factor component of the GCR, representing the net overcollection or undercollection of Natural Gas and other raw materials costs. The currently effective GAC is \$(0.01963) per Ccf for Commodity Costs and \$0.01129 per Ccf for Demand Costs, for service on or after September 1, 2020. The total GAC is \$(0.00834) per Ccf.

(D)

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

(D) – Decrease

IRC - Interruptible Revenue Credit - The credit defined in Subsection VI below. The currently effective IRC is \$(0.00019) per Ccf for service on or after September 1, 2020.

(I)

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 \$0.25905 per Ccf for Commodity Costs and \$0.17439 per Ccf for Demand Costs, for service on or after September 1, 2020. The total SSC is \$0.43344 per Ccf.

(D)

(D) – Decrease (I) – Increase

III. COMPUTATION OF GAS COST RATE

Issued: March 2, 2020

Effective: September 1, 2020

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 \$0.42529 per Ccf, for service on or after September 1, 2020. (I)

IV. REPORTING REQUIREMENTS

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

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

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

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

V. PROVISION FOR INCLUSION OF SPECIFIC NON-GAS EXPENSES

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

VI. INTERRUPTIBLE REVENUE CREDIT (IRC)

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

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

(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: 3.76% - GS Residential (“GS RES”); 0.62% - GS Commercial (“GS COM”); and 0.39% - GS Industrial (“GS IND”). The current MFC is set forth below in the Price to Compare table.

GAS PROCUREMENT CHARGE (“GPC”)

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

Current Gas Procurement Charge = \$0.00400/Ccf

PRICE TO COMPARE (“PTC”)

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

	GS-RES	GS-PH	GS-COM	GS-IND	MS	PHA	NGVS
SSC	\$0.43344	\$0.43344	\$0.43344	\$0.43344	\$0.43344	\$0.43344	\$0.43344
GAC	\$(0.00834)	\$(0.00834)	\$(0.00834)	\$(0.00834)	\$(0.00834)	\$(0.00834)	\$(0.00834)
MFC	\$0.01599	\$0.00000	\$0.00264	\$0.00166	\$0.00000	\$0.00000	\$0.00000
GPC	\$0.00400	\$0.00400	\$0.00400	\$0.00400	\$0.00400	\$0.00400	\$0.00400
PTC	\$0.44509	\$0.42910	\$0.43174	\$0.43076	\$0.42910	\$0.42910	\$0.42910

(C)

(C) – Change

RESTRUCTURING AND CONSUMER EDUCATION SURCHARGE

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

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

Current Restructuring and Consumer Education Surcharge = \$0.00000/Ccf

(D)

(D) - Decrease

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) \$0.00102 per Ccf for Residential and Public Housing Customers on Rate GS; | (I) |
| b) \$0.00406 per Ccf for Commercial Customers on Rate GS; | (I) |
| c) \$0.00159 per Ccf for Industrial Customers on Rate GS; | (I) |
| d) \$0.00000 per Ccf for Municipal Customers on Rate MS; and | (NC) |
| e) \$0.00406 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; (D) – Decrease; (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 = \$0.10614/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 = \$0.03410/Ccf

(I)

(I) - Increase

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, 2020.

AVAILABILITY

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

RATES

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

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

Surcharge: Distribution System Improvement Charge.

Plus,

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

\$0.42529	per Ccf for Residential and Public Housing	(I)
\$0.42529	per Ccf for Commercial Customers	(I)
\$0.42529	per Ccf for Industrial Customers	(I)

Plus,

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

(A) Delivery Charge:

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

(B) Surcharges:

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

(I) - Increase

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

MUNICIPAL SERVICE - RATE MS

Rate: Applicable to all Retail Sales Service or Transportation Service rendered pursuant to this Rate Schedule on or after September 1, 2020.

AVAILABILITY

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

RATES

CUSTOMER CHARGE (per Meter (except parallel meters):

\$ 23.40 per month

Surcharge: Distribution System Improvement Charge.

Plus,

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

\$0.42529 per Ccf

(I)

Plus,

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

(A) Delivery Charge:

\$0.42723 per Ccf

(B) Surcharges:

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

(I) - Increase

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

PHILADELPHIA HOUSING AUTHORITY SERVICE - RATE PHA

Rate: Applicable to all Retail Sales Service or Transportation Services rendered pursuant to this Rate Schedule on or after September 1, 2020.

AVAILABILITY

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

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

RATES

CUSTOMER CHARGE (per Meter (except parallel meters);

\$23.40 per month

Surcharge: Distribution System Improvement Charge.

Plus,

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

\$0.42529 per Ccf

(I)

Plus

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

(A) Delivery Charge:

\$0.50163 per Ccf

(B) Surcharges:

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

(I) - Increase

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

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

Rate: Applicable to all Retail Sales Service rendered pursuant to this Rate Schedule on or after
September 1, 2020.

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):

\$0.42529 per Ccf

(I)

Plus

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

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

\$0.12833 per Ccf

(B) Surcharges:

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

(I) – Increase

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

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

Supplement No. 87

PHILADELPHIA GAS WORKS

GAS SUPPLIER TARIFF



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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, 2020, is \$54.6005 per design day Mcf.

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PHILADELPHIA GAS WORKS

9.14. LOAD BALANCING CHARGE.

9.14.A. Suppliers for all gas delivered under Firm Transportation Rates, of this Suppliers Tariff shall be charged at \$54.6005 per design day Mcf that is fulfilled by PGW storage and peaking assets, for recovery of those costs for Balancing Service, calculated in the manner set forth in the Commission's Order at M-00021612 (entered March 31, 2003) and as set forth below. Such rate for Balancing Service shall be increased or decreased, from time to time, in accordance with applicable law and procedures.

(D)

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

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

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

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

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

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

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

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

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

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

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

(D) – Decrease

Tab 2

Philadelphia Gas Works

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

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

Response: Please see the attached worksheets.

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

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Philadelphia Gas Works

Levelized Gas Cost Rate

September 1, 2020

Formula:
GCR = SSC + GAC - IRC

where:

	<u>Demand</u>	<u>Commodity</u>	<u>Total</u>	
S = Firm Sales (Mcf)			41,521,080	Schedule 2

Net Natural Gas Expense	\$ 73,462,845	\$ 108,454,236	\$ 181,917,081	
Purchased Electric & Misc Expenses	\$ -	\$ 667,491	\$ 667,491	
C = Total Applicable GCR Expense	\$ 73,462,845	\$ 109,121,727	\$ 182,584,572	
SSC = C / S	\$ 1.7693	\$ 2.6281	\$ 4.3974	

Adjustment For:

E-Factor Volumes (Mcf)			41,521,080	Schedule 2
Interest	\$ 1,452	\$ (342,005)	\$ (340,552)	Schedule 5(a),5(c)
E-Factor Reconciliation	\$ 4,648,857	\$ (7,743,339)	\$ (3,094,482)	Schedule 4(b),4(c),4(e)
	\$ 4,650,309	\$ (8,085,344)	\$ (3,435,035)	
E = E-Factor	\$ 0.1120	\$ (0.1947)	\$ (0.0827)	

Interruptible Revenue Credit			\$ (81,342)	Schedule 10(a)
IRC = Interruptible Revenue Credit / S			\$ (0.0020)	

Net Applicable GCR Expenses = C + E - Interruptible Revenue Credit			\$ 179,230,879	
<u>GCR = SSC + GAC - IRC</u>			\$ 4.3166	

SSC in effect 9/01/20	\$ 1.7439	\$ 2.5905	\$ 4.3344	
GAC in effect 9/01/20	\$ 0.1129	\$ (0.1963)	\$ (0.0834)	
IRC in effect 9/01/20			\$ 0.0019	
GCR in effect 9/01/20			\$ 4.2529	Schedule 7

Recovery Test on:

Firm Sales (Mcf)			41,521,080	
= GCR Projected Recovery		\$	176,435,417	
= Load Balancing Revenue		\$	2,705,269	
= LNG Sales Demand Revenue		\$	88,465	
= Total Projected Recovery		\$	179,229,151	Schedule 7
Compared To				
Net Applicable GCR Expenses		\$	179,230,879	
= Net Over/(Under) Recovery		\$	(1,728)	

Degree Days 3,962

Philadelphia Gas Works

Price To Compare (\$ / MCF)

September 1, 2020

	GCR	GCA	SSC	MFC	MFC Charge	GPC Charge	GAC	Price to Compare
	1	2	3 = (1 - 2)	4	5 = (1 * 4)	6	7	8 = (3 + 5 + 6 + 7)
Residential GS	\$4.2529	(\$0.0815)	\$4.3344	3.76%	\$0.1599	\$0.0400	(\$0.0834)	\$4.4509
Commercial GS	\$4.2529	(\$0.0815)	\$4.3344	0.62%	\$0.0264	\$0.0400	(\$0.0834)	\$4.3174
Industrial GS	\$4.2529	(\$0.0815)	\$4.3344	0.39%	\$0.0166	\$0.0400	(\$0.0834)	\$4.3076
Phila. Housing Authority (PHA)	\$4.2529	(\$0.0815)	\$4.3344	0%	\$0.0000	\$0.0400	(\$0.0834)	\$4.2910
Municipal (MS)	\$4.2529	(\$0.0815)	\$4.3344	0%	\$0.0000	\$0.0400	(\$0.0834)	\$4.2910
NGV Firm	\$4.2529	(\$0.0815)	\$4.3344	0%	\$0.0000	\$0.0400	(\$0.0834)	\$4.2910
Phila. Housing Authority (GS)	\$4.2529	(\$0.0815)	\$4.3344	0%	\$0.0000	\$0.0400	(\$0.0834)	\$4.2910

SALES & VOLUMES

SEPTEMBER 2020 THROUGH AUGUST 2021

MONTH	TOTAL VOLUMES 1	FIRM TRANSPORT VOLUMES 2	BILLED SALES 3 = (1 - 2)	INTERRUPTIBLE SALES 4	LNG SALES 4A	AIR CONDITIONING SALES 4B	GCR FIRM SALES 5 = (3 - 4 - 4A - 4B)	SENIOR CITIZEN DISCOUNT SALES 6	APPLICABLE VOLUMES 7 = (5 - 6 + 2)
SEPTEMBER 2020	1,045,981	190,752	855,229	1,056	4,110	157	849,906	2,242	1,038,415
OCTOBER	1,500,806	283,057	1,217,749	1,092	4,247	83	1,212,328	3,400	1,491,985
NOVEMBER	3,219,219	509,229	2,709,990	1,056	4,110	-	2,704,824	9,006	3,205,047
DECEMBER	5,873,369	867,032	5,006,337	1,092	4,247	-	5,000,998	17,242	5,850,789
JANUARY 2021	10,636,748	1,393,751	9,242,997	1,092	4,247	-	9,237,658	32,692	10,598,718
FEBRUARY	8,961,698	1,176,965	7,784,733	986	3,836	-	7,779,911	26,953	8,929,923
MARCH	7,133,031	946,700	6,186,331	1,092	4,247	-	6,180,993	20,776	7,106,917
APRIL	4,521,348	588,824	3,932,524	1,056	4,110	-	3,927,358	12,777	4,503,405
MAY	2,026,006	302,394	1,723,612	1,092	4,247	-	1,718,274	4,900	2,015,768
JUNE	1,314,637	232,821	1,081,816	1,056	4,110	50	1,076,600	2,477	1,306,944
JULY	1,171,866	212,955	958,911	1,092	4,247	282	953,290	2,101	1,164,145
AUGUST	1,081,606	197,230	884,376	1,092	4,247	99	878,939	1,907	1,074,262
TOTAL	48,486,314	6,901,710	41,584,604	12,854	50,000	670	41,521,080	136,473	48,286,317

**PROJECTED APPLICABLE FUEL EXPENSE
SUMMARY
SEPTEMBER 2020 - AUGUST 2021**

	SEPTEMBER 2020	OCTOBER 2020	NOVEMBER 2020	DECEMBER 2020	JANUARY 2021	FEBRUARY 2021	MARCH 2021	APRIL 2021	MAY 2021	JUNE 2021	JULY 2021	AUGUST 2021	TOTAL
NATURAL GAS BILLED													
DEMAND CHARGE	\$4,887,146	\$4,812,669	\$5,439,098	\$5,872,326	\$5,870,500	\$5,988,691	\$6,906,833	\$6,747,960	\$6,734,230	\$6,744,227	\$6,730,496	\$6,728,670	\$73,462,845
COMMODITY CHARGE	\$6,827,106	\$10,212,985	\$10,103,678	\$14,021,609	\$11,259,156	\$9,393,861	\$8,022,658	\$9,754,904	\$8,716,170	\$6,630,488	\$6,968,580	\$6,981,441	\$108,892,637
TOTAL NATURAL GAS BILLED	\$11,714,252	\$15,025,654	\$15,542,775	\$19,893,935	\$17,129,656	\$15,382,551	\$14,929,491	\$16,502,865	\$15,450,400	\$13,374,715	\$13,699,076	\$13,710,111	\$182,355,482
INTERRUPTIBLE AND FIRM A/C CREDIT													
SENDOUT VOLUME IN MCF	\$2,929	\$2,908	\$2,674	\$2,937	\$2,936	\$2,634	\$2,832	\$2,610	\$2,642	\$2,708	\$3,409	\$2,960	\$34,179
DKT CONVERSION FACTOR	1,247	1,207	1,086	1,122	1,122	1,013	1,122	1,086	1,122	1,137	1,412	1,223	13,898
PRICE \$/DKT	1,034	1,034	1,034	1,034	1,034	1,034	1,034	1,034	1,034	1,034	1,034	1,034	\$2,3402
GAS USED FOR UTILITY													
NATURAL GAS TO STORAGE	\$13,140	\$15,839	\$43,126	\$88,593	\$152,168	\$100,332	\$80,606	\$57,437	\$20,658	\$21,691	\$19,815	\$26,442	\$639,848
FROM STORAGE PGW	(\$4,748,656)	(\$5,044,406)	\$0	\$0	\$0	\$0	\$0	(\$2,610,292)	(\$5,250,893)	(\$4,702,206)	(\$4,964,248)	(\$4,975,330)	(\$32,296,030)
FT FROM STORAGE	\$0	\$0	\$185,151	\$4,648,729	\$10,971,653	\$9,177,922	\$7,168,243	\$214,976	\$0	\$0	\$0	\$0	\$32,366,675
NET NATURAL GAS STORAGE	(\$4,748,656)	(\$5,044,406)	\$185,151	\$4,648,729	\$10,971,653	\$9,177,922	\$7,168,243	(\$2,395,317)	(\$5,250,893)	(\$4,702,206)	(\$4,964,248)	(\$4,975,330)	\$70,645
LNG													
TO STORAGE	(\$4,063)	(\$383,458)	(\$924,492)	(\$899,928)	(\$780,334)	(\$706,974)	(\$1,016,764)	(\$581,053)	(\$241,263)	(\$8,001)	\$0	\$0	(\$5,546,329)
FROM LNG PGW	\$252,416	\$335,149	\$250,746	\$1,111,530	\$1,353,848	\$979,096	\$271,313	\$251,324	\$276,997	\$250,014	\$258,333	\$258,333	\$5,849,098
FT FROM LNG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NET LNG STORAGE	\$248,353	(\$48,310)	(\$673,746)	\$211,602	\$573,514	\$272,122	(\$745,451)	(\$329,729)	\$35,734	\$242,013	\$258,333	\$258,333	\$302,768
LNG SALES FROM LNG TANK	\$11,381	\$11,760	\$11,342	\$11,664	\$11,688	\$10,597	\$11,746	\$11,358	\$11,681	\$11,274	\$11,648	\$11,648	\$137,787
SENDOUT VOLUMES (MCF)	4,110	4,247	4,110	4,247	4,247	3,836	4,247	4,110	4,247	4,110	4,247	4,247	50,000
@ AVG LNG COMMODITY RATE	\$2,7694	\$2,7692	\$2,7598	\$2,7467	\$2,7523	\$2,7627	\$2,7660	\$2,7638	\$2,7508	\$2,7433	\$2,7430	\$2,7430	\$2,7430
NET NATURAL GAS EXPENSE	\$7,186,500	\$9,902,432	\$14,997,039	\$24,651,072	\$28,508,031	\$24,719,033	\$21,257,099	\$13,706,414	\$10,200,260	\$8,878,849	\$6,958,289	\$8,952,065	\$181,917,081
APPLICABLE GCR EXPENSE													
NET NATURAL GAS EXPENSE	\$7,186,500	\$9,902,432	\$14,997,039	\$24,651,072	\$28,508,031	\$24,719,033	\$21,257,099	\$13,706,414	\$10,200,260	\$8,878,849	\$6,958,289	\$8,952,065	\$181,917,081
PURCHASED ELECTRIC & MISC	\$32,394	\$31,241	\$44,814	\$52,772	\$198,636	\$59,539	\$56,926	\$53,152	\$36,576	\$35,035	\$33,217	\$33,190	\$667,491
TOTAL APPLICABLE EXPENSES	\$7,218,894	\$9,933,672	\$15,041,852	\$24,703,844	\$28,706,667	\$24,778,571	\$21,314,025	\$13,759,566	\$10,236,836	\$8,913,884	\$8,991,506	\$8,985,255	\$182,584,572
TOTAL GCR FIRM SALES	849,906	1,212,328	2,704,824	5,000,998	9,237,658	7,779,911	6,180,993	3,927,358	1,718,274	1,076,600	953,290	878,939	41,521,080

ACTUAL / ESTIMATED DATA - FISCAL YEAR 2020
PHILADELPHIA GAS WORKS

Item 53.64 (a)
Schedule 4(a)

Rate	Split Month		Split Month		Split Month		Split Month		Split Month		FY 2020 Total		
	7/1/2019	9/1/2019	10/1/2019	12/1/2019	1/1/2020	3/1/2020	4/1/2020	5/1/2020	6/1/2020	7/1/2020		8/1/2020	
SSC in Effect	\$ 4,350.1	\$ 4,468.1	\$ 4,586.0	\$ 4,630.9	\$ 4,675.7	\$ 4,297.9	\$ 3,920.0						
GAC in Effect	\$ (0.0737)	\$ (0.0266)	\$ 0.0206	\$ 0.0279	\$ 0.0351	\$ 0.0064	\$ (0.0223)						
IRC in Effect	\$ (0.0040)	\$ (0.0038)	\$ (0.0036)	\$ 0.0016	\$ 0.0067	\$ 0.0050	\$ 0.0032						
Total Effective	\$ 4,272.4	\$ 4,437.7	\$ 4,603.0	\$ 4,660.3	\$ 4,717.5	\$ 4,309.2	\$ 3,900.9						
Percentage of Total													
C-Factor	101.8%	100.7%	99.6%	99.4%	99.1%	99.7%	100.5%						
E-Factor	-1.7%	-0.6%	0.4%	0.7%	0.1%	0.1%	-0.6%						
IRC-Factor	-0.1%	-0.1%	-0.1%	0.0%	0.1%	0.1%	0.1%						
Total	100%	100%	100%	100%	100%	100%	100%						
C-Factor	\$ 1,340.3	\$ 1,611.4	\$ 1,882.5	\$ 1,964.7	\$ 2,046.9	\$ 1,748.3	\$ 1,449.7						
Demand Charge in Effect	\$ 3,009.8	\$ 2,856.7	\$ 2,703.5	\$ 2,666.2	\$ 2,628.8	\$ 2,549.6	\$ 2,470.3						
Commodity in Effect	\$ 4,350.1	\$ 4,468.1	\$ 4,586.0	\$ 4,630.9	\$ 4,675.7	\$ 4,297.9	\$ 3,920.0						
Percentage of Total													
Demand Charge in Effect	30.8%	36.1%	41.0%	42.4%	43.8%	40.7%	37.0%						
Commodity in Effect	69.2%	63.9%	59.0%	57.6%	56.2%	59.3%	63.0%						
Total	100%	100%	100%	100%	100%	100%	100%						
Fiscal Year 2019 E-Factor	\$ (4,009,007)	\$ 2,846,633	\$ (310,221)	\$ (1,472,595)									
Interest													
FY 2019													
Final E-Factor													
Actual													
Fiscal Year 2019-2020													
GCR Firm Sales	\$ 4,228,589	\$ 5,066,955	\$ 14,791,249	\$ 28,804,748	\$ 32,603,526	\$ 32,878,224	\$ 26,899,761	\$ 15,471,297	\$ 6,767,390	\$ 4,239,266	\$ 3,753,595	\$ 3,460,875	\$ 178,965,474
Migration Rider Revenue Billed	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Load Balancing Billed	\$ 210,704	\$ 218,471	\$ 226,215	\$ 214,762	\$ 218,414	\$ 219,267	\$ 218,242	\$ 219,089	\$ 219,938	\$ 220,785	\$ 221,633	\$ 222,485	\$ 2,630,004
LNG Sales Demand Charge Credit	\$ -	\$ 76,522	\$ 26,059	\$ 8,650	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 111,231
Total Revenue Billed	\$ 4,439,293	\$ 5,361,947	\$ 15,043,523	\$ 29,028,160	\$ 32,821,940	\$ 33,097,491	\$ 27,118,003	\$ 15,690,386	\$ 6,987,328	\$ 4,460,051	\$ 3,975,228	\$ 3,683,360	\$ 181,706,710
Natural Gas Refunds	\$ -	\$ 1,115	\$ -	\$ 65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,180
Demand Charges	\$ 6,912,195	\$ 7,233,417	\$ 5,979,435	\$ 6,541,375	\$ 6,959,260	\$ 6,949,595	\$ 6,882,122	\$ 6,722,560	\$ 6,708,059	\$ 6,717,406	\$ 6,702,946	\$ 6,700,348	\$ 81,008,719
Supply Charges	\$ 1,884,811	\$ 3,919,177	\$ 12,954,389	\$ 16,806,918	\$ 14,482,848	\$ 17,297,447	\$ 12,449,582	\$ 6,581,122	\$ 3,206,306	\$ 2,057,096	\$ 2,170,866	\$ 2,179,566	\$ 95,990,127
Net Cost of Fuel	\$ 8,797,006	\$ 11,152,594	\$ 18,333,824	\$ 23,348,293	\$ 21,442,107	\$ 24,247,042	\$ 19,331,705	\$ 13,303,682	\$ 9,914,365	\$ 8,774,502	\$ 8,873,811	\$ 8,879,914	\$ 176,998,846

FISCAL YEAR 2020
PHILADELPHIA GAS WORKS
C-FACTOR RECONCILIATION

Item 53.64 (a)
Schedule 4(b)

MONTH	NET COST OF FUEL	TOTAL GCR REVENUE BILLED	C FACTOR % of GCR	C FACTOR REVENUE BILLED	LOAD BALANCING REVENUE	LNG SALES GCR BILLED REVENUE	TOTAL C FACTOR REVENUE BILLED	NATURAL GAS REFUNDS	OVER/(UNDER) RECOVERY	CUMULATIVE OVER/(UNDER)
	1	2	3	4 = (2 * 3)	5	6	7 = (4 + 5 + 6)	8	9 = (7 + 8 - 1)	10
	(\$)	(\$)		(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
SEPTEMBER 2019	8,797,006	4,228,589	100.7%	4,257,508	210,704	0	4,468,212	0	(4,328,794)	(4,328,794)
OCTOBER	11,152,594	5,066,955	99.6%	5,048,241	218,471	76,522	5,343,234	1,115	(5,808,246)	(10,137,039)
NOVEMBER	18,933,824	14,791,249	99.6%	14,736,621	226,215	26,059	14,988,896	0	(3,944,928)	(14,081,967)
DECEMBER	23,348,293	28,804,748	99.4%	28,623,029	214,762	8,650	28,846,441	65	5,498,213	(8,583,754)
JANUARY 2020	21,442,107	32,603,526	99.1%	32,314,639	218,414	0	32,533,052	0	11,090,945	2,507,191
FEBRUARY	24,247,042	32,878,224	99.1%	32,586,902	219,267	0	32,806,169	0	8,559,127	11,066,318
MARCH	19,331,705	26,899,761	99.7%	26,828,909	218,242	0	27,047,151	0	7,715,447	18,781,765
APRIL	13,303,682	15,471,297	100.5%	15,547,049	219,089	0	15,766,139	0	2,462,456	21,244,221
MAY	9,914,365	6,767,390	100.5%	6,800,525	219,938	0	7,020,463	0	(2,893,902)	18,350,319
JUNE	8,774,502	4,239,266	100.5%	4,260,023	220,785	0	4,480,808	0	(4,293,694)	14,056,624
JULY	8,873,811	3,753,595	100.5%	3,771,973	221,633	0	3,993,607	0	(4,880,205)	9,176,420
AUGUST	8,879,914	3,460,875	100.5%	3,477,820	222,485	0	3,700,305	0	(5,179,609)	3,996,811
Total	176,998,846	178,965,474		178,253,241	2,630,004	111,231	180,994,477	1,180	3,996,811	

FISCAL YEAR 2020
PHILADELPHIA GAS WORKS
E-FACTOR RECONCILIATION

Item 53.64 (a)
Schedule 4(c)

MONTH	PRIOR YEAR E-FACTOR		E-FACTOR		TOTAL		TOTAL		E-FACTOR		OVER/(UNDER)	
	GCR SALES	E-FACTOR	VOLUMES	REVENUE	% of GCR	REVENUE	REVENUE	REVENUE	REVENUE	BILLED	PROJECTED	RECOVERY
	1	2	3	4	5	6	7	8	9	10	11	12
	(MCF)	(MCF)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
SEPTEMBER 2019	Actual	944,022	\$ 4,228,589	-0.6%	\$ (25,299)	\$ (1,497,894)						
OCTOBER	Actual	1,100,259	\$ 5,066,955	0.4%	\$ 22,676	\$ (1,475,218)						
NOVEMBER	Actual	3,212,670	\$ 14,791,249	0.4%	\$ 66,196	\$ (1,409,022)						
DECEMBER	Actual	6,174,658	\$ 28,804,748	0.6%	\$ 172,139	\$ (1,236,882)						
JANUARY 2020	Estimated	6,911,187	\$ 32,603,526	0.7%	\$ 242,583	\$ (994,300)						
FEBRUARY	Estimated	6,969,417	\$ 32,878,224	0.7%	\$ 244,627	\$ (749,673)						
MARCH	Estimated	6,242,402	\$ 26,899,761	0.1%	\$ 39,951	\$ (709,722)						
APRIL	Estimated	3,966,084	\$ 15,471,297	-0.6%	\$ (88,444)	\$ (798,165)						
MAY	Estimated	1,734,828	\$ 6,767,390	-0.6%	\$ (38,687)	\$ (836,852)						
JUNE	Estimated	1,086,741	\$ 4,239,266	-0.6%	\$ (24,234)	\$ (861,086)						
JULY	Estimated	962,238	\$ 3,753,595	-0.6%	\$ (21,458)	\$ (882,544)						
AUGUST	Estimated	887,199	\$ 3,460,875	-0.6%	\$ (19,785)	\$ (902,329)						
Total		40,191,705	\$ 178,965,474		\$ 570,266							

**FISCAL YEAR 2020
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 2019	4,228,589	-0.09%	(3,621)
OCTOBER	5,066,955	-0.08%	(3,963)
NOVEMBER	14,791,249	-0.08%	(11,568)
DECEMBER	28,804,748	0.03%	9,580
JANUARY 2020	32,603,526	0.14%	46,305
FEBRUARY	32,878,224	0.14%	46,695
MARCH	26,899,761	0.11%	30,900
APRIL	15,471,297	0.08%	12,691
MAY	6,767,390	0.08%	5,551
JUNE	4,239,266	0.08%	3,478
JULY	3,753,595	0.08%	3,079
AUGUST	<u>3,460,875</u>	0.08%	<u>2,839</u>
TOTALS	178,965,474		141,966

**FISCAL YEAR 2020
PHILADELPHIA GAS WORKS
RECONCILIATION OF DEMAND CHARGES**

MONTH	DEMAND CHARGES		MONTHLY DEMAND OVER/(UNDER)	CUMULATIVE DEMAND OVER/(UNDER)
	LESS LOAD BALANCING CHARGE REVENUE	DEMAND REVENUE BILLED		
	1	2	3 = (2 - 1)	4
	\$	\$	\$	\$
SEPTEMBER 2019	6,701,491	1,521,197	(5,180,294)	(5,180,294)
OCTOBER	6,938,424	2,071,237	(4,867,188)	(10,047,482)
NOVEMBER	5,727,161	6,047,852	320,691	(9,726,790)
DECEMBER	6,317,963	12,131,350	5,813,387	(3,913,403)
JANUARY 2020	6,740,846	14,146,509	7,405,663	3,492,260
FEBRUARY	6,730,328	14,265,699	7,535,371	11,027,631
MARCH	6,663,880	10,913,592	4,249,712	15,277,343
APRIL	6,503,471	5,749,632	(753,839)	14,523,504
MAY	6,488,121	2,514,980	(3,973,141)	10,550,363
JUNE	6,496,621	1,575,448	(4,921,174)	5,629,189
JULY	6,481,312	1,394,957	(5,086,356)	542,834
AUGUST	<u>6,477,863</u>	<u>1,286,172</u>	<u>(5,191,691)</u>	(4,648,857)
TOTALS	78,267,483	73,618,626	(4,648,857)	

**FISCAL YEAR 2020
PHILADELPHIA GAS WORKS
INTEREST CALCULATION**

MONTH	NET COST OF FUEL (1)	TOTAL C FACTOR REVENUE BILLED (1)	OVER/ (UNDER) RECOVERY 3 = (2 - 1)	INTEREST RATE 4	TIME FACTOR 5	INTEREST EXPENSE 6 = (3*4*5)	INTEREST NATURAL GAS REFUNDS (2) 7	TOTAL INTEREST 8 = (6+7)
	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
SEPTEMBER 19	8,797,006	4,468,212	(4,328,794)	4.75%	18/12	(308,427)	-	(308,427)
OCTOBER	11,152,594	5,343,234	(5,809,360)	4.75%	17/12	(390,922)	95	(390,827)
NOVEMBER	18,933,824	14,988,896	(3,944,928)	4.75%	16/12	(249,845)	-	(249,845)
DECEMBER	23,348,293	28,846,441	5,498,148	4.75%	15/12	326,453	5	326,458
JANUARY 20	21,442,107	32,533,052	11,090,945	4.75%	14/12	614,623	-	614,623
FEBRUARY	24,247,042	32,806,169	8,559,127	4.75%	13/12	440,438	-	440,438
MARCH	19,331,705	27,047,151	7,715,447	4.75%	12/12	366,484	-	366,484
APRIL	13,303,682	15,766,139	2,462,456	4.75%	11/12	107,219	-	107,219
MAY	9,914,365	7,020,463	(2,893,902)	4.75%	10/12	(114,550)	-	(114,550)
JUNE	8,774,502	4,480,808	(4,293,694)	4.75%	9/12	(152,963)	-	(152,963)
JULY	8,873,811	3,993,607	(4,880,205)	4.75%	8/12	(154,540)	-	(154,540)
AUGUST	8,879,914	3,700,305	(5,179,609)	4.75%	7/12	(143,518)	-	(143,518)
Total	176,998,846	180,994,477	3,995,631			340,452	100	340,552

(1) See Schedule 4(b)

(2) See Schedule 5(c)

**FISCAL YEAR 2020
 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 19		6.00%	18/12	0
OCTOBER	1,115	6.00%	17/12	95
NOVEMBER		6.00%	16/12	0
DECEMBER	65	6.00%	15/12	5
JANUARY 20		6.00%	14/12	0
FEBRUARY		6.00%	13/12	0
MARCH		6.00%	12/12	0
APRIL		6.00%	11/12	0
MAY		6.00%	10/12	0
JUNE		6.00%	9/12	0
JULY		6.00%	8/12	0
AUGUST		6.00%	7/12	0
TOTAL	1,180			100

FISCAL YEAR 2020
PHILADELPHIA GAS WORKS
DEMAND AND COMMODITY INTEREST CALCULATION

MONTH	OVER/(UNDER) RECOVERY (1)	DEMAND CHARGE OVER/(UNDER) RECOVERY (2)	COMMODITY CHARGE OVER/(UNDER) RECOVERY (3)	INTEREST RATE 4	TIME FACTOR 5	DEMAND INTEREST EXPENSE 6=(2*4*5)	COMMODITY INTEREST EXPENSE 7=(3*4*5)	TOTAL INTEREST EXPENSE 8=(6+7)	INTEREST ON REFUNDS (3)	TOTAL INTEREST 10=(8+9)
	1	2	3=(1-2)	4	5	6=(2*4*5)	7=(3*4*5)	8=(6+7)	9	10=(8+9)
	(\$)	(\$)	(\$)			(\$)	(\$)	(\$)	(\$)	(\$)
SEPTEMBER 19	(4,328,794)	(5,180,294)	851,500	4.75%	18/12	(369,096)	60,669	(308,427)	0	(308,427)
OCTOBER	(5,809,360)	(4,867,188)	(942,173)	4.75%	17/12	(327,521)	(63,400)	(390,922)	95	(390,827)
NOVEMBER	(3,944,928)	320,691	(4,265,620)	4.75%	16/12	20,310	(270,156)	(249,845)	0	(249,845)
DECEMBER	5,498,148	5,813,387	(315,240)	4.75%	15/12	345,170	(18,717)	326,453	5	326,458
JANUARY 20	11,090,945	7,405,663	3,685,282	4.75%	14/12	410,397	204,226	614,623	0	614,623
FEBRUARY	8,559,127	7,535,371	1,023,756	4.75%	13/12	387,758	52,681	440,438	0	440,438
MARCH	7,715,447	4,249,712	3,465,735	4.75%	12/12	201,861	164,622	366,484	0	366,484
APRIL	2,462,456	(753,839)	3,216,295	4.75%	11/12	(32,823)	140,043	107,219	0	107,219
MAY	(2,893,902)	(3,973,141)	1,079,239	4.75%	10/12	(157,270)	42,720	(114,550)	0	(114,550)
JUNE	(4,293,694)	(4,921,174)	627,479	4.75%	9/12	(175,317)	22,354	(152,963)	0	(152,963)
JULY	(4,880,205)	(5,086,356)	206,151	4.75%	8/12	(161,068)	6,528	(154,540)	0	(154,540)
AUGUST	(5,179,609)	(5,191,691)	12,082	4.75%	7/12	(143,853)	335	(143,518)	0	(143,518)
TOTAL FY 2020	3,995,631	(4,648,857)	8,644,488			(1,452)	341,905	340,452		340,552

FISCAL YEAR 2021
PHILADELPHIA GAS WORKS
LOAD BALANCING REVENUE

<u>Month</u>		<u>Load Balancing Revenue Billed (\$)</u>
September 2020	Estimated	221,942
October	Estimated	222,543
November	Estimated	223,146
December	Estimated	223,981
January 2021	Estimated	224,582
February	Estimated	225,186
March	Estimated	225,803
April	Estimated	226,406
May	Estimated	227,007
June	Estimated	227,623
July	Estimated	228,224
<u>August</u>	Estimated	<u>228,825</u>
Total		2,705,269

CALCULATION OF RECOVERED CHARGES
1307F Filing
September 1, 2020

	<u>50% September</u>	<u>11.5 Months</u>	<u>Total</u>
			(MCF) (\$)
S - Firm Sales (Mcf)	424,953	41,096,127	41,521,080
C-Factor	\$ 3.9200	\$ 4.3344	
Projected Recovery	1,665,816	178,127,052	\$ 179,792,868
S - Firm Sales (Mcf)	424,953	41,096,127	41,521,080
IRC-Factor	\$ 0.0032	\$ 0.0019	
Projected Recovery	1,360	78,083	\$ 79,442
E-Factor Volumes (Mcf)	424,953	41,096,127	41,521,080
E-Factor	\$ (0.0223)	\$ (0.0834)	
Projected Recovery	(9,476)	(3,427,417)	\$ (3,436,893)
GCR (\$ / Mcf)	\$ 3.9009	\$ 4.2529	
GCR Projected Recovery			\$ 176,435,417
Load Balancing Revenue			\$ 2,705,269
LNG Sales Demand Revenue			\$ 88,465
TOTAL PROJECTED RECOVERY			\$ 179,229,151

**Change In Rates
1307F Filing
Rates Effective September 1, 2020**

Current Rates

	<u>03/01/20</u> <u>Distribution Charge</u> (1)	<u>03/01/20</u> <u>GCR</u> (2)	<u>03/01/20</u> <u>MFC</u> (3)	<u>03/01/20</u> <u>GPC</u> (4)	<u>03/01/20</u> <u>Commodity</u> <u>Rate</u> (5)=(1)+(2)+(3)+(4)
Residential GS	\$8.2118	\$3.9009	\$0.1467	\$0.0400	\$12.2994
Commercial GS	\$6.4003	\$3.9009	\$0.0242	\$0.0400	\$10.3654
Industrial GS	\$6.2723	\$3.9009	\$0.0152	\$0.0400	\$10.2284
Phila.Housing Authority (PHA)	\$6.5515	\$3.9009	\$0.0000	\$0.0400	\$10.4924
Municipal (MS)	\$5.7839	\$3.9009	\$0.0000	\$0.0400	\$9.7248
Phila.Housing Authority (GS)	\$7.2256	\$3.9009	\$0.0000	\$0.0400	\$11.1665

September 1, 2020 - 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	\$6.6967	\$0.3410	\$0.0102	\$1.0614	\$0.0000	\$1.4126	\$8.1093
Commercial GS	\$4.8651	\$0.3410	\$0.0406	\$1.0614	\$0.0000	\$1.4430	\$6.3081
Industrial GS	\$4.7698	\$0.3410	\$0.0159	\$1.0614	\$0.0000	\$1.4183	\$6.1881
Phila.Housing Authority (PHA)	\$5.0163	\$0.3410	\$0.0406	\$1.0614	\$0.0000	\$1.4430	\$6.4593
Municipal (MS)	\$4.2723	\$0.3410	\$0.0000	\$1.0614	\$0.0000	\$1.4024	\$5.6747
Phila.Housing Authority (GS)	\$5.7105	\$0.3410	\$0.0102	\$1.0614	\$0.0000	\$1.4126	\$7.1231

Proposed Rates

	<u>09/01/20</u> <u>Distribution Charge</u> (12)	<u>09/01/20</u> <u>GCR</u> (13)	<u>09/01/20</u> <u>MFC</u> (14)	<u>09/01/20</u> <u>GPC</u> (15)	<u>09/01/20</u> <u>Commodity</u> <u>Rate</u> (16)=(12)+(13)+(14)+(15)	<u>Difference</u> (17)=(16)-(5)
Residential GS	\$8.1093	\$4.2529	\$0.1599	\$0.0400	\$12.5621	\$0.2627
Commercial GS	\$6.3081	\$4.2529	\$0.0264	\$0.0400	\$10.6274	\$0.2620
Industrial GS	\$6.1881	\$4.2529	\$0.0166	\$0.0400	\$10.4976	\$0.2692
Phila.Housing Authority (PHA)	\$6.4593	\$4.2529	\$0.0000	\$0.0400	\$10.7522	\$0.2598
Municipal (MS)	\$5.6747	\$4.2529	\$0.0000	\$0.0400	\$9.9676	\$0.2428
Phila.Housing Authority (GS)	\$7.1231	\$4.2529	\$0.0000	\$0.0400	\$11.4160	\$0.2495

PHILADELPHIA GAS WORKS
SEPTEMBER 1, 2020 - 1307F FILING
UNIVERSAL SERVICE & ENERGY CONSERVATION SURCHARGE

	<u>Expenses in the Surcharge</u>
Enhanced Low Income Retrofit Program (ELIRP)	\$ 7,988,818
Customer Responsibility Program (CRP)	\$ 42,252,106
Conservation Incentive Credit	\$ -
Senior Citizen Discount *	\$ 1,894,281
<u>August 2021 Over Collection</u>	<u>\$ (923,797)</u>
Total \$ to be Recovered	\$ 51,211,408
Total Applicable Volumes	Mcf 48,247,257
Universal Service & Energy Conservation Surcharge	<u><u>\$ 1.0614</u></u>

* This is the Senior Citizen Discount based on the Distribution Charge without the Universal Services Surcharge plus the GCR. This is used to calculate the Universal Services Surcharge. The total senior citizen discount is \$2,047,956.

**STATEMENT OF RECONCILIATION
UNIVERSAL SERVICES & ENERGY CONSERVATION SURCHARGE
SEPTEMBER 2019 THROUGH AUGUST 2020**

Month	USC Applicable Volumes		USC Charge	USC Revenue		USC Expenses	Monthly Over/(Under) Recovery		Cumulative Over/(Under) Recovery								
	Actual	Estimated		Billed	Actual		Estimated	Actual		Estimated							
September 2019	1,138,871	\$	1,2805	\$	1,435,490	\$	(1,582,662)	\$	3,018,152	\$	1,196,795						
October	1,358,986	\$	1,2195	\$	1,657,283	\$	(21,738)	\$	1,679,021	\$	2,875,816						
November	3,752,873	\$	1,2195	\$	4,576,629	\$	4,144,212	\$	432,417	\$	\$3,308,233						
December	7,048,852	\$	1,1010	\$	7,761,111	\$	9,196,747	\$	(1,435,636)	\$	\$1,872,597						
January 2020	7,920,522	\$	0,9826	\$	7,782,644	\$	11,673,306	\$	(3,890,662)	\$	(\$2,018,065)						
February	8,020,988	\$	0,9826	\$	7,861,362	\$	11,778,261	\$	(3,896,900)	\$	(\$5,914,965)						
March	7,151,657	\$	1,0768	\$	7,701,234	\$	9,932,236	\$	(2,231,002)	\$	(\$8,145,967)						
April	4,632,551	\$	1,1711	\$	5,308,071	\$	5,243,339	\$	64,731	\$	(\$8,081,235)						
May	2,027,795	\$	1,1711	\$	2,374,751	\$	607,825	\$	1,766,926	\$	(\$6,314,309)						
June	1,313,847	\$	1,1711	\$	1,538,646	\$	(841,393)	\$	2,380,040	\$	(\$3,934,268)						
July	1,170,163	\$	1,1711	\$	1,370,378	\$	(1,057,939)	\$	2,428,317	\$	(\$1,505,952)						
August	1,079,832	\$	1,1711	\$	1,264,591	\$	(1,165,159)	\$	2,429,749	\$	\$923,797						
USC Expenses	Actual	Estimated	Actual	Estimated	Actual	Estimated	Actual	Estimated	Actual	Estimated	Total						
ELIRP Expense	\$ (5,610)	\$	593,111	\$	775,900	\$	640,702	\$	753,384	\$	753,384	\$	753,384	\$	8,031,177		
ELIRP Labor	\$ 22,492	\$	10,117	\$	23,353	\$	14,485	\$	17,149	\$	17,149	\$	17,149	\$	207,639		
Conservation Incentive Credit	\$ -	\$	227,600	\$	100	\$	-	\$	-	\$	-	\$	-	\$	227,600		
CRP Discount	\$ (2,403,563)	\$	(1,749,547)	\$	2,348,336	\$	7,501,644	\$	9,484,979	\$	(1,303,240)	\$	(2,928,343)	\$	(\$3,034,021)		
CRP Forgiveness	\$ 732,550	\$	803,371	\$	769,558	\$	653,112	\$	1,000,616	\$	1,006,084	\$	1,036,936	\$	\$25,801,933		
Senior Citizen Discount	\$ 71,469	\$	93,710	\$	229,965	\$	386,805	\$	417,178	\$	412,771	\$	67,306	\$	\$11,147,567		
Bad Debt Expense Offset*	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-		
Total	\$ (1,582,662)	\$	(21,738)	\$	4,144,212	\$	9,196,747	\$	11,673,306	\$	11,778,261	\$	607,825	\$	\$ (1,165,159)	\$	\$ (1,057,939)

CRP Participation	
Rate Case Participation Rate	60,000
Actual Participation Rate*	53,395
CRP Under/(Over) Participation	6,605
Average Shortfall Per CRP Participant	\$ (1,749,547)
CRP Discount	\$ 2,348,336
Actual Participation Rate	53,177
Average Shortfall per CRP Participant	44
Shortfall*	139
Bad Debt Expense Offset*	7.5%
*Bad Debt Expense Offset Applicable When Actual CRP Participation Exceeds 60,000	

INTERRUPTIBLE REVENUE CREDIT
September 1, 2020

Fiscal Year 2019 Reconciliation (8/31/19) \$ (248,944)

<u>MONTH</u>		<u>IRC</u> <u>CREDIT</u>		<u>MARGIN</u>	
September-19	Actual	\$ (3,621)	\$	950	
October	Actual	\$ (3,963)	\$	991	
November	Actual	\$ (11,568)	\$	6,559	
December	Actual	\$ 9,580	\$	1,068	
January-20	Estimated	\$ 46,305	\$	817	
February	Estimated	\$ 46,695	\$	764	
March	Estimated	\$ 30,900	\$	817	
April	Estimated	\$ 12,691	\$	790	
May	Estimated	\$ 5,551	\$	817	
June	Estimated	\$ 3,478	\$	790	
July	Estimated	\$ 3,079	\$	817	
August	Estimated	\$ 2,839	\$	817	
Act/Est IRC Credit September 2019 to August 2020		<u>\$ 141,966</u>			
Act/Est Margin September 2019 to August 2020			<u>\$ 15,995</u>	<u>\$ 15,995</u>	
FY 2019 Reconciliation Plus Act/Est Margin September 2019 to August 2020				<u>\$ (232,948)</u>	
FY 2019 Reconciliation Plus Act/Est Margin September 2019 to August 2020				\$ (232,948)	
Act/Est IRC Credit September 2019 to August 2020				<u>\$ 141,966</u>	
Reconciliation as of August 31, 2020				\$ (90,982)	
Margin - September 2020 through August 2021				<u>\$ 9,640</u>	Schedule 10(b)
August 31, 2020 Interruptible Revenue Credit				\$ (81,342)	

GCR Firm Sales 41,521,080 Schedule 2

September 1, 2020 IRC/Mcf \$ (0.0020)

INTERRUPTIBLE REVENUE MARGIN
1307F

<u>MONTH</u>		<u>MARGIN</u>
September-20	Estimated	\$ 792
October	Estimated	\$ 819
November	Estimated	\$ 792
December	Estimated	\$ 819
January-21	Estimated	\$ 819
February	Estimated	\$ 740
March	Estimated	\$ 819
April	Estimated	\$ 792
May	Estimated	\$ 819
June	Estimated	\$ 792
July	Estimated	\$ 819
August	Estimated	\$ 819
Total		\$ 9,640

**INTERRUPTIBLE REVENUE CREDIT
FINALIZED RECONCILIATION FY 2019**

Fiscal Year 2018 Reconciliation (8/31/18) \$ 18,323

<u>MONTH</u>	<u>IRC CREDIT</u>	<u>MARGIN</u>	
September-18	Actual \$ (1,546)	\$ 483	
October	Actual \$ (2,115)	\$ 332	
November	Actual \$ (6,285)	\$ 532	
December	Actual \$ (34,967)	\$ 547	
January-19	Actual \$ (71,431)	\$ 603	
February	Actual \$ (75,899)	\$ 506	
March	Actual \$ (51,129)	\$ 479	
April	Actual \$ (21,530)	\$ 29	
May	Actual \$ (9,841)	\$ (181)	
June	Actual \$ (5,763)	\$ 476	
July	Actual \$ (3,680)	\$ 551	
August	Actual \$ (3,311)	\$ 15,871	
Actual IRC Credit September 2018 to August 2019	<u>\$ (287,497)</u>		
Actual Margin September 2018 to August 2019		<u>\$ 20,230</u>	<u>\$ 20,230</u>
FY 2018 Reconciliation Plus Actual Margin September 2018 to August 2019			<u>\$ 38,553</u>

FY 2018 Reconciliation Plus Actual Margin September 2018 to August 2019		\$ 38,553
Actual IRC Credit September 2018 to August 2019		<u>\$ (287,497)</u>
Reconciliation as of August 31, 2019		<u>\$ (248,944)</u>

OTHER POST EMPLOYMENT BENEFIT (OPEB) SURCHARGE
FISCAL YEAR 2021

FY 2019 Over/(Under) Recovery (\$176,056)

<u>Month</u>		<u>OPEB Volumes</u>	<u>OPEB Surcharge</u>	<u>Revenue Billed</u>
September 2019	Actual	1,141,774	\$0.3228	\$368,567
October	Actual	1,363,289	\$0.3362	\$458,345
November	Actual	3,767,742	\$0.3362	\$1,266,733
December	Actual	7,076,152	\$0.3362	\$2,379,038
January 2020	Estimated	7,949,768	\$0.3362	\$2,672,751
February	Estimated	8,049,917	\$0.3362	\$2,706,422
March	Estimated	7,177,189	\$0.3362	\$2,413,007
April	Estimated	4,548,304	\$0.3362	\$1,529,163
May	Estimated	2,033,853	\$0.3362	\$683,791
June	Estimated	1,316,916	\$0.3362	\$442,754
July	Estimated	1,172,775	\$0.3362	\$394,293
<u>August</u>	Estimated	<u>1,082,212</u>	\$0.3362	<u>\$363,845</u>
Total		46,679,891		\$15,678,709

FY 2020 Act/Est OPEB & FY 2019 Reconciliation \$15,502,653

FY 2020 Permitted Recovery \$16,000,000
Over/(Under) Recovery (\$497,347)

FY 2020 Under Recovery \$497,347
FY 2021 Permitted Recovery \$16,000,000
FY 2021 Recovery \$16,497,347

FY 2021 Volumes 48,383,730

FY 2021 OPEB Surcharge / Mcf \$0.3410

OTHER POST EMPLOYMENT BENEFIT (OPEB) SURCHARGE
FISCAL YEAR 2020

FY 2018 Over/(Under) Recovery \$566,295

<u>Month</u>		<u>OPEB Volumes</u>	<u>OPEB Surcharge</u>	<u>Revenue Billed</u>
September 2018	Actual	1,101,710	\$0.3440	\$378,933
October	Actual	1,516,973	\$0.3094	\$469,351
November	Actual	4,258,268	\$0.3094	\$1,317,508
December	Actual	7,171,899	\$0.3094	\$2,218,986
January 2019	Actual	8,749,550	\$0.3094	\$2,707,111
February	Actual	9,244,917	\$0.3094	\$2,860,377
March	Actual	7,565,981	\$0.3094	\$2,340,915
April	Actual	4,154,316	\$0.3094	\$1,285,345
May	Actual	1,957,357	\$0.3094	\$605,606
June	Actual	1,361,392	\$0.3094	\$421,215
July	Actual	1,110,837	\$0.3094	\$343,693
<u>August</u>	Actual	<u>997,442</u>	\$0.3094	<u>\$308,609</u>
Total		49,190,642		\$15,257,649

FY 2018 Act/Est OPEB & FY 2017 Reconciliation	\$15,823,944
FY 2018 Permitted Recovery	<u>\$16,000,000</u>
Over/(Under) Recovery	(\$176,056)

EFFICIENCY COST RECOVERY (ECR) SURCHARGE
1307F FILING-FISCAL YEAR 2021

<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	\$432,846	\$41,015	\$451	\$474,312
Labor Expense	\$15,124	\$1,433	\$16	\$16,573
Commercial & Industrial Retrofit Incentive (CIRI)				
Program Expense	\$33,102	\$54,063	\$0	\$87,165
Labor Expense	\$1,761	\$2,876	\$0	\$4,638
Commercial & Industrial Equipment Rebate (CIER)				
Program Expense	\$5,367	\$399,292	\$35,129	\$439,788
Labor Expense	\$144	\$10,682	\$940	\$11,765
High-Efficiency Construction Incentive (HECI)				
Program Expense	\$61,674	\$75,641	\$0	\$137,315
Labor Expense	\$1,899	\$2,329	\$0	\$4,228
Comprehensive Residential Retrofit Incentive (CRRRI)				
Program Expense	\$0	\$0	\$0	\$0
Labor Expense	\$0	\$0	\$0	\$0
Total Expense	\$551,917	\$587,332	\$36,536	\$1,175,784
Prior Period Reconciliation (8/31/20)	\$ (192,472)	\$ (126,843)	\$ (22,223)	\$ (341,538)
Total	\$359,446	\$460,488	\$14,313	\$834,247
Volumes - Mcf (GCR Firm & Firm Transportation)	35,140,738	11,336,826	899,039	

Efficiency Cost Recovery Surcharge / Mcf	\$0.0102	\$0.0406	\$0.0159
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**EFFICIENCY COST RECOVERY (ECR) SURCHARGE
STATEMENT OF RECONCILIATION**

FISCAL YEAR 2020

	Actual Sep-19	Actual Oct-19	Actual Nov-19	Actual Dec-19	Estimated Jan-20	Estimated Feb-20	Estimated Mar-20	Estimated Apr-20	Estimated May-20	Estimated Jun-20	Estimated Jul-20	Estimated Aug-20
RESIDENTIAL & PHA LGS												
FY 2019 Over-Collection	\$ 600,385											
Volume Billed	\$ 673,192	\$ 841,321	\$ 2,645,792	\$ 5,232,100	\$ 5,994,221	\$ 6,017,194	\$ 5,410,313	\$ 3,431,928	\$ 1,426,098	\$ 822,096	\$ 718,468	\$ 661,651
ECR Surcharge	\$ 0,0110	\$ 0,0166	\$ 0,0166	\$ 0,0094	\$ 0,0021	\$ 0,0021	\$ 0,0028	\$ 0,0035	\$ 0,0035	\$ 0,0035	\$ 0,0035	\$ 0,0035
Revenue Billed	\$ 7,371	\$ 13,966	\$ 43,920	\$ 48,920	\$ 12,588	\$ 12,636	\$ 15,149	\$ 12,012	\$ 4,991	\$ 2,877	\$ 2,515	\$ 2,316
Expense	\$ 81,353	\$ 25,311	\$ 76,763	\$ 51,711	\$ 27,666	\$ 27,666	\$ 27,666	\$ 27,666	\$ 27,666	\$ 27,666	\$ 27,666	\$ 27,666
Labor	\$ (1,539)	\$ 1,097	\$ 1,157	\$ 1,571	\$ 1,708	\$ 1,708	\$ 1,708	\$ 1,708	\$ 1,708	\$ 1,708	\$ 1,708	\$ 1,708
Expense	\$ (78,991)	\$ 2,137	\$ (2,165)	\$ 2,404	\$ 19,022	\$ 19,022	\$ 19,022	\$ 19,022	\$ 19,022	\$ 19,022	\$ 19,022	\$ 19,022
Labor	\$ (2,516)	\$ 222	\$ (463)	\$ 317	\$ 596	\$ 596	\$ 596	\$ 596	\$ 596	\$ 596	\$ 596	\$ 596
Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Labor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expense	\$ (126,730)	\$ 3,504	\$ (1,914)	\$ 2,079	\$ 19,477	\$ 19,477	\$ 19,477	\$ 19,477	\$ 19,477	\$ 19,477	\$ 19,477	\$ 19,477
Labor	\$ (1,406)	\$ 234	\$ (451)	\$ 335	\$ 379	\$ 379	\$ 379	\$ 379	\$ 379	\$ 379	\$ 379	\$ 379
Expense	\$ (9,535)	\$ 53	\$ (53)	\$ 55	\$ 1,474	\$ 1,474	\$ 1,474	\$ 1,474	\$ 1,474	\$ 1,474	\$ 1,474	\$ 1,474
Labor	\$ (167)	\$ 3	\$ (6)	\$ 4	\$ 29	\$ 29	\$ 29	\$ 29	\$ 29	\$ 29	\$ 29	\$ 29
Total	\$ (139,531)	\$ 32,560	\$ 72,867	\$ 58,478	\$ 70,350	\$ 70,350	\$ 70,350	\$ 70,350	\$ 70,350	\$ 70,350	\$ 70,350	\$ 70,350
Monthly Over/(Under)	\$ 146,903	\$ (18,594)	\$ (28,947)	\$ (9,558)	\$ (57,762)	\$ (57,714)	\$ (55,201)	\$ (58,338)	\$ (65,359)	\$ (67,473)	\$ (67,836)	\$ (68,034)
Cumulative Over/(Under)	\$ 747,287	\$ 728,693	\$ 699,747	\$ 690,189	\$ 632,427	\$ 574,713	\$ 519,511	\$ 461,173	\$ 395,814	\$ 328,341	\$ 260,506	\$ 192,472
COMMERCIAL & PHA												
FY 2019 Over-Collection	\$ 356,338											
Volume Billed	\$ 423,048	\$ 466,216	\$ 963,448	\$ 1,577,726	\$ 1,643,488	\$ 1,717,041	\$ 1,497,123	\$ 955,027	\$ 535,650	\$ 442,340	\$ 405,639	\$ 375,499
ECR Surcharge	\$ 0,0597	\$ 0,0552	\$ 0,0399	\$ 0,0245	\$ 0,0245	\$ 0,0241	\$ 0,0236	\$ 0,0236	\$ 0,0236	\$ 0,0236	\$ 0,0236	\$ 0,0236
Revenue Billed	\$ 25,256	\$ 25,735	\$ 53,182	\$ 62,872	\$ 40,265	\$ 42,068	\$ 36,006	\$ 22,539	\$ 12,641	\$ 10,439	\$ 9,573	\$ 8,862
Expense	\$ 6,942	\$ 958	\$ 13	\$ 1,958	\$ 926	\$ 926	\$ 926	\$ 926	\$ 926	\$ 926	\$ 926	\$ 926
Labor	\$ 78	\$ 42	\$ (56)	\$ 59	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60
Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Labor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expense	\$ 31,849	\$ 5,820	\$ (3,225)	\$ 3,454	\$ 2,064	\$ 2,064	\$ 2,064	\$ 2,064	\$ 2,064	\$ 2,064	\$ 2,064	\$ 2,064
Labor	\$ (3)	\$ 389	\$ (751)	\$ 557	\$ 338	\$ 338	\$ 338	\$ 338	\$ 338	\$ 338	\$ 338	\$ 338
Expense	\$ (237,368)	\$ 9,789	\$ 2,925	\$ 10,232	\$ 80,380	\$ 80,380	\$ 80,380	\$ 80,380	\$ 80,380	\$ 80,380	\$ 80,380	\$ 80,380
Labor	\$ (2,500)	\$ 525	\$ (695)	\$ 751	\$ 1,673	\$ 1,673	\$ 1,673	\$ 1,673	\$ 1,673	\$ 1,673	\$ 1,673	\$ 1,673
Expense	\$ 256,197	\$ 1,746	\$ (1,267)	\$ 1,965	\$ (24,611)	\$ (24,611)	\$ (24,611)	\$ (24,611)	\$ (24,611)	\$ (24,611)	\$ (24,611)	\$ (24,611)
Labor	\$ 5,726	\$ 181	\$ (378)	\$ 259	\$ (486)	\$ (486)	\$ (486)	\$ (486)	\$ (486)	\$ (486)	\$ (486)	\$ (486)
Total	\$ 60,920	\$ 19,450	\$ (3,434)	\$ 19,236	\$ 60,345	\$ 60,345	\$ 60,345	\$ 60,345	\$ 60,345	\$ 60,345	\$ 60,345	\$ 60,345
Monthly Over/(Under)	\$ (35,664)	\$ 6,285	\$ 56,616	\$ 43,637	\$ (20,080)	\$ (18,278)	\$ (24,339)	\$ (37,907)	\$ (47,704)	\$ (49,906)	\$ (50,772)	\$ (51,483)
Cumulative Over/(Under)	\$ 320,674	\$ 326,674	\$ 383,576	\$ 427,212	\$ 407,133	\$ 388,855	\$ 364,515	\$ 326,709	\$ 279,005	\$ 229,099	\$ 178,327	\$ 126,843
INDUSTRIAL												
FY 2018 Over-Collection	\$ 49,225											
Volume Billed	\$ 30,519	\$ 37,952	\$ 67,847	\$ 113,159	\$ 126,166	\$ 136,677	\$ 114,849	\$ 69,980	\$ 41,543	\$ 35,970	\$ 33,256	\$ 30,785
ECR Surcharge	\$ (0,0225)	\$ (0,0150)	\$ (0,0150)	\$ (0,0231)	\$ (0,0312)	\$ (0,0312)	\$ (0,0202)	\$ (0,0091)	\$ (0,0091)	\$ (0,0091)	\$ (0,0091)	\$ (0,0091)
Revenue Billed	\$ (685)	\$ (569)	\$ (1,018)	\$ (2,614)	\$ (3,936)	\$ (4,264)	\$ (2,314)	\$ (637)	\$ (378)	\$ (327)	\$ (303)	\$ (280)
Expense	\$ (1,724)	\$ 31	\$ (32)	\$ 64	\$ 278	\$ 278	\$ 278	\$ 278	\$ 278	\$ 278	\$ 278	\$ 278
Labor	\$ (59)	\$ 1	\$ (3)	\$ 2	\$ 10	\$ 10	\$ 10	\$ 10	\$ 10	\$ 10	\$ 10	\$ 10
Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Labor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expense	\$ 2	\$ 202	\$ (204)	\$ 211	\$ 1,080	\$ 1,080	\$ 1,080	\$ 1,080	\$ 1,080	\$ 1,080	\$ 1,080	\$ 1,080
Labor	\$ 13	\$ 11	\$ (24)	\$ 16	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28
Total	\$ (1,769)	\$ 246	\$ (262)	\$ 293	\$ 1,396	\$ 1,396	\$ 1,396	\$ 1,396	\$ 1,396	\$ 1,396	\$ 1,396	\$ 1,396
Monthly Over/(Under)	\$ 1,063	\$ (815)	\$ (756)	\$ (2,907)	\$ (5,660)	\$ (3,710)	\$ (2,033)	\$ (1,774)	\$ (1,723)	\$ (1,723)	\$ (1,699)	\$ (1,676)
Cumulative Over/(Under)	\$ 50,309	\$ 49,494	\$ 48,738	\$ 45,831	\$ 40,499	\$ 34,838	\$ 31,128	\$ 29,095	\$ 27,321	\$ 25,598	\$ 23,899	\$ 22,223

**PHILADELPHIA GAS WORKS
LOAD BALANCING CHARGE RECONCILIATION
CALENDAR YEAR 2019**

		<u>2019</u>
Actual Storage and Peaking Cost		\$ 19,086,511
Prior Year Carryover		\$ 86,683
		<u>\$ 19,173,194</u>
Design Day Requirements	Annual Mcf	695,932
Fulfilled from FT Capacity	Annual Mcf	<u>297,287</u>
Fulfilled from Storage and Peaking Assets	Annual Mcf	398,645
Annual Load Balancing Cost per Excess Mcf	Annual \$ / Mcf	\$ 48.0959
BTU Conversion		1.034
	Annual \$ / Dth	<u>\$ 46.5144</u>
Monthly Charge /Dth		\$ 3.8762
Over/(Under) Recovery		\$ 216,498
Interest		<u>\$ 9,622</u>
Carryover		\$ 226,119

LOAD BALANCING CHARGE

2019 EXPENSE

	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
Transco	\$ 387,456	\$ 348,088	\$ 464,897	\$ 451,362	\$ 491,812	\$ 480,582	\$ 484,120	\$ 489,193	\$ 474,110	\$ 490,051	\$ 478,490	\$ 506,923	\$ 5,547,085
Tetco	\$ 669,373	\$ 669,197	\$ 662,379	\$ 614,496	\$ 602,614	\$ 1,092,185	\$ 1,076,001	\$ 1,066,494	\$ 1,060,050	\$ 1,054,899	\$ 1,072,904	\$ 1,086,556	\$ 10,707,147
Dominion	\$ 137,433	\$ 132,780	\$ 127,881	\$ 132,298	\$ 130,361	\$ 129,836	\$ 133,266	\$ 133,266	\$ 129,669	\$ 128,839	\$ 132,515	\$ 135,525	\$ 1,563,671
WSS	\$ 340,149	\$ 161,937	\$ 118,315	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 710	\$ 9,228	\$ 104,392	\$ 734,731
Purchased Electric	\$ 57,891	\$ 57,891	\$ 54,981	\$ -	\$ 94,471	\$ 37,764	\$ 34,463	\$ 31,386	\$ 31,570	\$ 31,019	\$ 35,425	\$ 47,016	\$ 513,877
Total	\$ 1,592,302	\$ 1,369,894	\$ 1,428,453	\$ 1,198,156	\$ 1,319,259	\$ 1,740,367	\$ 1,727,850	\$ 1,720,339	\$ 1,695,399	\$ 1,705,518	\$ 1,728,562	\$ 1,860,413	\$ 19,086,511

2019 INTEREST CALCULATION

MONTH	LOAD BALANCING VOLUME (1)	RATE (2)	LOAD BALANCING CHARGE (3)=(1)*(2)	CHARGES BILLED (4)	UNDER RECOVERY (5)=(4)-(3)	TIME FACTOR (6)	INTEREST RATE (7)	INTEREST EXPENSE (8)=(5)*(6)*(7)
	(DTH)	(\$)	(\$)	(\$)	(\$)		(%)	(\$)
Jan-19	43,250	3.8762	167,646	138,538	(29,107)	18/12	5.75%	(2,511)
Feb-19	44,931	3.8762	174,162	143,923	(30,239)	17/12	5.50%	(2,356)
Mar-19	44,581	3.8762	172,805	195,309	22,505	34/12	5.25%	3,348
Apr-19	45,407	3.8762	176,007	198,928	22,921	15/12	5.25%	1,504
May-19	46,314	3.8762	179,522	202,902	23,379	14/12	5.25%	1,432
Jun-19	45,246	3.8762	175,383	202,716	27,333	13/12	5.25%	1,555
Jul-19	45,714	3.8762	177,197	204,812	27,616	12/12	5.00%	1,381
Aug-19	47,029	3.8762	182,294	210,704	28,410	11/12	4.75%	1,237
Sep-19	48,185	3.8762	186,775	218,471	31,696	10/12	4.75%	1,255
Oct-19	49,893	3.8762	193,395	226,215	32,820	9/12	4.50%	1,108
Nov-19	47,367	3.8762	183,604	214,762	31,158	8/12	4.50%	935
Dec-19	48,119	3.8762	186,519	214,524	28,005	7/12	4.50%	735
Total	556,036		2,155,307	2,371,804	216,498			9,622

**PHILADELPHIA GAS WORKS
LOAD BALANCING CHARGE
SEPTEMBER 1, 2020**

Storage and Peaking Asset Cost	\$	21,917,819
Design Day Requirements (Mcf)		695,932
Fulfilled from FT Capacity (Mcf)		<u>297,287</u>
Fulfilled from Storage and Peaking Assets (Excess Mcf)		398,645
Annual Storage and Peaking Cost per Excess Mcf	\$	54.9808
Per Mcf Over / (Under) Adjustment	\$	<u>0.3803</u>
Load Balancing Charge	\$	54.6005

Over / (Under) Recovery	\$	216,498
Interest	\$	<u>9,622</u>
Total Over/(Under) Recovery	\$	226,119
Forecasted SSPC Volumes		594,559
Per Mcf Over / (Under) Adjustment	\$	0.3803

Philadelphia Gas Works
Calculation of UFG and Retainage Percentages
Twelve Months Ending August 31, 2019

	<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	78,349,521	78,349,521
Less gas delivered for Interruptible Customers sendout		27,613,009
From Interstate Pipelines directly into the Distribution System for Firm Customers Only		50,736,512
B. Gas Delivered		
To Customers	76,420,333	
To Customers - Delivered to Firm Customers Only		49,221,162
C. Adjustment		
Adjustment for PUC UFG Report and Retainage		
- Company use	261,766	261,766
- Unbilled Sales		(27,810)
Adjustment for PUC UFG Report Only		
- Maintenance and Construction	630.76	
- Gate station bleeds	7,743	
- Correction for 6" w.c.	595,764	
- Third party damage	-	-
Total Adjustments	865,904	233,956
D. Distribution UFG and Retainage Rate		
Total Distribution System Unaccounted for Gas	1,063,283	
Unaccounted For and Accounted For Volumes Applicable to Retainage % Calculation		1,281,396
E. Percent UFG and Retainage		
UFG Percentage	1.36%	
Retainage Percentage		2.5%

**Philadelphia Gas Works
Restructuring & Consumer Education Surcharge
FISCAL YEAR 2021**

FY 2018 Over/(Under) Recovery (\$147,623) Schedule 17(b)

<u>Month</u>		<u>R&CE Volumes</u>	<u>R&CE Surcharge</u>	<u>Revenue Billed</u>
September 2019	Actual	1,164,741	\$0.0060	\$6,988
October	Actual	1,232,940	\$0.0043	\$5,302
November	Actual	3,049,396	\$0.0043	\$13,112
December	Actual	6,352,946	\$0.0043	\$27,318
January 2020	Estimated	11,234,414	\$0.0043	\$48,308
February	Estimated	7,773,775	\$0.0043	\$33,427
March	Estimated	6,769,418	\$0.0043	\$29,108
April	Estimated	5,974,099	\$0.0043	\$25,689
May	Estimated	2,459,499	\$0.0043	\$10,576
June	Estimated	1,296,164	\$0.0043	\$5,574
July	Estimated	1,090,327	\$0.0043	\$4,688
<u>August</u>	Estimated	<u>1,020,232</u>	\$0.0043	<u>\$4,387</u>
Total		49,417,951		\$214,477

FY 2020 Act/Est R&CE & FY 2019 Reconciliation	\$66,854	
FY 2020 Permitted Recovery	<u>\$57,024</u>	Schedule 17(c)
Over/(Under) Recovery	\$9,830	

Philadelphia Gas Works
Restructuring & Consumer Education Surcharge
FISCAL YEAR 2020

FY 2017 Over/(Under) Recovery (\$500,193)

<u>Month</u>		<u>R&CE Volumes</u>	<u>R&CE Surcharge</u>	<u>Revenue Billed</u>
September 2017	Actual	1,164,741	\$0.0044	\$5,067
October	Actual	1,232,940	\$0.0077	\$9,494
November	Actual	3,049,396	\$0.0077	\$23,480
December	Actual	6,352,946	\$0.0077	\$48,918
January 2018	Actual	11,234,414	\$0.0077	\$86,505
February	Actual	7,773,775	\$0.0077	\$59,858
March	Actual	6,769,418	\$0.0077	\$52,125
April	Actual	5,974,099	\$0.0077	\$46,001
May	Actual	2,459,499	\$0.0077	\$18,938
June	Actual	1,296,164	\$0.0077	\$9,980
July	Actual	1,090,327	\$0.0077	\$8,396
<u>August</u>	Actual	<u>1,020,232</u>	<u>\$0.0077</u>	<u>\$7,856</u>
Total		49,417,951		\$376,616

FY 2018 Act/Est R&CE Recovery (\$123,577)

FY 2018 Actual Expenses \$24,046
Over/(Under) Recovery (\$147,623)

Philadelphia Gas Works
Restructuring & Consumer Education Surcharge Expense

Item 53.64 (a)
Schedule 17(c)

Fiscal Year	FY 2018												FY20 Est			
	Month	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18		Aug-18	FY18 Total	FY18 Total
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Est
Capital																
POR Build (90%)	\$ -	\$ -	\$ 6,043	\$ 9,914	\$ 5,728	\$ 2,361	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,046	\$ 57,024
Access. Mech. (100%)																
Operating																
Mailers (50%)																
Access Mech. (100%)																
Totals	\$ -	\$ -	\$ 6,043	\$ 9,914	\$ 5,728	\$ 2,361	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,046	\$ 57,024

Tab 3

Philadelphia Gas Works

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

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

Response:

The attached schedules described herein below, contain details of the requested information. Information concerning PGW's Transportation and Storage contracts are addressed in section 53.64(c)(3) in February 1, 2020 Prefiling.

Schedule 1 – Twelve (12) month actual purchased gas costs expressed in terms of volumes and dollars for the period January 1, 2019 to December 31, 2019. 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, 2019 through December 31, 2019. This schedule reflects finalized numbers through the month of December.

Schedule 3 - Twenty (20) month forecast for the period January 1, 2020 through August 31, 2021.

Schedule 4 – Twenty (20) month forecast of capacity release credits by pipeline by month for the period January 1, 2020 through August 31, 2021.

Philadelphia Gas Works

Summary Of Total Purchased

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	Jan-19	Feb-19	Mar-19	Apr-19	May-19	June-19	July-19	Aug-19	Sep-19	Oct-19	Nov-19	ACTUAL Dec-19
Williams	\$ 2,286,342	\$ 2,041,748	\$ 3,178,654	\$ 3,424,033	\$ 3,521,916	\$ 3,420,540	\$ 3,516,764	\$ 3,518,800	\$ 3,396,740	\$ 3,553,741	\$ 3,043,870	\$ 3,232,267
Texas Eastern	\$ 1,551,813	\$ 1,717,501	\$ 1,564,314	\$ 2,465,337	\$ 2,209,270	\$ 3,505,503	\$ 3,446,477	\$ 3,526,938	\$ 3,437,325	\$ 3,488,263	\$ 3,317,665	\$ 3,135,998
Dominion	\$ 137,433	\$ 132,780	\$ 127,881	\$ 132,298	\$ 130,361	\$ 129,836	\$ 133,266	\$ 133,266	\$ 129,669	\$ 128,839	\$ 132,515	\$ 135,525
Spot Purchases -Transco	\$ 45,949	\$ 53,500	\$ 83,403	\$ 68,476	\$ 36,209	\$ 26,600	\$ 25,689	\$ 33,931	\$ 25,092	\$ 6,660	\$ 12,686	\$ 56,282
Spot Purchases -Transco												
Spot Purchases -Tetco												
Transco Supply2	\$ 1,066,400	\$ 798,000	\$ 883,500	\$ 373,500	\$ 339,450	\$ 340,500	\$ 316,200	\$ 295,275	\$ 285,750	\$ 295,275	\$ 770,250	\$ 864,900
Transco Supply6	\$ 2,249,825	\$ 788,200	\$ 793,600	\$ 798,000	\$ 776,550	\$ 751,500	\$ 776,550	\$ 674,250	\$ 652,500	\$ 674,250	\$ 2,836,501	\$ 2,623,536
Transco Supply7	\$ 1,127,625	\$ 816,900	\$ 876,525	\$ 377,250	\$ 342,550	\$ 343,500	\$ 319,300	\$ 299,150	\$ 289,500	\$ 299,150	\$ 667,500	\$ 863,350
Transco Supply14	\$ 1,109,800	\$ 835,800	\$ 826,150	\$ 805,630	\$ 304,626	\$ 382,030	\$ 476,309	\$ 863,566	\$ 382,490	\$ 865,031	\$ 1,637,828	\$ 1,442,337
Transco Supply29	\$ 525,450	\$ 409,850	\$ 439,038	\$ 373,875	\$ 339,838	\$ 340,875	\$ 316,588	\$ 294,500	\$ 285,000	\$ 294,500	\$ 1,637,828	\$ 1,442,337
Transco Supply30	\$ 3,247,076	\$ 2,259,438	\$ 2,464,376	\$ 373,875	\$ 339,838	\$ 340,875	\$ 316,588	\$ 294,500	\$ 285,000	\$ 294,500	\$ 1,637,828	\$ 1,442,337
Transco Supply32	\$ 468,671	\$ 357,679	\$ 389,346	\$ 183,315	\$ 946	\$ 240,940	\$ 35,071	\$ 946	\$ 915	\$ 79,121	\$ 1,637,828	\$ 1,442,337
Transco Supply34	\$ 1,831,363	\$ 1,327,350	\$ 1,374,863	\$ 532,513	\$ 238,713	\$ 240,288	\$ 210,675	\$ 396,076	\$ 407,178	\$ 461,128	\$ 1,521,450	\$ 1,485,520
Transco Supply36				\$ 712,800	\$ 483,559	\$ 485,327	\$ 427,480				\$ 1,521,450	\$ 1,485,520
Transco Supply37												\$ 113,985
Transco Supply38												\$ 790,500
Transco Supply39												\$ 568,800
Tetco Supply1	\$ 1,047,686	\$ 949,250	\$ 967,461	\$ 272,970	\$ 129,779	\$ 34,950	\$ 4,650	\$ 4,650	\$ 4,500	\$ 71,276	\$ 636,750	\$ 568,800
Tetco Supply3	\$ 634,882	\$ 852,600	\$ 97,190									
Tetco Supply5	\$ 1,015,955	\$ 748,300	\$ 803,675	\$ 358,875	\$ 325,888	\$ 321,375	\$ 293,338	\$ 276,288	\$ 232,875	\$ 204,988	\$ 721,664	\$ 723,075
Tetco Supply16	\$ 2,003,686	\$ 1,653,750	\$ 1,770,150	\$ 1,776,750	\$ 1,291,950	\$ 1,323,060	\$ 1,075,320	\$ 902,244	\$ 749,400	\$ 881,885	\$ 312,675	\$ 366,343
Tetco Supply24	\$ 511,512	\$ 376,950	\$ 404,734									
Tetco Supply25	\$ 1,527,478	\$ 1,123,500	\$ 1,206,675	\$ 358,875	\$ 325,888	\$ 321,375	\$ 293,338	\$ 276,288	\$ 232,875	\$ 204,988	\$ 2,212,650	\$ 2,111,208
Tetco Supply26	\$ 2,026,962	\$ 1,496,600	\$ 1,607,350	\$ 717,000	\$ 651,000	\$ 642,000	\$ 585,900	\$ 551,800	\$ 465,000	\$ 409,200	\$ 312,675	\$ 346,968
Tetco Supply28												\$ 651,919
Tetco Supply33												\$ 291,118
Tetco Supply34												\$ 316,200
Tetco Supply35												\$ 65,175
Tetco Supply36												
TOTAL COSTS	\$ 24,415,908	\$ 18,739,696	\$ 19,858,884	\$ 13,731,497	\$ 11,448,492	\$ 12,850,199	\$ 12,252,913	\$ 12,047,967	\$ 10,976,809	\$ 12,852,434	\$ 18,136,680	\$ 20,575,607
Storage Injection	\$ 1,976.85	\$ 6,544.64	\$ 13,663.35	\$ 36,391	\$ 37,483	\$ 72,164	\$ 83,234	\$ 70,310	\$ 58,251	\$ 53,500	\$ 42,435	\$ 17,790
Storage Withdrawal	\$ 140,221	\$ 115,954	\$ 82,488	\$ 16,188	\$ 739	\$ 230	\$ 12	\$ -	\$ 96	\$ 9,528	\$ 36,750	\$ 70,456

Philadelphia Gas Works
Volumes Purchased
Williams Pipeline Company

	Jan-19	Feb-19	Mar-19	Apr-19	May-19	June-19	July-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	ACTUAL
Volumes-DTH													
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	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	160,921
Handling fr Stg.	103,309	52,106	24,423	5,702	48,856	44,000	42,929	43,400	39,932	24,909	25,158	78,292	78,292
Handling to Stg.				17,791									
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	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	127,835,723
Handling fr Stg.	908,067	731,527	363,798	123,136	17,077	5,314	283		2,210	188,117	197,803	504,304	504,304
Storage Injection	28,484	43,765	92,608	325,996	389,500	400,726	203,833	385,328	329,611	266,922	244,028	156,357	156,357
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	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	103,413,179
Handling fr Stg.	340,149	161,937	118,315							710	9,228	104,392	104,392
Handling to Stg.	835	666	7,949	12,866	16,278	15,567	80,694		29,203	223,887	21,862	11,109	11,109
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	5,121,572
FT Commodity/3691	4,001,821	3,075,458	3,186,545	1,896,745	1,479,054	1,524,315	1,379,309	1,669,003	1,364,593	2,041,720	3,550,099	3,802,341	3,802,341
PSFT Demand/5001	84,754	76,552											84,754
Eminence Cust. Dem.													
Eminence Cust. Cap.													
Eminence Storage Dem.													
Eminence Storage Cap.													
Handling fr Stg.													
Handling to Stg.													
Capacity Rel. Dem. Credit #3691	(620,000)	(560,000)	(620,000)	(600,000)	(930,000)	(1,200,000)	(1,240,000)	(1,550,000)	(1,500,000)	(1,550,000)	(450,000)	(465,000)	(465,000)
Capacity Rel. Dem. Credit #5001*	(472,595)	(438,508)	(482,794)	(483,900)	(512,492)	(484,650)	(501,921)	(504,401)	(488,340)	(477,772)	(503,280)	(548,924)	(548,924)
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-19	Feb-19	Mar-19	Apr-19	May-19	June-19	July-19	Aug-19	Sep-19	Oct-19	Nov-19	ACTUAL Dec-19
S-2 Capacity	0.00381	0.00381	0.00381	0.00381	0.01481	0.01481	0.01481	0.01481	0.01481	0.01481	0.01481	0.01481
Storage Demand	0.13973	0.14205	0.14095	0.14095	0.24244	0.24244	0.24244	0.24604	0.24421	0.24421	0.24438	0.24438
Handling fr Stg.	0.05180	0.05530	0.05530	0.05530	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06400	0.06820
Handling to Stg.	0.00000	0.00000	0.00000	0.03326	0.03326	0.04606	0.04606	0.04606	0.04606	0.04606	0.04606	0.00000
GSS Demand	0.10068	0.10068	0.12969	0.12995	0.12995	0.12995	0.12995	0.12995	0.12995	0.12995	0.13000	0.13000
Stg. Cap.Vol. Chg.	0.00053	0.00053	0.00077	0.00077	0.00077	0.00077	0.00077	0.00077	0.00077	0.00077	0.00077	0.00077
Handling fr Stg.	0.04292	0.04292	0.04059	0.04328	0.04328	0.04328	0.04328	0.00000	0.04328	0.04328	0.04244	0.04244
Storage Injection	0.05061	0.05061	0.04655	0.04924	0.04924	0.04924	0.04924	0.04924	0.04924	0.04924	0.04797	0.04797
WSS Demand	0.02557	0.02557	0.03299	0.03299	0.03299	0.03299	0.03299	0.03299	0.03299	0.03299	0.03299	0.03299
Stg. Cap Vol Chg.	0.00027	0.00027	0.00035	0.00035	0.00035	0.00035	0.00035	0.00035	0.00035	0.00035	0.00035	0.00035
Handling fr Stg.	0.01456	0.01456	0.03113	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03113	0.03113
Handling to Stg.	0.01456	0.01456	0.03113	0.03113	0.03113	0.03113	0.03113	0.00000	0.03113	0.03113	0.03113	0.03113
FT Demand/3691	0.47401	0.47401	0.64722	0.65082	0.65082	0.65082	0.65082	0.65082	0.65082	0.65082	0.65082	0.65323
FT Commodity/3691	0.02810	0.02778	0.02805	0.02830	0.02481	0.02753	0.02864	0.02654	0.02407	0.02672	0.03773	0.03793
PSFT Demand/5001	0.70925	0.70925	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.91631
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	0.78125	0.78125	0.78125	0.02443	0.03378	0.03034	0.03034	0.02847	0.02847	0.02847	1.04420	1.04420
Capacity Rel. Dem Credit #5001*	0.45914	0.45914	0.45914	0.63294	0.63294	0.63294	0.63294	0.63294	0.63294	0.63294	0.67558	0.65012
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 02/20/16												
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

	Jan-19	Feb-19	Mar-19	Apr-19	May-19	June-19	July-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	ACTUAL
Amount - \$	4,148	4,592	4,444	4,592	17,274	17,849	17,849	17,274	17,849	17,274	17,849	17,849	17,849
S-2 Capacity	20,310	22,860	21,950	22,682	37,755	39,014	39,014	38,316	39,299	38,031	39,326	39,326	39,326
Storage Demand	5,352	2,881	1,351	315							1,610		5,339
Handling fr Stg.													
Handling to Stg.													
GSS Demand	192,155	173,560	247,523	240,019	1,625	2,027	1,977	1,989	1,839	1,147	461		
Stg. Cap. Vol. Chg.	67,753	61,196	98,433	95,258	98,433	240,019	248,020	248,020	240,019	248,020	240,111		248,115
Handling fr Stg.	39,017	31,397	14,361	5,329	739	95,258	98,433	98,433	95,258	98,433	95,258		98,433
Storage Injection	1,442	2,216	4,311	16,052	19,179	19,732	10,037	18,974	16,240	13,143	11,706		21,403
WSS Demand	27,835	25,141	35,912	34,753	35,912	34,753	35,912	35,912	34,753	35,912	34,753		7,500
Stg. Cap Vol Chg.	27,922	25,220	36,195	35,027	36,195	35,027	36,195	36,195	35,027	36,195	35,027		35,912
Handling fr Stg.	4,953	2,358	3,683										36,194
Handling to Stg.	12	10	247	401	507	485	2,512		909	22	287		3,250
FT Demand/3691	2,427,693	2,192,746	3,330,160	3,240,669	3,348,691	3,240,669	3,348,691	3,348,691	3,240,669	3,348,691	3,240,669		3,345,542
PSFT Demand/5001	112,440	85,445	89,394	52,538	36,701	41,966	36,745	44,301	32,847	54,558	133,928		144,217
PSFT Commodity	60,112	54,295											77,661
Eminence Cust. Dem.													
Eminence Cust. Cap.													
Eminence Storage Dem.													
Eminence Storage Cap.													
Handling fr Stg.													
Handling to Stg.													
Capacity Rel. Dem. Credit #3691	(484,375)	(437,500)	(484,375)	(14,655)	(31,419)	(36,405)	(37,619)	(44,129)	(42,705)	(44,129)	(469,890)		(485,553)
Capacity Rel. Dem. Credit #5001*	(216,987)	(201,336)	(221,670)	(306,281)	(324,377)	(306,755)	(317,686)	(319,257)	(309,090)	(302,400)	(340,007)		(356,869)
S2 Credit	(3,428)	(3,332)	(3,265)	(3,256)	(3,319)	(3,327)	(3,328)	(5,928)	(6,270)	(6,268)	(6,293)		(6,399)
Eminence #2 Demand													
Eminence #2 Capacity													
Handling to Stg.													
Handling fr Stg.													
Eminence #2 a/d.													
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	2,286,342	2,041,748	3,178,654	3,424,033	3,521,916	3,420,540	3,516,764	3,518,800	3,396,740	3,553,741	3,043,870		3,232,267

* 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

	Jan-19	Feb-19	Mar-19	Apr-19	May-19	June-19	July-19	Aug-19	Sep-19	Oct-19	Nov-19	Actual Dec-19
Volumes - Dth	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 Market 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 Access Area Demand	1,463,128	1,499,877	1,253,503	1,291,920	1,108,476	1,074,642	1,005,826	952,475	914,376	1,094,106	1,477,537	1,631,190
CDS ACA Charge	1,463,128	1,499,877	1,253,503	1,291,920	1,108,476	1,074,642	1,005,826	952,475	914,376	1,094,106	1,477,537	1,631,190
CDS PCB True-up Settlement												
FT-1 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
FT-1 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
FT-1 Commodity												
FT-1 ACA Charge												
FT-1 PCB True-up Settlement												
SS-1 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	667,209	495,945	395,426	91,201	-	-	-	-	-	-	76,440	189,638
Excess Withdrawal	121	2,006	-	-	-	-	-	-	-	-	-	-
Storage Injection	1,288	16,868	27,212	57,704	23,300	306,702	421,786	365,935	258,429	103,897	95,226	43,925
Excess Injection			35,586	7,803	11,196	-	-	-	1,725	-	31,274	8,379
Storage Surcharge Credit												
PCB True-up Settlement 400121												
SS-1 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	549,723	516,566	488,379	73,275	-	-	-	-	-	19,543	152,073	157,568
Excess Withdrawal												
Storage Injection	13,531	12,656	39,925	117,934	101,884	232,744	392,336	392,336	265,882	148,854	156,035	64,015
Excess Injection		20,467	-	-	-	18,218	32,650	-	7,620	22,788	-	-
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	554,606	504,000	568,000	-	-	-	-	-	540,000	540,000	540,000	568,000
FT-1 ACA Charge	554,606	504,000	568,000	-	-	-	-	-	540,000	540,000	540,000	568,000
FTS-3 Cap.Rel. dem. credit 800514				(540,000)	(568,000)	(540,000)	(568,000)	(568,000)	(540,000)	(568,000)	(568,000)	-
FTS-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	554,605	504,000	557,953	-	-	-	-	-	-	-	256,410	558,000
FT-1 ACA Charge	554,605	504,000	557,953	-	-	-	-	-	-	-	256,410	558,000
FTS-3 Cap.Rel. dem. credit 800515				(540,000)	(568,000)	(540,000)	(568,000)	(568,000)	(540,000)	(568,000)	(568,000)	-
FTS-3 Cap.Rel. dem. credit 800515												
PCB True-up Settlement 800515												
CDS 800232 M1-M1 Cap. Rel.	(472,378)	(438,228)	(482,577)	(483,570)	(512,120)	(484,290)	(501,611)	(504,091)	(487,860)	(477,462)	(502,920)	(528,030)
FT-1-800233 M3-M3 Cap. Rel.	(738,482)	(667,016)	(738,482)	(714,660)	(738,482)	(714,660)	(738,482)	(738,482)	(714,660)	(738,482)	(1,032,480)	(1,066,896)
FTS-2,7,8 ACA	959,722	725,764	459,867	150,000	155,000	147,480	152,396	152,396	147,480	152,396	514,969	845,380
FTS-2,7,8 Commodity						147,480	152,396	152,396	147,480	152,396	514,969	845,380
CSHOUT UNDER 5% DS												

* 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
Texas Eastern

	Jan-19	Feb-19	Mar-19	Apr-19	May-19	June-19	July-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	ACTUAL
Volumes - Dth	10.6500	10.7930	10.7930	10.7930	10.7930	15.2920	15.2920	15.5110	15.5110	15.5110	15.5110	15.5110	15.5460
CDS Market Area Demand	3.3851	3.3851	3.3851	3.3851	3.3851	4.6536	4.6536	4.6538	4.6538	4.6538	4.6538	4.6538	4.6538
CDS Access Area Demand	0.0675	0.0796	0.0748	0.0741	0.0741	0.0590	0.0590	0.0654	0.0654	0.0654	0.0691	0.0755	0.0755
CDS Commodity	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
CDS 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	0.0000
CDS PCB True-up Settlement	10.4270	10.5700	10.5700	10.5700	10.5700	15.0690	15.0690	15.2880	15.2880	15.2880	15.2880	15.3230	15.3230
FT1 Market Area Demand	3.5482	3.5482	3.5482	3.5482	3.5482	4.9310	4.9310	4.9313	4.9313	4.9313	4.9313	4.9313	4.9313
FT1 Access Area Demand	0.0000	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 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	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	0.0000
FT1 PCB True-up Settlement	5.4330	5.4700	5.4700	5.4700	5.4700	7.9920	7.9920	8.0460	8.0460	8.0460	8.0460	8.0500	8.0500
SS1 Demand 400121	0.1293	0.1293	0.1293	0.1293	0.1293	0.4639	0.4639	0.4639	0.4639	0.4639	0.4639	0.4639	0.4639
Space Charge	0.0606	0.0641	0.0641	0.0641	0.0641	0.0000	0.0000	0.0000	0.0000	0.0000	0.0698	0.0740	0.0740
Handling fr Storage	1.0055	1.0154	1.0154	1.0154	1.0154	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Excess Withdrawal	0.0353	0.0353	0.0353	0.0353	0.0353	0.0481	0.0481	0.0481	0.0481	0.0481	0.0481	0.0481	0.0481
Storage Injection	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Excess Injection	0.0000	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 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	0.0000
PCB True-up Settlement 400121	5.4330	5.4700	5.4700	5.4700	5.4700	7.9920	7.9920	8.0460	8.0460	8.0460	8.0460	8.0500	8.0500
SS1 Demand 400209	0.1293	0.1293	0.1293	0.1293	0.1293	0.4639	0.4639	0.4639	0.4639	0.4639	0.4639	0.4639	0.4639
Space Charge	0.0606	0.0641	0.0641	0.0641	0.0641	0.0000	0.0000	0.0000	0.0000	0.0000	0.0698	0.0740	0.0740
Handling fr Storage	0.0000	0.0641	0.0641	0.0641	0.0641	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Excess Withdrawal	0.0353	0.0353	0.0353	0.0353	0.0353	0.0481	0.0481	0.0481	0.0481	0.0481	0.0481	0.0481	0.0481
Storage Injection	0.0000	0.1601	0.1601	0.1601	0.1601	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000
PCB True-up Settlement 400209	7.9600	7.9600	7.9600	7.9600	7.9600	13.1090	13.1090	13.3180	13.3180	13.3180	13.3180	13.3530	13.3530
FTS-2 Demand	6.8640	6.8640	6.8640	6.8640	6.8640	10.8846	10.8846	11.0721	11.0721	11.0721	11.0721	11.1038	11.1038
FTS-8 Demand	0.0000	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 PCB True-up Settlement	10.4270	10.5700	10.5700	10.5700	10.5700	15.0690	15.0690	15.2880	15.2880	15.2880	15.2880	15.3230	15.3230
FT-1 Market Demand 800514	2.2387	2.2387	2.2387	2.2387	2.2387	3.2338	3.2338	3.2338	3.2338	3.2338	3.2338	3.2338	3.2338
FT-1 Access Area Demand 800514	0.0637	0.0741	0.0741	0.0741	0.0741	0.0000	0.0000	0.0000	0.0000	0.0000	0.0654	0.0714	0.0714
FT Commodity	0.0013	0.0013	0.0013	0.0013	0.0013	0.0000	0.0000	0.0000	0.0000	0.0000	0.0013	0.0013	0.0013
FT-1 ACA Charge	0.0000	0.0000	0.0000	0.0000	0.0000	0.2309	0.1944	0.1937	0.2848	0.0475	0.0000	0.0000	0.0000
FT-3 Cap.Rel. demand credit 80051	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1924	0.0000	0.0000	0.0000
FT-3 Cap.Rel. demand credit 80051	0.0000	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	0.4286	0.4332	0.4332	0.4332	0.4332	0.6081	0.6081	0.6152	0.6152	0.6152	0.7085	0.7102	0.7102
FT1-800233 M1-M1 Cap. Rel.*	1.5300	1.5300	1.5300	1.5300	1.5300	0.0482	0.0482	0.0482	0.0482	0.0482	0.0482	0.0482	0.0482
FT1-800233 M3-M3 Cap. Rel.	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
FTS-2,7,8 ACA	0.0000	0.0000	0.0000	0.0000	0.0000	0.0590	0.0590	0.0654	0.0654	0.0654	0.0654	0.0654	0.0654
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	0.0000
CSHOUT UNDER 5%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

* 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
Texas Eastern

Amount - \$	Jan-19	Feb-19	Mar-19	Apr-19	May-19	June-19	July-19	Aug-19	Sep-19	Oct-19	Nov-19	ACTUAL Dec-19
CDS Market Area Demand	\$ 796,750	\$ 809,475	\$ 809,475	\$ 809,475	\$ 809,475	\$ 1,146,900	\$ 1,146,900	\$ 1,163,325	\$ 1,163,325	\$ 1,163,325	\$ 1,163,325	\$ 1,165,950
CDS Access Area Demand	\$ 330,293	\$ 330,293	\$ 330,293	\$ 330,293	\$ 330,293	\$ 454,064	\$ 454,064	\$ 454,064	\$ 454,064	\$ 454,064	\$ 454,064	\$ 454,084
CDS Commodity	\$ 98,721	\$ 119,410	\$ 93,756	\$ 95,731	\$ 82,138	\$ 63,404	\$ 59,344	\$ 62,292	\$ 59,800	\$ 71,555	\$ 102,038	\$ 123,119
CDS ACA Charge	\$ 1,902	\$ 1,950	\$ 1,630	\$ 1,679	\$ 1,441	\$ 1,357	\$ 1,308	\$ 1,238	\$ 1,189	\$ 1,422	\$ 1,921	\$ 2,121
CDS PCB True-up Settlement	\$ 248,392	\$ 251,799	\$ 251,799	\$ 251,799	\$ 251,799	\$ 358,974	\$ 358,974	\$ 364,191	\$ 364,191	\$ 364,191	\$ 364,191	\$ 365,025
FT1 Market Area Demand	\$ 194,717	\$ 194,717	\$ 194,717	\$ 194,717	\$ 194,717	\$ 270,603	\$ 270,603	\$ 270,620	\$ 270,620	\$ 270,620	\$ 270,620	\$ 270,620
FT1 Access Area Demand												
FT1 Commodity												
FT1 ACA Charge												
FT1 PCB True-up Settlement												
SS1 Demand 400121												
Space Charge	\$ 239,693	\$ 241,325	\$ 241,325	\$ 241,325	\$ 241,325	\$ 352,591	\$ 352,591	\$ 354,973	\$ 354,973	\$ 354,973	\$ 354,973	\$ 355,150
Handling fr Storage	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 28,522	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332
Excess Withdrawal	\$ 40,433	\$ 31,790	\$ 25,347	\$ 5,846	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,033
Storage Injection	\$ 122	\$ 2,037	\$ 961	\$ 2,037	\$ 822	\$ 14,752	\$ 20,288	\$ 17,601	\$ 12,430	\$ 4,997	\$ 4,580	\$ 2,167
Excess Injection	\$ 45	\$ 595	\$ -	\$ -	\$ 1,792	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Storage Surcharge Credit	\$ -	\$ -	\$ 5,697	\$ 1,249	\$ 1,792	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PCB True-up Settlement 400121	\$ (28,370)	\$ (27,800)	\$ (27,743)	\$ (28,259)	\$ (28,327)	\$ (28,340)	\$ (53,335)	\$ (53,390)	\$ (53,366)	\$ (53,586)	\$ (54,485)	\$ (54,125)
SS1 Demand 400209	\$ 113,262	\$ 114,033	\$ 114,033	\$ 114,033	\$ 114,033	\$ 166,609	\$ 166,609	\$ 167,735	\$ 167,735	\$ 167,735	\$ 167,735	\$ 167,818
Space Charge	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 26,529	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,181	\$ 95,181	\$ 95,181	\$ 95,181
Handling fr Storage	\$ 33,313	\$ 33,112	\$ 31,305	\$ 4,697	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,364	\$ -	\$ 11,660
Excess Withdrawal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Storage Injection	\$ 478	\$ 447	\$ 1,409	\$ 3,277	\$ 3,597	\$ 11,195	\$ 18,871	\$ 18,871	\$ 12,789	\$ 7,160	\$ 7,505	\$ 3,188
Excess Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Storage Surcharge Credit	\$ (13,361)	\$ (13,112)	\$ (13,085)	\$ (13,328)	\$ (13,361)	\$ (13,367)	\$ (25,156)	\$ (25,182)	\$ (25,171)	\$ (25,274)	\$ (25,698)	\$ (25,528)
PCB True-up Settlement 400209												
FTS-2 Demand	\$ 42,936	\$ 42,936	\$ 42,936	\$ 42,936	\$ 42,936	\$ 70,710	\$ 70,710	\$ 71,837	\$ 71,837	\$ 71,837	\$ 71,837	\$ 72,026
FTS-7 Demand	\$ 51,214	\$ 51,214	\$ 51,214	\$ 51,214	\$ 51,214	\$ 102,093	\$ 102,093	\$ 103,721	\$ 103,721	\$ 103,721	\$ 103,721	\$ 103,993
FTS-8 Demand	\$ 176,467	\$ 176,467	\$ 176,467	\$ 176,467	\$ 176,467	\$ 279,832	\$ 279,832	\$ 284,654	\$ 284,654	\$ 284,654	\$ 284,654	\$ 285,468
FTS-2 PCB True-up Settlement												
FT-1 Market Demand 800514	\$ 187,686	\$ 190,260	\$ 190,260	\$ 190,260	\$ 190,260	\$ 271,242	\$ 271,242	\$ 275,184	\$ 275,184	\$ 275,184	\$ 275,184	\$ 275,814
FT-1 Access Area Demand 800514	\$ 25,687	\$ 25,687	\$ 25,687	\$ 25,687	\$ 25,687	\$ 37,104	\$ 37,104	\$ 37,104	\$ 37,104	\$ 37,104	\$ 37,104	\$ 37,104
FT Commodity	\$ 35,328	\$ 37,346	\$ 41,348	\$ 41,348	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,841
FT-1 ACA Charge	\$ 721	\$ 655	\$ 725	\$ 725	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 702	\$ 725
FT3-3 Cap.Rel. dem. credit 800514	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (124,696)	\$ (108,475)	\$ (108,085)	\$ (153,792)	\$ (26,505)	\$ -	\$ -
FT3-3 Cap.Rel. dem. credit 800514	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PCB True-up Settlement 800514	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FT-1 Access Area Demand 800515	\$ 187,686	\$ 190,260	\$ 190,260	\$ 190,260	\$ 190,260	\$ 271,242	\$ 271,242	\$ 275,184	\$ 275,184	\$ 275,184	\$ 275,184	\$ 275,814
FT Commodity	\$ 25,687	\$ 25,687	\$ 25,687	\$ 25,687	\$ 25,687	\$ 37,104	\$ 37,104	\$ 37,104	\$ 37,104	\$ 37,104	\$ 37,104	\$ 37,104
FT-1 ACA Charge	\$ 35,328	\$ 37,346	\$ 41,348	\$ 41,348	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,841
FT1-3 Cap.Rel. dem. credit 800515	\$ 721	\$ 655	\$ 725	\$ 725	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 725
FT1-3 Cap.Rel. dem. credit 800515	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PCB True-up Settlement 800515	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CDS 800232 M1-M1 Cap. Rel. *	\$ (202,451)	\$ (189,840)	\$ (209,052)	\$ (209,483)	\$ (221,850)	\$ (294,497)	\$ (305,030)	\$ (310,117)	\$ (300,150)	\$ (293,735)	\$ (356,324)	\$ (374,988)
FT1-800233 M3 - M3 Cap. Rel.	\$ (1,129,856)	\$ (1,020,515)	\$ (1,129,856)	\$ (94,454)	\$ (35,602)	\$ (34,454)	\$ (35,602)	\$ (35,602)	\$ (34,454)	\$ (35,602)	\$ (745,236)	\$ (770,077)
FTS-2,7,8 ACA	\$ 1,248	\$ 944	\$ 598	\$ 195	\$ 202	\$ 192	\$ 198	\$ 198	\$ 192	\$ 198	\$ 669	\$ 1,099
FTS-2,7,8 Commodity												
CSHOUT UNDER 5% DS												
PRIOR ADJUSTMENTS												
O.F.O CREDITS				\$ (24,523)								
TOTAL	\$ 1,551,813	\$ 1,717,501	\$ 1,564,314	\$ 2,465,337	\$ 2,209,270	\$ 3,505,503	\$ 3,446,477	\$ 3,526,938	\$ 3,437,325	\$ 3,488,263	\$ 3,317,665	\$ 3,135,998

* 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, Rates, and Total Amounts
Dominion

	Jan-19	Feb-19	Mar-19	Apr-19	May-19	June-19	July-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	ACTUAL
Volumes	34,047	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 Demand	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	3,918,971
GSS Storage Capacity	-	-	36,158	414,539	347,052	510,936	448,260	448,260	322,940	294,020	56,750	9,990	9,990
GSS Storage Injection	-	-	309,702	-	-	-	-	-	-	-	522,777	734,890	734,890
GSS Handling from Storage	818,836	595,138	309,702	-	-	-	-	-	-	-	522,777	734,890	734,890
GSS-TE Surcharge	818,836	595,138	309,702	-	-	-	-	-	-	-	-	-	-
GSS-TE Excess Injection	-	-	-	-	-	-	-	-	-	-	-	-	-
Unauthorized Overrun Charges	-	-	-	-	-	-	-	-	-	-	-	-	-
Rates - \$													
GSS Storage Demand	\$ 1,8673	\$ 1,8673	\$ 1,8673	\$ 1,8673	\$ 1,8673	\$ 1,8673	\$ 1,8673	\$ 1,8673	\$ 1,8673	\$ 1,8673	\$ 1,8698	\$ 1,8698	\$ 1,8698
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	\$ 0.0145
GSS Storage Injection	\$ 0.0287	\$ 0.0287	\$ 0.0287	\$ 0.0287	\$ 0.0287	\$ 0.0287	\$ 0.0287	\$ 0.0287	\$ 0.0287	\$ 0.0287	\$ 0.0287	\$ 0.0287	\$ 0.0287
GSS Handling from Storage	\$ 0.0164	\$ 0.0164	\$ 0.0164	\$ 0.0164	\$ 0.0164	\$ 0.0164	\$ 0.0164	\$ 0.0164	\$ 0.0164	\$ 0.0164	\$ 0.0153	\$ 0.0153	\$ 0.0153
GSS-TE Surcharge	\$ 0.0044	\$ 0.0044	\$ 0.0044	\$ 0.0044	\$ 0.0044	\$ 0.0044	\$ 0.0044	\$ 0.0044	\$ 0.0044	\$ 0.0044	\$ 0.0048	\$ 0.0048	\$ 0.0048
GSS-TE Excess Injection	\$ 0.2378	\$ 0.2378	\$ 0.2378	\$ 0.2378	\$ 0.2378	\$ 0.2378	\$ 0.2378	\$ 0.2378	\$ 0.2378	\$ 0.2378	\$ 0.2359	\$ 0.2359	\$ 0.2359
Unauthorized Overrun Charges	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6309	\$ 0.6303	\$ 0.6303	\$ 0.6303
Total Amount - \$	\$ 63,576	\$ 63,576	\$ 63,576	\$ 63,576	\$ 63,576	\$ 63,576	\$ 63,576	\$ 63,576	\$ 63,576	\$ 63,576	\$ 63,661	\$ 63,661	\$ 63,661
GSS Storage Demand	\$ 56,825	\$ 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 Capacity	\$ -	\$ -	\$ 1,038	\$ 11,897	\$ 9,960	\$ 14,664	\$ 12,865	\$ 12,865	\$ 9,268	\$ 8,438	\$ 1,521	\$ 267,74	\$ 267,74
GSS Storage Injection	\$ 13,429	\$ 9,760	\$ 5,079	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,998	\$ 11,244	\$ 11,244
GSS Handling from Storage	\$ 3,603	\$ 2,619	\$ 1,363	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,509	\$ 3,527	\$ 3,527
GSS-TE Surcharge	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GSS-TE Excess Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
*Overrun/Penalty Distribution	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (5,229)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unauthorized Overrun Charges	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL	\$ 137,433	\$ 132,780	\$ 127,881	\$ 132,298	\$ 130,361	\$ 129,836	\$ 133,266	\$ 133,266	\$ 129,669	\$ 128,839	\$ 132,515	\$ 135,525	\$ 135,525

Philadelphia Gas Works

Schedule 2

Pennsylvania Public Utilities Commission

Item 53.64(C)(1)

52 Pa. Code §53.61, et seq.

For the Twelve Months Ending December 2019

MONTH	TGPL		TETCO		Combined Total	
	Total	Volume	Total	Volume	Total	Volume
	Credits	DTH'S	Credits	DTH'S	Credits	DTH'S
Jan-19	\$ 701,362	1,092,595	\$ 1,332,317	1,210,860	\$ 2,033,679	2,303,455
Feb-19	\$ 638,836	998,508	\$ 1,210,355	1,105,244	\$ 1,849,191	2,103,752
Mar-19	\$ 706,045	1,102,794	\$ 1,338,908	1,221,059	\$ 2,044,953	2,323,853
Apr-19	\$ 320,936	1,083,900	\$ 283,356	2,278,230	\$ 604,292	3,362,130
May-19	\$ 355,796	1,442,492	\$ 538,238	2,366,602	\$ 894,034	3,809,094
Jun-19	\$ 343,160	1,684,650	\$ 578,322	2,278,950	\$ 921,483	3,963,600
Jul-19	\$ 355,304	1,741,921	\$ 557,582	2,356,093	\$ 912,886	4,098,014
Aug-19	\$ 363,385	2,054,401	\$ 561,888	2,358,573	\$ 925,273	4,412,974
Sep-19	\$ 351,795	1,988,340	\$ 642,188	2,282,550	\$ 993,982	4,270,890
Oct-19	\$ 346,529	2,027,772	\$ 383,742	2,331,944	\$ 730,270	4,359,716
Nov-19	\$ 809,897	953,280	\$ 1,101,560	1,535,400	\$ 1,911,457	2,488,680
Dec-19	\$ 842,422	1,013,924	\$ 1,145,065	1,594,926	\$ 1,987,487	2,608,850
	\$ 6,135,465	17,184,577	\$ 9,673,521	22,920,431	\$ 15,808,986	40,105,008

Tab 4

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2020-August 2021

	1/1/2020: Jan	2/1/2020: Feb	3/1/2020: Mar	4/1/2020: Apr	5/1/2020: May	6/1/2020: Jun	7/1/2020: Jul	8/1/2020: Aug	9/1/2020: Sep	10/1/2020: Oct
Williams	\$ 3,455,060	\$ 3,469,277	\$ 3,395,325	\$ 3,352,955	\$ 3,337,112	\$ 3,331,430	\$ 3,330,694	\$ 3,320,470	\$ 3,103,712	\$ 3,146,961
Texas Eastern	\$ 3,777,450	\$ 3,780,089	\$ 3,690,054	\$ 3,481,965	\$ 3,480,314	\$ 3,474,720	\$ 3,473,276	\$ 3,473,276	\$ 1,882,194	\$ 1,825,893
Dominion	\$ 129,756	\$ 129,805	\$ 128,194	\$ 133,806	\$ 133,002	\$ 134,534	\$ 135,002	\$ 133,002	\$ 134,534	\$ 135,002
Spot Purchases - Franco	\$ -	\$ 148,114	\$ 246,116	\$ 523,061	\$ 1,201,997	\$ 668,611	\$ 710,837	\$ 717,167	\$ 692,501	\$ 1,925,814
Spot Purchases - Teeco	\$ 46,634	\$ 121,776	\$ 59,622	\$ 1,836,399	\$ 1,764,122	\$ 1,696,234	\$ 1,713,654	\$ 1,727,278	\$ 2,132,245	\$ 2,591,714
Tranco Supply 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 6	\$ 709,990	\$ 664,100	\$ 709,990	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 7	\$ 836,247	\$ 1,242,793	\$ 1,590,024	\$ 606,043	\$ 989,190	\$ 330,881	\$ 343,153	\$ 346,185	\$ 494,772	\$ 1,449,682
Tranco Supply 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 14	\$ 644,800	\$ 585,800	\$ 614,730	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 30	\$ 96,386	\$ 89,252	\$ 91,889	\$ 2,880	\$ 2,976	\$ 2,880	\$ 2,976	\$ 2,976	\$ 2,880	\$ 762,592
Tranco Supply 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 34	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 37	\$ 1,278,905	\$ 1,367,640	\$ 1,433,285	\$ 874,059	\$ 926,122	\$ 924,190	\$ 985,636	\$ 995,392	\$ 964,922	\$ 1,008,563
Tranco Supply 38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tranco Supply 39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 5	\$ 626,555	\$ 534,325	\$ 559,795	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 15	\$ 295,818	\$ 315,013	\$ 330,429	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 23	\$ 271,250	\$ 288,550	\$ 302,715	\$ 205,050	\$ 312,170	\$ 310,950	\$ 331,080	\$ 334,180	\$ 328,650	\$ 344,260
Letco Supply 24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 25	\$ 1,673,751	\$ 1,831,132	\$ 1,573,788	\$ 733,875	\$ 1,461,656	\$ 1,547,250	\$ 1,597,563	\$ 1,612,635	\$ 1,530,412	\$ 1,383,125
Letco Supply 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 27	\$ 295,818	\$ 315,013	\$ 330,429	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 32	\$ 808,986	\$ 445,515	\$ 398,543	\$ 195,760	\$ 589,916	\$ 474,409	\$ 637,800	\$ 643,800	\$ 283,530	\$ 275,229
Letco Supply 33	\$ 540,156	\$ 588,830	\$ 615,576	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 34	\$ 240,489	\$ 262,864	\$ 274,748	\$ 147,780	\$ 157,077	\$ 157,320	\$ 168,423	\$ 170,285	\$ 167,340	\$ 176,314
Letco Supply 35	\$ 260,700	\$ 287,100	\$ 301,165	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Letco Supply 36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ET PAYBACK ADJUST	\$ 15,717,750	\$ 16,464,985	\$ 16,648,256	\$ 12,182,773	\$ 14,218,845	\$ 12,836,555	\$ 13,397,731	\$ 13,263,854	\$ 11,714,352	\$ 15,025,654
Total Costs										

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2020-August 2021

	11/1/2020: Nov	12/1/2020: Dec	1/1/2021: Jan	2/1/2021: Feb	3/1/2021: Mar	4/1/2021: Apr	5/1/2021: May	6/1/2021: Jun	7/1/2021: Jul	8/1/2021: Aug
Williams	\$ 3,124,809	\$ 3,218,041	\$ 3,272,207	\$ 3,260,582	\$ 3,416,817	\$ 3,423,690	\$ 3,409,698	\$ 3,377,959	\$ 3,377,779	\$ 3,376,918
Texas Eastern	\$ 2,409,756	\$ 2,886,927	\$ 2,954,330	\$ 3,000,333	\$ 3,710,507	\$ 3,446,280	\$ 3,479,692	\$ 3,476,566	\$ 3,470,638	\$ 3,469,370
Dominion	\$ 121,573	\$ 134,078	\$ 135,263	\$ 132,825	\$ 129,660	\$ 128,347	\$ 138,201	\$ 134,752	\$ 133,228	\$ 133,228
Spot Purchases - Transco	\$ 1,808,955	\$ 3,178,744	\$ 1,037,957	\$ 858,221	\$ 257,459	\$ 2,148,425	\$ 1,408,437	\$ 744,307	\$ 780,964	\$ 782,587
Spot Purchases - Tectco	\$ 2,466,525	\$ 3,373,881	\$ 3,284,930	\$ 3,136,907	\$ 2,823,911	\$ 2,579,697	\$ 2,745,130	\$ 2,538,868	\$ 2,522,900	\$ 2,345,924
Transco Supply 1										
Transco Supply 2										
Transco Supply 3										
Transco Supply 4										
Transco Supply 5										
Transco Supply 6										
Transco Supply 7	\$ 1,443,799	\$ 1,620,981	\$ 1,369,042	\$ 662,074	\$ 450,213	\$ 1,657,298	\$ 1,390,506	\$ 842,418	\$ 874,957	\$ 876,835
Transco Supply 8										
Transco Supply 9										
Transco Supply 10										
Transco Supply 11										
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Transco Supply 30										
Transco Supply 31										
Transco Supply 32										
Transco Supply 33										
Transco Supply 34										
Transco Supply 35										
Transco Supply 36										
Texas Eastern	\$ 926,846	\$ 1,058,611	\$ 576,763	\$ 433,989	\$ 162,629	\$ 1,041,342	\$ 479,768	\$ 2,880	\$ 2,976	\$ 2,976
Williams										
Transco Supply 1	\$ 919,800	\$ 1,036,950	\$ 1,089,130	\$ 966,420	\$ 1,014,630	\$ 632,070	\$ 644,152	\$ 633,080	\$ 666,451	\$ 668,115
Transco Supply 2										
Transco Supply 3										
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Transco Supply 34										
Transco Supply 35										
Transco Supply 36										
Texas Eastern	\$ 346,540	\$ 386,880	\$ 414,240	\$ 350,880	\$ 379,440	\$ 331,350	\$ 338,210	\$ 332,160	\$ 348,595	\$ 349,370
Williams	\$ 960,228	\$ 1,926,650	\$ 1,951,042	\$ 1,610,257	\$ 1,384,700	\$ 834,855	\$ 1,574,700	\$ 1,601,313	\$ 1,633,092	\$ 1,650,169
Transco Supply 1										
Transco Supply 2										
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Transco Supply 34										
Transco Supply 35										
Transco Supply 36										
Texas Eastern	\$ 110,175	\$ 51,270	\$ 1,550	\$ 1,480	\$ 1,559	\$ 109,950	\$ 146,355	\$ 176,320	\$ 182,484	\$ 369,481
Williams	\$ 725,160	\$ 819,020	\$ 840,982	\$ 763,287	\$ 801,036	\$ 767,287	\$ 172,701	\$ 170,110	\$ 178,932	\$ 179,597
Transco Supply 1	\$ 178,650	\$ 201,903	\$ 212,319	\$ 188,328	\$ 197,439	\$ 169,560	\$ 172,701	\$ 170,110	\$ 178,932	\$ 179,597
Transco Supply 2										
Transco Supply 3										
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Transco Supply 33										
Transco Supply 34										
Transco Supply 35										
Transco Supply 36										
Texas Eastern	\$ 15,541,775	\$ 14,848,455	\$ 17,129,636	\$ 15,381,531	\$ 14,929,491	\$ 16,502,865	\$ 15,550,400	\$ 13,374,115	\$ 13,609,076	

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2020-August 2021

Volumes (Dth)

	1/1/2020: Jan	2/1/2020: Feb	3/1/2020: Mar	4/1/2020: Apr	5/1/2020: May	6/1/2020: Jun	7/1/2020: Jul	8/1/2020: Aug	9/1/2020: Sep	10/1/2020: Oct
Spot Purchases - Transco	-	70,530	119,300	251,835	594,161	306,281	316,490	316,490	306,281	839,867
Spot Purchases - Teton	26,801	61,503	30,686	958,375	880,370	822,217	806,046	804,883	977,646	1,171,131
Transco Supply 1	-	-	-	-	-	-	-	-	-	-
Transco Supply 2	-	-	-	-	-	-	-	-	-	-
Transco Supply 3	-	-	-	-	-	-	-	-	-	-
Transco Supply 4	-	-	-	-	-	-	-	-	-	-
Transco Supply 5	-	-	-	-	-	-	-	-	-	-
Transco Supply 6	310,000	296,000	310,000	-	-	-	-	-	-	-
Transco Supply 7	374,697	560,398	729,522	290,186	463,716	150,368	151,584	151,584	217,501	630,002
Transco Supply 8	-	-	-	-	-	-	-	-	-	-
Transco Supply 9	-	-	-	-	-	-	-	-	-	-
Transco Supply 10	-	-	-	-	-	-	-	-	-	-
Transco Supply 11	-	-	-	-	-	-	-	-	-	-
Transco Supply 12	-	-	-	-	-	-	-	-	-	-
Transco Supply 13	-	-	-	-	-	-	-	-	-	-
Transco Supply 14	310,000	299,000	310,000	-	-	-	-	-	-	-
Transco Supply 15	-	-	-	-	-	-	-	-	-	-
Transco Supply 16	-	-	-	-	-	-	-	-	-	-
Transco Supply 17	-	-	-	-	-	-	-	-	-	-
Transco Supply 18	-	-	-	-	-	-	-	-	-	-
Transco Supply 19	-	-	-	-	-	-	-	-	-	-
Transco Supply 20	-	-	-	-	-	-	-	-	-	-
Transco Supply 21	-	-	-	-	-	-	-	-	-	-
Transco Supply 22	-	-	-	-	-	-	-	-	-	-
Transco Supply 23	-	-	-	-	-	-	-	-	-	-
Transco Supply 24	-	-	-	-	-	-	-	-	-	-
Transco Supply 25	-	-	-	-	-	-	-	-	-	-
Transco Supply 26	-	-	-	-	-	-	-	-	-	-
Transco Supply 27	-	-	-	-	-	-	-	-	-	-
Transco Supply 28	-	-	-	-	-	-	-	-	-	-
Transco Supply 29	-	-	-	-	-	-	-	-	-	-
Transco Supply 30	43,803	40,977	43,800	-	-	-	-	-	-	329,837
Transco Supply 31	-	-	-	-	-	-	-	-	-	-
Transco Supply 32	-	-	-	-	-	-	-	-	-	-
Transco Supply 33	-	-	-	-	-	-	-	-	-	-
Transco Supply 34	-	-	-	-	-	-	-	-	-	-
Transco Supply 35	-	-	-	-	-	-	-	-	-	-
Transco Supply 36	666,500	725,000	775,000	472,080	487,816	472,080	487,816	487,816	472,080	487,816
Transco Supply 37	-	-	-	-	-	-	-	-	-	-
Transco Supply 38	-	-	-	-	-	-	-	-	-	-
Transco Supply 39	-	-	-	-	-	-	-	-	-	-
Teton Supply 1	-	-	-	-	-	-	-	-	-	-
Teton Supply 2	-	-	-	-	-	-	-	-	-	-
Teton Supply 3	-	-	-	-	-	-	-	-	-	-
Teton Supply 4	-	-	-	-	-	-	-	-	-	-
Teton Supply 5	310,000	290,000	310,000	-	-	-	-	-	-	-
Teton Supply 6	-	-	-	-	-	-	-	-	-	-
Teton Supply 7	-	-	-	-	-	-	-	-	-	-
Teton Supply 8	-	-	-	-	-	-	-	-	-	-
Teton Supply 9	-	-	-	-	-	-	-	-	-	-
Teton Supply 10	-	-	-	-	-	-	-	-	-	-
Teton Supply 11	-	-	-	-	-	-	-	-	-	-
Teton Supply 12	-	-	-	-	-	-	-	-	-	-
Teton Supply 13	-	-	-	-	-	-	-	-	-	-
Teton Supply 14	-	-	-	-	-	-	-	-	-	-
Teton Supply 15	-	-	-	-	-	-	-	-	-	-
Teton Supply 16	-	-	-	-	-	-	-	-	-	-
Teton Supply 17	170,500	159,500	170,500	-	-	-	-	-	-	-
Teton Supply 18	-	-	-	-	-	-	-	-	-	-
Teton Supply 19	-	-	-	-	-	-	-	-	-	-
Teton Supply 20	-	-	-	-	-	-	-	-	-	-
Teton Supply 21	-	-	-	-	-	-	-	-	-	-
Teton Supply 22	-	-	-	-	-	-	-	-	-	-
Teton Supply 23	155,000	145,000	155,000	150,000	155,000	150,000	155,000	155,000	150,000	155,000
Teton Supply 24	-	-	-	-	-	-	-	-	-	-
Teton Supply 25	963,396	926,022	811,294	375,000	729,369	750,000	751,441	751,469	701,702	625,000
Teton Supply 26	170,500	159,500	170,500	-	-	-	-	-	-	-
Teton Supply 27	-	-	-	-	-	-	-	-	-	-
Teton Supply 28	-	-	-	-	-	-	-	-	-	-
Teton Supply 29	-	-	-	-	-	-	-	-	-	-
Teton Supply 30	-	-	-	-	-	-	-	-	-	-
Teton Supply 31	-	-	-	-	-	-	-	-	-	-
Teton Supply 32	291,650	225,265	204,319	100,000	294,369	250,000	300,000	300,000	150,000	124,369
Teton Supply 33	374,666	550,494	374,666	-	-	-	-	-	-	-
Teton Supply 34	168,764	157,876	168,764	90,000	95,000	90,000	95,000	95,000	90,000	93,000
Teton Supply 35	155,000	145,000	155,000	-	-	-	-	-	-	-
Teton Supply 36	-	-	-	-	-	-	-	-	-	-
Total Volumes	4,491,257	4,595,066	4,838,334	2,667,475	3,697,731	4,970,946	3,061,378	3,060,312	3,045,309	4,456,023

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2020-August 2021

Volumes (Bbl)

	11/1/2020: Nov	12/1/2020: Dec	1/1/2021: Jan	2/1/2021: Feb	3/1/2021: Mar	4/1/2021: Apr	5/1/2021: May	6/1/2021: Jun	7/1/2021: Jul	8/1/2021: Aug
Spot Purchases - Transco	760,065	1,238,793	387,587	325,454	102,247	942,705	625,416	325,879	336,742	336,742
Spot Purchases - Teeco	1,072,402	1,357,153	1,264,407	1,236,792	1,158,290	1,173,123	1,263,872	1,070,267	1,126,798	1,045,421
Transco Supply 1	-	-	-	-	-	-	-	-	-	-
Transco Supply 2	-	-	-	-	-	-	-	-	-	-
Transco Supply 3	-	-	-	-	-	-	-	-	-	-
Transco Supply 4	-	-	-	-	-	-	-	-	-	-
Transco Supply 5	-	-	-	-	-	-	-	-	-	-
Transco Supply 6	-	-	-	-	-	-	-	-	-	-
Transco Supply 7	604,580	629,733	509,543	249,933	177,676	724,791	615,227	367,210	375,654	375,654
Transco Supply 8	-	-	-	-	-	-	-	-	-	-
Transco Supply 9	-	-	-	-	-	-	-	-	-	-
Transco Supply 10	-	-	-	-	-	-	-	-	-	-
Transco Supply 11	-	-	-	-	-	-	-	-	-	-
Transco Supply 12	-	-	-	-	-	-	-	-	-	-
Transco Supply 13	-	-	-	-	-	-	-	-	-	-
Transco Supply 14	-	-	-	-	-	-	-	-	-	-
Transco Supply 15	-	-	-	-	-	-	-	-	-	-
Transco Supply 16	-	-	-	-	-	-	-	-	-	-
Transco Supply 17	-	-	-	-	-	-	-	-	-	-
Transco Supply 18	-	-	-	-	-	-	-	-	-	-
Transco Supply 19	-	-	-	-	-	-	-	-	-	-
Transco Supply 20	-	-	-	-	-	-	-	-	-	-
Transco Supply 21	-	-	-	-	-	-	-	-	-	-
Transco Supply 22	-	-	-	-	-	-	-	-	-	-
Transco Supply 23	-	-	-	-	-	-	-	-	-	-
Transco Supply 24	-	-	-	-	-	-	-	-	-	-
Transco Supply 25	-	-	-	-	-	-	-	-	-	-
Transco Supply 26	-	-	-	-	-	-	-	-	-	-
Transco Supply 27	-	-	-	-	-	-	-	-	-	-
Transco Supply 28	-	-	-	-	-	-	-	-	-	-
Transco Supply 29	386,597	409,796	213,462	162,939	63,154	453,675	210,783	322,080	332,816	332,816
Transco Supply 30	-	-	-	-	-	-	-	-	-	-
Transco Supply 31	-	-	-	-	-	-	-	-	-	-
Transco Supply 32	-	-	-	-	-	-	-	-	-	-
Transco Supply 33	-	-	-	-	-	-	-	-	-	-
Transco Supply 34	-	-	-	-	-	-	-	-	-	-
Transco Supply 35	-	-	-	-	-	-	-	-	-	-
Transco Supply 36	430,000	465,000	465,000	420,000	465,000	322,080	332,816	322,080	332,816	332,816
Transco Supply 37	-	-	-	-	-	-	-	-	-	-
Transco Supply 38	-	-	-	-	-	-	-	-	-	-
Transco Supply 39	-	-	-	-	-	-	-	-	-	-
Teeco Supply 1	-	-	-	-	-	-	-	-	-	-
Teeco Supply 2	-	-	-	-	-	-	-	-	-	-
Teeco Supply 3	-	-	-	-	-	-	-	-	-	-
Teeco Supply 4	-	-	-	-	-	-	-	-	-	-
Teeco Supply 5	-	-	-	-	-	-	-	-	-	-
Teeco Supply 6	-	-	-	-	-	-	-	-	-	-
Teeco Supply 7	-	-	-	-	-	-	-	-	-	-
Teeco Supply 8	-	-	-	-	-	-	-	-	-	-
Teeco Supply 9	-	-	-	-	-	-	-	-	-	-
Teeco Supply 10	-	-	-	-	-	-	-	-	-	-
Teeco Supply 11	-	-	-	-	-	-	-	-	-	-
Teeco Supply 12	-	-	-	-	-	-	-	-	-	-
Teeco Supply 13	-	-	-	-	-	-	-	-	-	-
Teeco Supply 14	-	-	-	-	-	-	-	-	-	-
Teeco Supply 15	-	-	-	-	-	-	-	-	-	-
Teeco Supply 16	-	-	-	-	-	-	-	-	-	-
Teeco Supply 17	-	-	-	-	-	-	-	-	-	-
Teeco Supply 18	-	-	-	-	-	-	-	-	-	-
Teeco Supply 19	-	-	-	-	-	-	-	-	-	-
Teeco Supply 20	-	-	-	-	-	-	-	-	-	-
Teeco Supply 21	-	-	-	-	-	-	-	-	-	-
Teeco Supply 22	-	-	-	-	-	-	-	-	-	-
Teeco Supply 23	150,000	155,000	155,000	140,000	155,000	150,000	155,000	150,000	155,000	155,000
Teeco Supply 24	-	-	-	-	-	-	-	-	-	-
Teeco Supply 25	417,491	775,000	750,978	632,873	650,000	379,632	725,000	726,519	729,653	726,457
Teeco Supply 26	-	-	-	-	-	-	-	-	-	-
Teeco Supply 27	-	-	-	-	-	-	-	-	-	-
Teeco Supply 28	-	-	-	-	-	-	-	-	-	-
Teeco Supply 29	-	-	-	-	-	-	-	-	-	-
Teeco Supply 30	-	-	-	-	-	-	-	-	-	-
Teeco Supply 31	-	-	-	-	-	-	-	-	-	-
Teeco Supply 32	47,249	210,000	374,666	338,408	374,666	50,000	67,382	80,000	81,203	164,653
Teeco Supply 33	362,580	374,666	374,666	338,408	374,666	374,666	338,408	338,408	338,408	338,408
Teeco Supply 34	90,000	93,000	93,000	84,000	93,000	90,000	93,000	90,000	93,000	93,000
Teeco Supply 35	-	-	-	-	-	-	-	-	-	-
Teeco Supply 36	-	-	-	-	-	-	-	-	-	-
Total Volumes	4,340,964	5,318,141	4,713,644	3,580,999	3,239,033	4,286,026	4,088,497	3,131,984	3,221,164	3,229,741

Cost of Natural Gas

Suppliers	1/1/2020: Jan	2/1/2020: Feb	3/1/2020: Mar	4/1/2020: Apr	5/1/2020: May	6/1/2020: Jun	7/1/2020: Jul	8/1/2020: Aug	9/1/2020: Sep	10/1/2020: Oct
TR-Spot	\$ -	\$ 148,114	\$ 246,116	\$ 523,061	\$ 1,261,997	\$ 668,611	\$ 710,837	\$ 717,167	\$ 692,501	\$ 1,925,814
Supplier 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 6	\$ 709,900	\$ 664,100	\$ 709,900	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 7	\$ 856,247	\$ 1,242,793	\$ 1,590,024	\$ 606,043	\$ 989,190	\$ 330,881	\$ 343,153	\$ 346,185	\$ 494,732	\$ 1,449,682
Supplier 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 15	\$ 644,800	\$ 585,800	\$ 614,730	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 30	\$ 96,386	\$ 89,252	\$ 93,889	\$ 2,880	\$ 2,976	\$ 2,880	\$ 2,976	\$ 2,976	\$ 2,880	\$ 762,592
Supplier 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 34	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 37	\$ 1,278,905	\$ 1,367,640	\$ 1,433,285	\$ 874,059	\$ 926,122	\$ 924,100	\$ 985,636	\$ 995,392	\$ 960,922	\$ 1,008,563
Supplier 38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Suppliers	\$ 3,586,238	\$ 4,097,699	\$ 4,687,944	\$ 2,006,043	\$ 3,180,285	\$ 1,926,472	\$ 2,042,602	\$ 2,061,720	\$ 2,151,035	\$ 5,146,651

Transportation Costs

TR-Spot	\$ 73,175	\$ 96,243	\$ 97,833	\$ 35,981	\$ 50,699	\$ 23,971	\$ 26,689	\$ 26,689	\$ 28,581	\$ 80,495
Williams Total	\$ 73,175	\$ 96,243	\$ 97,833	\$ 35,981	\$ 50,699	\$ 23,971	\$ 26,689	\$ 26,689	\$ 28,581	\$ 80,495
Total Costs	\$ 3,659,412	\$ 4,193,942	\$ 4,785,777	\$ 2,042,024	\$ 3,230,984	\$ 1,952,443	\$ 2,069,292	\$ 2,088,409	\$ 2,179,616	\$ 5,227,146

Cost of Natural Gas

Suppliers	11/1/2020: Nov	12/1/2020: Dec	1/1/2021: Jan	2/1/2021: Feb	3/1/2021: Mar	4/1/2021: Apr	5/1/2021: May	6/1/2021: Jun	7/1/2021: Jul	8/1/2021: Aug
TR Spot	\$ 1,808,955	\$ 3,178,744	\$ 1,037,957	\$ 858,221	\$ 257,459	\$ 2,148,425	\$ 1,408,437	\$ 744,307	\$ 780,904	\$ 782,587
Supplier 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 7	\$ 1,443,799	\$ 1,620,981	\$ 1,369,042	\$ 662,074	\$ 450,213	\$ 1,657,298	\$ 1,390,506	\$ 842,418	\$ 874,957	\$ 876,835
Supplier 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 30	\$ 926,846	\$ 1,058,611	\$ 576,763	\$ 433,989	\$ 162,629	\$ 1,041,342	\$ 479,768	\$ 2,880	\$ 2,976	\$ 2,976
Supplier 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 34	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 37	\$ 919,800	\$ 1,036,950	\$ 1,089,030	\$ 966,420	\$ 1,014,630	\$ 632,070	\$ 644,152	\$ 633,680	\$ 666,451	\$ 668,115
Supplier 38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Suppliers	\$ 5,099,400	\$ 6,895,286	\$ 4,072,792	\$ 2,920,703	\$ 1,884,931	\$ 5,479,134	\$ 3,922,863	\$ 2,223,286	\$ 2,325,288	\$ 2,330,514
Transportation Costs										
Tr Spot	\$ 88,535	\$ 111,471	\$ 89,925	\$ 76,426	\$ 59,118	\$ 92,628	\$ 57,104	\$ 28,683	\$ 29,492	\$ 29,492
Williams Total	\$ 88,535	\$ 111,471	\$ 89,925	\$ 76,426	\$ 59,118	\$ 92,628	\$ 57,104	\$ 28,683	\$ 29,492	\$ 29,492
Total Costs	\$ 5,187,935	\$ 7,006,758	\$ 4,162,717	\$ 2,997,129	\$ 1,944,049	\$ 5,571,763	\$ 3,979,967	\$ 2,251,969	\$ 2,354,779	\$ 2,360,005

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2020-August 2021

Volumes (Dth)

Suppliers	1/1/2020: Jan	2/1/2020: Feb	3/1/2020: Mar	4/1/2020: Apr	5/1/2020: May	6/1/2020: Jun	7/1/2020: Jul	8/1/2020: Aug	9/1/2020: Sep	10/1/2020: Oct
TR Spot	-	70,530	119,300	251,835	594,161	306,281	316,490	316,490	306,281	839,867
Supplier 1	-	-	-	-	-	-	-	-	-	-
Supplier 2	-	-	-	-	-	-	-	-	-	-
Supplier 3	-	-	-	-	-	-	-	-	-	-
Supplier 4	-	-	-	-	-	-	-	-	-	-
Supplier 5	-	-	-	-	-	-	-	-	-	-
Supplier 6	310,000	290,000	310,000	-	-	-	-	-	-	-
Supplier 7	374,697	560,398	729,522	290,186	463,716	150,368	151,584	151,584	217,501	630,002
Supplier 8	-	-	-	-	-	-	-	-	-	-
Supplier 9	-	-	-	-	-	-	-	-	-	-
Supplier 10	-	-	-	-	-	-	-	-	-	-
Supplier 11	-	-	-	-	-	-	-	-	-	-
Supplier 12	-	-	-	-	-	-	-	-	-	-
Supplier 13	-	-	-	-	-	-	-	-	-	-
Supplier 14	310,000	290,000	310,000	-	-	-	-	-	-	-
Supplier 15	-	-	-	-	-	-	-	-	-	-
Supplier 16	-	-	-	-	-	-	-	-	-	-
Supplier 17	-	-	-	-	-	-	-	-	-	-
Supplier 18	-	-	-	-	-	-	-	-	-	-
Supplier 19	-	-	-	-	-	-	-	-	-	-
Supplier 20	-	-	-	-	-	-	-	-	-	-
Supplier 21	-	-	-	-	-	-	-	-	-	-
Supplier 22	-	-	-	-	-	-	-	-	-	-
Supplier 23	-	-	-	-	-	-	-	-	-	-
Supplier 24	-	-	-	-	-	-	-	-	-	-
Supplier 25	-	-	-	-	-	-	-	-	-	-
Supplier 26	-	-	-	-	-	-	-	-	-	-
Supplier 27	-	-	-	-	-	-	-	-	-	-
Supplier 28	-	-	-	-	-	-	-	-	-	-
Supplier 29	-	-	-	-	-	-	-	-	-	-
Supplier 30	43,803	40,977	43,803	-	-	-	-	-	-	329,837
Supplier 31	-	-	-	-	-	-	-	-	-	-
Supplier 32	-	-	-	-	-	-	-	-	-	-
Supplier 33	-	-	-	-	-	-	-	-	-	-
Supplier 34	-	-	-	-	-	-	-	-	-	-
Supplier 35	-	-	-	-	-	-	-	-	-	-
Supplier 36	-	-	-	-	-	-	-	-	-	-
Supplier 37	666,500	725,000	775,000	472,080	487,816	472,080	487,816	487,816	472,080	487,816
Supplier 38	-	-	-	-	-	-	-	-	-	-
Supplier 39	-	-	-	-	-	-	-	-	-	-
Total Volumes	1,705,000	1,976,906	2,287,624	1,014,101	1,545,693	928,729	955,891	955,891	995,862	2,287,522

Volumes (Dth)

Suppliers	11/1/2020:	Nov	12/1/2020:	Dec	1/1/2021:	Jan	2/1/2021:	Feb	3/1/2021:	Mar	4/1/2021:	Apr	5/1/2021:	May	6/1/2021:	Jun	7/1/2021:	Jul	8/1/2021:	Aug
TR Spot	760,065	1,238,793	387,587	325,454	102,247	942,705	625,416	325,879	336,742	336,742	336,742	336,742	336,742	336,742	336,742	336,742	336,742	336,742	336,742	336,742
Supplier 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 7	604,580	629,733	509,543	249,933	177,676	724,791	615,227	367,210	375,654	375,654	375,654	375,654	375,654	375,654	375,654	375,654	375,654	375,654	375,654	375,654
Supplier 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 30	386,597	409,796	213,462	162,939	63,154	453,675	210,783	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	332,816	332,816	332,816	332,816	332,816	332,816	332,816	332,816	332,816	332,816
Supplier 38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplier 39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Volumes	2,201,242	2,743,323	1,575,592	1,158,326	808,077	2,443,251	1,784,243	1,015,169	1,045,211	1,045,211	1,045,211	1,045,211	1,045,211	1,045,211	1,045,211	1,045,211	1,045,211	1,045,211	1,045,211	1,045,211

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2020-August 2021

	1/1/2020: Jan	2/1/2020: Feb	3/1/2020: Mar	4/1/2020: Apr	5/1/2020: May	6/1/2020: Jun	7/1/2020: Jul	8/1/2020: Aug	9/1/2020: Sep	10/1/2020: Oct
WSS										
Injection	\$ -	\$ -	\$ -	\$ 4,693	\$ 9,699	\$ 9,386	\$ 9,699	\$ 9,699	\$ 9,386	\$ 9,699
Withdrawal	\$ 2,637	\$ 12,610	\$ 3,873	\$ 992	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764
Total Charges	\$ 73,401	\$ 83,374	\$ 74,636	\$ 76,449	\$ 80,463	\$ 80,150	\$ 80,463	\$ 80,463	\$ 80,150	\$ 80,463
S2										
Injection	\$ 189	\$ -	\$ -	\$ 1,358	\$ 2,807	\$ 2,717	\$ 2,807	\$ 2,807	\$ 2,717	\$ 2,807
Withdrawal	\$ 5,664	\$ 8,885	\$ 2,478	\$ 1,672	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100
Total Charges	\$ 61,953	\$ 64,985	\$ 58,578	\$ 59,131	\$ 58,907	\$ 58,817	\$ 58,907	\$ 58,907	\$ 58,817	\$ 58,907
GSS										
Injection	\$ 2,175	\$ -	\$ 2,133	\$ 12,693	\$ 26,233	\$ 25,387	\$ 26,233	\$ 26,233	\$ 25,387	\$ 26,233
Withdrawal	\$ 46,664	\$ 25,169	\$ 18,925	\$ 25,167	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024
Total Charges	\$ 388,864	\$ 365,193	\$ 361,083	\$ 377,885	\$ 366,257	\$ 365,411	\$ 366,257	\$ 366,257	\$ 365,411	\$ 366,257
Total Injection Charges	\$ 2,364	\$ -	\$ 2,133	\$ 18,745	\$ 38,739	\$ 37,489	\$ 38,739	\$ 38,739	\$ 37,489	\$ 38,739
Total Withdrawal Charge:	\$ 54,966	\$ 46,664	\$ 25,276	\$ 27,832	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Demand Charges	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888
Total Storage	\$ 524,218	\$ 513,552	\$ 494,297	\$ 513,465	\$ 505,627	\$ 504,377	\$ 505,627	\$ 505,627	\$ 504,377	\$ 505,627

Forecasted Summary of Firm Transportation

Demand Charges	\$ 2,904,167	\$ 2,902,982	\$ 2,849,695	\$ 2,848,509	\$ 2,847,286	\$ 2,844,877	\$ 2,843,654	\$ 2,842,373	\$ 2,841,513
Capacity Release Credit	\$ (46,500)	\$ (43,500)	\$ (46,500)	\$ (45,000)	\$ (46,500)	\$ (46,500)	\$ (46,500)	\$ (46,500)	\$ (46,500)
Net Demand Charge	\$ 2,857,667	\$ 2,859,482	\$ 2,803,195	\$ 2,803,509	\$ 2,800,786	\$ 2,798,377	\$ 2,797,154	\$ 2,790,873	\$ 2,795,013

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2020-August 2021

	11/1/2020:	Nov	12/1/2020:	Dec	1/1/2021:	Jan	2/1/2021:	Feb	3/1/2021:	Mar	4/1/2021:	Apr	5/1/2021:	May	6/1/2021:	Jun	7/1/2021:	Jul	8/1/2021:	Aug	
WSS																					
Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,993	\$ 12,177	\$ 9,987	\$ 10,320	\$ 10,320	\$ -	\$ -	\$ -	\$ 10,320	
Withdrawal	\$ -	\$ -	\$ -	\$ -	\$ 21,749	\$ 21,749	\$ 24,123	\$ 21,863	\$ 21,863	\$ 21,863	\$ 21,863	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Charges	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764
Total Charges	\$ 70,764	\$ 70,764	\$ 70,764	\$ 70,764	\$ 92,513	\$ 92,513	\$ 94,887	\$ 92,626	\$ 92,626	\$ 92,626	\$ 92,626	\$ 75,757	\$ 82,941	\$ 80,750	\$ 81,083	\$ 81,083	\$ 81,083	\$ 81,083	\$ 81,083	\$ 81,083	\$ 81,083
S2																					
Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,726	\$ 3,567	\$ 3,452	\$ 3,567	\$ 3,567	\$ 3,567	\$ 3,567	\$ 3,567	\$ 3,567	\$ 3,567
Withdrawal	\$ 354	\$ 6,695	\$ 10,975	\$ 7,430	\$ 4,772	\$ 4,772	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100
Demand Charges	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100	\$ 56,100
Total Charges	\$ 56,454	\$ 62,795	\$ 67,075	\$ 63,530	\$ 60,872	\$ 60,872	\$ 63,530	\$ 60,872	\$ 60,872	\$ 60,872	\$ 60,872	\$ 57,826	\$ 59,668	\$ 59,552	\$ 59,668	\$ 59,668	\$ 59,668	\$ 59,668	\$ 59,668	\$ 59,668	\$ 59,668
GSS																					
Injection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,847	\$ 28,618	\$ 27,695	\$ 28,618	\$ 28,618	\$ 28,618	\$ 28,618	\$ 28,618	\$ 28,618	\$ 28,618
Withdrawal	\$ -	\$ 22,149	\$ 72,693	\$ 49,436	\$ 21,303	\$ 21,303	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024
Demand Charges	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024	\$ 340,024
Total Charges	\$ 340,024	\$ 362,173	\$ 412,718	\$ 389,460	\$ 361,327	\$ 361,327	\$ 389,460	\$ 361,327	\$ 361,327	\$ 361,327	\$ 361,327	\$ 354,466	\$ 368,642	\$ 367,719	\$ 368,642	\$ 368,642	\$ 368,642	\$ 368,642	\$ 368,642	\$ 368,642	\$ 368,642
Total Injection Charges	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,567	\$ 44,362	\$ 41,134	\$ 42,505	\$ 42,505	\$ 42,505	\$ 42,505	\$ 42,505	\$ 42,505	\$ 42,505
Total Withdrawal Charge:	\$ 354	\$ 28,844	\$ 105,417	\$ 80,989	\$ 47,938	\$ 47,938	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888
Total Demand Charges	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888	\$ 466,888
Total Storage	\$ 467,242	\$ 495,732	\$ 572,305	\$ 547,877	\$ 514,826	\$ 514,826	\$ 547,877	\$ 514,826	\$ 514,826	\$ 514,826	\$ 514,826	\$ 488,049	\$ 511,250	\$ 508,022	\$ 509,393	\$ 509,393	\$ 509,393	\$ 509,393	\$ 509,393	\$ 509,393	\$ 509,393
Demand Charges	\$ 2,840,653	\$ 2,891,512	\$ 2,890,652	\$ 2,889,791	\$ 2,888,873	\$ 2,888,873	\$ 2,888,873	\$ 2,888,873	\$ 2,888,873	\$ 2,888,873	\$ 2,888,873	\$ 2,888,873	\$ 2,887,153	\$ 2,886,255	\$ 2,885,394	\$ 2,885,394	\$ 2,885,394	\$ 2,885,394	\$ 2,885,394	\$ 2,885,394	\$ 2,885,394
Capacity Release Credit	\$ (271,620)	\$ (280,674)	\$ (280,674)	\$ (253,512)	\$ (46,500)	\$ (46,500)	\$ (46,500)	\$ (46,500)	\$ (46,500)	\$ (46,500)	\$ (46,500)	\$ (45,000)	\$ (46,500)	\$ (45,000)	\$ (46,500)	\$ (46,500)	\$ (46,500)	\$ (46,500)	\$ (46,500)	\$ (46,500)	\$ (46,500)
Net Demand Charge	\$ 2,569,033	\$ 2,610,838	\$ 2,609,978	\$ 2,636,279	\$ 2,842,373	\$ 2,843,013	\$ 2,843,013	\$ 2,843,013	\$ 2,843,013	\$ 2,843,013	\$ 2,843,013	\$ 2,843,013	\$ 2,840,653	\$ 2,841,255	\$ 2,838,894	\$ 2,838,894	\$ 2,838,894	\$ 2,838,894	\$ 2,838,894	\$ 2,838,894	\$ 2,838,894

Forecasted Summary of Firm Transportation

Cost of Natural Gas

Suppliers	1/1/2020: Jan	2/1/2020: Feb	3/1/2020: Mar	4/1/2020: Apr	5/1/2020: May	6/1/2020: Jun	7/1/2020: Jul	8/1/2020: Aug	9/1/2020: Sep	10/1/2020: Oct
TE Spot	\$ 46,634	\$ 121,776	\$ 59,622	\$ 1,836,399	\$ 1,764,122	\$ 1,696,234	\$ 1,713,654	\$ 1,727,278	\$ 2,132,245	\$ 2,591,714
Supplier 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 5	\$ 626,355	\$ 534,325	\$ 559,705	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 16	\$ 295,818	\$ 315,013	\$ 330,429	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 24	\$ 271,250	\$ 288,550	\$ 302,715	\$ 295,050	\$ 312,170	\$ 310,950	\$ 331,080	\$ 334,180	\$ 328,650	\$ 344,565
Supplier 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 26	\$ 1,673,751	\$ 1,831,132	\$ 1,573,788	\$ 733,875	\$ 1,461,656	\$ 1,547,250	\$ 1,597,563	\$ 1,612,653	\$ 1,530,412	\$ 1,383,125
Supplier 27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 28	\$ 295,818	\$ 315,013	\$ 330,429	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 32	\$ 508,986	\$ 443,515	\$ 398,543	\$ 195,700	\$ 589,916	\$ 474,490	\$ 637,800	\$ 643,800	\$ 283,530	\$ 275,229
Supplier 33	\$ 540,456	\$ 588,830	\$ 615,576	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 34	\$ 240,489	\$ 262,864	\$ 274,748	\$ 147,780	\$ 157,077	\$ 157,320	\$ 168,423	\$ 170,283	\$ 167,940	\$ 176,514
Supplier 35	\$ 269,700	\$ 287,100	\$ 301,165	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Supplier 36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub Total	\$ 4,769,256	\$ 4,988,116	\$ 4,746,720	\$ 3,208,804	\$ 4,284,940	\$ 4,186,244	\$ 4,448,521	\$ 4,488,194	\$ 4,442,777	\$ 4,771,146

Transportation Costs

TE Spot	\$ 204,229	\$ 167,261	\$ 163,483	\$ 102,803	\$ 133,759	\$ 126,937	\$ 130,870	\$ 130,799	\$ 127,379	\$ 134,781
Total TE	\$ 204,229	\$ 167,261	\$ 163,483	\$ 102,803	\$ 133,759	\$ 126,937	\$ 130,870	\$ 130,799	\$ 127,379	\$ 134,781
Total Costs	\$ 4,973,485	\$ 5,155,377	\$ 4,910,203	\$ 3,311,607	\$ 4,418,699	\$ 4,313,180	\$ 4,579,391	\$ 4,618,993	\$ 4,570,156	\$ 4,905,927

Cost of Natural Gas

Suppliers	11/1/2020: Nov	12/1/2020: Dec	1/1/2021: Jan	2/1/2021: Feb	3/1/2021: Mar	4/1/2021: Apr	5/1/2021: May	6/1/2021: Jun	7/1/2021: Jul	8/1/2021: Aug
TE Spot	\$ 2,466,525	\$ 3,373,881	\$ 3,284,930	\$ 3,136,907	\$ 2,823,911	\$ 2,579,697	\$ 2,745,130	\$ 2,358,868	\$ 2,522,900	\$ 2,345,924
Supplier 1	-	-	-	-	-	-	-	-	-	-
Supplier 2	-	-	-	-	-	-	-	-	-	-
Supplier 3	-	-	-	-	-	-	-	-	-	-
Supplier 4	-	-	-	-	-	-	-	-	-	-
Supplier 5	-	-	-	-	-	-	-	-	-	-
Supplier 6	-	-	-	-	-	-	-	-	-	-
Supplier 7	-	-	-	-	-	-	-	-	-	-
Supplier 8	-	-	-	-	-	-	-	-	-	-
Supplier 9	-	-	-	-	-	-	-	-	-	-
Supplier 10	-	-	-	-	-	-	-	-	-	-
Supplier 11	-	-	-	-	-	-	-	-	-	-
Supplier 12	-	-	-	-	-	-	-	-	-	-
Supplier 13	-	-	-	-	-	-	-	-	-	-
Supplier 14	-	-	-	-	-	-	-	-	-	-
Supplier 15	-	-	-	-	-	-	-	-	-	-
Supplier 16	-	-	-	-	-	-	-	-	-	-
Supplier 17	-	-	-	-	-	-	-	-	-	-
Supplier 18	-	-	-	-	-	-	-	-	-	-
Supplier 19	-	-	-	-	-	-	-	-	-	-
Supplier 20	-	-	-	-	-	-	-	-	-	-
Supplier 21	-	-	-	-	-	-	-	-	-	-
Supplier 22	-	-	-	-	-	-	-	-	-	-
Supplier 23	-	-	-	-	-	-	-	-	-	-
Supplier 24	\$ 346,500	\$ 386,880	\$ 404,240	\$ 359,380	\$ 379,440	\$ 331,350	\$ 338,210	\$ 332,100	\$ 348,595	\$ 349,370
Supplier 25	-	-	-	-	-	-	-	-	-	-
Supplier 26	\$ 960,228	\$ 1,926,650	\$ 1,951,042	\$ 1,618,257	\$ 1,584,700	\$ 834,855	\$ 1,574,700	\$ 1,601,313	\$ 1,633,692	\$ 1,630,169
Supplier 27	-	-	-	-	-	-	-	-	-	-
Supplier 28	-	-	-	-	-	-	-	-	-	-
Supplier 29	-	-	-	-	-	-	-	-	-	-
Supplier 30	-	-	-	-	-	-	-	-	-	-
Supplier 31	-	-	-	-	-	-	-	-	-	-
Supplier 32	\$ 110,173	\$ 51,270	\$ 1,550	\$ 1,400	\$ 1,550	\$ 109,950	\$ 146,355	\$ 176,320	\$ 182,484	\$ 369,481
Supplier 33	\$ 725,160	\$ 819,020	\$ 860,982	\$ 763,787	\$ 801,036	-	-	-	-	-
Supplier 34	\$ 178,650	\$ 201,903	\$ 212,319	\$ 188,328	\$ 197,439	\$ 169,560	\$ 172,701	\$ 170,010	\$ 178,932	\$ 179,397
Supplier 35	-	-	-	-	-	-	-	-	-	-
Supplier 36	-	-	-	-	-	-	-	-	-	-
Sub Total	\$ 4,787,237	\$ 6,759,604	\$ 6,715,063	\$ 6,068,058	\$ 5,788,076	\$ 4,025,413	\$ 4,977,096	\$ 4,638,610	\$ 4,866,603	\$ 4,874,341

Transportation Costs

TE Spot	\$ 132,988	\$ 171,583	\$ 163,138	\$ 149,778	\$ 150,350	\$ 114,558	\$ 143,206	\$ 131,567	\$ 135,864	\$ 135,776
Total TE	\$ 132,988	\$ 171,583	\$ 163,138	\$ 149,778	\$ 150,350	\$ 114,558	\$ 143,206	\$ 131,567	\$ 135,864	\$ 135,776
Total Costs	\$ 4,920,225	\$ 6,931,187	\$ 6,878,201	\$ 6,217,837	\$ 5,938,426	\$ 4,139,971	\$ 5,120,302	\$ 4,770,177	\$ 5,002,467	\$ 5,010,116

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2020-August 2021

Volumes

Suppliers

	1/1/2020: Jan	2/1/2020: Feb	3/1/2020: Mar	4/1/2020: Apr	5/1/2020: May	6/1/2020: Jun	7/1/2020: Jul	8/1/2020: Aug	9/1/2020: Sep	10/1/2020: Oct
TE Spot	26,801	61,503	30,686	938,375	880,300	822,217	806,046	804,883	977,646	1,171,131
Supplier 1	-	-	-	-	-	-	-	-	-	-
Supplier 2	-	-	-	-	-	-	-	-	-	-
Supplier 3	-	-	-	-	-	-	-	-	-	-
Supplier 4	-	-	-	-	-	-	-	-	-	-
Supplier 5	310,000	290,000	310,000	-	-	-	-	-	-	-
Supplier 6	-	-	-	-	-	-	-	-	-	-
Supplier 7	-	-	-	-	-	-	-	-	-	-
Supplier 8	-	-	-	-	-	-	-	-	-	-
Supplier 9	-	-	-	-	-	-	-	-	-	-
Supplier 10	-	-	-	-	-	-	-	-	-	-
Supplier 11	-	-	-	-	-	-	-	-	-	-
Supplier 12	-	-	-	-	-	-	-	-	-	-
Supplier 13	-	-	-	-	-	-	-	-	-	-
Supplier 14	-	-	-	-	-	-	-	-	-	-
Supplier 15	-	-	-	-	-	-	-	-	-	-
Supplier 16	170,500	159,500	170,500	-	-	-	-	-	-	-
Supplier 17	-	-	-	-	-	-	-	-	-	-
Supplier 18	-	-	-	-	-	-	-	-	-	-
Supplier 19	-	-	-	-	-	-	-	-	-	-
Supplier 20	-	-	-	-	-	-	-	-	-	-
Supplier 21	-	-	-	-	-	-	-	-	-	-
Supplier 22	-	-	-	-	-	-	-	-	-	-
Supplier 23	-	-	-	-	-	-	-	-	-	-
Supplier 24	155,000	145,000	155,000	150,000	155,000	150,000	155,000	155,000	150,000	155,000
Supplier 25	-	-	-	-	-	-	-	-	-	-
Supplier 26	963,396	926,022	811,294	375,000	729,369	750,000	751,441	751,469	701,702	625,000
Supplier 27	-	-	-	-	-	-	-	-	-	-
Supplier 28	170,500	159,500	170,500	-	-	-	-	-	-	-
Supplier 29	-	-	-	-	-	-	-	-	-	-
Supplier 30	-	-	-	-	-	-	-	-	-	-
Supplier 31	-	-	-	-	-	-	-	-	-	-
Supplier 32	291,630	223,265	204,319	100,000	294,369	230,000	300,000	300,000	130,000	124,369
Supplier 33	374,666	350,494	374,666	-	-	-	-	-	-	-
Supplier 34	168,764	157,876	168,764	90,000	93,000	90,000	93,000	93,000	90,000	93,000
Supplier 35	155,000	145,000	155,000	-	-	-	-	-	-	-
Supplier 36	-	-	-	-	-	-	-	-	-	-
Total	2,786,257	2,618,160	2,550,730	1,653,375	2,152,039	2,042,217	2,105,487	2,104,352	2,049,348	2,168,500

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2020-August 2021

Volumes

Suppliers

	11/1/2020: Nov	12/1/2020: Dec	1/1/2021: Jan	2/1/2021: Feb	3/1/2021: Mar	4/1/2021: Apr	5/1/2021: May	6/1/2021: Jun	7/1/2021: Jul	8/1/2021: Aug
TE Spot	1,072,402	1,357,153	1,264,407	1,226,792	1,158,290	1,173,123	1,263,872	1,070,267	1,126,798	1,045,421
Supplier 1	-	-	-	-	-	-	-	-	-	-
Supplier 2	-	-	-	-	-	-	-	-	-	-
Supplier 3	-	-	-	-	-	-	-	-	-	-
Supplier 4	-	-	-	-	-	-	-	-	-	-
Supplier 5	-	-	-	-	-	-	-	-	-	-
Supplier 6	-	-	-	-	-	-	-	-	-	-
Supplier 7	-	-	-	-	-	-	-	-	-	-
Supplier 8	-	-	-	-	-	-	-	-	-	-
Supplier 9	-	-	-	-	-	-	-	-	-	-
Supplier 10	-	-	-	-	-	-	-	-	-	-
Supplier 11	-	-	-	-	-	-	-	-	-	-
Supplier 12	-	-	-	-	-	-	-	-	-	-
Supplier 13	-	-	-	-	-	-	-	-	-	-
Supplier 14	-	-	-	-	-	-	-	-	-	-
Supplier 15	-	-	-	-	-	-	-	-	-	-
Supplier 16	-	-	-	-	-	-	-	-	-	-
Supplier 17	-	-	-	-	-	-	-	-	-	-
Supplier 18	-	-	-	-	-	-	-	-	-	-
Supplier 19	-	-	-	-	-	-	-	-	-	-
Supplier 20	-	-	-	-	-	-	-	-	-	-
Supplier 21	-	-	-	-	-	-	-	-	-	-
Supplier 22	-	-	-	-	-	-	-	-	-	-
Supplier 23	-	-	-	-	-	-	-	-	-	-
Supplier 24	150,000	155,000	155,000	140,000	155,000	150,000	155,000	150,000	155,000	155,000
Supplier 25	-	-	-	-	-	-	-	-	-	-
Supplier 26	417,491	775,000	750,978	632,873	650,000	379,652	725,000	726,549	729,653	726,457
Supplier 27	-	-	-	-	-	-	-	-	-	-
Supplier 28	-	-	-	-	-	-	-	-	-	-
Supplier 29	-	-	-	-	-	-	-	-	-	-
Supplier 30	-	-	-	-	-	-	-	-	-	-
Supplier 31	-	-	-	-	-	-	-	-	-	-
Supplier 32	47,249	20,000	-	-	-	50,000	-	-	81,503	164,653
Supplier 33	362,580	374,666	374,666	338,408	374,666	-	67,382	80,000	-	-
Supplier 34	90,000	93,000	93,000	84,000	93,000	90,000	93,000	90,000	93,000	93,000
Supplier 35	-	-	-	-	-	-	-	-	-	-
Supplier 36	-	-	-	-	-	-	-	-	-	-
Total	2,139,722	2,774,819	2,638,051	2,422,073	2,430,956	1,842,773	2,304,255	2,116,815	2,185,953	2,184,530

Philadelphia Gas Works
Forecasted Summary of Total Fuel Purchased
January 2020-August 2021

Storages

	1/1/2020: Jan	2/1/2020: Feb	3/1/2020: Mar	4/1/2020: Apr	5/1/2020: May	6/1/2020: Jun	7/1/2020: Jul	8/1/2020: Aug	9/1/2020: Sep	10/1/2020: Oct
SS1A										
Injections	\$ 678	\$ -	\$ 678	\$ 8,233	\$ 17,014	\$ 16,465	\$ 17,014	\$ 17,014	\$ 16,465	\$ 17,014
Withdrawal	\$ 23,538	\$ 73,048	\$ 20,082	\$ 24,114	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332
Demand	\$ 300,665	\$ 300,665	\$ 300,665	\$ 300,665	\$ 300,665	\$ 300,665	\$ 300,665	\$ 300,665	\$ 300,665	\$ 300,665
Total Charges	\$ 427,212	\$ 476,045	\$ 423,756	\$ 433,343	\$ 420,011	\$ 419,462	\$ 420,011	\$ 420,011	\$ 419,462	\$ 420,011
SS1B										
Injections	\$ 630	\$ -	\$ -	\$ 7,043	\$ 14,556	\$ 14,087	\$ 14,556	\$ 14,556	\$ 14,087	\$ 14,556
Withdrawal	\$ 40,621	\$ 42,991	\$ 20,722	\$ 12,851	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,182
Demand	\$ 142,120	\$ 142,120	\$ 142,120	\$ 142,120	\$ 142,120	\$ 142,120	\$ 142,120	\$ 142,120	\$ 142,120	\$ 142,120
Total Charges	\$ 278,553	\$ 280,293	\$ 258,024	\$ 257,197	\$ 251,858	\$ 251,388	\$ 251,858	\$ 251,858	\$ 251,388	\$ 251,858
GSSTE										
Injections	\$ 1,167	\$ -	\$ 913	\$ 7,024	\$ 14,516	\$ 14,048	\$ 14,516	\$ 14,516	\$ 14,048	\$ 14,516
Injections/Retention F	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Withdrawal	\$ 8,103	\$ 9,319	\$ 6,795	\$ 5,496	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825
Demand	\$ 63,661	\$ 63,661	\$ 63,661	\$ 63,661	\$ 63,661	\$ 63,661	\$ 63,661	\$ 63,661	\$ 63,661	\$ 63,661
Total Charges	\$ 129,756	\$ 129,805	\$ 128,194	\$ 133,006	\$ 135,002	\$ 134,534	\$ 135,002	\$ 135,002	\$ 134,534	\$ 135,002
Total Injection Charges	\$ 2,475	\$ -	\$ 1,590	\$ 22,300	\$ 46,086	\$ 44,599	\$ 46,086	\$ 46,086	\$ 44,599	\$ 46,086
Total Injections/Retention	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Withdrawal Charges	\$ 72,261	\$ 124,358	\$ 47,598	\$ 42,461	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capacity Charges	\$ 254,338	\$ 254,338	\$ 254,338	\$ 254,338	\$ 254,338	\$ 254,338	\$ 254,338	\$ 254,338	\$ 254,338	\$ 254,338
Total Demand Charges	\$ 506,446	\$ 506,446	\$ 506,446	\$ 506,446	\$ 506,446	\$ 506,446	\$ 506,446	\$ 506,446	\$ 506,446	\$ 506,446
	\$ 835,521	\$ 886,143	\$ 809,973	\$ 823,545	\$ 806,871	\$ 803,384	\$ 806,871	\$ 806,871	\$ 805,384	\$ 806,871

Forecasted Summary of Firm Transportation

Texas Eastern Demand	\$ 3,027,490	\$ 3,006,200	\$ 3,004,826	\$ 3,003,495	\$ 3,002,121	\$ 3,000,769	\$ 2,999,416	\$ 2,998,042	\$ 2,996,604	\$ 2,995,638
Capacity Release Credits	\$ (160,034)	\$ (149,710)	\$ (160,034)	\$ (316,872)	\$ (327,434)	\$ (316,872)	\$ (327,434)	\$ (327,434)	\$ (1,912,639)	\$ (1,976,394)
Net Total	\$ 2,867,456	\$ 2,856,490	\$ 2,844,791	\$ 2,686,623	\$ 2,674,687	\$ 2,683,897	\$ 2,671,982	\$ 2,670,608	\$ 1,083,965	\$ 1,019,244
Total Demand Charges	\$ 2,867,456	\$ 2,856,490	\$ 2,844,791	\$ 2,686,623	\$ 2,674,687	\$ 2,683,897	\$ 2,671,982	\$ 2,670,608	\$ 1,083,965	\$ 1,019,244

Storages

	11/1/2020: Nov	12/1/2020: Dec	1/1/2021: Jan	2/1/2021: Feb	3/1/2021: Mar	4/1/2021: Apr	5/1/2021: May	6/1/2021: Jun	7/1/2021: Jul	8/1/2021: Aug
SS1A										
Injections	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,046	\$ 18,694	\$ 18,091	\$ 18,694	\$ 18,694
Withdrawal	\$ -	\$ 22,343	\$ 56,685	\$ 48,160	\$ 48,175	\$ 2,059	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332	\$ 102,332
Demand	\$ 300,665	\$ 300,665	\$ 300,665	\$ 300,665	\$ 300,665	\$ 300,665	\$ 300,665	\$ 300,665	\$ 300,665	\$ 300,665
Total Charges	\$ 402,997	\$ 425,340	\$ 459,682	\$ 451,157	\$ 451,172	\$ 414,101	\$ 421,691	\$ 421,088	\$ 421,691	\$ 421,691
SS1B										
Injections	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,800	\$ 16,502	\$ 16,065	\$ 16,765	\$ 16,751
Withdrawal	\$ 332	\$ 25,349	\$ 47,823	\$ 43,195	\$ 41,360	\$ -	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,182	\$ 95,182
Demand	\$ 142,120	\$ 142,120	\$ 142,120	\$ 142,120	\$ 142,120	\$ 142,120	\$ 142,120	\$ 142,120	\$ 142,120	\$ 142,120
Total Charges	\$ 237,634	\$ 262,651	\$ 285,125	\$ 280,497	\$ 278,662	\$ 245,101	\$ 253,804	\$ 253,367	\$ 254,067	\$ 254,055
GSSTE										
Injections	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,133	\$ 17,715	\$ 14,266	\$ 14,742	\$ 14,742
Injections/Retention F	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Withdrawal	\$ 1,087	\$ 13,591	\$ 14,776	\$ 12,389	\$ 9,174	\$ 728	\$ -	\$ -	\$ -	\$ -
Capacity	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825	\$ 56,825
Demand	\$ 63,661	\$ 63,661	\$ 63,661	\$ 63,661	\$ 63,661	\$ 63,661	\$ 63,661	\$ 63,661	\$ 63,661	\$ 63,661
Total Charges	\$ 121,573	\$ 134,078	\$ 135,263	\$ 132,875	\$ 129,660	\$ 128,347	\$ 138,201	\$ 134,752	\$ 135,228	\$ 135,228
Total Injection Charges	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,978	\$ 52,911	\$ 48,423	\$ 50,201	\$ 50,188
Total Injections/Retention	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Withdrawal Charges	\$ 1,419	\$ 61,284	\$ 119,284	\$ 105,744	\$ 98,709	\$ 2,787	\$ -	\$ -	\$ -	\$ -
Total Capacity Charges	\$ 254,338	\$ 254,338	\$ 254,338	\$ 254,338	\$ 254,338	\$ 254,338	\$ 254,338	\$ 254,338	\$ 254,338	\$ 254,338
Total Demand Charges	\$ 506,446	\$ 506,446	\$ 506,446	\$ 506,446	\$ 506,446	\$ 506,446	\$ 506,446	\$ 506,446	\$ 506,446	\$ 506,446
	\$ 762,204	\$ 822,069	\$ 880,069	\$ 864,529	\$ 859,494	\$ 787,550	\$ 813,696	\$ 809,208	\$ 810,986	\$ 810,972

Forecasted Summary of Firm Transportation

Texas Eastern Demand	\$ 2,994,672	\$ 2,993,320	\$ 2,992,354	\$ 2,991,388	\$ 2,990,357	\$ 2,989,391	\$ 2,988,425	\$ 2,987,416	\$ 2,986,450	\$ 2,985,484
Capacity Release Credits	\$ (1,358,555)	\$ (965,968)	\$ (965,968)	\$ (872,487)	\$ (160,034)	\$ (316,872)	\$ (327,434)	\$ (316,872)	\$ (327,434)	\$ (327,434)
Net Total	\$ 1,636,138	\$ 2,027,352	\$ 2,026,386	\$ 2,118,901	\$ 2,830,323	\$ 2,672,519	\$ 2,660,991	\$ 2,670,544	\$ 2,659,016	\$ 2,658,050
Total Demand Charges	\$ 1,636,138	\$ 2,027,352	\$ 2,026,386	\$ 2,118,901	\$ 2,830,323	\$ 2,672,519	\$ 2,660,991	\$ 2,670,544	\$ 2,659,016	\$ 2,658,050

CAPACITY RELEASE (Dth)

	TRANSCO		TETCO		TETCO		TETCO		TOTAL DOLLARS		TOTAL VOLUMES	
	VOLUMES	DOLLARS	VOLUMES	DOLLARS	VOLUMES	DOLLARS	VOLUMES	DOLLARS	TRANSCO	TETCO	TRANSCO	TETCO
Sep-19	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	-	-
Oct-19	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	-	-
Nov-19	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	-	-
Dec-19	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	-	-
Jan-20	310,000	\$ 46,500	1,066,896	\$ 160,034	-	\$ -	-	\$ -	\$ 46,500	\$ 160,034	310,000	1,066,896
Feb-20	290,000	\$ 43,500	998,064	\$ 149,710	-	\$ -	-	\$ -	\$ 43,500	\$ 149,710	290,000	998,064
Mar-20	310,000	\$ 46,500	1,066,896	\$ 160,034	108,000	\$ 162,000	-	\$ -	\$ 46,500	\$ 160,034	310,000	1,174,896
Apr-20	300,000	\$ 45,000	1,032,480	\$ 154,872	1,080,000	\$ 162,000	-	\$ -	\$ 45,000	\$ 316,872	300,000	2,112,480
May-20	310,000	\$ 46,500	1,066,896	\$ 160,034	1,116,000	\$ 167,400	-	\$ -	\$ 46,500	\$ 327,434	310,000	2,182,896
Jun-20	300,000	\$ 45,000	1,032,480	\$ 154,872	1,080,000	\$ 162,000	-	\$ -	\$ 45,000	\$ 316,872	300,000	2,112,480
Jul-20	310,000	\$ 46,500	1,066,896	\$ 160,034	1,116,000	\$ 167,400	-	\$ -	\$ 46,500	\$ 327,434	310,000	2,182,896
Aug-20	310,000	\$ 46,499	1,066,896	\$ 160,034	1,116,000	\$ 167,400	-	\$ -	\$ 46,499	\$ 327,434	310,000	2,182,896
TOTAL Sept 19 - Aug 20	2,440,000	\$ 365,999	8,397,504	\$ 1,259,626	5,616,000	\$ 826,200			\$ 365,999	\$ 2,085,826	2,440,000	14,013,504

CAPACITY RELEASE (Dth)

	TRANSCO		TETCO		TETCO		TOTAL DOLLARS		TOTAL VOLUMES	
	VOLUMES	DOLLARS	VOLUMES	DOLLARS	VOLUMES	DOLLARS	TRANSCO	TETCO	TRANSCO	TETCO
	Contract 3691		Contract 800232		Contract 800515-514					
					Paid					
Sep-20	300,000	\$ 271,620	1,032,480	\$ 934,807	1,080,000	\$ 977,832	\$ 271,620	\$ 1,912,639	300,000	2,112,480
Oct-20	310,000	\$ 280,674	1,066,896	\$ 965,968	1,116,000	\$ 1,010,426	\$ 280,674	\$ 1,976,394	310,000	2,182,896
Nov-20	300,000	\$ 271,620	1,032,480	\$ 934,807	468,000	\$ 423,727	\$ 271,620	\$ 1,358,535	300,000	1,500,480
Dec-20	310,000	\$ 280,674	1,066,896	\$ 965,968	-	\$ -	\$ 280,674	\$ 965,968	310,000	1,066,896
Jan-21	310,000	\$ 280,674	1,066,896	\$ 965,968	-	\$ -	\$ 280,674	\$ 965,968	310,000	1,066,896
Feb-21	280,000	\$ 253,512	963,648	\$ 872,487	-	\$ -	\$ 253,512	\$ 872,487	280,000	963,648
Mar-21	310,000	\$ 46,500	1,066,896	\$ 160,034	-	\$ -	\$ 46,500	\$ 160,034	310,000	1,066,896
Apr-21	300,000	\$ 45,000	1,032,480	\$ 154,872	1,080,000	\$ 162,000	\$ 45,000	\$ 316,872	300,000	2,112,480
May-21	310,000	\$ 46,500	1,066,896	\$ 160,034	1,116,000	\$ 167,400	\$ 46,500	\$ 327,434	310,000	2,182,896
Jun-21	300,000	\$ 45,000	1,032,480	\$ 154,872	1,080,000	\$ 162,000	\$ 45,000	\$ 316,872	300,000	2,112,480
Jul-21	310,000	\$ 46,500	1,066,896	\$ 160,034	1,116,000	\$ 167,400	\$ 46,500	\$ 327,434	310,000	2,182,896
Aug-21	310,000	\$ 46,500	1,066,896	\$ 160,034	1,116,000	\$ 167,400	\$ 46,500	\$ 327,434	310,000	2,182,896
TOTAL Sept 20 - Aug 21	3,650,000	1,914,774	12,561,840	6,589,886	8,172,000	3,238,186	\$ 1,914,774	\$ 9,828,072	3,650,000	20,733,840

Tab 5

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY
COMMISSION

DIRECT TESTIMONY OF

KENNETH S. DYBALSKI

ON BEHALF OF
PHILADELPHIA GAS WORKS

Docket No. R-2020-3017934

Philadelphia Gas Works
Proposed 2019 Annual GCR Adjustment

March 2, 2020

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1 **I. INTRODUCTION**

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

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

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

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

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

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

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

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

22

23

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

3 A. A. Yes, I submitted testimony for the PGW 1307f Annual GCR Filings in
4 Docket Nos. R-2019-3007636, R-2018-2645938, R-2017-2587526, R-2016-
5 2526700, R-2015-2465656, R-2014-2404355, R-2013-2346376, R-2012-
6 2286447, R-2011-2224739, R-2010-20157062, R-2009-2088076, and R-2008-
7 2021348. I have also submitted testimony in PGW's last base rate proceeding
8 (Docket No. R-2017-2586783), in PGW's previous base rate proceeding (Docket
9 No. R-2009-2139884) and PGW's 2008 Extraordinary Rate Request (Docket No.
10 R-2008-2073938).

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

12 A. First, I describe PGW's rate design and Gas Cost Rate (GCR) calculation
13 methodology. Second, I describe the level of heating degree-days utilized in this
14 filing. Third, I identify the methodology for determining the number of customers
15 and calculating firm sales. Fourth, I discuss the calculation for the Unaccounted
16 for Adjustment Factor (UAF). Fifth, I discuss Off System Sales and Capacity
17 Release credits. Sixth, I discuss the updated study that supports the validity of its
18 peak day methodology. Lastly, I will discuss the reasonableness of PGW's gas
19 costs.

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

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

23 A. PGW's GCR on September 1, 2019 was \$4.6030 / Mcf and this rate was increased
24 in the Company's first quarterly GCR filing on December 1, 2019 to \$4.7175.
25 PGW's second quarter GCR filing, also submitted to the PUC concurrently with

1 this filing, decreases the GCR to \$3.9009 effective March 1, 2020. The proposed
2 rate to be effective September 1, 2020 is \$4.2529.

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

5 A. Tab 2 of this filing contains the schedules supporting the filing requirements of
6 Section 53.64(a) for the proposed GCR for the period September 1, 2020 through
7 August 31, 2021.

- 8 • Schedule 1 identifies the Levelized Gas Cost Rate. Specifically, this
9 schedule identifies the GCR Firm Sales Volumes in Mcfs (“S”), Total
10 Applicable GCR Expense (“C”), and adjustments for Prior Year
11 Reconciliation and Interest (“E”). An adjustment is also included for the
12 Interruptible Revenue Credit (IRC). Additionally, this schedule calculates
13 the company’s total projected recovery plus the load balancing revenue
14 and LNG sales demand revenue to determine if these rates adequately
15 cover the Net Applicable GCR Expense (a Net Over/Under Recovery
16 amount is displayed to prove the calculation). Schedule 1a details the Price
17 to Compare for the PGW rate classes.
- 18 • Schedule 2 identifies the calculation of GCR Firm Sales in Mcfs (“S”) and
19 the Applicable Volumes. The company utilizes Total Volumes and
20 subtracts the volumes associated with Firm Transportation, Interruptible
21 Sales, LNG Sales and AC Sales to arrive at GCR Firm Sales (“S”). Also
22 included in Schedule 2 are the Applicable Volumes which is comprised of
23 GCR Firm Sales less 20% of the sales attributable to Senior Citizens
24 (Senior Citizen Discount Sales) plus the Firm Transportation Volumes.

- 1 • Schedule 3 identifies the Projected Applicable Fuel Expense. Specifically,
2 this schedule identifies PGW’s Net Natural Gas Expense and Total
3 Applicable Expenses. To arrive at the Net Natural Gas Expense, the total
4 cost of commodity and pipeline charges for firm sales are calculated per
5 month. Two credits are then applied for the portion of gas costs recovered
6 from PGW’s Interruptible Sales customers (i.e. the “Interruptible & Firm
7 A/C Credit”) and for gas used by PGW (i.e. “Gas Used by Utility”). Next,
8 the Company calculates the net effect of gas supplies being transferred
9 into and out of storage and LNG. The result is the Net Natural Gas
10 Expense. To arrive at the Total Applicable Expenses in Schedule 3, the
11 fuel expenses for Purchased Electric and miscellaneous are added to the
12 Net Natural Gas Expenses to arrive at Total Applicable Expenses.
- 13 • Schedule 4(a) is the actual/estimated data for FY 20. Schedule 4(b) is the
14 C factor Reconciliation for FY 20. Schedule 4(c) is the E factor
15 Reconciliation for FY 20. Schedule 4(d) is the IRC Revenue Billed for FY
16 20. Schedule 4(e) is the Reconciliation of Demand Charges for FY 20.
- 17 • Schedule 5(a) (“Interest Calculation”) provides the calculation of the
18 interest expense or credit for the period of September 2019 through
19 August 2020 for the under/over recovery of fuel costs and the interest for
20 the natural gas refunds. Schedule 5(b) (“Interest on Natural Gas Refunds”)
21 provides information on historic refunds that have been received by the
22 Company resulting from various cases before the Federal Energy
23 Regulatory Commission and the interest on these refunds. Schedule 5(c)

1 provides the calculation of the interest for the demand and commodity
2 charges.

- 3 • Schedule 6 presents the load balancing revenue for the forecast period of
4 September 2020 to August 2021.
- 5 • Schedule 7 calculates total projected recovery with the proposed GCR.
- 6 • Schedule 8 shows the changes in rates identifying the proposed changes to
7 the GCR and distribution charge and the impact on the proposed total
8 commodity rate.
- 9 • Schedule 9(a) shows the calculation of the Universal Service & Energy
10 Conservation Surcharge to be effective September 1, 2020. Schedule 9(b)
11 is the reconciliation of the Universal Service & Energy Conservation
12 Surcharge for period of September 2019 to August 2020.
- 13 • Schedule 10(a) shows the calculation of the Interruptible Revenue Credit
14 to be effective September 1, 2020. Schedule 10(b) is the forecasted
15 Interruptible Revenue Margin for Fiscal Year 2021. Schedule 10(c) is the
16 reconciliation of the Interruptible Revenue Credit for Fiscal Year 2019.
- 17 • Schedule 11(a) shows the calculation of the Other Post Employment
18 Benefit (OPEB) Surcharge to be effective September 1, 2020. Schedule
19 11(b) is the reconciliation of the OPEB Surcharge for Fiscal Year 2019.
- 20 • Schedule 12(a) shows the calculation of the Efficiency Cost Recovery
21 Surcharge to be effective September 1, 2020. Schedule 12(b) shows the
22 reconciliation of the Efficiency Cost Recovery Surcharge for the Fiscal
23 Year 2020.

- 1 • Schedule 13(a) is the calendar year 2019 reconciliation of the Load
2 Balancing Charge and Schedule 13(b) is the 2019 Load Balancing
3 Expense and Interest Calculation.
- 4 • Schedule 14 sets the load balancing charge to be effective September 1,
5 2020 which is a decrease from last year.
- 6 • Schedule 15 identifies the natural gas prices that were used in the
7 preparation of this filing.
- 8 • Schedule 16 is the annual reconciliation of the retainage rate and lost and
9 unaccounted for rate.
- 10 • Schedule 17(a) is the forecasted over/(under) recovery of the
11 Restructuring and Consumer Education Surcharge on September 1, 2020;
12 Schedule 17(b) is the Restructuring and Consumer Education Surcharge
13 FY 18 Reconciliation; and Schedule 17(c) is the Restructuring and
14 Consumer Education Expense.

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

17 A. PGW's forecast period is a twenty (20) month period that commences on January
18 1, 2020 (two months before this filing) and eight months before the effective date
19 of the tariff on September 1, 2020. The 2020-21 GCR year is from September 1,
20 2020 to August 31, 2021, however, since the required forecast covers 20 months,
21 it must begin eight months earlier, consistent with Commission regulations.

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

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

4 A. The volumetric rates charged to PGW's customers are the distribution charge and
5 the Gas Cost Rate plus the Merchant Function Charge (MFC) and Gas
6 Procurement Charge (GPC). The distribution charge consists of the Delivery
7 Charge; the Universal Service and Energy Conservation Surcharge; the Other Post
8 Retirement Benefit Surcharge; the Efficiency Cost Recovery Surcharge; and
9 Restructuring and Consumer Education Surcharge. The Universal Service and
10 Energy Conservation Surcharge provides for the recovery of Customer
11 Responsibility Program (CRP) discounts; Senior Citizen Discounts; the costs of
12 the Enhanced Low Income Retrofit Program (ELIRP); CRP arrearage forgiveness
13 and the Conservation Incentive Credit. The Other Post Retirement Benefit
14 Surcharge recovers the amount to fund these obligations. The Efficiency Cost
15 Recovery Surcharge recovers the cost of the energy efficiency programs.

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

20 Generally, the cost of gas purchased to serve the requirements of PGW's
21 customers constitutes the largest single item in the delivered price of gas. In the
22 past, all natural gas costs were recovered through base rates (distribution charge).
23 However, in the early 1970's, the price of gas lost its stability and underwent rapid
24 escalation during and after a worldwide oil crisis. To combat this instability and

1 prevent the economic harm to all parties caused by regulatory lag in reflecting
2 these price fluctuations in base rates, the concept of a fuel adjustment surcharge
3 mechanism was introduced by PGW. This mechanism provides the flexibility to
4 rapidly reflect current conditions without the time delay inherent in a full-scale
5 base rate alteration. The intent is to achieve an annual balance of the costs
6 incurred for fuel and its pass-through to customers. The costs for pipeline
7 transportation, storage capacity and related fuel prices charged by the interstate
8 pipeline suppliers are largely outside of distributor control. The Public Utility
9 Commission oversees the pass-through of these charges and the balancing
10 activity. The Gas Cost Rate Section in PGW's Tariff identifies the appropriate
11 formula for such a balance and the charges that may be recovered through this
12 mechanism. Charges for natural gas and other raw materials are included in the
13 GCR. In addition, the interest expense for the over or under recovery of gas costs
14 and natural gas refunds are also included in the GCR. No labor or profit
15 component is added by PGW. The GCR represents the direct pass-through of
16 actual costs incurred.

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

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

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

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

15 A. The pricing methodology utilized by the Company is consistent with that used in
16 the recent quarterly filings with the inclusion of the additional months in the 20-
17 month forecast. Specifically, the company utilized actual prices for January 2020
18 and the NYMEX Futures close data (as of January 15, 2020) for the 19 forecast
19 months of February 2020 through August 2021.

20 **Q. HOW DOES THE GCR FOR THE FORECAST PERIOD COMPARE**
21 **WITH THE GCR FORECASTED IN THE COMPANY'S LAST ANNUAL**
22 **GCR FILING?**

23 A. The GCR forecasted for 2020-2021 is lower than the level PGW had forecasted
24 for the 2019-2020 GCR. The level of costs in the 2019-2020 period are being
25 influenced by the decrease in costs compared to the prior year.

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

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

4 A. The Company utilizes the temperatures recorded at the PGW Richmond Plant to
5 calculate the average temperature for a given day. The Company subtracts the
6 average temperature from 65 degrees to calculate the number of degree-days for
7 the day. The degree-days for all of the days in the year are aggregated to arrive at
8 the total number of degree-days for the year. Next, the Company calculates the
9 average heating degree-days for the past 20 years to arrive at the forecasted
10 heating degree-days in a normal year and in this filing PGW is using the 20 year
11 average of 3,962 degree days.

12 **V. METHODOLOGY FOR DETERMINING NUMBER OF CUSTOMERS**
13 **AND CALCULATING FIRM SALES**

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

16 A. PGW determined the actual number of customer billings on December 31, 2019
17 using the PGW Gas Sales and Revenue Reports. Next, the Marketing Department
18 load forecast was used to factor in the addition and loss of customers. Finally, the
19 customer numbers were adjusted for the loss of customers due to non-payment
20 terminations.

21 **Q. WHAT IS THE METHODOLOGY FOR CALCULATING THE WEATHER**
22 **NORMALIZED BILLED SALES?**

23 A. PGW used a two-step process to arrive at the appropriate level of usage per
24 customer. First, a trial domestic factor is developed by class of customers from
25 sales reported for the previous year's summer months. This average factor is then
26 utilized in the sendout formula with the customer counts for the months of July,

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

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

17 Utilizing these domestic and heating factors, billed sales are then
18 forecasted using 3,962 degree days and the number of customers.

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

20 **Q. WHAT IS THE UNACCOUNTED FOR GAS PERCENTAGE USED IN**
21 **THIS FILING?**

22 **A.** The level of unaccounted for gas and retainage rate used in this filing is 2.7 % and
23 is based on a 3-year average.

24

VII. OFF SYSTEM SALES AND CAPACITY RELEASE CREDITS

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

5 A. PGW has projected the amount of off system sales, capacity release credits, and
6 asset management credits within the GCR period of 2020-21. This amount is
7 based on a 3 year average. Of that amount, \$11,742,846 was credited to the GCR.

VIII. UPDATED STUDY IN SUPPORT OF PEAK DAY METHODOLOGY

9 **Q. IN THE SETTLEMENT OF PGW'S FY 2020 GCR PROCEEDING PGW**
10 **AGREED IN THIS CASE "TO PRESENT AN UPDATED STUDY ... THAT**
11 **SUPPORTS THE VALIDITY OF PGW'S PEAK DAY METHODOLOGY."**
12 **(R- 2019-3007636 JOINT PETITION FOR SETTLEMENT, PARA.**
13 **III.3. PLEASE EXPLAIN PGW'S COMPLIANCE WITH THIS**
14 **REQUIREMENT.**

15 A. In 53.64 (c) (13) which is tab #12 of the February 1, 2020 Volume 2 Filing, PGW
16 provides its Peak Day Analysis, Peak Day Regression Model Review and an
17 updated study from Siemens that validates PGW's peak day methodology.

IX. REASONABLENESS OF GAS COSTS

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

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

X. CONCLUSION

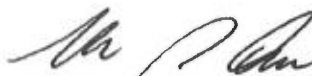
26 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

27 A. Yes.

VERIFICATION

I, Kenneth S. Dybalski, hereby state that: (1) I am the Vice President-Energy Planning & Technical Compliance for Philadelphia Gas Works (“PGW”); (2) the facts set forth in my testimony are true and correct (or 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).

Date: March 2, 2020



Kenneth S. Dybalski
Vice President-Energy Planning & Technical
Compliance
Philadelphia Gas Works

Tab 6

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

DIRECT TESTIMONY OF

JOHN C. ZUK

ON BEHALF OF
PHILADELPHIA GAS WORKS

Docket No. R-2020-3017934

Philadelphia Gas Works
Proposed 2021 Annual GCR Adjustment

March 2, 2020

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1 **I. INTRODUCTION**

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

3 A. My name is John C. Zuk. My position with Philadelphia Gas Works (“PGW” or
4 “Company”) is Senior Vice President of Gas Management.

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

6 A. I received a Bachelor of Science degree in Business Administration from LaSalle
7 University in 1996. I have also received a Master’s degree in Business Administration
8 from LaSalle University in 2004. I have held the following positions at PGW:
9 Distribution Workman, Distribution Operator, Field Service Technician up to the level of
10 Specialist, Supervisor Field Service, Director Field Operations and Customer Affairs
11 Labor Relations, Major Account Executive-Marketing, Manager of Major Accounts-
12 Marketing, Director of Major Accounts-Marketing and VP-Marketing, and VP Gas
13 Processing Acquisitions and Gas Control.

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

15 A. I develop and monitor long-term Gas Management strategic plan that ensures PGW has
16 the financial resources and assets to execute its business strategy, Advance policies,
17 procedures and practices that ensure safe, reliable, competitively priced gas supplies and
18 other energy resources to meet current and future demands on PGW’s systems, and
19 analyze the overall long-term capital and operating budget plans for Gas Management.

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

22 A. No

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

24 A. My testimony discusses:

- 1 ● PGW’s gas purchasing policies and strategies applicable to FY 2021 (September
- 2 1, 2020 through August 31, 2021) and FY 2020 (September 1, 2019 through
- 3 August 31, 2020);
- 4
- 5 ● PGW’s design day requirement;
- 6 ● Price analysis and buying advisory service;
- 7

8 **Q. PLEASE PROVIDE A GENERAL DESCRIPTION OF PGW’S GAS**
 9 **DISTRIBUTION SYSTEM.**

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

18 **Q. PLEASE IDENTIFY PGW’S CURRENT INTERSTATE SUPPLIERS.**

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

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

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

26 A. Yes.

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

2 A. PGW's supply strategy¹ (which is currently being used during the FY 2020 GCR period
3 and which the Company intends to use for the FY 2021 GCR period) is a portfolio
4 approach in both contract structure and pricing. The portfolio approach of purchasing gas
5 supply allows PGW to remove some of the volatility in purchasing natural gas supplies
6 for its ratepayers. Without the use of the portfolio approach, firm ratepayer would be
7 totally at the mercy of market volatility.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6 **Q. HAS PGW EMPLOYED ANY NEW METHODS OF REDUCING THE COST OF**
7 **GAS SINCE PGW'S LAST GCR PROCEEDING?**

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

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

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

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

2 A. PGW is currently involved in five (5) arrangements, and is evaluating the possibly of
3 entering into more.

4 **Q. HOW MUCH OF A DISCOUNT DOES PGW RECEIVE BY ENTERING THESE**
5 **ARRANGEMENTS?**

6 A. The discount depends on financial market conditions at the time the arrangement is
7 entered into. The discounts were set by the companies managing the arrangement (and
8 PGW is informed of the level of discount before it enters into the arrangement). The
9 discount from index currently averages approximately thirty cents.

10 **Q. HOW DOES THIS IMPACT PGW'S RATEPAYERS?**

11 A. With this discount, PGW can purchase gas at a lower price and the cost savings are
12 passed along to the ratepayer via the GCR.

13 **Q. HOW MUCH IS PGW PROJECTING RATEPAYERS WILL SAVE EACH YEAR**
14 **FROM THESE PREPAID GAS PURCHASE ARRANGEMENTS?**

15 A. For FY 2020, PGW will save approximately \$2.3 Million dollars for gas sales customers
16 as a result of prepaid gas purchase arrangements. PGW is predicting that gas sales
17 customers will save approximately \$2.4 Million in fiscal year 2021 from the five prepaid
18 deals.

19 **Q. HOW MUCH OF PGW'S GAS SUPPLY WILL BE PURCHASED VIA PREPAID**
20 **GAS ARRANGEMENTS?**

21 A. Currently, PGW is purchasing approximately 16% of its supply from prepaid gas
22 arrangements.

23 **Q. ARE PGW'S PREPAID GAS ARRANGEMENTS REFLECTED IN THE**
24 **PROPOSED GAS COST RATE FOR FY 2021?**

25 A. Yes.

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

3 A. Yes. The 2018-2019 gas costs and the gas costs incurred to date during the 2019-2020
4 period are the result of the least cost gas procurement strategy outlined in my testimony
5 and are therefore reasonable.

6 **III. DESIGN DAY REQUIREMENT**

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

8 A. Details of PGW's design day methodology and an account of the 2019/2020 winter
9 design day requirement can be found in the responses to items 3.64(c)(13) and
10 53.64(c)(14) which were provided in PGW's February 1, 2020 GCR filing.

11 **Q. IN THE SETTLEMENT OF PGW'S FY 2020 GCR PROCEEDING PGW**
12 **AGREED IN THIS CASE "TO PRESENT AN UPDATED STUDY ...THAT**
13 **SUPPORTS THE VALIDITY OF PGW'S PEAK DAY METHODOLOGY." (R-**
14 **2019-3007636 JOINT PETITION FOR SETTLEMENT, PARA. III.3.) HAS PGW**
15 **COMPLIED WITH THIS SETTLEMENT COMMITMENT?**

16 A. Yes. Mr. Dybalski's testimony references and explains the updated study.

17 **IV. CAPACITY RELEASE, OFF-SYSTEM SALES MARGIN AND ASSET**
18 **MANAGEMENT CREDITS/FEES**

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

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

1 asset management margins/credits/fees² with the remaining 75% applied as an offset to
 2 purchased gas costs for the following GCR proceedings and retention periods:

GCR Proceeding	Docket No.	Retention Period
2013-2014	R-2013-2346376	9/1/13 to 8/31/14
2014-2015	R-2014-2404355	9/1/14 to 8/31/15
2015-2016	R-2015-2465656	9/1/15 to 8/31/16
2016-2017	R-2016-2526700	9/1/16 to 8/31/17
2017-2018	R-2017-2587526	9/1/17 to 8/31/18
2018-2019	R-2018-2645938	9/1/18 – 8/31/19
2019-2020	R-2019-3007636	9/1/19 to 8/31/20

4
 5 The Company also agreed to include an off-system sales margin, capacity release credit
 6 and asset management margins/credits/fees retention proposal for the Purchased Gas Cost
 7 period(s) beginning on September 1, 2019 in its March 1, 2019 annual 1307(f) filing.

8 **Q. DOES PGW HAVE A RETENTION PROPOSAL FOR THE PERIODS**
 9 **BEGINNING ON SEPTEMBER 1, 2020?**

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

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

16 A. Yes. Six of the largest NGDCs have sharing mechanisms similar to PGW’s and the
 17 sharing percentage for all of the NGDCs is 25%.

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

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

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

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

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

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

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

13 A. Planalytics provides the following services:

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

23 **Q. WHAT WAS INCORPORATED INTO PGW'S 2019-2020 GCR PROCEEDING**
24 **SETTLEMENT AGREEMENT WITH REGARD TO THE PLANALYTICS**
25 **ENERGY BUYER SERVICES?**

26 A. PGW agreed to the following:

1 PGW is permitted to recover the Planalytics fee for price analysis and
2 buying advisory services (not to exceed \$125,000) for the 2019-2020 Gas
3 Cost Rate period. Continued recovery of the fee beyond the 2019-2020
4 GCR period must be addressed in next year's Purchased Gas Cost
5 proceeding.
6

7 **Q. DOES PGW WISH TO CONTINUE THE PLANALYTICS BUYING ADVISORY**
8 **SERVICES?**

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

14 **VI. GAS SUPPLY PURCHASES**

15 **Q. WHERE DID PGW PURCHASE NATURAL GAS SUPPLY ON THE TEXAS**
16 **EASTERN TRANSMISSION CORPORATION ("TETCO") PIPELINE IN FY**
17 **2020?**

18 A. 100% of all baseload and swing supply purchases on the "TETCO" pipeline were from
19 Market Zone M-2 in FY 2019. In 2020, PGW bought 82% of their winter baseload out of
20 M-2 and 18% of their winter baseload out of ETX. PGW bought 100% of the their swing
21 contracts out of M-2.

22 Due to the growth of PGW's Choice program, PGW has experienced a limitation
23 on the amount of gas that can be purchased at M-2 30" receipt point. PGW was hoping
24 to purchase baseload gas on M-2 24" receipt point and M-2 Crayne receipt point
25 however, PGW did not receive any offers during its RFP process for gas at that locations.
26 PGW opted to purchase gas ETX to flow on the 24" side of the TETCO pipeline to
27 secure that baseload and swing supplies would not be limited.

IVII. CONCLUSION

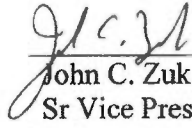
2 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

3 **A. Yes it does.**

VERIFICATION

I, John C. Zuk, hereby state that: (1) I am the Senior Vice President of Gas Management for Philadelphia Gas Works ("PGW"); (2) the facts set forth in my testimony are true and correct (or 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).

Date: 2-26-2020



John C. Zuk
Sr Vice President Gas Management
Philadelphia Gas Works

Tab 7

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

DIRECT TESTIMONY OF

DENISE ADAMUCCI

On Behalf of
Philadelphia Gas Works

Docket No. R-2020-3017934

Philadelphia Gas Works
Proposed 2021 Annual GCR Adjustment

March 2, 2020

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1 **I. INTRODUCTION AND BACKGROUND**

2 **Q. PLEASE STATE YOUR NAME AND TITLE.**

3 A. My name is Denise Adamucci and I am the Vice President of Regulatory Compliance and
4 Customer Programs at Philadelphia Gas Works (“PGW”).

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

6 A. Approximately seven years.

7 **Q. PLEASE EXPLAIN YOUR JOB RESPONSIBILITIES.**

8 A. I manage PGW’s Pennsylvania Public Utility Commission (“PUC” or “Commission”)
9 regulatory compliance and customer facing programs sections in customer affairs.

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

11 A. I have an MA in English Literature from Arizona State University and a JD from Boston
12 University School of Law. Prior to my current position, I worked as an attorney for
13 approximately fourteen years. I worked in private practice at Manta and Welge, and then
14 at Klett Rooney Liber & Schorling (acquired by Buchanan Ingersoll & Rooney).
15 Subsequently, I worked in PGW’s legal department as a senior attorney.

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

2 A. Yes. I provided written testimony in the following cases before the Commission:

3 PGW's Demand Side Management Program proceeding,¹ PGW's most recent base rate
4 case;² and PGW's 2019-2020 Annual Gas Cost Rate ("2019-2020 GCR") case.³

5 **Q. WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY?**

6 A. The purpose of my testimony is to provide an update and information regarding PGW's
7 Conservation Incentive Pilot ("CIP") program consistent with the Commission approved
8 settlement of PGW's 2019-2020 GCR proceeding.⁴ More specifically, I will provide: (1)
9 some background information about PGW's CIP and indicate why PGW does not plan to
10 continue the CIP beyond the previously approved 2020 program year; and, (2) a report
11 regarding the weather normalization process, including how PGW considered and
12 incorporated issues identified by the Office of Consumer Advocate ("OCA") regarding
13 the weather normalization process as part of the calculation for the 2019 CIP credit.

¹ *Petition of Philadelphia Gas Works for Approval of Demand-Side Management Plan for FY 2016-2020, and Philadelphia Gas Works Universal Service and Energy Conservation Plan for 2014-2016*, 52 Pa. Code § 62.4 – Request for Waivers, Docket No. P-2014-2459362, Final Opinion and Order entered November 1, 2016.

² *Pennsylvania Public Utility Commission v. Philadelphia Gas Works*, Docket No. R-2017-2586783, Opinion and Order entered November 8, 2017.

³ *Pennsylvania Public Utility Commission v. Philadelphia Gas Works*, Docket No. R-2019-3007636, Order entered August 8, 2019 ("2019-2020 GCR Final Order").

⁴ *Id.* Ordering Paragraphs 10-16 at 3-4.

1 **II. BACKGROUND INFORMATION ABOUT PGW'S CONSERVATION**
 2 **INCENTIVE PILOT ("CIP") AND FUTURE PLANS REGARDING THE PILOT**

3 **Q. PLEASE PROVIDE SOME BACKGROUND ON PGW'S CURRENTLY**
 4 **APPROVED UNIVERSAL SERVICE AND ENERGY CONSERVATION PLAN**
 5 **("USECP") AND THE PILOT CIP.**

6 A. Pursuant to statutory and Commission requirements related to low-income customer
 7 assistance programs and energy conservation,⁵ PGW provides a proposed Universal
 8 Service and Energy Conservation Plan ("USECP") as directed by the Commission and
 9 staff from the Bureau of Consumer Services ("BCS").⁶ PGW's currently effective
 10 "2017-2020 USECP" covers the program plan period of January 1, 2017 through
 11 December 31, 2020 and was approved by the Commission on October 5, 2017.⁷

12 PGW agreed as part of the Commission-approved settlement of its 2009-2010
 13 base rate case to develop a proposal to create a positive incentive to encourage
 14 conservation by CRP participants.⁸ In its 2014-2016 USECP,⁹ PGW proposed the pilot
 15 CIP. As ultimately approved by the Commission, eligible CRP participants receive a bill
 16 credit of \$100 if they achieve usage reductions as follows:

- 17 • Reduction by 10% or more of their weather normalized usage during the prior
 18 November through April period for customers who did not receive PGW
 19 provided weatherization services in the prior two years; or,

⁵ See 66 Pa. C.S. §§ 2202 and 2203(8); and, 52 Pa. Code §§ 69.261-60.267.

⁶ The currently applicable universal service plan and independent evaluation schedule was established pursuant to a Secretarial Letter dated June 27, 2014.

⁷ *Philadelphia Gas Works Universal Service and Energy Conservation Plan for 2017-2020 Submitted in Compliance with 52 Pa. Code § 62.4*, Order approving August 31, 2017 revised 2017-2020 USECP entered October 5, 2017.

⁸ *Pennsylvania Public Utility Commission v. Philadelphia Gas Works*, Docket No. R-2019-2139884, Opinion and Order entered July 29, 2010 at 15-18.

⁹ *Philadelphia Gas Works Universal Service and Energy Conservation Plan for 2014-2016 Submitted in Compliance with 52 Pa. Code § 62.4*, Docket No. M-2013-2366301, Final Order entered August 22, 2014 ("Final Order 2014-2016 USECP"). PGW filed its 2014-2016 USECP on June 1, 2013.

- Reduction by 20% or more of their weather normalized usage during the prior November through April period for customers who did receive PGW provided weatherization services in the prior two years.

Q. WHAT IS THE CURRENT PLAN PERIOD FOR THE CIP?

A. The plan period for PGW’s current Commission-approved USECP is from January 1, 2017 through December 31, 2020, consistent with the plan period for the 2017-2020 USECP. As part of the USECP, PGW also committed to developing a “Reason Analysis” for apparent excess energy use to inform its decision about whether to make changes to the structure of the program or to discontinue it as part of PGW’s next USECP filing.

Q. HAS THE COMMISSION RECENTLY DIRECTED PGW TO EXTEND THE CURRENT TERM OF ITS 2017-2020 USECP?

A. Yes, the Commission waived the requirement that PGW file a 2021-2023 USECP on May 1, 2020 to enable PGW to file an addendum to its existing USECP indicating how it would comply with the Commission’s policy changes to the CAP Policy Statement.¹⁰ The effect of this decision is to extend PGW’s current USECP by an additional two years – through December 31, 2022.

¹⁰ *Universal Service and Energy Conservation Plan (USECP) Filing Schedule and Independent Evaluation Filing Schedule*, Docket No. M-2019-3012601, Order entered October 3, 2019 at 11, 13 (“*USECP Filing Schedule Order*”); *2019 Amendments to Policy Statement on Customer Assistance Program*, 52 Pa. Code § 69.261 – 69.267, Docket No. M-2019-3012599, Final Policy Statement and Order entered November 5, 2019 at 100 (“*CAP Policy Statement Final Order*”).

1 **Q. HOW HAS PGW COMPLIED WITH THE DIRECTIVES OF THE**
2 **COMMISSION'S ORDERS FROM THE FALL OF 2019?**

3 A. On January 6, 2020, PGW filed a letter ("Letter") and an Amended USECP to include the
4 extended years the 2017-2020 USECP will cover.¹¹ Included with the Amended USECP
5 is the Commission's requested 2021 and 2022 enrollment and budgetary projections as
6 well as other changes needed to accommodate the two year extension. Consistent with
7 subsequent direction from the Commission, PGW has filed a Petition For Expedited
8 Approval Of PGW's Letter Request To Amend Its Universal Service And Energy
9 Conservation Plan Pursuant To 2019 Amendments To Policy Statement At Docket No.
10 M-2019-3012599.¹²

11 **Q. IS PGW PROPOSING TO CONTINUE THE PILOT CIP BEYOND THE**
12 **INITIALLY APPROVED USECP PROGRAM PERIOD OF 2020?**

13 A. No. In the Amended USECP, PGW does not propose to continue the CIP Pilot beyond
14 the initially approved program period of 2020.¹³

15 **Q. WHY IS PGW PROPOSING IN ITS AMENDED USECP TO DISCONTINUE**
16 **THE PILOT CIP AFTER DECEMBER 31, 2020?**

17 A. Based on PGW's experience with the pilot, we have identified some preliminary issues
18 with a financial "award" incentive for energy savings. One of these issues is determining
19 the reason for the energy savings since many things other than active household
20 conservation attempts can impact usage. These include changes in household
21 composition. Another issue is how to analyze normal household variation in usage and

¹¹ *Addendum to Philadelphia Gas Works Universal Service Plan for 2017-2020*, dated January 6, 2020 filed at Docket No. M-2016-2542415. ("Amended USECP").

¹² See *Philadelphia Gas Works Petition to Amend or Modify Universal Service and Energy Conservation Plan*, Docket No. P-2020-3018867.

¹³ *Amended USECP* at 28-29.

1 set a baseline of usage for the comparison. In general, motivational programs do not
2 necessarily impact usage and this is consistent with our experience with the pilot CIP. In
3 a telephone survey of customers who received the incentive credit in 2018, only 14% of
4 customers who had already been paid the incentive stated that they had heard of the
5 incentive program prior to the survey. Regardless of the fact that most recipients were
6 unaware of the program, four out of five respondents indicated that they had taken steps
7 to reduce their usage. These results suggest that the pilot CIP included a significant
8 number of “free riders” who received the incentive credit even though they were reducing
9 usage on their own with the incentive of the program.

10 In addition, PGW’s non-CRP ratepayers already contribute significant funding for
11 PGW’s USECP which includes almost \$8 million annually for PGW’s Low Income
12 Usage Reduction Program. Given this spending, PGW believes discontinuing the pilot
13 CIP – which has not shown to directly lead to a usage reduction – is in the best interest of
14 its ratepayers. Further, in PGW’s Letter and subsequent Petition, PGW is proposing a
15 pilot program consistent with the Commission’s stated policy position regarding CAP
16 programs. The pilot program would modify the percentages of income paid by CRP
17 customers and, if approved, may significantly increase in the costs of PGW’s USECP,
18 which are paid by PGW’s non-low income ratepayers. The consideration of all these
19 factors leads PGW to conclude that discontinuance of the pilot CIP is reasonable.

20 **Q. IS PGW PROPOSING TO CONVENE ANY FURTHER STAKEHOLDER**
21 **PROCESS ABOUT THE PILOT CIP IN ADVANCE OF ITS NEXT USECP**
22 **FILING?**

23 A. No. As explained previously, PGW’s current USECP program period is being extended
24 by two years pursuant to Commission direction and PGW has proposed the elimination of
25 the pilot CIP as part of its Amended USECP. PGW’s amended USECP has been served

1 on all the parties at the 2014-2016 USECP docket. Since cost recovery for the pilot CIP
2 incentive credits was a part of PGW's 2019-2020 GCR proceeding, PGW has elected to
3 update the status of the program in this proceeding.

4 **III. PILOT CIP COST RECOVERY AND CALCULATION OF CREDIT**
5 **INCENTIVES**

6 **Q. HOW DOES PGW RECEIVE COST RECOVERY FOR ITS UNIVERSAL**
7 **SERVICE PROGRAMS?**

8 A. PGW's General Service Tariff – Pa P.U.C. No. 2 includes a Commission-approved
9 Universal Service and Energy Conservation (“USC”) Surcharge which is designed to
10 recover costs associated with PGW's USECP.¹⁴

11 **Q. HOW ARE THE USC SURCHARGE FACTORS COMPUTED?**

12 A. As noted in the tariff, these USC factors are computed in accordance with the automatic
13 adjustment procedures utilized under Section 1307(f) of the Public Utility Code and are
14 submitted for approval as part of PGW's annual GCR filing. PGW's files its annual GCR
15 on March 1 of each year which: (1) provides the details of PGW's actual costs for the
16 prior 12 month GCR period (ending on December 31); and, (2) provides PGW's forecast
17 for the future GCR period (which includes the 20 month period of January 1 through the
18 end of the GCR period which is August 31 of the following year). PGW Witness
19 Kenneth Dybalski discusses how the costs related to PGW's USC have been calculated
20 for purposes of this GCR filing.

¹⁴ Philadelphia Gas Works Gas Service Tariff – Pa P.U.C. No. 2 Eightieth Revised Page No. 81 effective December 1, 2019.

1 **Q. DID PGW RECEIVE APPROVAL IN THE 2019-2020 GCR PROCEEDING TO**
2 **INCLUDE RECOVERY OF THE COSTS OF ITS CONSERVATION INCENTIVE**
3 **PROGRAM THROUGH THE GCR?**

4 A. Yes. In the 2019-2020 GCR proceeding, PGW was permitted to recover its 2017 and
5 2018 CIP credit expenses (to be amortized over a two-year period) as well as its costs for
6 2019 and on a going forward basis.¹⁵

7 **Q. PLEASE DETAIL THE CREDIT INCENTIVES THAT HAVE BEEN ISSUED**
8 **FOR 2017, 2018 AND 2019.**

9 A. As a result of the November 2016 through April 2017 analysis, PGW provided bill
10 credits of \$100 to 3,371 CRP participants for a total payment of \$337,100 in CIP credit
11 incentives for 2017. As a result the November 2017 through April 2018 query, PGW
12 provided bill credits of \$100 to 7,862 CRP participants for a total payment of \$786,200 in
13 CIP credit incentives for 2018. As a result of the November 2018 through April 2019
14 analysis, PGW provided bill credits of \$100 to 2,276 CRP participants for a total payment
15 of \$227,600 in CIP credit incentives for 2019.

16 **Q. HAS PGW RECOVERED THE COSTS OF THESE CIP CREDIT INCENTIVES?**

17 A. Yes, PGW has recovered the costs of the 2017 and 2018 CIP credit incentives through the
18 GCR quarterly filings. The costs of the 2019 CIP credit incentives will also be
19 recovered. Mr. Dybalski's testimony provides more detail.

20 **Q. WILL PGW ISSUE CIP CREDIT INCENTIVES FOR 2020?**

21 A. Yes. The amount of those credits will not be known until approximately the fall of 2020.
22 If the Commission approves PGW's Amended USECP to discontinue the pilot CIP, these
23 will be the last credit incentives PGW plans to issue. If, however, if the Commission

¹⁵ 2019-2020 GCR Final Order, Ordering Paragraphs 12 and 15 at 3-4.

1 does not approve the request to discontinue, then PGW would continue to recover the
 2 costs of the Pilot CIP incentive credits via the Universal Service and Energy
 3 Conservation Surcharge so long as they are paid.

4 **Q. HOW DOES PGW DETERMINE WHO RECEIVES THE INCENTIVE CREDIT?**

5 A. PGW runs a query to compare: (1) the gas consumption of eligible CRP participants for
 6 the prior November to April period; with, (2) their usage during that same time period for
 7 the previous year. Usage is weather normalized and only customers who were
 8 participating in CRP at the same house for the entire November to April are considered
 9 eligible.

10 **Q. IN CALCULATING THE AMOUNT OF THE CREDIT FOR 2019, DID PGW**
 11 **REVIEW AND ADDRESS THE OCA'S ISSUES REGARDING THE WEATHER**
 12 **NORMALIZATION PROCESS?**

13 A. Yes. PGW did review the issues raised by OCA. Based on this review, changes were
 14 made in identifying the incentive-eligible customers, including some statistical tests that
 15 were recommended by Green Energy Economics Group. These include:

- 16 • The monthly usage used to calculate the weather normalized usage was based
 17 on the estimated or actual meter read for each month. Usage from months
 18 before or after the review periods were excluded from the analysis.
- 19 • Base-load usage was for six months instead of twelve.
- 20 • The long-term HDD63 factor was modified to 3511, which reflected the
 21 average HDD63 for January, February, March, April, November, and
 22 December for the years 2009-2018.
- 23 • Data was used to manually apply statistical tests on the normalized usage for
 24 each customer to ensure the following:
 - 25 ○ Base load was greater than -5 MMBtus
 - 26 ○ The R² value for the customer's linear regression was at least 0.75
 - 27 ○ The effects of outliers, as measured by the normalized Root of Mean
 28 Squared Errors was less than 35%
- 29 • PGW also performed checks on HDD data used for all customers to be sure
 30 there were no issues with it, such as missing data.

1 IV. CONCLUSION


2 Q. DOES THIS COMPLETE YOUR DIRECT TESTIMONY?

3 A. Yes.

VERIFICATION

I, Denise Adamucci, hereby state that: (1) I am the Vice President of Regulatory Compliance and Customer Programs for Philadelphia Gas Works ("PGW"); (2) the facts set forth in my testimony are true and correct (or 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).

Date: 2.19.20



Denise Adamucci
Vice President Regulatory Compliance and
Customer Programs
Philadelphia Gas Works