

Docket R-2023-XXXXXXX

Volume 2

Philadelphia Gas Works

Before The

Pennsylvania Public Utility Commission

**Computation of Annual Purchased Gas Costs
For Twelve Months Ending August 31, 2024**

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.**

February 1, 2023

Philadelphia Gas Works 1307(f) - 2023 Prefiling

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Philadelphia Gas Works

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

Item 53.64(c)

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

- (5) A listing and updating, if necessary, of projections of gas supply and demand provided to the Commission for any purpose—see § 59.67 (relating to formats). In addition, provide an accounting of the difference between reported gas supply available and gas supply deliverable—including storage—from the utility to its customers under various circumstances and time periods.

Response:

Please see the attached document. PGW's next Annual Resource Planning Report (Forms 1 and 2) is due for submission to the Commission on March 1, 2023, and an updated Annual Resource Planning Report is not available at this time.

ANNUAL RESOURCE PLANNING REPORT

Philadelphia Gas Works

Philadelphia, Pennsylvania

March 2022

Forms 1 & 2

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

**Philadelphia Gas Works
800 West Montgomery Avenue
Philadelphia, Pennsylvania 19122**

ANNUAL RESOURCE PLANNING REPORT
MARCH 2022

Forms 1 & 2

**Information Submitted in Compliance with and Pursuant to Title 52
Pennsylvania Code Section 59.81**

PHILADELPHIA GAS WORKS

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<u>EXHIBIT NO.</u>	<u>REGULATION</u>	<u>DESCRIPTION</u>
1	59.81	General
2	59.81	Forms IRP-Gas 1A, and 1B Annual and Peak Day Energy Demand
3	59.81	Forms IRP-Gas 2A, 2B, and 2C Annual and Peak Day Energy Resources, And transmission and storage contracts

Section 59.81: **General**

Pursuant to Section 59.81 (a), each major jurisdictional gas utility must file an annual resource planning report (ARPR) on or before June 1, 1996 and June 1 of each succeeding year, except Form 1A/2A which filing date is March 1. The report must be submitted to:

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

One courtesy copy should also be submitted to:

Pennsylvania Public Utility Commission
Conservation, Economics and Energy Planning
P.O. Box 3265
Harrisburg, PA 17105-3265

Also submit one (1) copy to the following:

Office of Consumer Advocate
555 Walnut Street
Forum Place, 5th Floor
Harrisburg, PA 17101-1921

Office of Small Business Advocate
Suite 202, Commerce Building
300 N. Second Street
Harrisburg, PA 17101

Be sure to indicate the name and telephone number of at least one individual at the company who is familiar with the filing and will be available to answer any questions the Commission staff may have. You may also wish to list those individuals who are directly involved in the preparation of the various document components.

Information contained in annual resource planning reports must be utility-specific. The report should follow an outline similar to that which is contained herein, with narrative accompanying the required data. Forms may be modified to accommodate wide columns of numbers and enhance readability, but the general format should be used to maintain consistency.

This information is not generally considered confidential. Utilities are obligated to provide complete information. However, we will treat as confidential those portions of the report designated by the utility as proprietary. If a utility's proprietary claim is challenged, the Commission will direct the utility to file a petition for protective order pursuant to 52 PA Code 5.423.

All questions concerning the reporting requirements for Forms IRP Gas 1A through 9 should be addressed to Pennsylvania Public Utility Commission Bureau of Conservation, Economics and Energy Planning.

Response:

Forms 1A, 1B, 2A, 2b, and 2C along with a general discussion of the methodologies, data sources, and assumptions are being submitted to meet the requirements of the March 1 filing.

All questions concerning the ARPR should be directed to Mr. Florian Teme Vice President, Marketing & Gas Planning at 215-684-6463. The following individual is available to answer questions concerning Forms 1 and 2: Mrs. Meriola Gjergo, Manager – Gas Planning & Rates at (215) 684-6484.

Section 59.81 **Forms IRP-Gas 1A, and 1B – Annual and Peak Day Demand**

The load growth projections shall reflect the effects of price elasticity, market induced conservation, building and appliance efficiency standards, and the effects of the utility's existing and planned conservation and load management activities.

Response: Please see the attached documentation and forms.

Section 59.81

Forms IRP-Gas 2A, 2B and 2C - Annual and Peak Day Energy Resources, Transmission and Storage Contracts

The forecast of energy sources shall indicate sources of all presently available and new supplies which the utility estimates will become available, displayed by component parts.

Response:

Please see the attached documentation and forms.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

**PHILADELPHIA GAS WORKS
800 WEST MONTGOMERY AVENUE
PHILADELPHIA, PENNSYLVANIA**

Annual Resource Planning Summary Report

Filed: March 2022

**Information Submitted in Compliance with and Pursuant to Title 52
Pennsylvania Code Sections 59.81-59.84**

PHILADELPHIA GAS WORKS

2022 Annual Resource Planning Summary Report

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Introduction

By Order entered January 11, 1996, the Pennsylvania Public Utility Commission (PUC) adopted final regulations (52 PA Code §§ 59.81 - 59.84) which set forth revised requirements for filing an Annual Resource Planning Report (the Plan). The Plan submitted represents Philadelphia Gas Works' (PGW or the Company) belief that integrated resource planning (IRP) is a workable approach to utility planning.

This plan summary contains historical data and projections for annual, winter and peak day supply to meet projected customer requirements in a least cost manner, while ensuring adequate and reliable service. It is organized into the following five sections:

- Section I. PGW's Overall Approach to Integrated Resource Planning

- Section II. Supply Forecasting Methodology and Assumptions

- Section III. Demand Forecasting Methodology and Assumptions

- Section IV. Design Day Forecasting Methodology and Assumptions

- Section V. PGW Corporate Modeling System

Section I. PGW's Overall Approach to Integrated Resource Planning

PGW Optimization Standard for Purchasing and Utilizing Gas Supplies

As reasonably anticipated PGW intends on meeting its contractual obligations to supply all of its current firm customers in its service territory on the coldest day, throughout the heating season and throughout the year. Projected customer requirements for design day and design winter conditions form the basis for capacity commitments for pipeline supply, storage, and transportation contracting.

Natural gas supplies are purchased under a portfolio approach with PGW intending to secure the lowest overall price consistent with the corporate goals of reliability and security of supply. In addition, consideration is given to maintaining a diversity of sources and types of supply, coupled with contractual and operational flexibility on both a daily and seasonal basis. Short term purchases from spot market sources are utilized to the maximum degree that they are more economical, available, and transportable.

Natural gas supplies are utilized so as to minimize gas costs subject to reliability constraints. Supply contract obligations are honored and prudent Gas Control operational requirements are assumed. Storage gas is drawn down so as to always maintain an inventory level sufficient for the remaining winter in the event that design temperature conditions should occur in the remaining segment of the winter season. Within the above parameters, priority is given to utilizing the most economical sources of supply first within the context of preserving the capability of meeting seasonal and annual demands rather than the momentary daily requirements. All facilities and sources of supply – flowing, storage and LNG – are available to achieve the intended end, namely, minimizing gas costs subject to reliability constraints.

Section II. Supply Forecasting Methodology and Assumptions Basic Assumptions

The PGW Gas Supply Policy Committee, comprised of senior corporate management as well as Gas Planning, Gas Control, Gas Supply, and Regulatory departmental management, approved the aforementioned Optimization Standard for Purchasing and Utilizing Gas Supplies (Section I). All natural gas purchases continue to be made in accordance with this standard. Projected sales, revenues and natural gas expenses in this report result from this agreement, particularly in the areas of inventory valuation, priorities of gas selection and interruptible supply availability.

Incorporated into PGW's projections are additional implementation steps involved with developing a cohesive gas supply/demand strategy for the near term and the longer range. These include developing a cost relationship comparison for current resources and a review of current contract terms and alternatives for continuing, extending, modifying or eliminating contracts. In order to achieve this while maintaining a balance between economics and security of supply, the Company uses a portfolio strategy approach. This approach incorporates a menu driven selection of services which allows the Company to choose only those specific services necessary to meet its requirements. This is achieved by taking into consideration transportation capacity rights and then sources of supply are contracted to cover the firm transport rights over differing seasonal obligations.

Operating flexibility is sustained by variations in contract stipulations to permit the system to swing on the most economical gas supplies available while maintaining the ability to supply rapidly fluctuating temperature requirements. Storage facilities are substituted wherever opportunity affords to reduce annual expense for flowing 365 day pipeline service without reducing design day and design winter season delivery capability. Direct control of all storage is paramount to permit PGW to minimize winter costs by injecting lower priced purchases and to cycle storage to balance daily take fluctuations to avoid overrun/balancing charges.

PGW's supply strategy incorporates maintaining full current winter day deliverability with regard to transportation capacity but to convert, where possible, to storage rather than winter flowing contracts to enhance financial and operational flexibility. A variety of longer term supply contracts are necessary to support pipeline transportation capacity because reliance upon best

effort spot suppliers to fill wintertime supply requirements to meet firm customers' demands has proven to be an unreliable alternative. As a result, longer-term contracts are utilized to support firm transportation capacity. To accomplish this end, the Company purchases winter supply contracts with daily deliverability equal to approximately 37% of the contractual daily transportation entitlements on its two interstate pipelines with direct connections to PGW's service territory. Additionally, these supply contracts match the contractual entitlements of the two pipelines by sourcing supply in a manner consistent with the pipeline's upstream contractual requirements. In this way, PGW not only helps ensure the security of supply by sourcing the gas from geographically diverse supply regions, but this diversity also allows PGW to take advantage of the pricing basis differential inherent in these supply locations.

These contracts all contain the ability to fix the price for upcoming months as well as to allow the pricing to default to an agreed upon market index when there is no market advantage in fixing a price before the month begins. PGW uses this fixed price option in conjunction with its Gas Cost Rate (GCR) filing (the GCR filing includes pricing based upon the NYMEX) by always attempting to buy under the GCR forecasted prices. Through the matching of the duration supply contracts to a seasonal demand, such as the winter operating season, the firm ratepayers benefit from not paying demand charges year-round.

A second component of PGW's supply portfolio, or a volume equal to 27% of pipeline capacity, is purchased gas based on the daily midpoint price published in "Platt's Gas Daily". These contracts allow for daily change in volumetric take. This allows the Company to effectively shut-off higher priced supply, replacing such supply with daily cheaper spot priced gases. Under assumed normal winter conditions, PGW utilizes WSS storage field in a manner similar to third party supply. Specifically, this storage contract does not contain transportation to the PGW city gate. Therefore, these storages must flow within PGW's contractual upstream capacity rights on TGPL.

Delivery from these fields utilizes approximately 8% of the daily TETCO and TGPL capacity rights to the Philadelphia city gates. These storage fields also act as a physical fixed price to counter winter price conditions since the WACOG usually reflects a winter/summer pricing

differential. Additionally, PGW purchases 17% of its supply using day purchases as needed and releases eleven percent (11%) of its capacity to its choice suppliers.

PGW's summer purchasing strategy also incorporates a portfolio approach to the purchase of system supply and storage refill. The GCR filing is again used as a yardstick in purchasing supply for both system supply and storage refill. PGW attempts to always purchase a portion of its supply needs below the projected GCR cost estimate with a portion of the portfolio purchased at default, first-of-the-month pricing. These first of the month pricing option contracts, in most instances, allow PGW to evaluate daily spot prices and provide for a turn-off of first-of-the-month index priced supply in favor of the purchase of more advantageous daily spot purchases.

Operating conditions permitting, the Company enters into the FERC approved capacity release market to offset demand charges it pays for its firm transportation and the incremental off-systems sales market when it is economically advantageous for the firm ratepayer. In both instances, these opportunities are sought only when firm customer needs are satisfied.

Additionally, PGW's bundled storages and LNG can be utilized as a substitute for higher price gas supply based on market pricing conditions and the results of PGW's status report.

Effectively, the Gas Supply Group is at all times studying the market for any economic advantage it can bring to the firm ratepayer.

Section III. Demand Forecasting Methodology and Assumptions Basic Assumptions

PGW uses a combination of four basic methods to develop demand projections. They are:

- 1) Historical Data -- data showing long-term demand trends, conservation and utilization patterns by the various classes of customers -- Residential, Commercial, Industrial and Interruptible.
- 2) Customer Survey -- Information as gathered by PGW's Marketing Department and used for annual projections by month and year.
- 3) Relative End Use -- Projections via Marketing methods of customer load sizing by appliance type, maximum input, maximum summer and winter full load hour (FLH) calculations which are used to develop yearly and monthly demand requirements.
- 4) Judgment -- Experienced opinion as applied to the evaluation of the combination of all data to develop the basic demand requirements.

Customer Demand

The total system-wide demand is a function of the projected gas demand per customer and the anticipated number of customers in each class. In determining customer demand, consideration is given to projecting current customer usage, augmented by significant gains or losses in each of numerous homogeneous groups for the period being projected. The Gas Planning Department attempts to determine for each customer class, the level of demand relating to experienced temperatures and the component of demand that is apparently not affected by changes in temperature. Within each class the summer and winter usage patterns are established from historical records. Summer data provides an insight into each class of customers' non-temperature sensitive load requirements, or baseload, which can be expressed in terms of thousands of cubic feet (Mcf) per day, per customer. Similarly, winter data, after removal of the daily baseload level, provides the temperature sensitive load requirements for each class of customer.

This usage primarily reflects space heating but also includes such other temperature sensitive needs as water heating attributable to colder ground water inlet temperatures and similar process variations. This overall heating requirement can be expressed in terms of the cubic feet of gas

utilized per degree of temperature change on a per customer basis for each separate customer classification.

In addition, consideration must be given to the variation of customer utilization patterns for space heating over the year, recognizing the transitional fall start-up of heaters, the deep winter period needs and the tapering off and shut-down which occurs in the spring. These usage patterns taken in conjunction with anticipated customer counts and appropriate temperature patterns form the basis of determining class and total system demands. Due to the inconsistencies of weather and weather forecasting techniques, no attempt is made to predict the specific daily temperatures of the projection period. Instead, PGW has developed a normal monthly temperature pattern by analyzing statistical records of actual temperature patterns over a 20-year period. This pattern reflects 3,893 degree-days annually distributed in a stylized pattern preserving the monthly range of colder to warmer daily temperatures experienced in the January to May period and warmer to colder daily temperatures in the September to December period.

The term "degree days" quantifies the number of degrees of temperature below a base level of 65 degrees Fahrenheit and is used as a tool to measure space heating requirements, i.e. on a day experiencing an average temperature of 40 degrees Fahrenheit, there would be 25 degree days. The annual 3,893 degree days, which are composed of the PGW normal monthly temperature patterns, form the basis of the calculation of the temperature sensitive component of demand. The application of the above described baseload, space heating factors and customer counts, when applied to a calendar based daily temperature pattern, produce a daily calculation of total customer requirements identified as sendout. It should be noted that there is a difference between sendout volume and sales volume. Sendout represents those volumes metered at the city gate to supply customers' requirements while sales are those volumes registered on customer meters. The variation between sendout and sales, after adjustments, is that portion which is lost and unaccounted for in the PGW distribution system.

Sales and sendout differ on a monthly basis in the degree day distribution pattern. For efficiency, meter reading and billing efforts are distributed uniformly over the available number of working days in a month and the majority of PGW customers are divided into 20 individual

groups or cycles containing residential, commercial and industrial accounts within a specific geographic area. When these cycle customers are billed each month they reflect meter reading usage not for the calendar month being billed, but for the number of days and temperature pattern of degree-days experienced during their specific interval between meter readings. For example, assume the month of January contained 900 calendar degree-days. The customers in cycle 10 being billed for the month of January might have had meter readings taken on December 15 and again on January 17. Sales billed and reported in the Company records for these customers would reflect the number of days and degree days between these reading dates rather than the 900 degree days of the month. Similarly, cycle 1 customers that might have had meter readings taken on December 1 and January 2 would reflect principally the month of December temperature experience, whereas, cycle 20 customers with meter readings taken possibly December 28 and January 29 would reflect principally the month of January temperature experience.

An average of the 20 cycles (Average Cycle Degree-Days) is used as the temperature pattern upon which to project the volume of sales in the forecast period. Both projections of sales and sendouts represent the full demand for that period from both firm and interruptible customers.

Methodology Used to Develop Monthly Estimates

A trial domestic factor is developed by classes of customers from sales reported for the summer months in the previous year. This average factor is then utilized in the sendout formula with the customer counts for the months of July, August and September. A comparison between what the formula calculates and the actual experienced for those three months is ascertained and the trial domestic (baseload) factors are finalized to replicate the total sendout experienced.

The finalized domestic factors (DOMs) are then utilized in conjunction with the actual sales and customer counts for the months of December, January and February to determine the average Mcf per degree day for each of the individual months for the remaining temperature sensitive load. The results are weighted by degree-days to give an average value which is utilized as a trial value for the heating factor.

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

To project the number of customers for each individual rate class, each rate class of customers are reviewed and accumulated individually. Current customers are ascertained from the number of billings data available from sales and revenue actually experienced immediately prior to the commencement of a model run. Declines are projected for anticipated losses to electric and other fuels, demolitions and transfers to other rates. Direct transfers from a non-heating to a heating account, as a result of a current customer's conversion to gas heat, moves the domestic load to the new category. Projected additional customers are developed by the Marketing Department where staff dealing with individual classes of customers and having the most direct knowledge of conditions within their expertise, project annual load additions which are translated into customer counts based upon typical customer usage for that individual customer class. The approximate month of turn-on is also developed to permit reflection of the effective portion of the load addition within the fiscal period under study. Interruptible class customers, as well as other large special accounts, are detailed individually incorporating expected gains and losses as direct contact and experience has indicated.

The base revenue projections for both firm and interruptible customer groups are derived as the product of the projected sales volumes and the present tariff rate for each individual customer class within each group. The GCR revenue projections are derived as the product of the GCR factor and the projected sales volumes to the firm GCR customers.

Section IV. Design Day and Design Hour Forecasting Methodology and Assumptions

Each year, a six year estimate of Design Day and Design Hour requirements anticipated under design day and design hour operating conditions is prepared to ensure that adequate resources are under contract and to further ensure that PGW can fulfill its supply obligation for its firm customer requirements on a design day and design hour.

The projected demands for design day are developed utilizing previous winter periods data for all weekdays where the temperature average for the day is 32 degrees Fahrenheit or below. The total sendout for these days as recorded under actual conditions and is reduced to firm sendout by removal of the interruptible load. A computer generated linear regression procedure is utilized to develop a sendout model from actual daily sendouts and degree days, and the process is repeated in a quadratic regression and a cubic regression procedure. From the predicted sendouts in the regression, which are within a reasonable percent of error to the actual sendout, factors are derived to replicate the actual sendouts. The factors derived from this are used to determine the current load requirements for a 0 degrees Fahrenheit day and from this data, the load for a -5 degrees Fahrenheit hour is calculated. PGW's Marketing Department's load projections for present and future years are then applied to these requirements to develop design day and design hour present and future load requirements. This is achieved by the addition of the projected marketing load growth on an annual basis (by day) to the derived base-year design day requirements.

Section V. PGW Corporate Modeling System

General Description

The Corporate Modeling System is a tool used by PGW management to project sales, revenues and expenses, as well as to examine key planning strategies and evaluate their effects on company operations. The system provides the ability to determine the results of alternate plans and scenarios, while at the same time allowing for responses to "what if" type situations quantifying revenue and expenses. The system combines the power of the computer with the experience of management to develop both short and long range projections based upon experienced historical data for sales and sendout volumes, raw material expenses and revenues. The corporate model system is composed of five separate parts. Each part operates independently but requires substantial external data inputs as well as data output results from one or more of the other parts in the system.

Gas Demand Model

The Gas Demand Model is used to forecast total requirements for gas based upon current customer usage experience with adjustments for projected gains and losses. Input data includes domestic and space heating usage factors, customer counts by rate classifications, temperature patterns and results in projections of sales and sendout volumes. Detail and summary reports include sales and sendout by rate classification. This data is then used by the Gas Supply Model.

Gas Supply Model

The Gas Supply Model is used to dispatch the various supply sources in accordance with contract availability limitations. It develops the necessary balance between supply and demand, which reflects plant fuel and storage injection requirements, as well as customer demands by identifying the availability of interruptible load balancing sales. Detail and summary reports include daily and monthly load requirements, the volumes taken from each source by pipeline contract, storage balances, LNG requirements, etc.

This model is also used to determine natural gas and other raw material costs dispatched. The model tracks the various cost components of each contract – the demand, capacity, commodity, injection and withdrawal charges – providing monthly and annual details and summary information including inventory valuations and expenses for supplemental LNG supplies. This data is then used by the Gas Cost Rate Model.

Gas Cost Rate Model

The Gas Cost Rate Model is used to develop the GCR. This model, in conjunction with the Gas Supply Model, ascribes responsibility for the raw material costs to firm rate classes in accordance with PGW's tariff requirements, and compensates for the Interruptible Revenue Credit, interest, gas transportation Supplier Storage Peaking and migration charges and the previous over or under billing of fuel expenses. The GCR is then used by the Revenue Model.

Revenue Model

The Revenue Model is used to project billed revenue by rate classification in accordance with PGW's rate tariffs. It prepares the net billed revenue, GCR revenues, senior citizen discounts, and cycle billing information all detailed by rate classification. The detail and summary reports provided by this model are directed to the accounting and financial departments for inclusion in various financial reviews.

Summary

The Corporate Modeling System allows PGW management to effectively address supply/demand balancing, supply facilities planning, projected sales, cost, revenues, and sendout volumes. Results assist in the development of PGW's annual Operating Budget, setting of the GCR and planning of supply resources.

The model also provides a Status Report for the evaluation of remaining winter period requirements on both normal and design temperature patterns and the extrapolation of the current year based upon the experience to date and an assumption of temperatures anticipated for the remaining period of the year, this latter acting as a guide for both financial cash flow planning and winter operations.

**FORM-IRP-GAS-1A: ANNUAL GAS REQUIREMENTS
REPORTING UTILITY: PHILADELPHIA GAS WORKS
(VOLUMES IN MMcf)**

Index Year Actual Year	Historical Data		Current Year	Three Year Forecast		
	-2 2019-2020	-1 2020-2021	0 2021-2022	1 2022-2023	2 2023-2024	3 2024-2025
Firm Requirements:						
Retail Residential	31,576	32,148	33,521	35,330	35,274	35,254
Retail Commercial	7,012	7,696	8,288	8,170	8,123	8,080
Retail Industrial	399	447	423	414	409	403
Electric Power Generation	-	-	-	-	-	-
Exchanges with Other Utilities	-	-	-	-	-	-
Unaccounted For Gas	740	978	1,409	2,325	2,314	2,329
Company Use	209	296	173	254	254	254
Other - Prior Period Adjustment	-	-	-	-	-	-
Subtotal Firm	39,937	41,564	43,814	46,493	46,372	46,319
Interruptible Requirements:						
Retail	588	492	471	257	257	257
Electric Power Generation	-	-	-	-	-	-
Company's Own Plant	57	51	97	129	129	129
Unaccounted For Gas	20	14	14	6	6	6
Subtotal Interruptible	664	557	581	392	392	392
SUBTOTAL FIRM AND INTERRUPTIBLE	40,601	42,121	44,396	46,885	46,765	46,711
Transportation:						
Firm Residential	1,504	1,535	1,939	2,204	2,344	2,484
Firm Commercial	4,300	4,012	4,210	4,351	4,402	4,454
Firm Industrial	351	376	417	450	455	461
Interruptible Residential	-	-	-	-	-	-
Interruptible Commercial	7,502	6,881	6,637	6,594	6,594	6,594
Interruptible Industrial	5,549	5,065	5,034	4,897	4,897	4,897
Other - Non-Utility Power Producers	12,721	13,239	13,242	13,655	13,655	13,655
Subtotal Transportation	31,927	31,109	31,479	32,151	32,348	32,545
TOTAL GAS REQUIREMENTS	72,528	73,230	75,875	79,036	79,112	79,256
Increase (Decrease)	(5,834)	702	2,645	3,161	76	143
Percent Change (%)	-7.44%	0.97%	3.61%	4.17%	0.10%	0.18%

**FORM-IRP-GAS-1B:PEAK DAY REQUIREMENTS
REPORTING UTILITY: PHILADELPHIA GAS WORKS
(VOLUMES IN MMcf)**

Index Year Actual Year	Historical Data		Current Year ⁽²⁾	Three Year Forecast ⁽¹⁾		
	-2 2019-2020	-1 2020-2021	0 2021-2022	1 2022-2023	2 2023-2024	3 2024-2025
Firm Requirements:						
Retail Residential	279	303	441	464	463	463
Retail Commercial	62	72	109	107	107	106
Retail Industrial	4	4	6	5	5	5
Electric Power Generation	-	-	-	-	-	-
Exchanges with Other Utilities	-	-	-	-	-	-
Unaccounted For Gas	7	9	19	31	30	31
Company Use	2	3	2	3	3	3
Other	-	-	-	-	-	-
Subtotal Firm	353	391	576	611	609	608
Interruptible Requirements:						
Retail	0.0	0.0	1.1	0.7	0.7	0.7
Electric Power Generation	-	-	-	-	-	-
Company's Own Plant	0.3	0.3	0.6	0.6	0.6	0.6
Unaccounted For Gas	0.0	0.0	-	0.0	0.0	0.0
Subtotal Interruptible	0.4	0.4	1.7	1.3	1.3	1.3
SUBTOTAL FIRM AND INTERRUPTIBLE	353	392	578	612	611	610
Transportation:						
Firm Residential	12	14	28	31	33	35
Firm Commercial	27	29	47	50	50	51
Firm Industrial	2	2	4	4	4	4
Interruptible Residential	-	-	-	-	-	-
Interruptible Commercial	41	42	-	-	-	-
Interruptible Industrial	17	18	-	-	-	-
Other - Non-Utility Power Producers	51	55	-	-	-	-
Subtotal Transportation	151	161	79	85	88	90
TOTAL GAS REQUIREMENTS	505	552	657	698	698	700
Increase (Decrease)	(163)	48	104	41	1	2
Percent Change (%)	-24.4%	9.5%	18.9%	6.3%	0.1%	0.2%

⁽¹⁾ Peak Day is forecasted at a 2 degree temperature.

⁽²⁾ Current Year Peak Day is forecasted at a 5 degree temperature.

FORM-IRP-GAS-2A: ANNUAL/PEAK SUPPLY
TABLE 1: ANNUAL/PEAK SUPPLY
REPORTING UTILITY: PHILADELPHIA GAS WORKS
(Volumes in MMcf)

Index Year Actual Year	Historical Data				Current Year (2)		Three Year Forecast (1)					
	-2 2019-2020		-1 2020-2021		0 2021-2022		1 2022-2023		2 2023-2024		3 2024-2025	
	Annual	Peak	Annual	Peak	Annual	Peak	Annual	Peak	Annual	Peak	Annual	Peak
Gas Supply for Sales Service												
Spot Purchases	42,454	152	42,913	153	45,293	281	48,326	261	47,923	256	47,900	255
Storage Withdrawals	9,109	166	10,521	165	13,612	162	14,891	185	14,949	190	15,103	190
LNG Withdrawal	1,141	36	1,293	74	1,966	207	2,600	249	2,591	250	2,601	251
LNG Purchases	-	-	-	-	-	-	-	-	-	-	-	-
Exchanges with other LDCs	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-
Total Gas Supply	52,704	353	54,726	392	60,871	650	65,817	695	65,463	696	65,604	696
Total Transportation Services	31,927	151	31,109	161	31,479	18	32,151	15	32,348	15	32,545	16
TOTAL GAS SUPPLY AND TRANSPORTATION SERVICE	84,631	505	85,835	552	92,350	667	97,969	710	97,811	711	98,149	712
Deductions												
Pipeline: TRANS FUEL	986	-	805	-	683	6	870	6	864	6	866	6
Storage: INJ, INJ FUEL, WITHDRAW FUEL, TRANS FUEL	9,384	-	10,608	-	14,274	1	15,334	2	15,366	2	15,571	1
LNG: LIQUE, INJ FUEL, TRANS FUEL	1,733	-	1,192	-	1,517	4	2,729	4	2,468	4	2,457	5
Sales to other LDC's	-	-	-	-	-	-	-	-	-	-	-	-
Total Deductions	12,103	-	12,605	-	16,475	11	18,933	12	18,699	12	18,893	12
NET GAS SUPPLY	72,528	505	73,230	552	75,875	657	79,036	698	79,112	698	79,256	700
BTU	1.034		1.031		1.031		1.031		1.031		1.031	

(1) Peak Day is forecasted at a 2 degree temperature.

(2) Current Year Peak Day is forecasted at a 5 degree temperature.

**FORM-IRP-GAS-2B: NATURAL GAS TRANSPORTATION
REPORTING UTILITY: PHILADELPHIA GAS WORKS
(volumes in MMcf)**

Index Year Actual year	Historical Data				Current Year		Three Year Forecast					
	-2 2019-2020		-1 2020-2021		0 2021-2022		1 2022-2023		2 2023-2024		3 2024-2025	
	Annual	Peak	Annual	Peak	Annual	Peak	Annual	Peak	Annual	Peak	Annual	Peak
<u>City Gate Transportation Contracts:</u>												
Transcontinental Transmission Corp.	3,988	60	4,000	60	4,000	60	4,000	60	4,000	60	4,000	60
Texas Eastern Transmission Corp.	2,242	43	2,250	43	2,250	43	2,250	43	2,250	43	2,250	43
Texas Eastern Transmission Corp.	443	20	445	20	445	20	445	20	445	20	445	20
Transcontinental Transmission Corp.	443	5	445	5	445	5	445	5	445	5	445	5
Total	7,116	127	7,139	128	7,139	128	7,139	128	7,139	128	7,139	128
<u>Upstream Transportation Contracts:</u>												
Transcontinental Transmission Corp.	58,479	160	58,489	160	58,489	160	58,489	160	58,649	160	58,489	160
Texas Eastern Transmission Corp.	26,547	73	26,552	73	26,552	73	26,552	73	26,625	73	26,552	73
Texas Eastern Transmission Corp.	8,432	23	8,434	23	8,434	23	8,434	23	8,457	23	8,434	23
Texas Eastern Transmission Corp.	2,576	17	2,584	17	2,584	17	2,584	17	2,584	17	2,584	17
Texas Eastern Transmission Corp.	2,576	17	2,584	17	2,584	17	2,584	17	2,584	17	2,584	17
Transcontinental Transmission Corp.	171	2	172	2	172	2	172	2	172	2	172	2
Texas Eastern Transmission Corp.	1,770	5	1,770	5	1,775	5	1,770	5	1,775	5	1,770	5
Total	100,553	297	100,584	298	100,589	298	100,584	298	100,845	298	100,584	298
<u>Storage-Related Transportation Contracts:</u>												
Dominion Transmission Inc.	9,100	25	9,102	25	9,102	25	9,102	25	9,127	25	9,102	25
Dominion Transmission Inc.	2,757	8	2,757	8	2,757	8	2,757	8	2,765	8	2,757	8
Total	11,857	32	11,859	32	11,859	32	11,859	32	11,891	32	11,859	32

Conversions at 1031 Btu

FORM-IRP-GAS-2C: NATURAL GAS STORAGE
REPORTING UTILITY: PHILADELPHIA GAS WORKS
(volumes in MMcf)

Index Year Actual year	Historical Data				Current Year		Three Year Forecast					
	-2 2019-2020		-1 2020-2021		0 2021-2022		1 2022-2023		2 2023-2024		3 2024-2025	
	Annual	Peak	Annual	Peak	Annual	Peak	Annual	Peak	Annual	Peak	Annual	Peak
Transcontinental Transmission Corp.	3,988	60	4,000	60	4,000	60	4,000	60	4,000	60	4,000	60
Dominion Transmission Inc.	3,655	32	3,685	32	3,685	32	3,685	32	3,685	32	3,685	32
Transcontinental Transmission Corp.	3,150	33	3,165	33	3,165	33	3,165	33	3,165	33	3,165	33
Texas Eastern Transmission Corp.	2,410	43	2,419	43	2,419	43	2,419	43	2,419	43	2,419	43
Texas Eastern Transmission Corp.	2,242	20	2,250	20	2,250	20	2,250	20	2,250	20	2,250	20
Transcontinental Transmission Corp.	443	5	445	5	445	5	445	5	445	5	445	5
Total	15,888	193	15,965	194	15,965	193	15,965	194	15,965	194	15,965	194

Forecasted Dth to Mcf Conversions at 1031 BTU.

	Contract Expiration Date ⁽¹⁾
Transcontinental Transmission Corp.	3/31/2025
Dominion Transmission Inc.	3/31/2026
Transcontinental Transmission Corp.	9/30/2022
Texas Eastern Transmission Corp.	4/30/2027
Texas Eastern Transmission Corp.	4/30/2027
Transcontinental Transmission Corp.	4/15/2023

⁽¹⁾ For purposes of this report, contracts that are due to expire are assumed renewed for the forecast years.

Tab 5

Philadelphia Gas Works

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

Item 53.64(c)

Thirty days prior to the filing, of a tariff reflecting an increase or decrease in natural gas costs, each Section 1307(f) as utility seeking recovery of purchased as 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:

- (6) Each Section 1307(f) utility shall file with the Commission a statement of its current fuel procurement practices, detailed information concerning, the staffing and expertise of its fuel procurement personnel, a discussion of its methodology for obtaining a least cost and reliable source of gas supply, including a discussion of any methodologies, assumptions, models or rules of thumb employed in selecting its gas supply, transportation and storage mix, its loss prevention strategy in the event of fraud, nonperformance or interruption of performance, its participation in capacity release and reallocation programs, the impact, if any, upon least cost fuel procurement by constraints imposed by local transportation end users, interruptible service, balancing, storage and dispatching, options, and its strategy for improving its fuel procurement practices in the future and timetable for implementing these changes.

Response:

I. Current Strategy

PGW's current strategy for meeting the system's supply requirements is a portfolio approach. The Company's supply portfolio is split into four categories. First, the Company enters baseload supply contracts, which account for approximately thirty-seven percent (37%) of PGW's daily firm transportation entitlements on both Enbridge's Texas Eastern and Williams' Transco Gas Pipelines.

The Enbridge and Williams' pipelines are the only interstate pipeline facilities with physical connections to the PGW service territory. These supply contracts also recognize pipeline receipt and delivery rights. By sourcing supply in this manner, PGW not only ensures security of supply from the pipelines, but also can take advantage of varying basis differentiated pricing in the market. These contracts all contain the ability to set the price for upcoming months, or to have the pricing default to an agreed upon market index.

Second, an additional twenty-seven percent (27 %) is priced at the "gas daily mid-point" for each day of usage. These contracts allow for daily changes in volume. The operational flexibility of these contracts allows the company to increase or decrease gas supply to meet variations in send out requirements.

Third, the Company utilizes one (1) pipeline storage services, as an additional source of supply. This storage service does not contain bundled transportation and therefore are moved to the city gates within PGW's firm interstate pipeline capacity. This service represents eight percent (8 %) of supply at a fixed price. The Company will again attempt to release capacity for year periods totaling 33,000 dekatherms as it did last year. If this proves less economic for the ratepayer, the Company will release these capacities for the winter and summer season separately. These capacity releases have twenty-four-hour recall rights. If the need arises, PGW can recall this capacity and use its unbundled storage to fill the TGPL portion 10,000 dekatherms and depend on market-based prices to fill the TETCO portion 23,000 dekatherms. The Company also releases firm capacity to its firm choice suppliers on a monthly basis based upon the suppliers' firm pool size.

Additionally, PGW utilizes bundled storage and LNG to meet operational requirements and to accomplish other cost saving initiatives. Specifically, once design winter sendout requirements are met, the company may utilize bundled storage and LNG inventories to displace higher priced supply based on the current market conditions. PGW uses a portfolio approach to address system supply and storage refill in the traditional non-peak season. The Gas Supply area uses the GCR filing as a template to purchase gas volumes for both system supply and storage refill below the projected cost, when possible. However, some proportion of the supply will always be subject to spot market pricing, either daily or monthly due to the constant need to purchase gas to meet sendout variations that are inherent in a residential firm heating load. PGW

seeks to recoup demand charges for its firm transportation through the FERC approved capacity release mechanisms.

The Company also enters the incremental off systems sales market to generate additional revenue when it is economically advantageous to do so. At all times the Company is studying the market for any economic advantage that can be derived in support of the firm ratepayer.

II. Overview of Gas Supply Section

The Gas Supply Section of Gas Management is comprised of four departments: Gas Supply, Gas Transportation, Gas Accounting and Gas Control. The Gas Supply Section is responsible for ensuring that there is always an adequate supply of natural gas available to meet the requirements of PGW's over 490,000 firm customers. The Gas Supply Section accomplishes this through continuous interaction with various departments within PGW.

The staff of the Gas Supply Section is expected to maintain an in-depth working knowledge of all facets of the natural gas supply markets. The staff members of the four departments are required to maintain a working knowledge of PGW's natural gas contracts and facilities for the purpose of ensuring the safe and efficient operation of the distribution system, in accordance with company procedures, and in compliance with federal, state, and local regulations.

III. Organization and Staffing

Director of Gas Transportation and Gas Control: This person has a six-year history working in the Gas Supply area and a five-year history in Gas Processing for PGW. This individual also has a background working in the Oil and Petrochemical industries. This individual has a BS in Chemical Engineer and MBA as well as having a background in natural gas accounting, allocation and confirmation experience under the first stages of FERC Order 636, and its effect on supply portfolio management.

This individual and the staffs of the departments that report to him interact continuously and provide 24/7 coverage in all situations pertaining to the gas supply portfolio and operation of the natural gas facilities. This is done in conjunction with the Gas Supply Committee, as well as everyday meetings with the VP of Gas Management and the other direct reports of the VP of Gas Management. The following departments report directly to this

individual: Gas Supply, Gas Control, Gas Accounting, and Gas Transportation.

Manager, Gas Supply: This person has more than ten years' experience in the utility industry. At PGW, she has over seven years' experience in gas supply, tariff rates and federal regulatory areas. She has held leadership position representing LDC groups in pipeline rate case and other FERC proceedings. She holds a B.S. from the Wharton School of the University of Pennsylvania and a PhD in economics. She has completed course work in rates and management. The administrators of Gas Supply and Retail Operations report directly to the manager of gas supply.

Administrator, Gas Supply: Administrator, Gas Supply & Acquisition: this person has nineteen years of natural gas experience :seventeen of which was spent in the gas supply area. This person also has experience in the Customer Service, IS, Retail Operations areas as well. This individual has an MBA in International Business and BBA with a concentration in Management Information Systems, in addition to having an extensive background in the area of gas purchasing. Reporting to this individual are the natural gas accountants, natural gas transportation coordinators and natural gas analysts.

Administrator, Retail Operations: This individual has seventeen years of experience in the Natural Gas Industry with knowledge in Marketing, Gas Planning, Budget/Strategic Development, and Gas Supply. This person has a Master's Degree in Business Administration and a Bachelor's Degree in Marketing. She has experience with regulatory filings, budget preparation, program management, and natural gas purchasing. Reporting to this individual is the Retail Operations Analyst

Manager, Gas Control: This person has over ten years in the oil & gas area, is responsible for the day-to-day management of the city distribution grid and daily confirmation of each day's gas volumes. He manages the gas control department on a 24/7 basis. The manager has completed the course work for a BS degree and has extensive experience in the Distribution Department's Pressure Control and Network Analysis area.

Tab 6

Philadelphia Gas Works

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

Item 53.64(c)

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

- (7) A list of off-system sales, including transportation, storage, or capacity releases by the utility at less than the weighted average price of gas, or at less than the original contract cost of transportation, storage, or capacity supplied to the utility for its own customers.

Response:

The attached schedules list off-system sales, capacity release, and asset management for the period of January 1, 2022 to December 31, 2022.

Schedule 1 – reflects all off-system sales margins for the period January 1, 2022 to December 31, 2022.

Schedule 2 – would reflect any off-system sales transactions that were done at less than the weighted average price of gas. The schedule is blank because none of the deals match the criteria.

Schedule 3 – illustrates all capacity release deals.

Schedule 4 – reflects individual capacity release transactions that were done at less than the weighted average cost of capacity.

Schedule 1
Item 53.64(C)(7)

Philadelphia Gas Works
Pennsylvania Public Utilities Commission
52 Pa. Code §53.61, et seq.
For the Twelve Months Ending December 31, 2022

Off-System Sales			
MONTH	Total Revenue	Ratepayer Margin	Total Credit
Jan-22	\$41,360	\$9,643	\$38,146
Feb-22	\$0	\$0	\$0
Mar-22	\$0	\$0	\$0
Apr-22	\$0	\$0	\$0
May-22	\$0	\$0	\$0
Jun-22	\$0	\$0	\$0
Jul-22	\$0	\$0	\$0
Aug-22	\$0	\$0	\$0
Sep-22	\$0	\$0	\$0
Oct-22	\$0	\$0	\$0
Nov-22	\$164,387	\$0	\$164,387
Dec-22	\$1,738,614	\$730,797	\$1,495,015

Philadelphia Gas Works
Pennsylvania Public Utilities Commission
52 Pa. Code §53.61, et seq.
For the Twelve Months Ending December 31, 2022

Off-System Sales (loss)			
MONTH	Total Revenue	Total Cost of Gas	Total Loss
Jan-22	\$0	\$0	\$0
Feb-22	\$0	\$0	\$0
Mar-22	\$0	\$0	\$0
Apr-22	\$0	\$0	\$0
May-22	\$0	\$0	\$0
Jun-22	\$0	\$0	\$0
Jul-22	\$0	\$0	\$0
Aug-22	\$0	\$0	\$0
Sep-22	\$0	\$0	\$0
Oct-22	\$0	\$0	\$0
Nov-22	\$164,387	\$267,191	-\$102,804
Dec-22	\$0	\$0	\$0

Philadelphia Gas Works
 Pennsylvania Public Utilities Commission
 52 Pa. Code §53.61, et seq.
 For the Twelve Months Ending December 31, 2022

Schedule 3
 Item 53.64(C)(7)

MONTH	Capacity Release		
	Total	Total	
	TGPL	TETCO	Total
	Credits	Credits	Credits
Jan-22	\$ 804,742	\$ 1,255,604	\$ 2,060,347
Feb-22	\$ 744,932	\$ 1,137,669	\$ 1,882,601
Mar-22	\$ 814,724	\$ 1,260,518	\$ 2,075,242
Apr-22	\$ 417,928	\$ 560,202	\$ 978,130
May-22	\$ 413,356	\$ 936,526	\$ 1,349,883
Jun-22	\$ 1,315,361	\$ 911,191	\$ 2,226,552
Jul-22	\$ 1,372,108	\$ 936,886	\$ 2,308,994
Aug-22	\$ 941,008	\$ 1,049,949	\$ 1,990,957
Sep-22	\$ 616,542	\$ 1,054,805	\$ 1,671,347
Oct-22	\$ 412,641	\$ 536,123	\$ 948,764
Nov-22	\$ 1,855,620	\$ 2,309,278	\$ 4,164,898
Dec-22	\$ 1,926,852	\$ 2,401,687	\$ 4,328,540
TOTAL	\$ 11,635,816	\$ 14,350,440	\$ 25,986,256

Philadelphia Gas Works
 Pennsylvania Public Utilities Commission
 52 Pa. Code §53.61, et seq.
 For the Twelve Months Ending December 31, 2022

M / YR	PIPELINE	PATH	RECALL STATUS	MONTHLY VOLUME DTH	TOTAL MONTHLY CREDIT	CREDIT DTH	TOTAL CREDIT	REPLACEMENT SHIPPER	
January-22	TETCO	STX - M3	N	18,321	\$ 10,241.64	\$ 0.5590	\$ 10,241.64	Sprague	
	TETCO	STX - M3	N	15,066	\$ 8,424.47	\$ 0.5592	\$ 8,424.47	Vista Energy	
	TETCO	STX - M3	N	42,873	\$ 23,970.84	\$ 0.5591	\$ 23,970.84	SFE Energy	
	TETCO	STX - M3	N	4,092	\$ 2,290.02	\$ 0.5596	\$ 2,290.02	Statewise	
	TETCO	STX - M3	N	2,635	\$ 1,475.95	\$ 0.5601	\$ 1,475.95	Josco Energy	
	TETCO	STX - M3	N	279	\$ 157.62	\$ 0.5649	\$ 157.62	Carbonbetter	
	TETCO	STX - M3	N	4,495	\$ 2,515.87	\$ 0.5597	\$ 2,515.87	American Power	
	TETCO	STX - M3	N	7,471	\$ 4,175.42	\$ 0.5589	\$ 4,175.42	Atlantic Energy	
	TETCO	STX - M3	N	1,364	\$ 761.52	\$ 0.5583	\$ 761.52	Greenlight	
	TETCO	STX - M3	N	279	\$ 157.62	\$ 0.5649	\$ 157.62	New Wave Energy	
	TETCO	STX - M3	N	4,991	\$ 2,788.85	\$ 0.5588	\$ 2,788.85	Residents	
	TETCO	STX - M3	N	2,015	\$ 1,129.28	\$ 0.5604	\$ 1,129.28	Eligo Energy	
	TETCO	STX - M3	N	310	\$ 173.33	\$ 0.5591	\$ 173.33	Median Energy	
	TETCO	STX - M3	N	1,116	\$ 625.04	\$ 0.5601	\$ 625.04	Direct Energy	
	TETCO	STX - M3	N	38,440	\$ 21,491.81	\$ 0.5591	\$ 21,491.81	Direct Energy	
	TETCO	STX - M3	N	84,351	\$ 47,159.02	\$ 0.5591	\$ 47,159.02	Direct Energy	
	TETCO	STX - M3	N	3,317	\$ 1,853.99	\$ 0.5589	\$ 1,853.99	Shipley	
	TETCO	STX - M3	N	94,612	\$ 52,899.74	\$ 0.5591	\$ 52,899.74	Exelon	
	TETCO	STX - M3	N	2,201	\$ 1,228.95	\$ 0.5584	\$ 1,228.95	Nordic Energy	
	TETCO	STX - M3	N	15,190	\$ 8,492.73	\$ 0.5591	\$ 8,492.73	WGL Energy	
	TETCO	STX - M3	N	4,309	\$ 2,410.79	\$ 0.5595	\$ 2,410.79	Marathon Power	
	TETCO	STX - M3	N	109,740	\$ 61,355.63	\$ 0.5591	\$ 61,355.63	UGI Energy	
	TETCO	STX - M3	N	713	\$ 399.17	\$ 0.5598	\$ 399.17	Alpha Gas	
	TETCO	STX - M3	N	310	\$ 173.33	\$ 0.5591	\$ 173.33	South Bay	
	TETCO	STX - M3	N	3,379	\$ 1,890.84	\$ 0.5596	\$ 1,890.84	Park Power	
	TETCO	STX - M3	N	9,579	\$ 5,357.25	\$ 0.5593	\$ 5,357.25	Palanco	
	TETCO	STX - M3	N	2,449	\$ 1,370.87	\$ 0.5598	\$ 1,370.87	EDF Trading	
	TETCO	STX - M3	N	2,480	\$ 1,386.57	\$ 0.5591	\$ 1,386.57	CIMA Energy	
	TETCO	STX - M3	N	5,301	\$ 2,962.15	\$ 0.5588	\$ 2,962.15	MPOWER	
	TETCO	STX - M3	N	186	\$ 105.08	\$ 0.5649	\$ 105.08	Spring	
	TETCO	STX - M3	N	93,000	\$ 162,750.00	\$ 1.7500	\$ 162,750.00	Castleton Commodities	
	TETCO	STX - M3	N	486,948	\$ 823,429.07	\$ 1.6910	\$ 823,429.07	Castleton Commodities	
	TETCO	M2 - M3	N	20,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TETCO	M2 - M3	N	5,100	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TETCO	M2 - M3	N	20,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TETCO	M2 - M3	N	20,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TETCO	M2 - M3	N	20,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TETCO	M2 - M3	N	20,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TETCO	M2 - M3	N	20,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TETCO	M2 - M3	N	20,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
					<u>1,186,912</u>			<u>\$ 1,255,604.46</u>	
		TRANSCO	2-6	N	31	\$ 17.05	\$ 0.55000	\$ 17.05	Clearview Electric
		TRANSCO	2-6	N	186	\$ 101.68	\$ 0.54667	\$ 101.68	Spring
		TRANSCO	2-6	N	279	\$ 152.21	\$ 0.54556	\$ 152.21	Carbonbetter
		TRANSCO	2-6	N	279	\$ 152.21	\$ 0.54556	\$ 152.21	New Wave Energy
		TRANSCO	2-6	N	310	\$ 169.26	\$ 0.54600	\$ 169.26	Median Energy
		TRANSCO	2-6	N	341	\$ 186.00	\$ 0.54545	\$ 186.00	South Bay
		TRANSCO	2-6	N	713	\$ 389.05	\$ 0.54565	\$ 389.05	Alpha Gas
		TRANSCO	2-6	N	1,116	\$ 609.15	\$ 0.54583	\$ 609.15	Direct Energy
		TRANSCO	2-6	N	1,395	\$ 761.36	\$ 0.54578	\$ 761.36	Greenlight
	TRANSCO	2-6	N	2,046	\$ 1,117.24	\$ 0.54606	\$ 1,117.24	Eligo Energy	
	TRANSCO	2-6	N	2,232	\$ 1,218.61	\$ 0.54597	\$ 1,218.61	Nordic Energy	
	TRANSCO	2-6	N	2,480	\$ 1,354.08	\$ 0.54600	\$ 1,354.08	CIMA Energy	
	TRANSCO	2-6	N	2,480	\$ 1,354.08	\$ 0.54600	\$ 1,354.08	EDF Trading	
	TRANSCO	2-6	N	2,666	\$ 1,455.45	\$ 0.54593	\$ 1,455.45	Josco Energy	
	TRANSCO	2-6	N	3,317	\$ 1,810.71	\$ 0.54589	\$ 1,810.71	Shipley	
	TRANSCO	2-6	N	3,410	\$ 1,861.55	\$ 0.54591	\$ 1,861.55	Park Power	
	TRANSCO	2-6	N	4,092	\$ 2,233.86	\$ 0.54591	\$ 2,233.86	Statewise	
	TRANSCO	2-6	N	4,340	\$ 2,369.64	\$ 0.54600	\$ 2,369.64	Marathon Power	
	TRANSCO	2-6	N	4,495	\$ 2,454.27	\$ 0.54600	\$ 2,454.27	American Power	
	TRANSCO	2-6	N	5,022	\$ 2,741.95	\$ 0.54599	\$ 2,741.95	Residents	
	TRANSCO	2-6	N	5,332	\$ 2,910.90	\$ 0.54593	\$ 2,910.90	MPOWER	
	TRANSCO	2-6	N	7,502	\$ 4,095.72	\$ 0.54595	\$ 4,095.72	Atlantic Energy	
	TRANSCO	2-6	N	9,579	\$ 5,229.39	\$ 0.54592	\$ 5,229.39	Palanco	
	TRANSCO	2-6	N	15,066	\$ 8,225.23	\$ 0.54595	\$ 8,225.23	Vista Energy	
	TRANSCO	2-6	N	15,221	\$ 8,309.86	\$ 0.54595	\$ 8,309.86	WGL Energy	
	TRANSCO	2-6	N	18,321	\$ 10,002.46	\$ 0.54596	\$ 10,002.46	Sprague	
	TRANSCO	2-6	N	38,440	\$ 20,986.38	\$ 0.54595	\$ 20,986.38	Direct Energy	
	TRANSCO	2-6	N	42,873	\$ 23,406.55	\$ 0.54595	\$ 23,406.55	SFE Energy	
	TRANSCO	2-6	N	84,382	\$ 46,068.48	\$ 0.54595	\$ 46,068.48	Direct Energy	
	TRANSCO	2-6	N	94,612	\$ 51,653.44	\$ 0.54595	\$ 51,653.44	Exelon	
	TRANSCO	2-6	N	109,771	\$ 59,929.51	\$ 0.54595	\$ 59,929.51	UGI Energy	
	TRANSCO	1-3	N	155,000	\$ 5,657.50	\$ 0.03650	\$ 5,657.50	Nextera Energy	
	TRANSCO	2-3	N	155,000	\$ 5,657.50	\$ 0.03650	\$ 5,657.50	Nextera Energy	
	TRANSCO	3-6	N	310,000	\$ 530,100.00	\$ 1.71000	\$ 530,100.00	Vitol	
	TRANSCO	3-6	N	2,325,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TRANSCO	3-6	N	775,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TRANSCO	3-6	N	49,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TRANSCO	3-6	N	7,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TRANSCO	3-6	N	72,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
				<u>4,330,329</u>			<u>\$ 804,742.33</u>		

M / YR	PIPELINE	PATH	RECALL STATUS	MONTHLY VOLUME DTH	TOTAL MONTHLY CREDIT	CREDIT DTH	TOTAL CREDIT	REPLACEMENT SHIPPER	
February-22	TETCO	STX - M3	N	2,240	\$ 1,272.99	\$ 0.5683	\$ 1,272.99	Nordic Energy	
	TETCO	STX - M3	N	252	\$ 144.68	\$ 0.5741	\$ 144.68	Carbonbetter	
	TETCO	STX - M3	N	39,564	\$ 22,484.69	\$ 0.5683	\$ 22,484.69	SFE Energy	
	TETCO	STX - M3	N	3,836	\$ 2,179.53	\$ 0.5682	\$ 2,179.53	American Power	
	TETCO	STX - M3	N	6,748	\$ 3,833.42	\$ 0.5681	\$ 3,833.42	Atlantic Energy	
	TETCO	STX - M3	N	980	\$ 559.38	\$ 0.5708	\$ 559.38	Direct Energy	
	TETCO	STX - M3	N	420	\$ 241.15	\$ 0.5742	\$ 241.15	Direct Energy	
	TETCO	STX - M3	N	35,980	\$ 20,449.88	\$ 0.5684	\$ 20,449.88	Direct Energy	
	TETCO	STX - M3	N	70,728	\$ 40,195.71	\$ 0.5683	\$ 40,195.71	Direct Energy	
	TETCO	STX - M3	N	2,968	\$ 1,687.69	\$ 0.5686	\$ 1,687.69	Shipley	
	TETCO	STX - M3	N	13,384	\$ 7,604.17	\$ 0.5682	\$ 7,604.17	Vista Energy	
	TETCO	STX - M3	N	15,848	\$ 9,007.40	\$ 0.5684	\$ 9,007.40	Sprague	
	TETCO	STX - M3	N	952	\$ 540.04	\$ 0.5673	\$ 540.04	New Wave Energy	
	TETCO	STX - M3	N	5,208	\$ 2,960.68	\$ 0.5685	\$ 2,960.68	Marathon Power	
	TETCO	STX - M3	N	616	\$ 352.03	\$ 0.5715	\$ 352.03	Alpha Gas	
	TETCO	STX - M3	N	82,684	\$ 46,989.81	\$ 0.5683	\$ 46,989.81	Exelon	
	TETCO	STX - M3	N	1,260	\$ 718.51	\$ 0.5702	\$ 718.51	Greenlight	
	TETCO	STX - M3	N	2,352	\$ 1,335.66	\$ 0.5679	\$ 1,335.66	Josco Energy	
	TETCO	STX - M3	N	252	\$ 144.68	\$ 0.5741	\$ 144.68	Median Energy	
	TETCO	STX - M3	N	1,680	\$ 954.74	\$ 0.5683	\$ 954.74	Eligo Energy	
	TETCO	STX - M3	N	308	\$ 173.57	\$ 0.5635	\$ 173.57	Spring	
	TETCO	STX - M3	N	5,404	\$ 3,071.59	\$ 0.5684	\$ 3,071.59	Residents	
	TETCO	STX - M3	N	99,764	\$ 56,696.36	\$ 0.5683	\$ 56,696.36	UGI Energy	
	TETCO	STX - M3	N	13,720	\$ 7,797.08	\$ 0.5683	\$ 7,797.08	WGL Energy	
	TETCO	STX - M3	N	3,556	\$ 2,020.37	\$ 0.5682	\$ 2,020.37	Statewise	
	TETCO	STX - M3	N	5,432	\$ 3,086.03	\$ 0.5681	\$ 3,086.03	MPower	
	TETCO	STX - M3	N	308	\$ 173.57	\$ 0.5635	\$ 173.57	South Bay	
	TETCO	STX - M3	N	2,212	\$ 1,258.55	\$ 0.5690	\$ 1,258.55	EDF Trading	
	TETCO	STX - M3	N	2,128	\$ 1,210.34	\$ 0.5688	\$ 1,210.34	Spark Energy	
	TETCO	STX - M3	N	8,596	\$ 4,884.61	\$ 0.5682	\$ 4,884.61	Palmco	
	TETCO	STX - M3	N	2,968	\$ 1,687.69	\$ 0.5686	\$ 1,687.69	Park Power	
	TETCO	STX - M3	N	2,128	\$ 1,210.34	\$ 0.5688	\$ 1,210.34	CIMA Energy	
	TETCO	STX - M3	N	84,000	\$ 147,000.00	\$ 1.7500	\$ 147,000.00	Castleton Commodities	
	TETCO	STX - M3	N	439,824	\$ 743,742.38	\$ 1.6910	\$ 743,742.38	Castleton Commodities	
	TETCO	M2 - M3	N	20,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TETCO	M2 - M3	N	20,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
					998,300			\$ 1,137,669.32	
		TRANSCO	2-6	N	28	\$ 15.40	\$ 0.55000	\$ 15.40	Clearview Electric
		TRANSCO	2-6	N	280	\$ 152.88	\$ 0.54600	\$ 152.88	Median Energy
		TRANSCO	2-6	N	280	\$ 152.88	\$ 0.54600	\$ 152.88	Carbonbetter
		TRANSCO	2-6	N	308	\$ 168.00	\$ 0.54545	\$ 168.00	South Bay
		TRANSCO	2-6	N	308	\$ 168.00	\$ 0.54545	\$ 168.00	Spring
		TRANSCO	2-6	N	420	\$ 229.32	\$ 0.54600	\$ 229.32	Direct Energy
		TRANSCO	2-6	N	616	\$ 336.28	\$ 0.54591	\$ 336.28	Alpha Gas
		TRANSCO	2-6	N	952	\$ 519.68	\$ 0.54588	\$ 519.68	New Wave Energy
		TRANSCO	2-6	N	980	\$ 534.80	\$ 0.54571	\$ 534.80	Direct Energy
		TRANSCO	2-6	N	1,288	\$ 703.36	\$ 0.54609	\$ 703.36	Greenlight
	TRANSCO	2-6	N	1,708	\$ 932.68	\$ 0.54607	\$ 932.68	Eligo Energy	
	TRANSCO	2-6	N	2,128	\$ 1,161.72	\$ 0.54592	\$ 1,161.72	Spark Energy	
	TRANSCO	2-6	N	2,156	\$ 1,177.12	\$ 0.54597	\$ 1,177.12	CIMA Energy	
	TRANSCO	2-6	N	2,240	\$ 1,223.04	\$ 0.54600	\$ 1,223.04	EDF Trading	
	TRANSCO	2-6	N	2,268	\$ 1,238.16	\$ 0.54593	\$ 1,238.16	Nordic Energy	
	TRANSCO	2-6	N	2,380	\$ 1,299.48	\$ 0.54600	\$ 1,299.48	Josco Energy	
	TRANSCO	2-6	N	2,968	\$ 1,620.36	\$ 0.54594	\$ 1,620.36	Shipley	
	TRANSCO	2-6	N	2,968	\$ 1,620.36	\$ 0.54594	\$ 1,620.36	Park Power	
	TRANSCO	2-6	N	3,584	\$ 1,956.64	\$ 0.54594	\$ 1,956.64	Statewise	
	TRANSCO	2-6	N	3,836	\$ 2,094.40	\$ 0.54599	\$ 2,094.40	American Power	
	TRANSCO	2-6	N	5,208	\$ 2,843.40	\$ 0.54597	\$ 2,843.40	Marathon Power	
	TRANSCO	2-6	N	5,404	\$ 2,950.36	\$ 0.54596	\$ 2,950.36	Residents	
	TRANSCO	2-6	N	5,460	\$ 2,980.88	\$ 0.54595	\$ 2,980.88	MPower	
	TRANSCO	2-6	N	6,776	\$ 3,699.36	\$ 0.54595	\$ 3,699.36	Atlantic Energy	
	TRANSCO	2-6	N	8,596	\$ 4,692.80	\$ 0.54593	\$ 4,692.80	Palmco	
	TRANSCO	2-6	N	13,384	\$ 7,306.88	\$ 0.54594	\$ 7,306.88	Vista Energy	
	TRANSCO	2-6	N	13,748	\$ 7,505.68	\$ 0.54595	\$ 7,505.68	WGL Energy	
	TRANSCO	2-6	N	15,848	\$ 8,652.28	\$ 0.54595	\$ 8,652.28	Sprague	
	TRANSCO	2-6	N	36,008	\$ 19,658.52	\$ 0.54595	\$ 19,658.52	Direct Energy	
	TRANSCO	2-6	N	39,564	\$ 21,600.04	\$ 0.54595	\$ 21,600.04	SFE Energy	
	TRANSCO	2-6	N	70,756	\$ 38,629.36	\$ 0.54595	\$ 38,629.36	Direct Energy	
	TRANSCO	2-6	N	82,684	\$ 45,141.32	\$ 0.54595	\$ 45,141.32	Exelon	
	TRANSCO	2-6	N	99,764	\$ 54,466.16	\$ 0.54595	\$ 54,466.16	UGI Energy	
	TRANSCO	1-3	N	140,000	\$ 5,110.00	\$ 0.03650	\$ 5,110.00	Nextera Energy	
	TRANSCO	2-3	N	140,000	\$ 5,110.00	\$ 0.03650	\$ 5,110.00	Nextera Energy	
	TRANSCO	2-3	N	280,000	\$ 18,480.00	\$ 0.06600	\$ 18,480.00	United Energy	
	TRANSCO	3-6	N	280,000	\$ 478,800.00	\$ 1.71000	\$ 478,800.00	Vitol	
	TRANSCO	3-6	N	2,100,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TRANSCO	3-6	N	700,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
				4,074,896			\$ 744,931.60		

M / YR	PIPELINE	PATH	RECALL STATUS	MONTHLY VOLUME DTH	TOTAL MONTHLY CREDIT	CREDIT DTH	TOTAL CREDIT	REPLACEMENT SHIPPER	
March-22	TETCO	STX - M3	N	1,054	\$ 597.89	\$ 0.5673	\$ 597.89	New Wave Energy	
	TETCO	STX - M3	N	930	\$ 528.52	\$ 0.5683	\$ 528.52	Direct Energy	
	TETCO	STX - M3	N	2,852	\$ 1,622.95	\$ 0.5691	\$ 1,622.95	Nordic Energy	
	TETCO	STX - M3	N	1,116	\$ 635.31	\$ 0.5693	\$ 635.31	Direct Energy	
	TETCO	STX - M3	N	5,766	\$ 3,277.90	\$ 0.5685	\$ 3,277.90	Marathon Power	
	TETCO	STX - M3	N	14,539	\$ 8,264.14	\$ 0.5684	\$ 8,264.14	Vista Energy	
	TETCO	STX - M3	N	341	\$ 192.16	\$ 0.5635	\$ 192.16	South Bay	
	TETCO	STX - M3	N	682	\$ 389.74	\$ 0.5715	\$ 389.74	Alpha Gas	
	TETCO	STX - M3	N	2,573	\$ 1,462.78	\$ 0.5685	\$ 1,462.78	Josco Energy	
	TETCO	STX - M3	N	3,162	\$ 1,799.14	\$ 0.5690	\$ 1,799.14	Park Power	
	TETCO	STX - M3	N	9,362	\$ 5,322.59	\$ 0.5685	\$ 5,322.59	Palanco	
	TETCO	STX - M3	N	279	\$ 160.20	\$ 0.5742	\$ 160.20	Median Energy	
	TETCO	STX - M3	N	1,767	\$ 1,003.64	\$ 0.5680	\$ 1,003.64	Eligo Energy	
	TETCO	STX - M3	N	6,696	\$ 3,806.42	\$ 0.5685	\$ 3,806.42	Residents	
	TETCO	STX - M3	N	496	\$ 282.95	\$ 0.5705	\$ 282.95	Spring	
	TETCO	STX - M3	N	40,734	\$ 23,148.05	\$ 0.5683	\$ 23,148.05	Direct Energy	
	TETCO	STX - M3	N	78,213	\$ 44,448.98	\$ 0.5683	\$ 44,448.98	Direct Energy	
	TETCO	STX - M3	N	465	\$ 266.97	\$ 0.5741	\$ 266.97	Carbonbetter	
	TETCO	STX - M3	N	3,224	\$ 1,831.12	\$ 0.5680	\$ 1,831.12	Shipley	
	TETCO	STX - M3	N	4,216	\$ 2,397.04	\$ 0.5686	\$ 2,397.04	American Power	
	TETCO	STX - M3	N	7,502	\$ 4,265.56	\$ 0.5686	\$ 4,265.56	Atlantic Energy	
	TETCO	STX - M3	N	1,488	\$ 843.45	\$ 0.5668	\$ 843.45	Greenlight	
	TETCO	STX - M3	N	109,213	\$ 62,066.28	\$ 0.5683	\$ 62,066.28	UGI Energy	
	TETCO	STX - M3	N	91,233	\$ 51,848.26	\$ 0.5683	\$ 51,848.26	Constellation	
	TETCO	STX - M3	N	45,353	\$ 25,774.65	\$ 0.5683	\$ 25,774.65	SFE Energy	
	TETCO	STX - M3	N	3,968	\$ 2,252.84	\$ 0.5678	\$ 2,252.84	Statawise	
	TETCO	STX - M3	N	17,670	\$ 10,041.86	\$ 0.5683	\$ 10,041.86	Sprague	
	TETCO	STX - M3	N	15,810	\$ 8,984.82	\$ 0.5683	\$ 8,984.82	WGL Energy	
	TETCO	STX - M3	N	2,542	\$ 1,446.80	\$ 0.5692	\$ 1,446.80	Spark Energy	
	TETCO	STX - M3	N	7,006	\$ 3,982.59	\$ 0.5685	\$ 3,982.59	MPower	
	TETCO	STX - M3	N	2,449	\$ 1,393.40	\$ 0.5690	\$ 1,393.40	EDF Trading	
	TETCO	STX - M3	N	93,000	\$ 162,750.00	\$ 1.7500	\$ 162,750.00	Castleton Commodities	
	TETCO	STX - M3	N	486,948	\$ 823,429.07	\$ 1.6910	\$ 823,429.07	Castleton Commodities	
					1,062,649			\$ 1,260,518.07	
		TRANSCO	2-6	N	31	\$ 17.05	\$ 0.55000	\$ 17.05	Clearview Electric
		TRANSCO	2-6	N	279	\$ 152.21	\$ 0.54556	\$ 152.21	Median Energy
		TRANSCO	2-6	N	341	\$ 186.00	\$ 0.54545	\$ 186.00	South Bay
		TRANSCO	2-6	N	465	\$ 253.89	\$ 0.54600	\$ 253.89	Carbonbetter
		TRANSCO	2-6	N	496	\$ 270.63	\$ 0.54563	\$ 270.63	Spring
		TRANSCO	2-6	N	682	\$ 372.31	\$ 0.54591	\$ 372.31	Alpha Gas
		TRANSCO	2-6	N	961	\$ 524.52	\$ 0.54581	\$ 524.52	Direct Energy
		TRANSCO	2-6	N	1,054	\$ 575.36	\$ 0.54588	\$ 575.36	New Wave Energy
		TRANSCO	2-6	N	1,116	\$ 609.15	\$ 0.54583	\$ 609.15	Direct Energy
		TRANSCO	2-6	N	1,519	\$ 829.56	\$ 0.54612	\$ 829.56	Greenlight
	TRANSCO	2-6	N	1,798	\$ 981.77	\$ 0.54603	\$ 981.77	Eligo Energy	
	TRANSCO	2-6	N	2,449	\$ 1,337.03	\$ 0.54595	\$ 1,337.03	EDF Trading	
	TRANSCO	2-6	N	2,573	\$ 1,404.61	\$ 0.54590	\$ 1,404.61	Spark Energy	
	TRANSCO	2-6	N	2,573	\$ 1,404.61	\$ 0.54590	\$ 1,404.61	Josco Energy	
	TRANSCO	2-6	N	2,852	\$ 1,557.13	\$ 0.54598	\$ 1,557.13	Nordic Energy	
	TRANSCO	2-6	N	3,162	\$ 1,726.39	\$ 0.54598	\$ 1,726.39	Park Power	
	TRANSCO	2-6	N	3,224	\$ 1,760.18	\$ 0.54596	\$ 1,760.18	Shipley	
	TRANSCO	2-6	N	3,968	\$ 2,166.28	\$ 0.54594	\$ 2,166.28	Statawise	
	TRANSCO	2-6	N	4,216	\$ 2,301.44	\$ 0.54588	\$ 2,301.44	American Power	
	TRANSCO	2-6	N	5,766	\$ 3,148.05	\$ 0.54597	\$ 3,148.05	Marathon Power	
	TRANSCO	2-6	N	6,727	\$ 3,672.57	\$ 0.54594	\$ 3,672.57	Residents	
	TRANSCO	2-6	N	7,006	\$ 3,824.78	\$ 0.54593	\$ 3,824.78	MPower	
	TRANSCO	2-6	N	7,502	\$ 4,095.72	\$ 0.54595	\$ 4,095.72	Atlantic Energy	
	TRANSCO	2-6	N	9,362	\$ 5,110.97	\$ 0.54593	\$ 5,110.97	Palanco	
	TRANSCO	2-6	N	14,539	\$ 7,937.55	\$ 0.54595	\$ 7,937.55	Vista Energy	
	TRANSCO	2-6	N	15,810	\$ 8,631.64	\$ 0.54596	\$ 8,631.64	WGL Energy	
	TRANSCO	2-6	N	17,701	\$ 9,663.63	\$ 0.54594	\$ 9,663.63	Sprague	
	TRANSCO	2-6	N	40,765	\$ 22,255.52	\$ 0.54595	\$ 22,255.52	Direct Energy	
	TRANSCO	2-6	N	45,353	\$ 24,760.32	\$ 0.54595	\$ 24,760.32	SFE Energy	
	TRANSCO	2-6	N	78,244	\$ 42,717.38	\$ 0.54595	\$ 42,717.38	Direct Energy	
	TRANSCO	2-6	N	91,233	\$ 49,808.63	\$ 0.54595	\$ 49,808.63	Constellation	
	TRANSCO	2-6	N	109,244	\$ 59,641.83	\$ 0.54595	\$ 59,641.83	UGI Energy	
	TRANSCO	1-3	N	155,000	\$ 5,657.50	\$ 0.03650	\$ 5,657.50	Nextera Energy	
	TRANSCO	2-3	N	155,000	\$ 5,657.50	\$ 0.03650	\$ 5,657.50	Nextera Energy	
	TRANSCO	2-3	N	310,000	\$ 9,610.00	\$ 0.03100	\$ 9,610.00	Macquarie	
	TRANSCO	3-6	N	310,000	\$ 530,100.00	\$ 1.71000	\$ 530,100.00	Vitol	
	TRANSCO	3-6	N	2,325,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TRANSCO	3-6	N	775,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
				4,513,011			\$ 814,723.71		

M / YR	PIPELINE	PATH	RECALL STATUS	MONTHLY VOLUME DTH	TOTAL MONTHLY CREDIT	CREDIT DTH	TOTAL CREDIT	REPLACEMENT SHIPPER	
April-22	TETCO	STX - M3	N	86,160	\$ 78,254.54	\$ 0.9082	\$ 78,254.54	Constellation	
	TETCO	STX - M3	N	3,960	\$ 3,599.68	\$ 0.9090	\$ 3,599.68	Statewise	
	TETCO	STX - M3	N	3,030	\$ 2,749.50	\$ 0.9074	\$ 2,749.50	Shipley	
	TETCO	STX - M3	N	17,280	\$ 15,695.45	\$ 0.9083	\$ 15,695.45	Sprague	
	TETCO	STX - M3	N	14,220	\$ 12,913.16	\$ 0.9081	\$ 12,913.16	Vista Energy	
	TETCO	STX - M3	N	1,140	\$ 1,032.19	\$ 0.9054	\$ 1,032.19	Direct Energy	
	TETCO	STX - M3	N	40,170	\$ 36,485.17	\$ 0.9083	\$ 36,485.17	Direct Energy	
	TETCO	STX - M3	N	75,330	\$ 68,413.08	\$ 0.9082	\$ 68,413.08	Direct Energy	
	TETCO	STX - M3	N	44,910	\$ 40,786.92	\$ 0.9082	\$ 40,786.92	SFE Energy	
	TETCO	STX - M3	N	2,580	\$ 2,344.76	\$ 0.9088	\$ 2,344.76	Nordic Energy	
	TETCO	STX - M3	N	1,020	\$ 924.79	\$ 0.9067	\$ 924.79	New Wave Energy	
	TETCO	STX - M3	N	15,570	\$ 14,143.20	\$ 0.9084	\$ 14,143.20	WGL Energy	
	TETCO	STX - M3	N	2,430	\$ 2,204.58	\$ 0.9072	\$ 2,204.58	Spark Energy	
	TETCO	STX - M3	N	510	\$ 462.40	\$ 0.9067	\$ 462.40	Carbonbetter	
	TETCO	STX - M3	N	7,200	\$ 6,539.11	\$ 0.9082	\$ 6,539.11	Atlantic Energy	
	TETCO	STX - M3	N	1,500	\$ 1,362.32	\$ 0.9082	\$ 1,362.32	Greenlight	
	TETCO	STX - M3	N	4,320	\$ 3,921.88	\$ 0.9078	\$ 3,921.88	American Power	
	TETCO	STX - M3	N	480	\$ 437.53	\$ 0.9115	\$ 437.53	Spring	
	TETCO	STX - M3	N	1,200	\$ 1,089.85	\$ 0.9082	\$ 1,089.85	Direct Energy	
	TETCO	STX - M3	N	1,590	\$ 1,444.84	\$ 0.9087	\$ 1,444.84	Eligo Energy	
	TETCO	STX - M3	N	240	\$ 214.80	\$ 0.8950	\$ 214.80	Median Energy	
	TETCO	STX - M3	N	2,490	\$ 2,262.24	\$ 0.9085	\$ 2,262.24	Josco Energy	
	TETCO	STX - M3	N	7,290	\$ 6,621.64	\$ 0.9083	\$ 6,621.64	Residents	
	TETCO	STX - M3	N	360	\$ 330.13	\$ 0.9170	\$ 330.13	UET	
	TETCO	STX - M3	N	60	\$ 57.66	\$ 0.9610	\$ 57.66	Clearview Electric	
	TETCO	STX - M3	N	5,760	\$ 5,234.46	\$ 0.9088	\$ 5,234.46	Marathon Power	
	TETCO	STX - M3	N	111,690	\$ 101,438.77	\$ 0.9082	\$ 101,438.77	UGI Energy	
	TETCO	STX - M3	N	8,580	\$ 7,794.02	\$ 0.9084	\$ 7,794.02	Mpower	
	TETCO	STX - M3	N	330	\$ 297.33	\$ 0.9010	\$ 297.33	South Bay	
	TETCO	STX - M3	N	660	\$ 602.59	\$ 0.9130	\$ 602.59	Alpha Gas	
	TETCO	STX - M3	N	2,970	\$ 2,699.76	\$ 0.9090	\$ 2,699.76	Park Power	
	TETCO	STX - M3	N	2,460	\$ 2,237.37	\$ 0.9095	\$ 2,237.37	EDF Trading	
	TETCO	STX - M3	N	10,500	\$ 9,536.21	\$ 0.9082	\$ 9,536.21	Palmco	
	TETCO	STX - M3	N	90,000	\$ 11,250.00	\$ 0.1250	\$ 11,250.00	Tenaska	
	TETCO	STX - M3	N	471,240	\$ 49,480.20	\$ 0.1050	\$ 49,480.20	Tenaska	
	TETCO	WLA - M3	N	540,000	\$ 32,940.00	\$ 0.0610	\$ 32,940.00	Twin Eagle	
	TETCO	WLA - M3	N	540,000	\$ 32,400.00	\$ 0.0600	\$ 32,400.00	Vitol	
					2,119,230			\$ 560,202.13	
		TRANSCO	2-6	N	60	\$ 32.70	\$ 0.54500	\$ 32.70	Clearview Electric
		TRANSCO	2-6	N	270	\$ 147.60	\$ 0.54667	\$ 147.60	Median Energy
		TRANSCO	2-6	N	360	\$ 196.80	\$ 0.54667	\$ 196.80	South Bay
		TRANSCO	2-6	N	390	\$ 213.30	\$ 0.54692	\$ 213.30	UET
		TRANSCO	2-6	N	480	\$ 262.50	\$ 0.54688	\$ 262.50	Spring
		TRANSCO	2-6	N	510	\$ 279.00	\$ 0.54706	\$ 279.00	Carbonbetter
		TRANSCO	2-6	N	660	\$ 361.20	\$ 0.54727	\$ 361.20	Alpha Gas
		TRANSCO	2-6	N	1,020	\$ 558.00	\$ 0.54706	\$ 558.00	New Wave Energy
		TRANSCO	2-6	N	1,140	\$ 623.70	\$ 0.54711	\$ 623.70	Direct Energy
		TRANSCO	2-6	N	1,230	\$ 672.90	\$ 0.54707	\$ 672.90	Direct Energy
	TRANSCO	2-6	N	1,530	\$ 837.30	\$ 0.54725	\$ 837.30	Greenlight	
	TRANSCO	2-6	N	1,620	\$ 886.50	\$ 0.54722	\$ 886.50	Eligo Energy	
	TRANSCO	2-6	N	2,430	\$ 1,329.60	\$ 0.54716	\$ 1,329.60	Spark Energy	
	TRANSCO	2-6	N	2,460	\$ 1,346.10	\$ 0.54720	\$ 1,346.10	EDF Trading	
	TRANSCO	2-6	N	2,490	\$ 1,362.60	\$ 0.54723	\$ 1,362.60	Josco Energy	
	TRANSCO	2-6	N	2,610	\$ 1,428.30	\$ 0.54724	\$ 1,428.30	Nordic Energy	
	TRANSCO	2-6	N	3,000	\$ 1,641.60	\$ 0.54720	\$ 1,641.60	Park Power	
	TRANSCO	2-6	N	3,030	\$ 1,657.80	\$ 0.54713	\$ 1,657.80	Shipley	
	TRANSCO	2-6	N	3,960	\$ 2,166.60	\$ 0.54712	\$ 2,166.60	Statewise	
	TRANSCO	2-6	N	4,320	\$ 2,364.00	\$ 0.54722	\$ 2,364.00	American Power	
	TRANSCO	2-6	N	5,790	\$ 3,168.00	\$ 0.54715	\$ 3,168.00	Marathon Power	
	TRANSCO	2-6	N	7,230	\$ 3,956.10	\$ 0.54718	\$ 3,956.10	Atlantic Energy	
	TRANSCO	2-6	N	7,320	\$ 4,005.60	\$ 0.54721	\$ 4,005.60	Residents	
	TRANSCO	2-6	N	8,580	\$ 4,694.70	\$ 0.54717	\$ 4,694.70	Mpower	
	TRANSCO	2-6	N	10,500	\$ 5,745.30	\$ 0.54717	\$ 5,745.30	Palmco	
	TRANSCO	2-6	N	14,250	\$ 7,797.30	\$ 0.54718	\$ 7,797.30	Vista Energy	
	TRANSCO	2-6	N	15,570	\$ 8,519.70	\$ 0.54719	\$ 8,519.70	WGL Energy	
	TRANSCO	2-6	N	17,280	\$ 9,455.10	\$ 0.54717	\$ 9,455.10	Sprague	
	TRANSCO	2-6	N	40,200	\$ 21,996.60	\$ 0.54718	\$ 21,996.60	Direct Energy	
	TRANSCO	2-6	N	44,940	\$ 24,590.10	\$ 0.54718	\$ 24,590.10	SFE Energy	
	TRANSCO	2-6	N	75,330	\$ 41,219.10	\$ 0.54718	\$ 41,219.10	Direct Energy	
	TRANSCO	2-6	N	86,190	\$ 47,161.50	\$ 0.54718	\$ 47,161.50	Constellation	
	TRANSCO	2-6	N	111,720	\$ 61,131.00	\$ 0.54718	\$ 61,131.00	UGI Energy	
	TRANSCO	1-3	N	300,000	\$ 31,500.00	\$ 0.10500	\$ 31,500.00	Vitol	
	TRANSCO	1-3	N	300,000	\$ 31,500.00	\$ 0.10500	\$ 31,500.00	Vitol	
	TRANSCO	2-3	N	150,000	\$ 9,000.00	\$ 0.06000	\$ 9,000.00	NJR Energy	
	TRANSCO	2-3	N	300,000	\$ 18,000.00	\$ 0.06000	\$ 18,000.00	NJR Energy	
	TRANSCO	3-6	N	600,000	\$ 33,060.00	\$ 0.05510	\$ 33,060.00	Twin Eagle	
	TRANSCO	3-6	N	600,000	\$ 33,060.00	\$ 0.05510	\$ 33,060.00	Twin Eagle	
				2,728,470			\$ 417,928.20		

M / YR	PIPELINE	PATH	RECALL STATUS	MONTHLY VOLUME DTH	TOTAL MONTHLY CREDIT	CREDIT DTH	TOTAL CREDIT	REPLACEMENT SHIPPER	
May-22	TETCO	STX - M3	N	1,054	\$ 955.61	\$ 0.9067	\$ 955.61	New Wave Energy	
	TETCO	STX - M3	N	1,426	\$ 1,296.76	\$ 0.9094	\$ 1,296.76	Direct Energy	
	TETCO	STX - M3	N	527	\$ 477.81	\$ 0.9067	\$ 477.81	Carbonbetter	
	TETCO	STX - M3	N	5,983	\$ 5,434.63	\$ 0.9083	\$ 5,434.63	Marathon Power	
	TETCO	STX - M3	N	17,701	\$ 16,073.77	\$ 0.9081	\$ 16,073.77	Sprague	
	TETCO	STX - M3	N	3,007	\$ 2,730.17	\$ 0.9079	\$ 2,730.17	Shiplely	
	TETCO	STX - M3	N	2,480	\$ 2,252.36	\$ 0.9082	\$ 2,252.36	Josco Energy	
	TETCO	STX - M3	N	248	\$ 221.95	\$ 0.8950	\$ 221.95	Median Energy	
	TETCO	STX - M3	N	1,519	\$ 1,382.03	\$ 0.9098	\$ 1,382.03	Eligo Energy	
	TETCO	STX - M3	N	10,912	\$ 9,913.67	\$ 0.9085	\$ 9,913.67	Residents	
	TETCO	STX - M3	N	620	\$ 563.09	\$ 0.9082	\$ 563.09	Spring	
	TETCO	STX - M3	N	2,790	\$ 2,533.91	\$ 0.9082	\$ 2,533.91	Park Power	
	TETCO	STX - M3	N	651	\$ 588.79	\$ 0.9044	\$ 588.79	Alpha Gas	
	TETCO	STX - M3	N	341	\$ 307.25	\$ 0.9010	\$ 307.25	South Bay	
	TETCO	STX - M3	N	77,686	\$ 70,556.84	\$ 0.9082	\$ 70,556.84	UGI Energy	
	TETCO	STX - M3	N	14,384	\$ 13,062.06	\$ 0.9081	\$ 13,062.06	Vista Energy	
	TETCO	STX - M3	N	310	\$ 281.55	\$ 0.9082	\$ 281.55	Clearview Electric	
	TETCO	STX - M3	N	3,038	\$ 2,755.86	\$ 0.9071	\$ 2,755.86	Nordic Energy	
	TETCO	STX - M3	N	15,159	\$ 13,770.00	\$ 0.9084	\$ 13,770.00	WGL Energy	
	TETCO	STX - M3	N	4,650	\$ 4,223.19	\$ 0.9082	\$ 4,223.19	American Power	
	TETCO	STX - M3	N	7,378	\$ 6,697.49	\$ 0.9078	\$ 6,697.49	Atlantic Energy	
	TETCO	STX - M3	N	90,365	\$ 82,066.29	\$ 0.9082	\$ 82,066.29	Constellation	
	TETCO	STX - M3	N	2,418	\$ 2,192.78	\$ 0.9069	\$ 2,192.78	Spark Energy	
	TETCO	STX - M3	N	47,833	\$ 43,443.22	\$ 0.9082	\$ 43,443.22	SFE Energy	
	TETCO	STX - M3	N	4,309	\$ 3,915.94	\$ 0.9088	\$ 3,915.94	Statewise	
	TETCO	STX - M3	N	1,581	\$ 1,433.42	\$ 0.9067	\$ 1,433.42	Greenlight	
	TETCO	STX - M3	N	10,695	\$ 9,709.22	\$ 0.9078	\$ 9,709.22	Palmco	
	TETCO	STX - M3	N	1,178	\$ 1,066.59	\$ 0.9054	\$ 1,066.59	Direct Energy	
	TETCO	STX - M3	N	77,748	\$ 70,608.23	\$ 0.9082	\$ 70,608.23	Direct Energy	
	TETCO	STX - M3	N	38,502	\$ 34,971.18	\$ 0.9083	\$ 34,971.18	Direct Energy	
	TETCO	STX - M3	N	372	\$ 341.13	\$ 0.9170	\$ 341.13	UET	
	TETCO	STX - M3	N	2,604	\$ 2,363.34	\$ 0.9076	\$ 2,363.34	EDF Trading	
	TETCO	STX - M3	N	11,532	\$ 10,476.76	\$ 0.9085	\$ 10,476.76	MPower	
	TETCO	STX - M3	N	93,000	\$ 11,625.00	\$ 0.1250	\$ 11,625.00	Tenaska	
	TETCO	STX - M3	N	486,948	\$ 51,129.54	\$ 0.1050	\$ 51,129.54	Tenaska	
	TETCO	WLA - M3	N	558,000	\$ 227,552.40	\$ 0.4078	\$ 227,552.40	Grays Ferry	
	TETCO	WLA - M3	N	558,000	\$ 227,552.40	\$ 0.4078	\$ 227,552.40	Grays Ferry	
					2,156,949			\$ 936,526.23	
		TRANSCO	2-6	N	248	\$ 135.78	\$ 0.54750	\$ 135.78	Median Energy
		TRANSCO	2-6	N	341	\$ 186.62	\$ 0.54727	\$ 186.62	Clearview Electric
		TRANSCO	2-6	N	372	\$ 203.36	\$ 0.54667	\$ 203.36	South Bay
		TRANSCO	2-6	N	403	\$ 220.41	\$ 0.54692	\$ 220.41	UET
		TRANSCO	2-6	N	558	\$ 305.35	\$ 0.54722	\$ 305.35	Carbonbetter
		TRANSCO	2-6	N	651	\$ 356.19	\$ 0.54714	\$ 356.19	Spring
		TRANSCO	2-6	N	682	\$ 373.24	\$ 0.54727	\$ 373.24	Alpha Gas
		TRANSCO	2-6	N	1,085	\$ 593.65	\$ 0.54714	\$ 593.65	New Wave Energy
		TRANSCO	2-6	N	1,209	\$ 661.54	\$ 0.54718	\$ 661.54	Direct Energy
		TRANSCO	2-6	N	1,426	\$ 780.58	\$ 0.54739	\$ 780.58	Direct Energy
	TRANSCO	2-6	N	1,519	\$ 831.42	\$ 0.54735	\$ 831.42	Eligo Energy	
	TRANSCO	2-6	N	1,581	\$ 865.21	\$ 0.54725	\$ 865.21	Greenlight	
	TRANSCO	2-6	N	2,449	\$ 1,340.13	\$ 0.54722	\$ 1,340.13	Spark Energy	
	TRANSCO	2-6	N	2,511	\$ 1,373.92	\$ 0.54716	\$ 1,373.92	Josco Energy	
	TRANSCO	2-6	N	2,604	\$ 1,424.76	\$ 0.54714	\$ 1,424.76	EDF Trading	
	TRANSCO	2-6	N	2,821	\$ 1,543.49	\$ 0.54714	\$ 1,543.49	Park Power	
	TRANSCO	2-6	N	3,007	\$ 1,645.48	\$ 0.54722	\$ 1,645.48	Shiplely	
	TRANSCO	2-6	N	3,038	\$ 1,662.22	\$ 0.54714	\$ 1,662.22	Nordic Energy	
	TRANSCO	2-6	N	4,309	\$ 2,357.86	\$ 0.54719	\$ 2,357.86	Statewise	
	TRANSCO	2-6	N	4,650	\$ 2,544.48	\$ 0.54720	\$ 2,544.48	American Power	
	TRANSCO	2-6	N	6,014	\$ 3,290.65	\$ 0.54716	\$ 3,290.65	Marathon Power	
	TRANSCO	2-6	N	7,378	\$ 4,037.13	\$ 0.54718	\$ 4,037.13	Atlantic Energy	
	TRANSCO	2-6	N	10,726	\$ 5,869.23	\$ 0.54720	\$ 5,869.23	Palmco	
	TRANSCO	2-6	N	10,912	\$ 5,970.91	\$ 0.54719	\$ 5,970.91	Residents	
	TRANSCO	2-6	N	11,563	\$ 6,327.10	\$ 0.54718	\$ 6,327.10	MPower	
	TRANSCO	2-6	N	15,159	\$ 8,294.67	\$ 0.54718	\$ 8,294.67	WGL Energy	
	TRANSCO	2-6	N	17,701	\$ 9,685.64	\$ 0.54718	\$ 9,685.64	Sprague	
	TRANSCO	2-6	N	38,533	\$ 21,084.65	\$ 0.54718	\$ 21,084.65	Direct Energy	
	TRANSCO	2-6	N	47,833	\$ 26,173.30	\$ 0.54718	\$ 26,173.30	SFE Energy	
	TRANSCO	2-6	N	77,686	\$ 42,508.44	\$ 0.54718	\$ 42,508.44	UGI Energy	
	TRANSCO	2-6	N	77,779	\$ 42,559.28	\$ 0.54718	\$ 42,559.28	Direct Energy	
	TRANSCO	2-6	N	90,396	\$ 49,462.98	\$ 0.54718	\$ 49,462.98	Constellation	
	TRANSCO	2-6	N	13,456	\$ 7,362.81	\$ 0.54718	\$ 7,362.81	Vista Energy	
	TRANSCO	1-3	N	310,000	\$ 32,550.00	\$ 0.10500	\$ 32,550.00	Vitol	
	TRANSCO	1-3	N	310,000	\$ 32,550.00	\$ 0.10500	\$ 32,550.00	Vitol	
	TRANSCO	2-3	N	155,000	\$ 9,300.00	\$ 0.06000	\$ 9,300.00	NJR Energy	
	TRANSCO	2-3	N	310,000	\$ 18,600.00	\$ 0.06000	\$ 18,600.00	NJR Energy	
	TRANSCO	3-6	N	620,000	\$ 34,162.00	\$ 0.05510	\$ 34,162.00	Twin Eagle	
	TRANSCO	3-6	N	620,000	\$ 34,162.00	\$ 0.05510	\$ 34,162.00	Twin Eagle	
				2,785,600			\$ 413,356.48		

M / YR	PIPELINE	PATH	RECALL STATUS	MONTHLY VOLUME DTH	TOTAL MONTHLY CREDIT	CREDIT DTH	TOTAL CREDIT	REPLACEMENT SHIPPER	
June-22	TETCO	STX - M3	N	74,220	\$ 68,132.32	\$ 0.9180	\$ 68,132.32	Direct Energy	
	TETCO	STX - M3	N	660	\$ 609.17	\$ 0.9230	\$ 609.17	RPA Energy	
	TETCO	STX - M3	N	36,600	\$ 33,598.80	\$ 0.9180	\$ 33,598.80	Direct Energy	
	TETCO	STX - M3	N	75,810	\$ 69,592.77	\$ 0.9180	\$ 69,592.77	UGI Energy	
	TETCO	STX - M3	N	2,790	\$ 2,562.05	\$ 0.9183	\$ 2,562.05	Shipley	
	TETCO	STX - M3	N	14,760	\$ 13,552.97	\$ 0.9182	\$ 13,552.97	WGL Energy	
	TETCO	STX - M3	N	1,230	\$ 1,126.68	\$ 0.9160	\$ 1,126.68	Direct Energy	
	TETCO	STX - M3	N	930	\$ 851.28	\$ 0.9154	\$ 851.28	UET	
	TETCO	STX - M3	N	13,350	\$ 12,251.20	\$ 0.9177	\$ 12,251.20	Vista Energy	
	TETCO	STX - M3	N	46,110	\$ 42,328.16	\$ 0.9180	\$ 42,328.16	SFE Energy	
	TETCO	STX - M3	N	4,500	\$ 4,131.01	\$ 0.9180	\$ 4,131.01	Statewise	
	TETCO	STX - M3	N	2,490	\$ 2,286.65	\$ 0.9183	\$ 2,286.65	EDF Trading	
	TETCO	STX - M3	N	86,280	\$ 79,206.69	\$ 0.9180	\$ 79,206.69	Constellation	
	TETCO	STX - M3	N	7,950	\$ 7,294.00	\$ 0.9175	\$ 7,294.00	Nordic Energy	
	TETCO	STX - M3	N	5,670	\$ 5,207.53	\$ 0.9184	\$ 5,207.53	Marathon Power	
	TETCO	STX - M3	N	1,020	\$ 934.72	\$ 0.9164	\$ 934.72	New Wave Energy	
	TETCO	STX - M3	N	780	\$ 717.68	\$ 0.9201	\$ 717.68	South Bay	
	TETCO	STX - M3	N	4,350	\$ 3,989.20	\$ 0.9171	\$ 3,989.20	American Power	
	TETCO	STX - M3	N	6,750	\$ 6,192.39	\$ 0.9174	\$ 6,192.39	Atlantic Energy	
	TETCO	STX - M3	N	9,990	\$ 9,171.65	\$ 0.9181	\$ 9,171.65	Palanco	
	TETCO	STX - M3	N	1,470	\$ 1,351.94	\$ 0.9197	\$ 1,351.94	Greenlight	
	TETCO	STX - M3	N	390	\$ 358.85	\$ 0.9201	\$ 358.85	Clearview Electric	
	TETCO	STX - M3	N	660	\$ 609.17	\$ 0.9230	\$ 609.17	Spring	
	TETCO	STX - M3	N	12,300	\$ 11,291.41	\$ 0.9180	\$ 11,291.41	Residents	
	TETCO	STX - M3	N	1,350	\$ 1,235.20	\$ 0.9150	\$ 1,235.20	Eligo Energy	
	TETCO	STX - M3	N	210	\$ 191.97	\$ 0.9141	\$ 191.97	Median Energy	
	TETCO	STX - M3	N	2,220	\$ 2,036.32	\$ 0.9173	\$ 2,036.32	Josco Energy	
	TETCO	STX - M3	N	16,530	\$ 15,172.08	\$ 0.9179	\$ 15,172.08	Sprague	
	TETCO	STX - M3	N	1,440	\$ 1,318.63	\$ 0.9157	\$ 1,318.63	Direct Energy	
	TETCO	STX - M3	N	1,800	\$ 1,652.40	\$ 0.9180	\$ 1,652.40	Spark Energy	
	TETCO	STX - M3	N	540	\$ 492.44	\$ 0.9119	\$ 492.44	Carbonbetter	
	TETCO	STX - M3	N	600	\$ 550.80	\$ 0.9180	\$ 550.80	Alpha Gas	
	TETCO	STX - M3	N	12,330	\$ 11,316.48	\$ 0.9178	\$ 11,316.48	MPower	
	TETCO	STX - M3	N	2,490	\$ 2,286.65	\$ 0.9183	\$ 2,286.65	Park Power	
	TETCO	STX - M3	N	90,000	\$ 11,250.00	\$ 0.1250	\$ 11,250.00	Tenaska	
	TETCO	STX - M3	N	471,240	\$ 49,480.20	\$ 0.1050	\$ 49,480.20	Tenaska	
	TETCO	WLA - M3	N	540,000	\$ 218,429.98	\$ 0.4045	\$ 218,429.98	Grays Ferry	
	TETCO	WLA - M3	N	540,000	\$ 218,429.98	\$ 0.4045	\$ 218,429.98	Grays Ferry	
					2,091,810			\$ 911,191.42	
		TRANSCO	2-6	N	210	\$ 114.90	\$ 0.54714	\$ 114.90	Median Energy
		TRANSCO	2-6	N	390	\$ 213.30	\$ 0.54692	\$ 213.30	Clearview Electric
		TRANSCO	2-6	N	570	\$ 311.70	\$ 0.54684	\$ 311.70	Carbonbetter
		TRANSCO	2-6	N	600	\$ 328.20	\$ 0.54700	\$ 328.20	Alpha Gas
		TRANSCO	2-6	N	660	\$ 361.20	\$ 0.54727	\$ 361.20	Spring
		TRANSCO	2-6	N	690	\$ 377.40	\$ 0.54696	\$ 377.40	RPA Energy
		TRANSCO	2-6	N	780	\$ 426.60	\$ 0.54692	\$ 426.60	South Bay
		TRANSCO	2-6	N	960	\$ 525.30	\$ 0.54719	\$ 525.30	UET
		TRANSCO	2-6	N	1,020	\$ 558.00	\$ 0.54706	\$ 558.00	New Wave Energy
	TRANSCO	2-6	N	1,230	\$ 672.90	\$ 0.54707	\$ 672.90	Direct Energy	
	TRANSCO	2-6	N	1,350	\$ 738.60	\$ 0.54711	\$ 738.60	Eligo Energy	
	TRANSCO	2-6	N	1,440	\$ 788.10	\$ 0.54729	\$ 788.10	Direct Energy	
	TRANSCO	2-6	N	1,500	\$ 820.80	\$ 0.54720	\$ 820.80	Greenlight	
	TRANSCO	2-6	N	1,800	\$ 984.90	\$ 0.54717	\$ 984.90	Spark Energy	
	TRANSCO	2-6	N	2,220	\$ 1,214.70	\$ 0.54716	\$ 1,214.70	Josco Energy	
	TRANSCO	2-6	N	2,490	\$ 1,362.60	\$ 0.54723	\$ 1,362.60	EDF Trading	
	TRANSCO	2-6	N	2,490	\$ 1,362.60	\$ 0.54723	\$ 1,362.60	Park Power	
	TRANSCO	2-6	N	2,820	\$ 1,542.90	\$ 0.54713	\$ 1,542.90	Shipley	
	TRANSCO	2-6	N	4,380	\$ 2,396.70	\$ 0.54719	\$ 2,396.70	American Power	
	TRANSCO	2-6	N	4,500	\$ 2,462.40	\$ 0.54720	\$ 2,462.40	Statewise	
	TRANSCO	2-6	N	5,700	\$ 3,118.80	\$ 0.54716	\$ 3,118.80	Marathon Power	
	TRANSCO	2-6	N	6,780	\$ 3,709.80	\$ 0.54717	\$ 3,709.80	Atlantic Energy	
	TRANSCO	2-6	N	7,950	\$ 4,350.00	\$ 0.54717	\$ 4,350.00	Nordic Energy	
	TRANSCO	2-6	N	9,990	\$ 5,466.30	\$ 0.54718	\$ 5,466.30	Palanco	
	TRANSCO	2-6	N	12,330	\$ 6,747.00	\$ 0.54720	\$ 6,747.00	MPower	
	TRANSCO	2-6	N	12,330	\$ 6,747.00	\$ 0.54720	\$ 6,747.00	Residents	
	TRANSCO	2-6	N	14,790	\$ 8,092.80	\$ 0.54718	\$ 8,092.80	WGL Energy	
	TRANSCO	2-6	N	16,530	\$ 9,045.00	\$ 0.54719	\$ 9,045.00	Sprague	
	TRANSCO	2-6	N	36,630	\$ 20,043.00	\$ 0.54717	\$ 20,043.00	Direct Energy	
	TRANSCO	2-6	N	46,140	\$ 25,246.80	\$ 0.54718	\$ 25,246.80	SFE Energy	
	TRANSCO	2-6	N	74,250	\$ 40,628.10	\$ 0.54718	\$ 40,628.10	Direct Energy	
	TRANSCO	2-6	N	75,840	\$ 41,498.10	\$ 0.54718	\$ 41,498.10	UGI Energy	
	TRANSCO	2-6	N	86,310	\$ 47,227.20	\$ 0.54718	\$ 47,227.20	Constellation	
	TRANSCO	2-6	N	12,934	\$ 7,077.16	\$ 0.54717	\$ 7,077.16	Vista Energy	
	TRANSCO	1-3	N	300,000	\$ 31,500.00	\$ 0.10500	\$ 31,500.00	Vitol	
	TRANSCO	1-3	N	300,000	\$ 31,500.00	\$ 0.10500	\$ 31,500.00	Vitol	
	TRANSCO	2-3	N	150,000	\$ 9,000.00	\$ 0.06000	\$ 9,000.00	NJR Energy	
	TRANSCO	2-3	N	300,000	\$ 18,000.00	\$ 0.06000	\$ 18,000.00	NJR Energy	
	TRANSCO	3-6	N	600,000	\$ 33,060.00	\$ 0.05510	\$ 33,060.00	Twin Eagle	
	TRANSCO	3-6	N	600,000	\$ 33,060.00	\$ 0.05510	\$ 33,060.00	Twin Eagle	
	TRANSCO	3-6	N	600,000	\$ 141,000.00	\$ 0.23500	\$ 141,000.00	Citadel	
	TRANSCO	3-6	N	455,000	\$ 771,680.00	\$ 1.69600	\$ 771,680.00	Citadel	
	TRANSCO	4-5	N	39,583	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TRANSCO	4-5	N	105,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TRANSCO	4-5	N	150,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TRANSCO	4-5	N	650,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
				4,700,187			\$ 1,315,360.86		

M / YR	PIPELINE	PATH	RECALL STATUS	MONTHLY VOLUME DTH	TOTAL MONTHLY CREDIT	CREDIT DTH	TOTAL CREDIT	REPLACEMENT SHIPPER	
July-22	TETCO	STX - M3	N	8,122	\$ 7,459.38	\$ 0.9184	\$ 7,459.38	Nordic Energy	
	TETCO	STX - M3	N	558	\$ 508.85	\$ 0.9119	\$ 508.85	Carbonbetter	
	TETCO	STX - M3	N	1,488	\$ 1,362.58	\$ 0.9157	\$ 1,362.58	Direct Energy	
	TETCO	STX - M3	N	1,395	\$ 1,276.37	\$ 0.9150	\$ 1,276.37	Direct Energy	
	TETCO	STX - M3	N	2,387	\$ 2,190.41	\$ 0.9176	\$ 2,190.41	Park Power	
	TETCO	STX - M3	N	558	\$ 508.85	\$ 0.9119	\$ 508.85	Alpha Gas	
	TETCO	STX - M3	N	1,023	\$ 939.95	\$ 0.9188	\$ 939.95	South Bay	
	TETCO	STX - M3	N	1,457	\$ 1,336.67	\$ 0.9174	\$ 1,336.67	Greenlight	
	TETCO	STX - M3	N	4,836	\$ 4,441.15	\$ 0.9184	\$ 4,441.15	American Power	
	TETCO	STX - M3	N	48,143	\$ 44,196.12	\$ 0.9180	\$ 44,196.12	SFE Energy	
	TETCO	STX - M3	N	2,790	\$ 2,561.22	\$ 0.9180	\$ 2,561.22	Shipley	
	TETCO	STX - M3	N	14,880	\$ 13,659.84	\$ 0.9180	\$ 13,659.84	WGL Energy	
	TETCO	STX - M3	N	4,805	\$ 4,406.74	\$ 0.9171	\$ 4,406.74	Statewise	
	TETCO	STX - M3	N	6,448	\$ 5,915.86	\$ 0.9175	\$ 5,915.86	Atlantic Energy	
	TETCO	STX - M3	N	2,108	\$ 1,931.74	\$ 0.9164	\$ 1,931.74	Josco Energy	
	TETCO	STX - M3	N	186	\$ 172.45	\$ 0.9272	\$ 172.45	Median Energy	
	TETCO	STX - M3	N	1,271	\$ 1,164.24	\$ 0.9160	\$ 1,164.24	Eligo Energy	
	TETCO	STX - M3	N	15,004	\$ 13,771.97	\$ 0.9179	\$ 13,771.97	Residents	
	TETCO	STX - M3	N	9,889	\$ 9,080.65	\$ 0.9183	\$ 9,080.65	Palanco	
	TETCO	STX - M3	N	775	\$ 707.21	\$ 0.9125	\$ 707.21	Spring	
	TETCO	STX - M3	N	13,423	\$ 12,323.15	\$ 0.9181	\$ 12,323.15	Vista Energy	
	TETCO	STX - M3	N	77,438	\$ 71,084.69	\$ 0.9180	\$ 71,084.69	UGI Energy	
	TETCO	STX - M3	N	87,451	\$ 80,277.46	\$ 0.9180	\$ 80,277.46	Constellation	
	TETCO	STX - M3	N	868	\$ 801.92	\$ 0.9239	\$ 801.92	RPA Energy	
	TETCO	STX - M3	N	16,275	\$ 14,936.21	\$ 0.9177	\$ 14,936.21	Sprague	
	TETCO	STX - M3	N	2,542	\$ 2,336.96	\$ 0.9193	\$ 2,336.96	EDF Trading	
	TETCO	STX - M3	N	5,642	\$ 5,182.76	\$ 0.9186	\$ 5,182.76	Marathon Power	
	TETCO	STX - M3	N	75,392	\$ 69,213.25	\$ 0.9180	\$ 69,213.25	Direct Energy	
	TETCO	STX - M3	N	35,123	\$ 32,243.75	\$ 0.9180	\$ 32,243.75	Direct Energy	
	TETCO	STX - M3	N	1,023	\$ 939.95	\$ 0.9188	\$ 939.95	New Wave Energy	
	TETCO	STX - M3	N	992	\$ 914.05	\$ 0.9214	\$ 914.05	UET	
	TETCO	STX - M3	N	310	\$ 284.59	\$ 0.9180	\$ 284.59	Clearview Electric	
	TETCO	STX - M3	N	13,113	\$ 12,038.58	\$ 0.9181	\$ 12,038.58	MPower	
	TETCO	STX - M3	N	1,798	\$ 1,647.17	\$ 0.9161	\$ 1,647.17	Spark Energy	
	TETCO	STX - M3	N	93,000	\$ 11,625.00	\$ 0.1250	\$ 11,625.00	Tenaska	
	TETCO	STX - M3	N	486,948	\$ 51,129.54	\$ 0.1050	\$ 51,129.54	Tenaska	
	TETCO	WLA - M3	N	558,000	\$ 226,157.42	\$ 0.4053	\$ 226,157.42	Grays Ferry	
	TETCO	WLA - M3	N	558,000	\$ 226,157.42	\$ 0.4053	\$ 226,157.42	Grays Ferry	
					2,155,461			\$ 936,886.12	
		TRANSCO	2-6	N	217	\$ 118.73	\$ 0.54714	\$ 118.73	Median Energy
		TRANSCO	2-6	N	341	\$ 186.62	\$ 0.54727	\$ 186.62	Clearview Electric
		TRANSCO	2-6	N	558	\$ 305.35	\$ 0.54722	\$ 305.35	Carbonbetter
		TRANSCO	2-6	N	589	\$ 322.09	\$ 0.54684	\$ 322.09	Alpha Gas
		TRANSCO	2-6	N	806	\$ 440.82	\$ 0.54692	\$ 440.82	Spring
		TRANSCO	2-6	N	868	\$ 474.92	\$ 0.54714	\$ 474.92	RPA Energy
		TRANSCO	2-6	N	1,023	\$ 559.55	\$ 0.54697	\$ 559.55	South Bay
		TRANSCO	2-6	N	1,023	\$ 559.55	\$ 0.54697	\$ 559.55	UET
		TRANSCO	2-6	N	1,054	\$ 576.60	\$ 0.54706	\$ 576.60	New Wave Energy
	TRANSCO	2-6	N	1,271	\$ 695.33	\$ 0.54707	\$ 695.33	Eligo Energy	
	TRANSCO	2-6	N	1,426	\$ 780.58	\$ 0.54739	\$ 780.58	Direct Energy	
	TRANSCO	2-6	N	1,457	\$ 797.32	\$ 0.54723	\$ 797.32	Greenlight	
	TRANSCO	2-6	N	1,488	\$ 814.37	\$ 0.54729	\$ 814.37	Direct Energy	
	TRANSCO	2-6	N	1,829	\$ 1,000.99	\$ 0.54729	\$ 1,000.99	Spark Energy	
	TRANSCO	2-6	N	2,139	\$ 1,170.56	\$ 0.54725	\$ 1,170.56	Josco Energy	
	TRANSCO	2-6	N	2,387	\$ 1,306.03	\$ 0.54714	\$ 1,306.03	Park Power	
	TRANSCO	2-6	N	2,573	\$ 1,408.02	\$ 0.54723	\$ 1,408.02	EDF Trading	
	TRANSCO	2-6	N	2,790	\$ 1,526.75	\$ 0.54722	\$ 1,526.75	Shipley	
	TRANSCO	2-6	N	4,805	\$ 2,629.42	\$ 0.54723	\$ 2,629.42	Statewise	
	TRANSCO	2-6	N	4,867	\$ 2,663.21	\$ 0.54720	\$ 2,663.21	American Power	
	TRANSCO	2-6	N	5,642	\$ 3,087.29	\$ 0.54720	\$ 3,087.29	Marathon Power	
	TRANSCO	2-6	N	6,479	\$ 3,545.16	\$ 0.54718	\$ 3,545.16	Atlantic Energy	
	TRANSCO	2-6	N	8,153	\$ 4,461.21	\$ 0.54719	\$ 4,461.21	Nordic Energy	
	TRANSCO	2-6	N	9,920	\$ 5,428.10	\$ 0.54719	\$ 5,428.10	Palanco	
	TRANSCO	2-6	N	13,144	\$ 7,192.31	\$ 0.54719	\$ 7,192.31	MPower	
	TRANSCO	2-6	N	13,454	\$ 7,361.88	\$ 0.54719	\$ 7,361.88	Vista Energy	
	TRANSCO	2-6	N	14,911	\$ 8,158.89	\$ 0.54717	\$ 8,158.89	WGL Energy	
	TRANSCO	2-6	N	15,035	\$ 8,226.78	\$ 0.54718	\$ 8,226.78	Residents	
	TRANSCO	2-6	N	16,275	\$ 8,905.37	\$ 0.54718	\$ 8,905.37	Sprague	
	TRANSCO	2-6	N	35,123	\$ 19,218.45	\$ 0.54718	\$ 19,218.45	Direct Energy	
	TRANSCO	2-6	N	48,143	\$ 26,342.87	\$ 0.54718	\$ 26,342.87	SFE Energy	
	TRANSCO	2-6	N	75,392	\$ 40,845.60	\$ 0.54178	\$ 40,845.60	Direct Energy	
	TRANSCO	2-6	N	77,438	\$ 42,372.35	\$ 0.54718	\$ 42,372.35	UGI Energy	
	TRANSCO	2-6	N	87,451	\$ 47,851.29	\$ 0.54718	\$ 47,851.29	Constellation	
	TRANSCO	1-3	N	310,000	\$ 32,550.00	\$ 0.10500	\$ 32,550.00	Vitol	
	TRANSCO	1-3	N	310,000	\$ 32,550.00	\$ 0.10500	\$ 32,550.00	Vitol	
	TRANSCO	2-3	N	155,000	\$ 9,300.00	\$ 0.06000	\$ 9,300.00	NJR Energy	
	TRANSCO	2-3	N	310,000	\$ 18,600.00	\$ 0.06000	\$ 18,600.00	NJR Energy	
	TRANSCO	3-6	N	620,000	\$ 34,162.00	\$ 0.05510	\$ 34,162.00	Twin Eagle	
	TRANSCO	3-6	N	620,000	\$ 34,162.00	\$ 0.05510	\$ 34,162.00	Twin Eagle	
	TRANSCO	3-6	N	620,000	\$ 145,700.00	\$ 0.23500	\$ 145,700.00	Citadel	
	TRANSCO	3-6	N	1,085,000	\$ 813,750.00	\$ 0.75000	\$ 813,750.00	Vitol	
	TRANSCO	3-4	N	12,500	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TRANSCO	4-5	N	31,250	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TRANSCO	3-4	N	180,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
	TRANSCO	4-5	N	450,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
				5,163,821			\$ 1,372,108.36		

M / YR	PIPELINE	PATH	RECALL STATUS	MONTHLY VOLUME DTH	TOTAL MONTHLY CREDIT	CREDIT DTH	TOTAL CREDIT	REPLACEMENT SHIPPER	
August-22	TETCO	STX - M3	N	87,730	\$ 80,536.14	\$ 0.9180	\$ 80,536.14	Constellation	
	TETCO	STX - M3	N	74,679	\$ 68,557.86	\$ 0.9180	\$ 68,557.86	Direct Energy	
	TETCO	STX - M3	N	40,238	\$ 36,498.18	\$ 0.9071	\$ 36,498.18	Direct Energy	
	TETCO	STX - M3	N	14,849	\$ 13,633.95	\$ 0.9182	\$ 13,633.95	Sprague	
	TETCO	STX - M3	N	13,268	\$ 12,176.63	\$ 0.9177	\$ 12,176.63	Vista Energy	
	TETCO	STX - M3	N	2,728	\$ 2,500.90	\$ 0.9168	\$ 2,500.90	Shipley	
	TETCO	STX - M3	N	1,643	\$ 1,509.12	\$ 0.9185	\$ 1,509.12	Direct Energy	
	TETCO	STX - M3	N	5,208	\$ 4,777.55	\$ 0.9173	\$ 4,777.55	American Power	
	TETCO	STX - M3	N	2,201	\$ 2,017.98	\$ 0.9168	\$ 2,017.98	Park Power	
	TETCO	STX - M3	N	48,081	\$ 44,135.81	\$ 0.9179	\$ 44,135.81	SFE Energy	
	TETCO	STX - M3	N	4,712	\$ 4,329.01	\$ 0.9187	\$ 4,329.01	Statewise	
	TETCO	STX - M3	N	992	\$ 914.05	\$ 0.9214	\$ 914.05	South Bay	
	TETCO	STX - M3	N	527	\$ 482.96	\$ 0.9164	\$ 482.96	Alpha Gas	
	TETCO	STX - M3	N	961	\$ 879.66	\$ 0.9154	\$ 879.66	New Wave Energy	
	TETCO	STX - M3	N	9,331	\$ 8,563.31	\$ 0.9177	\$ 8,563.31	Palanco	
	TETCO	STX - M3	N	8,277	\$ 7,597.45	\$ 0.9179	\$ 7,597.45	Nordic Energy	
	TETCO	STX - M3	N	992	\$ 914.05	\$ 0.9214	\$ 914.05	UET	
	TETCO	STX - M3	N	76,725	\$ 70,429.30	\$ 0.9179	\$ 70,429.30	UGI Energy	
	TETCO	STX - M3	N	2,542	\$ 2,336.96	\$ 0.9193	\$ 2,336.96	EDF Trading	
	TETCO	STX - M3	N	1,736	\$ 1,595.34	\$ 0.9190	\$ 1,595.34	Spark Energy	
	TETCO	STX - M3	N	496	\$ 457.03	\$ 0.9214	\$ 457.03	Carbonbetter	
	TETCO	STX - M3	N	1,457	\$ 1,336.67	\$ 0.9174	\$ 1,336.67	Direct Energy	
	TETCO	STX - M3	N	5,642	\$ 5,182.76	\$ 0.9186	\$ 5,182.76	Marathon Power	
	TETCO	STX - M3	N	14,446	\$ 13,263.13	\$ 0.9181	\$ 13,263.13	WGL Energy	
	TETCO	STX - M3	N	248	\$ 224.26	\$ 0.9043	\$ 224.26	Clearview Electric	
	TETCO	STX - M3	N	2,015	\$ 1,845.52	\$ 0.9159	\$ 1,845.52	Josco Energy	
	TETCO	STX - M3	N	6,107	\$ 5,605.39	\$ 0.9179	\$ 5,605.39	Atlantic Energy	
	TETCO	STX - M3	N	1,488	\$ 1,371.08	\$ 0.9214	\$ 1,371.08	RPA Energy	
	TETCO	STX - M3	N	775	\$ 707.21	\$ 0.9125	\$ 707.21	Spring	
	TETCO	STX - M3	N	16,461	\$ 15,108.66	\$ 0.9178	\$ 15,108.66	Residents	
	TETCO	STX - M3	N	1,147	\$ 1,052.10	\$ 0.9173	\$ 1,052.10	Eligo Energy	
	TETCO	STX - M3	N	186	\$ 172.45	\$ 0.9272	\$ 172.45	Median Energy	
	TETCO	STX - M3	N	14,818	\$ 13,599.53	\$ 0.9178	\$ 13,599.53	MPower	
	TETCO	STX - M3	N	1,550	\$ 1,422.91	\$ 0.9180	\$ 1,422.91	Greenlight	
	TETCO	STX - M3	N	93,000	\$ 11,625.00	\$ 0.1250	\$ 11,625.00	Tenaska	
	TETCO	STX - M3	N	486,948	\$ 51,129.54	\$ 0.1050	\$ 51,129.54	Tenaska	
	TETCO	WLA - M3	N	558,000	\$ 280,729.78	\$ 0.5031	\$ 280,729.78	Grays Ferry	
	TETCO	WLA - M3	N	558,000	\$ 280,729.78	\$ 0.5031	\$ 280,729.78	Grays Ferry	
					2,160,204			\$ 1,049,949.01	
		TRANSCO	2-6	N	186	\$ 101.68	\$ 0.54667	\$ 101.68	Median Energy
		TRANSCO	2-6	N	279	\$ 152.52	\$ 0.54667	\$ 152.52	Clearview Electric
		TRANSCO	2-6	N	527	\$ 288.30	\$ 0.54706	\$ 288.30	Carbonbetter
		TRANSCO	2-6	N	527	\$ 288.30	\$ 0.54706	\$ 288.30	Alpha Gas
		TRANSCO	2-6	N	806	\$ 440.82	\$ 0.54692	\$ 440.82	Spring
		TRANSCO	2-6	N	961	\$ 525.76	\$ 0.54710	\$ 525.76	New Wave Energy
		TRANSCO	2-6	N	992	\$ 542.81	\$ 0.54719	\$ 542.81	South Bay
		TRANSCO	2-6	N	1,023	\$ 559.55	\$ 0.54697	\$ 559.55	UET
		TRANSCO	2-6	N	1,178	\$ 644.49	\$ 0.54711	\$ 644.49	Eligo Energy
	TRANSCO	2-6	N	1,457	\$ 797.32	\$ 0.54723	\$ 797.32	Direct Energy	
	TRANSCO	2-6	N	1,519	\$ 831.42	\$ 0.54735	\$ 831.42	RPA Energy	
	TRANSCO	2-6	N	1,550	\$ 848.16	\$ 0.54720	\$ 848.16	Greenlight	
	TRANSCO	2-6	N	1,643	\$ 899.00	\$ 0.54717	\$ 899.00	Direct Energy	
	TRANSCO	2-6	N	1,736	\$ 950.15	\$ 0.54732	\$ 950.15	Spark Energy	
	TRANSCO	2-6	N	2,046	\$ 1,119.72	\$ 0.54727	\$ 1,119.72	Josco Energy	
	TRANSCO	2-6	N	2,232	\$ 1,221.40	\$ 0.54722	\$ 1,221.40	Park Power	
	TRANSCO	2-6	N	2,542	\$ 1,390.97	\$ 0.54720	\$ 1,390.97	EDF Trading	
	TRANSCO	2-6	N	2,728	\$ 1,492.65	\$ 0.54716	\$ 1,492.65	Shipley	
	TRANSCO	2-6	N	4,712	\$ 2,578.27	\$ 0.54717	\$ 2,578.27	Statewise	
	TRANSCO	2-6	N	5,239	\$ 2,866.57	\$ 0.54716	\$ 2,866.57	American Power	
	TRANSCO	2-6	N	5,642	\$ 3,087.29	\$ 0.54720	\$ 3,087.29	Marathon Power	
	TRANSCO	2-6	N	6,107	\$ 3,341.49	\$ 0.54716	\$ 3,341.49	Atlantic Energy	
	TRANSCO	2-6	N	8,277	\$ 4,529.10	\$ 0.54719	\$ 4,529.10	Nordic Energy	
	TRANSCO	2-6	N	9,331	\$ 5,105.70	\$ 0.54718	\$ 5,105.70	Palanco	
	TRANSCO	2-6	N	13,299	\$ 7,276.94	\$ 0.54718	\$ 7,276.94	Vista Energy	
	TRANSCO	2-6	N	14,446	\$ 7,904.38	\$ 0.54717	\$ 7,904.38	WGL Energy	
	TRANSCO	2-6	N	14,849	\$ 8,125.10	\$ 0.54718	\$ 8,125.10	Mpower	
	TRANSCO	2-6	N	14,880	\$ 8,141.84	\$ 0.54717	\$ 8,141.84	Sprague	
	TRANSCO	2-6	N	16,461	\$ 9,007.05	\$ 0.54718	\$ 9,007.05	Residents	
	TRANSCO	2-6	N	40,238	\$ 22,017.44	\$ 0.54718	\$ 22,017.44	Direct Energy	
	TRANSCO	2-6	N	48,081	\$ 26,309.08	\$ 0.54718	\$ 26,309.08	SFE Energy	
	TRANSCO	2-6	N	74,679	\$ 40,862.65	\$ 0.54718	\$ 40,862.65	Direct Energy	
	TRANSCO	2-6	N	76,725	\$ 41,982.37	\$ 0.54718	\$ 41,982.37	UGI Energy	
	TRANSCO	2-6	N	87,730	\$ 48,004.12	\$ 0.54718	\$ 48,004.12	Constellation	
	TRANSCO	1-3	N	310,000	\$ 32,550.00	\$ 0.10500	\$ 32,550.00	Vitol	
	TRANSCO	1-3	N	310,000	\$ 32,550.00	\$ 0.10500	\$ 32,550.00	Vitol	
	TRANSCO	2-3	N	155,000	\$ 9,300.00	\$ 0.06000	\$ 9,300.00	NJR Energy	
	TRANSCO	2-3	N	310,000	\$ 18,600.00	\$ 0.06000	\$ 18,600.00	NJR Energy	
	TRANSCO	3-6	N	620,000	\$ 34,162.00	\$ 0.05510	\$ 34,162.00	Twin Eagle	
	TRANSCO	3-6	N	620,000	\$ 34,162.00	\$ 0.05510	\$ 34,162.00	Twin Eagle	
	TRANSCO	3-6	N	620,000	\$ 145,700.00	\$ 0.23500	\$ 145,700.00	Citadel	
	TRANSCO	3-6	N	1,085,000	\$ 379,750.00	\$ 0.35000	\$ 379,750.00	Koch Energy	
	TRANSCO	2-5	N	290,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
				4,784,628			\$ 941,008.41		

M / YR	PIPELINE	PATH	RECALL STATUS	MONTHLY VOLUME DTH	TOTAL MONTHLY CREDIT	CREDIT DTH	TOTAL CREDIT	REPLACEMENT SHIPPER	
September-22	TETCO	STX - M3	N	12,960	\$ 11,918.86	\$ 0.9197	\$ 11,918.86	Sprague	
	TETCO	STX - M3	N	2,580	\$ 2,373.73	\$ 0.9201	\$ 2,373.73	Shipley	
	TETCO	STX - M3	N	12,630	\$ 11,609.68	\$ 0.9192	\$ 11,609.68	Vista Energy	
	TETCO	STX - M3	N	38,610	\$ 35,497.60	\$ 0.9194	\$ 35,497.60	Direct Energy	
	TETCO	STX - M3	N	69,750	\$ 64,132.99	\$ 0.9195	\$ 64,132.99	Direct Energy	
	TETCO	STX - M3	N	960	\$ 885.94	\$ 0.9229	\$ 885.94	UET	
	TETCO	STX - M3	N	6,270	\$ 5,767.18	\$ 0.9198	\$ 5,767.18	Atlantic Energy	
	TETCO	STX - M3	N	111,330	\$ 102,355.44	\$ 0.9194	\$ 102,355.44	UGI Energy	
	TETCO	STX - M3	N	46,830	\$ 43,053.49	\$ 0.9194	\$ 43,053.49	SFE Energy	
	TETCO	STX - M3	N	4,470	\$ 4,112.25	\$ 0.9200	\$ 4,112.25	Statawise	
	TETCO	STX - M3	N	13,200	\$ 12,136.22	\$ 0.9194	\$ 12,136.22	WGL Energy	
	TETCO	STX - M3	N	4,290	\$ 3,945.10	\$ 0.9196	\$ 3,945.10	Nordic Energy	
	TETCO	STX - M3	N	75,780	\$ 69,674.54	\$ 0.9194	\$ 69,674.54	Constellation	
	TETCO	STX - M3	N	5,430	\$ 4,989.92	\$ 0.9190	\$ 4,989.92	American Power	
	TETCO	STX - M3	N	690	\$ 635.23	\$ 0.9206	\$ 635.23	Spring	
	TETCO	STX - M3	N	16,800	\$ 15,446.08	\$ 0.9194	\$ 15,446.08	Residents	
	TETCO	STX - M3	N	1,140	\$ 1,044.82	\$ 0.9165	\$ 1,044.82	Eligo Energy	
	TETCO	STX - M3	N	150	\$ 142.06	\$ 0.9471	\$ 142.06	Median Energy	
	TETCO	STX - M3	N	30	\$ 33.38	\$ 1.1127	\$ 33.38	Santanna	
	TETCO	STX - M3	N	5,160	\$ 4,747.47	\$ 0.9201	\$ 4,747.47	Marathon Power	
	TETCO	STX - M3	N	300	\$ 275.82	\$ 0.9194	\$ 275.82	Clearview Electric	
	TETCO	STX - M3	N	1,260	\$ 1,161.76	\$ 0.9220	\$ 1,161.76	South Bay	
	TETCO	STX - M3	N	480	\$ 442.97	\$ 0.9229	\$ 442.97	Alpha Gas	
	TETCO	STX - M3	N	1,470	\$ 1,354.02	\$ 0.9211	\$ 1,354.02	Greenlight	
	TETCO	STX - M3	N	1,980	\$ 1,822.08	\$ 0.9202	\$ 1,822.08	Park Power	
	TETCO	STX - M3	N	1,380	\$ 1,270.43	\$ 0.9206	\$ 1,270.43	Direct Energy	
	TETCO	STX - M3	N	810	\$ 743.89	\$ 0.9184	\$ 743.89	New Wave Energy	
	TETCO	STX - M3	N	1,590	\$ 1,462.70	\$ 0.9199	\$ 1,462.70	Direct Energy	
	TETCO	STX - M3	N	450	\$ 417.88	\$ 0.9286	\$ 417.88	Carbonbetter	
	TETCO	STX - M3	N	1,680	\$ 1,546.26	\$ 0.9204	\$ 1,546.26	Spark Energy	
	TETCO	STX - M3	N	2,430	\$ 2,231.69	\$ 0.9184	\$ 2,231.69	EDF Trading	
	TETCO	STX - M3	N	8,610	\$ 7,915.30	\$ 0.9193	\$ 7,915.30	Palmco	
	TETCO	STX - M3	N	1,530	\$ 1,412.50	\$ 0.9232	\$ 1,412.50	RPA Energy	
	TETCO	STX - M3	N	15,630	\$ 14,367.91	\$ 0.9193	\$ 14,367.91	MPower	
	TETCO	STX - M3	N	1,920	\$ 1,763.62	\$ 0.9186	\$ 1,763.62	Josco Energy	
	TETCO	STX - M3	N	90,000	\$ 11,250.00	\$ 0.1250	\$ 11,250.00	Tenaska	
	TETCO	STX - M3	N	471,240	\$ 49,480.20	\$ 0.1050	\$ 49,480.20	Tenaska	
	TETCO	WLA - M3	N	540,000	\$ 280,692.01	\$ 0.5198	\$ 280,692.01	Grays Ferry	
	TETCO	WLA - M3	N	540,000	\$ 280,692.01	\$ 0.5198	\$ 280,692.01	Grays Ferry	
					2,111,820			\$ 1,054,805.03	
		TRANSCO	2-6	N	30	\$ 16.50	\$ 0.55000	\$ 16.50	Santanna
		TRANSCO	2-6	N	150	\$ 82.20	\$ 0.54800	\$ 82.20	Median Energy
		TRANSCO	2-6	N	300	\$ 164.10	\$ 0.54700	\$ 164.10	Clearview Electric
		TRANSCO	2-6	N	480	\$ 262.50	\$ 0.54688	\$ 262.50	Alpha Gas
		TRANSCO	2-6	N	480	\$ 262.50	\$ 0.54688	\$ 262.50	Carbonbetter
		TRANSCO	2-6	N	720	\$ 393.90	\$ 0.54708	\$ 393.90	Spring
		TRANSCO	2-6	N	810	\$ 443.10	\$ 0.54704	\$ 443.10	New Wave Energy
		TRANSCO	2-6	N	990	\$ 541.50	\$ 0.54697	\$ 541.50	UET
		TRANSCO	2-6	N	1,140	\$ 623.70	\$ 0.54711	\$ 623.70	Eligo Energy
	TRANSCO	2-6	N	1,290	\$ 705.60	\$ 0.54698	\$ 705.60	South Bay	
	TRANSCO	2-6	N	1,380	\$ 755.40	\$ 0.54739	\$ 755.40	Direct Energy	
	TRANSCO	2-6	N	1,470	\$ 804.60	\$ 0.54735	\$ 804.60	Greenlight	
	TRANSCO	2-6	N	1,560	\$ 853.80	\$ 0.54731	\$ 853.80	RPA Energy	
	TRANSCO	2-6	N	1,590	\$ 870.00	\$ 0.54717	\$ 870.00	Direct Energy	
	TRANSCO	2-6	N	1,710	\$ 935.70	\$ 0.54719	\$ 935.70	Spark Energy	
	TRANSCO	2-6	N	1,920	\$ 1,050.60	\$ 0.54719	\$ 1,050.60	Josco Energy	
	TRANSCO	2-6	N	1,980	\$ 1,083.60	\$ 0.54727	\$ 1,083.60	Park Power	
	TRANSCO	2-6	N	2,460	\$ 1,346.10	\$ 0.54720	\$ 1,346.10	EDF Trading	
	TRANSCO	2-6	N	2,610	\$ 1,428.30	\$ 0.54724	\$ 1,428.30	Shipley	
	TRANSCO	2-6	N	4,320	\$ 2,364.00	\$ 0.54722	\$ 2,364.00	Nordic Energy	
	TRANSCO	2-6	N	4,500	\$ 2,462.40	\$ 0.54720	\$ 2,462.40	Statawise	
	TRANSCO	2-6	N	5,190	\$ 2,839.80	\$ 0.54717	\$ 2,839.80	Marathon Power	
	TRANSCO	2-6	N	5,460	\$ 2,987.70	\$ 0.54720	\$ 2,987.70	American Power	
	TRANSCO	2-6	N	6,270	\$ 3,430.80	\$ 0.54718	\$ 3,430.80	Atlantic Energy	
	TRANSCO	2-6	N	8,610	\$ 4,711.20	\$ 0.54718	\$ 4,711.20	Palmco	
	TRANSCO	2-6	N	12,630	\$ 6,911.10	\$ 0.54720	\$ 6,911.10	Vista Energy	
	TRANSCO	2-6	N	12,990	\$ 7,107.90	\$ 0.54718	\$ 7,107.90	Sprague	
	TRANSCO	2-6	N	13,230	\$ 7,239.30	\$ 0.54719	\$ 7,239.30	WGL Energy	
	TRANSCO	2-6	N	15,630	\$ 8,552.40	\$ 0.54718	\$ 8,552.40	MPower	
	TRANSCO	2-6	N	16,830	\$ 9,209.10	\$ 0.54718	\$ 9,209.10	Residents	
	TRANSCO	2-6	N	38,640	\$ 21,143.10	\$ 0.54718	\$ 21,143.10	Direct Energy	
	TRANSCO	2-6	N	46,860	\$ 25,640.70	\$ 0.54718	\$ 25,640.70	SFE Energy	
	TRANSCO	2-6	N	69,750	\$ 38,166.00	\$ 0.54718	\$ 38,166.00	Direct Energy	
	TRANSCO	2-6	N	75,780	\$ 41,465.40	\$ 0.54718	\$ 41,465.40	Constellation	
	TRANSCO	2-6	N	111,330	\$ 60,917.70	\$ 0.54718	\$ 60,917.70	UGI Energy	
	TRANSCO	3-6	N	525,000	\$ 71,400.00	\$ 0.13600	\$ 71,400.00	BP	
	TRANSCO	1-3	N	300,000	\$ 31,500.00	\$ 0.10500	\$ 31,500.00	Vitol	
	TRANSCO	1-3	N	300,000	\$ 31,500.00	\$ 0.10500	\$ 31,500.00	Vitol	
	TRANSCO	2-3	N	150,000	\$ 9,000.00	\$ 0.06000	\$ 9,000.00	NJR Energy	
	TRANSCO	2-3	N	300,000	\$ 18,000.00	\$ 0.06000	\$ 18,000.00	NJR Energy	
	TRANSCO	3-6	N	600,000	\$ 33,060.00	\$ 0.05510	\$ 33,060.00	Twin Eagle	
	TRANSCO	3-6	N	600,000	\$ 33,060.00	\$ 0.05510	\$ 33,060.00	Twin Eagle	
	TRANSCO	3-6	N	525,000	\$ 131,250.00	\$ 0.25000	\$ 131,250.00	Vitol	
	TRANSCO	2-5	N	300,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
				4,071,090			\$ 616,542.30		

M / YR	PIPELINE	PATH	RECALL STATUS	MONTHLY VOLUME DTH	TOTAL MONTHLY CREDIT	CREDIT DTH	TOTAL CREDIT	REPLACEMENT SHIPPER	
October-22	TETCO	STX - M3	N	1,302	\$ 1,200.49	\$ 0.9220	\$ 1,200.49	Direct Energy	
	TETCO	STX - M3	N	589	\$ 544.09	\$ 0.9238	\$ 544.09	New Wave Energy	
	TETCO	STX - M3	N	1,519	\$ 1,399.16	\$ 0.9211	\$ 1,399.16	RPA Energy	
	TETCO	STX - M3	N	4,371	\$ 4,016.18	\$ 0.9188	\$ 4,016.18	Nordic Energy	
	TETCO	STX - M3	N	5,549	\$ 5,104.37	\$ 0.9199	\$ 5,104.37	American Power	
	TETCO	STX - M3	N	403	\$ 371.37	\$ 0.9215	\$ 371.37	Clearview Electric	
	TETCO	STX - M3	N	279	\$ 259.08	\$ 0.9286	\$ 259.08	Santanna	
	TETCO	STX - M3	N	2,511	\$ 2,306.09	\$ 0.9184	\$ 2,306.09	EDF Trading	
	TETCO	STX - M3	N	651	\$ 595.96	\$ 0.9155	\$ 595.96	Spring	
	TETCO	STX - M3	N	17,081	\$ 15,701.88	\$ 0.9193	\$ 15,701.88	Residents	
	TETCO	STX - M3	N	124	\$ 112.30	\$ 0.9056	\$ 112.30	Median Energy	
	TETCO	STX - M3	N	1,085	\$ 993.30	\$ 0.9155	\$ 993.30	Eligo Energy	
	TETCO	STX - M3	N	12,462	\$ 11,461.11	\$ 0.9197	\$ 11,461.11	Vista Energy	
	TETCO	STX - M3	N	3,751	\$ 3,446.14	\$ 0.9187	\$ 3,446.14	Marathon Power	
	TETCO	STX - M3	N	47,027	\$ 43,236.24	\$ 0.9194	\$ 43,236.24	SFE Energy	
	TETCO	STX - M3	N	4,247	\$ 3,903.88	\$ 0.9192	\$ 3,903.88	Statawise	
	TETCO	STX - M3	N	6,045	\$ 5,562.10	\$ 0.9201	\$ 5,562.10	Atlantic Energy	
	TETCO	STX - M3	N	1,860	\$ 1,710.10	\$ 0.9194	\$ 1,710.10	Josco Energy	
	TETCO	STX - M3	N	1,767	\$ 1,623.74	\$ 0.9189	\$ 1,623.74	Park Power	
	TETCO	STX - M3	N	465	\$ 431.80	\$ 0.9286	\$ 431.80	Alpha Gas	
	TETCO	STX - M3	N	16,182	\$ 14,881.32	\$ 0.9196	\$ 14,881.32	MPower	
	TETCO	STX - M3	N	1,271	\$ 1,166.01	\$ 0.9174	\$ 1,166.01	South Bay	
	TETCO	STX - M3	N	7,440	\$ 6,840.41	\$ 0.9194	\$ 6,840.41	Palmo	
	TETCO	STX - M3	N	2,728	\$ 2,504.73	\$ 0.9182	\$ 2,504.73	UET	
	TETCO	STX - M3	N	9,827	\$ 9,034.20	\$ 0.9193	\$ 9,034.20	Sprague	
	TETCO	STX - M3	N	11,656	\$ 10,718.35	\$ 0.9196	\$ 10,718.35	WGL Energy	
	TETCO	STX - M3	N	2,604	\$ 2,392.45	\$ 0.9188	\$ 2,392.45	Shiple	
	TETCO	STX - M3	N	70,308	\$ 64,638.46	\$ 0.9194	\$ 64,638.46	Direct Energy	
	TETCO	STX - M3	N	38,502	\$ 35,402.54	\$ 0.9195	\$ 35,402.54	Direct Energy	
	TETCO	STX - M3	N	1,612	\$ 1,485.51	\$ 0.9215	\$ 1,485.51	Direct Energy	
	TETCO	STX - M3	N	113,584	\$ 104,428.55	\$ 0.9194	\$ 104,428.55	UGI Energy	
	TETCO	STX - M3	N	1,333	\$ 1,226.44	\$ 0.9201	\$ 1,226.44	Greenlight	
	TETCO	STX - M3	N	67,022	\$ 61,624.12	\$ 0.9195	\$ 61,624.12	Constellation	
	TETCO	STX - M3	N	1,426	\$ 1,312.78	\$ 0.9206	\$ 1,312.78	Spark Energy	
	TETCO	STX - M3	N	434	\$ 397.31	\$ 0.9155	\$ 397.31	Carbonbetter	
	TETCO	STX - M3	N	93,000	\$ 11,625.00	\$ 0.1250	\$ 11,625.00	Tenaska	
	TETCO	STX - M3	N	486,948	\$ 51,129.54	\$ 0.1050	\$ 51,129.54	Tenaska	
	TETCO	WLA - M3	N	558,000	\$ 25,668.00	\$ 0.0460	\$ 25,668.00	Twin Eagle	
	TETCO	WLA - M3	N	558,000	\$ 25,668.00	\$ 0.0460	\$ 25,668.00	Twin Eagle	
					2,154,965			\$ 536,123.10	
		TRANSCO	2-6	N	31	\$ 17.05	\$ 0.55000	\$ 17.05	Santanna
		TRANSCO	2-6	N	124	\$ 67.89	\$ 0.54750	\$ 67.89	Median Energy
		TRANSCO	2-6	N	403	\$ 220.41	\$ 0.54692	\$ 220.41	Clearview Electric
		TRANSCO	2-6	N	465	\$ 254.51	\$ 0.54733	\$ 254.51	Carbonbetter
		TRANSCO	2-6	N	496	\$ 271.25	\$ 0.54688	\$ 271.25	Alpha Gas
		TRANSCO	2-6	N	589	\$ 322.09	\$ 0.54684	\$ 322.09	New Wave Energy
		TRANSCO	2-6	N	651	\$ 356.19	\$ 0.54714	\$ 356.19	Spring
		TRANSCO	2-6	N	1,085	\$ 593.65	\$ 0.54714	\$ 593.65	Eligo Energy
		TRANSCO	2-6	N	1,302	\$ 712.38	\$ 0.54714	\$ 712.38	South Bay
	TRANSCO	2-6	N	1,333	\$ 729.12	\$ 0.54698	\$ 729.12	Direct Energy	
	TRANSCO	2-6	N	1,333	\$ 729.12	\$ 0.54698	\$ 729.12	Greenlight	
	TRANSCO	2-6	N	1,426	\$ 780.58	\$ 0.54739	\$ 780.58	Spark Energy	
	TRANSCO	2-6	N	1,519	\$ 831.42	\$ 0.54735	\$ 831.42	RPA Energy	
	TRANSCO	2-6	N	1,643	\$ 899.00	\$ 0.54717	\$ 899.00	Direct Energy	
	TRANSCO	2-6	N	1,767	\$ 966.89	\$ 0.54719	\$ 966.89	Park Power	
	TRANSCO	2-6	N	1,860	\$ 1,017.73	\$ 0.54717	\$ 1,017.73	Josco Energy	
	TRANSCO	2-6	N	2,542	\$ 1,390.97	\$ 0.54720	\$ 1,390.97	EDF Trading	
	TRANSCO	2-6	N	2,635	\$ 1,441.81	\$ 0.54718	\$ 1,441.81	Shiple	
	TRANSCO	2-6	N	2,759	\$ 1,509.70	\$ 0.54719	\$ 1,509.70	UET	
	TRANSCO	2-6	N	3,782	\$ 2,069.25	\$ 0.54713	\$ 2,069.25	Marathon Power	
	TRANSCO	2-6	N	4,247	\$ 2,324.07	\$ 0.54723	\$ 2,324.07	Statawise	
	TRANSCO	2-6	N	4,402	\$ 2,408.70	\$ 0.54718	\$ 2,408.70	Nordic Energy	
	TRANSCO	2-6	N	5,580	\$ 3,053.19	\$ 0.54717	\$ 3,053.19	American Power	
	TRANSCO	2-6	N	6,076	\$ 3,324.75	\$ 0.54719	\$ 3,324.75	Atlantic Energy	
	TRANSCO	2-6	N	7,440	\$ 4,071.23	\$ 0.54721	\$ 4,071.23	Palmo	
	TRANSCO	2-6	N	9,827	\$ 5,376.95	\$ 0.54716	\$ 5,376.95	Sprague	
	TRANSCO	2-6	N	11,687	\$ 6,394.99	\$ 0.54719	\$ 6,394.99	WGL Energy	
	TRANSCO	2-6	N	12,462	\$ 6,818.76	\$ 0.54716	\$ 6,818.76	Vista Energy	
	TRANSCO	2-6	N	16,213	\$ 8,871.58	\$ 0.54719	\$ 8,871.58	MPower	
	TRANSCO	2-6	N	17,081	\$ 9,346.50	\$ 0.54719	\$ 9,346.50	Residents	
	TRANSCO	2-6	N	38,533	\$ 21,084.65	\$ 0.54718	\$ 21,084.65	Direct Energy	
	TRANSCO	2-6	N	47,058	\$ 25,749.22	\$ 0.54718	\$ 25,749.22	SFE Energy	
	TRANSCO	2-6	N	67,053	\$ 36,690.05	\$ 0.54718	\$ 36,690.05	Constellation	
	TRANSCO	2-6	N	70,308	\$ 38,471.00	\$ 0.54718	\$ 38,471.00	Direct Energy	
	TRANSCO	2-6	N	113,584	\$ 62,150.66	\$ 0.54718	\$ 62,150.66	UGI Energy	
	TRANSCO	1-3	N	310,000	\$ 32,550.00	\$ 0.10500	\$ 32,550.00	Vitol	
	TRANSCO	1-3	N	310,000	\$ 32,550.00	\$ 0.10500	\$ 32,550.00	Vitol	
	TRANSCO	2-3	N	155,000	\$ 9,300.00	\$ 0.06000	\$ 9,300.00	NJR Energy	
	TRANSCO	2-3	N	310,000	\$ 18,600.00	\$ 0.06000	\$ 18,600.00	NJR Energy	
	TRANSCO	3-6	N	620,000	\$ 34,162.00	\$ 0.05510	\$ 34,162.00	Twin Eagle	
	TRANSCO	3-6	N	620,000	\$ 34,162.00	\$ 0.05510	\$ 34,162.00	Twin Eagle	
				2,784,296			\$ 412,641.31		

M / YR	PIPELINE	PATH	RECALL STATUS	MONTHLY VOLUME DTH	TOTAL MONTHLY CREDIT	CREDIT DTH	TOTAL CREDIT	REPLACEMENT SHIPPER
November-22	TETCO	STX - M3	N	16,440	\$ 15,111.79	\$ 0.9192	\$ 15,111.79	Sprague
	TETCO	STX - M3	N	2,340	\$ 2,148.11	\$ 0.9180	\$ 2,148.11	Shipley
	TETCO	STX - M3	N	11,310	\$ 10,397.70	\$ 0.9193	\$ 10,397.70	Vista Energy
	TETCO	STX - M3	N	7,980	\$ 7,338.54	\$ 0.9196	\$ 7,338.54	Palmco
	TETCO	STX - M3	N	1,170	\$ 1,078.20	\$ 0.9215	\$ 1,078.20	South Bay
	TETCO	STX - M3	N	420	\$ 384.50	\$ 0.9155	\$ 384.50	Alpha Gas
	TETCO	STX - M3	N	1,260	\$ 1,161.76	\$ 0.9220	\$ 1,161.76	Greenlight
	TETCO	STX - M3	N	1,740	\$ 1,596.47	\$ 0.9175	\$ 1,596.47	Park Power
	TETCO	STX - M3	N	48,600	\$ 44,683.33	\$ 0.9194	\$ 44,683.33	SFE Energy
	TETCO	STX - M3	N	3,960	\$ 3,644.17	\$ 0.9202	\$ 3,644.17	Statewise
	TETCO	STX - M3	N	3,690	\$ 3,393.46	\$ 0.9196	\$ 3,393.46	Nordic Energy
	TETCO	STX - M3	N	80,190	\$ 73,728.33	\$ 0.9194	\$ 73,728.33	Constellation
	TETCO	STX - M3	N	1,080	\$ 994.62	\$ 0.9209	\$ 994.62	New Wave Energy
	TETCO	STX - M3	N	1,590	\$ 1,462.70	\$ 0.9199	\$ 1,462.70	RPA Energy
	TETCO	STX - M3	N	5,940	\$ 5,457.98	\$ 0.9189	\$ 5,457.98	American Power
	TETCO	STX - M3	N	4,800	\$ 4,413.16	\$ 0.9194	\$ 4,413.16	Marathon Power
	TETCO	STX - M3	N	450	\$ 417.88	\$ 0.9286	\$ 417.88	Clearview Electric
	TETCO	STX - M3	N	15,630	\$ 14,367.91	\$ 0.9193	\$ 14,367.91	WGL Energy
	TETCO	STX - M3	N	105,540	\$ 97,031.22	\$ 0.9194	\$ 97,031.22	UGI Energy
	TETCO	STX - M3	N	1,680	\$ 1,546.26	\$ 0.9204	\$ 1,546.26	Spark Energy
	TETCO	STX - M3	N	660	\$ 610.13	\$ 0.9244	\$ 610.13	Spring
	TETCO	STX - M3	N	1,020	\$ 936.15	\$ 0.9178	\$ 936.15	Eligo Energy
	TETCO	STX - M3	N	150	\$ 142.06	\$ 0.9471	\$ 142.06	Median Energy
	TETCO	STX - M3	N	1,650	\$ 1,512.90	\$ 0.9169	\$ 1,512.90	Josco Energy
	TETCO	STX - M3	N	5,640	\$ 5,182.16	\$ 0.9188	\$ 5,182.16	Atlantic Energy
	TETCO	STX - M3	N	1,530	\$ 1,404.22	\$ 0.9178	\$ 1,404.22	Direct Energy
	TETCO	STX - M3	N	1,530	\$ 1,404.22	\$ 0.9178	\$ 1,404.22	Direct Energy
	TETCO	STX - M3	N	37,710	\$ 34,670.13	\$ 0.9194	\$ 34,670.13	Direct Energy
	TETCO	STX - M3	N	69,750	\$ 64,132.99	\$ 0.9195	\$ 64,132.99	Direct Energy
	TETCO	STX - M3	N	2,220	\$ 2,039.44	\$ 0.9187	\$ 2,039.44	EDF Trading
	TETCO	STX - M3	N	360	\$ 334.30	\$ 0.9286	\$ 334.30	Santanna
	TETCO	STX - M3	N	2,670	\$ 2,457.31	\$ 0.9203	\$ 2,457.31	UET
	TETCO	STX - M3	N	17,760	\$ 16,332.03	\$ 0.9196	\$ 16,332.03	Mpower
	TETCO	STX - M3	N	18,060	\$ 16,607.86	\$ 0.9196	\$ 16,607.86	Residents
	TETCO	M3 - M3	N	471,240	\$ 47,124.00	\$ 0.1000	\$ 47,124.00	Paulsboro
	TETCO	STX - M3	N	471,240	\$ 1,531,530.00	\$ 3.2500	\$ 1,531,530.00	Vitol
	TETCO	STX - M3	N	90,000	\$ 292,500.00	\$ 3.2500	\$ 292,500.00	Vitol
				1,509,000			\$ 2,309,277.99	
	TRANSCO	2-6	N	150	\$ 82.20	\$ 0.54800	\$ 82.20	Median Energy
	TRANSCO	2-6	N	390	\$ 213.30	\$ 0.54692	\$ 213.30	Santanna
	TRANSCO	2-6	N	450	\$ 246.30	\$ 0.54733	\$ 246.30	Alpha Gas
	TRANSCO	2-6	N	480	\$ 262.50	\$ 0.54688	\$ 262.50	Clearview Electric
	TRANSCO	2-6	N	690	\$ 377.40	\$ 0.54696	\$ 377.40	Spring
	TRANSCO	2-6	N	1,020	\$ 558.00	\$ 0.54706	\$ 558.00	Eligo Energy
	TRANSCO	2-6	N	1,110	\$ 607.20	\$ 0.54703	\$ 607.20	New Wave Energy
	TRANSCO	2-6	N	1,200	\$ 656.40	\$ 0.54700	\$ 656.40	South Bay
	TRANSCO	2-6	N	1,290	\$ 705.60	\$ 0.54698	\$ 705.60	Greenlight
	TRANSCO	2-6	N	1,530	\$ 837.30	\$ 0.54725	\$ 837.30	Direct Energy
	TRANSCO	2-6	N	1,560	\$ 853.80	\$ 0.54731	\$ 853.80	Direct Energy
	TRANSCO	2-6	N	1,590	\$ 870.00	\$ 0.54717	\$ 870.00	RPA Energy
	TRANSCO	2-6	N	1,680	\$ 919.50	\$ 0.54732	\$ 919.50	Josco Energy
	TRANSCO	2-6	N	1,710	\$ 935.70	\$ 0.54719	\$ 935.70	Spark Energy
	TRANSCO	2-6	N	1,740	\$ 952.20	\$ 0.54724	\$ 952.20	Park Power
	TRANSCO	2-6	N	2,250	\$ 1,231.20	\$ 0.54720	\$ 1,231.20	EDF Trading
	TRANSCO	2-6	N	2,370	\$ 1,296.90	\$ 0.54722	\$ 1,296.90	Shipley
	TRANSCO	2-6	N	2,700	\$ 1,477.50	\$ 0.54722	\$ 1,477.50	UET
	TRANSCO	2-6	N	3,690	\$ 2,019.00	\$ 0.54715	\$ 2,019.00	Nordic Energy
	TRANSCO	2-6	N	3,960	\$ 2,166.60	\$ 0.54712	\$ 2,166.60	Statewise
	TRANSCO	2-6	N	4,830	\$ 2,643.00	\$ 0.54720	\$ 2,643.00	Marathon Power
	TRANSCO	2-6	N	5,670	\$ 3,102.60	\$ 0.54720	\$ 3,102.60	Atlantic Energy
	TRANSCO	2-6	N	5,970	\$ 3,266.70	\$ 0.54719	\$ 3,266.70	American Power
	TRANSCO	2-6	N	7,980	\$ 4,366.50	\$ 0.54718	\$ 4,366.50	Palmco
	TRANSCO	2-6	N	11,340	\$ 6,204.90	\$ 0.54717	\$ 6,204.90	Vista Energy
	TRANSCO	2-6	N	15,660	\$ 8,568.90	\$ 0.54718	\$ 8,568.90	WGL Energy
	TRANSCO	2-6	N	16,470	\$ 9,012.00	\$ 0.54718	\$ 9,012.00	Sprague
	TRANSCO	2-6	N	17,790	\$ 9,734.40	\$ 0.54718	\$ 9,734.40	Mpower
	TRANSCO	2-6	N	18,090	\$ 9,898.50	\$ 0.54718	\$ 9,898.50	Residents
	TRANSCO	2-6	N	37,710	\$ 20,634.30	\$ 0.54718	\$ 20,634.30	Direct Energy
	TRANSCO	2-6	N	48,600	\$ 26,592.90	\$ 0.54718	\$ 26,592.90	SFE Energy
	TRANSCO	2-6	N	69,750	\$ 38,166.00	\$ 0.54718	\$ 38,166.00	Direct Energy
	TRANSCO	2-6	N	80,220	\$ 43,894.80	\$ 0.54718	\$ 43,894.80	Constellation
	TRANSCO	2-6	N	105,570	\$ 57,765.90	\$ 0.54718	\$ 57,765.90	UGI Energy
	TRANSCO	1-3	N	150,000	\$ 120,000.00	\$ 0.80000	\$ 120,000.00	Tenaska
	TRANSCO	2-3	N	150,000	\$ 67,500.00	\$ 0.45000	\$ 67,500.00	Tenaska
	TRANSCO	3-6	N	300,000	\$ 1,407,000.00	\$ 4.69000	\$ 1,407,000.00	Pacific Summit
	TRANSCO	3-6	N	2,250,000	\$ -	\$ -	\$ -	Tioga LNG LLC
	TRANSCO	3-6	N	750,000	\$ -	\$ -	\$ -	Tioga LNG LLC
				4,077,210			\$ 1,855,620.00	

M / YR	PIPELINE	PATH	RECALL STATUS	MONTHLY VOLUME DTH	TOTAL MONTHLY CREDIT	CREDIT DTH	TOTAL CREDIT	REPLACEMENT SHIPPER	
December-22	TETCO	STX - M3	N	1,302	\$ 1,199.54	\$ 0.9213	\$ 1,199.54	Spark Energy	
	TETCO	STX - M3	N	1,116	\$ 1,026.96	\$ 0.9202	\$ 1,026.96	New Wave Energy	
	TETCO	STX - M3	N	107,756	\$ 98,994.99	\$ 0.9187	\$ 98,994.99	UGI Energy	
	TETCO	STX - M3	N	11,563	\$ 10,623.56	\$ 0.9188	\$ 10,623.56	Vista Energy	
	TETCO	STX - M3	N	6,572	\$ 6,040.97	\$ 0.9192	\$ 6,040.97	American Power	
	TETCO	STX - M3	N	19,127	\$ 17,570.73	\$ 0.9186	\$ 17,570.73	Sprague	
	TETCO	STX - M3	N	74,121	\$ 68,090.92	\$ 0.9186	\$ 68,090.92	Direct Energy	
	TETCO	STX - M3	N	39,618	\$ 36,392.85	\$ 0.9186	\$ 36,392.85	Direct Energy	
	TETCO	STX - M3	N	4,712	\$ 4,332.25	\$ 0.9194	\$ 4,332.25	Marathon Power	
	TETCO	STX - M3	N	1,612	\$ 1,484.34	\$ 0.9208	\$ 1,484.34	Direct Energy	
	TETCO	STX - M3	N	1,612	\$ 1,484.34	\$ 0.9208	\$ 1,484.34	Direct Energy	
	TETCO	STX - M3	N	50,685	\$ 46,559.03	\$ 0.9186	\$ 46,559.03	SFE Energy	
	TETCO	STX - M3	N	3,937	\$ 3,615.98	\$ 0.9185	\$ 3,615.98	Statewise	
	TETCO	STX - M3	N	16,771	\$ 15,404.62	\$ 0.9185	\$ 15,404.62	WGL Energy	
	TETCO	STX - M3	N	5,549	\$ 5,100.32	\$ 0.9191	\$ 5,100.32	Atlantic Energy	
	TETCO	STX - M3	N	1,674	\$ 1,536.16	\$ 0.9177	\$ 1,536.16	Josco Energy	
	TETCO	STX - M3	N	651	\$ 595.49	\$ 0.9147	\$ 595.49	Median Energy	
	TETCO	STX - M3	N	19,871	\$ 18,252.53	\$ 0.9186	\$ 18,252.53	Residents	
	TETCO	STX - M3	N	651	\$ 595.49	\$ 0.9147	\$ 595.49	Spring	
	TETCO	STX - M3	N	82,987	\$ 76,237.64	\$ 0.9187	\$ 76,237.64	Constellation	
	TETCO	STX - M3	N	7,998	\$ 7,344.18	\$ 0.9183	\$ 7,344.18	Palmco	
	TETCO	STX - M3	N	1,705	\$ 1,570.63	\$ 0.9212	\$ 1,570.63	Park Power	
	TETCO	STX - M3	N	1,302	\$ 1,199.54	\$ 0.9213	\$ 1,199.54	Greenlight	
	TETCO	STX - M3	N	434	\$ 397.01	\$ 0.9148	\$ 397.01	Alpha Gas	
	TETCO	STX - M3	N	1,209	\$ 1,113.25	\$ 0.9208	\$ 1,113.25	South Bay	
	TETCO	STX - M3	N	3,906	\$ 3,590.08	\$ 0.9191	\$ 3,590.08	Inspire	
	TETCO	STX - M3	N	31	\$ 34.46	\$ 1.1116	\$ 34.46	City Power	
	TETCO	STX - M3	N	2,387	\$ 2,192.04	\$ 0.9183	\$ 2,192.04	Shipley	
	TETCO	STX - M3	N	2,263	\$ 2,079.84	\$ 0.9191	\$ 2,079.84	EDF Trading	
	TETCO	STX - M3	N	992	\$ 914.75	\$ 0.9221	\$ 914.75	Eligo Energy	
	TETCO	STX - M3	N	3,906	\$ 3,590.08	\$ 0.9191	\$ 3,590.08	Nordic Energy	
	TETCO	STX - M3	N	19,468	\$ 17,881.45	\$ 0.9185	\$ 17,881.45	MPower	
	TETCO	STX - M3	N	465	\$ 431.46	\$ 0.9279	\$ 431.46	Santanna	
	TETCO	STX - M3	N	1,519	\$ 1,398.05	\$ 0.9204	\$ 1,398.05	RPA Energy	
	TETCO	STX - M3	N	589	\$ 543.66	\$ 0.9230	\$ 543.66	Clearview Electric	
	TETCO	STX - M3	N	9,517	\$ 8,742.22	\$ 0.9186	\$ 8,742.22	UET	
	TETCO	M3 - M3	N	486,948	\$ 48,694.80	\$ 0.1000	\$ 48,694.80	Paulsboro	
	TETCO	STX - M3	N	486,948	\$ 1,582,581.00	\$ 3.2500	\$ 1,582,581.00	Vitol	
	TETCO	STX - M3	N	93,000	\$ 302,250.00	\$ 3.2500	\$ 302,250.00	Vitol	
	TETCO	WLA - M3	N	52,916	\$ -	\$ -	\$ -	Tioga LNG LLC	
					1,629,390	\$ -	\$ -	\$ 2,401,687.21	
		TRANSCO	2-6	N	31	\$ 17.05	\$ 0.55000	\$ 17.05	City Power
		TRANSCO	2-6	N	434	\$ 237.46	\$ 0.54714	\$ 237.46	Alpha Gas
		TRANSCO	2-6	N	496	\$ 271.25	\$ 0.54688	\$ 271.25	Santanna
		TRANSCO	2-6	N	589	\$ 322.09	\$ 0.54684	\$ 322.09	Clearview Electric
		TRANSCO	2-6	N	651	\$ 356.19	\$ 0.54714	\$ 356.19	Median Energy
		TRANSCO	2-6	N	682	\$ 373.24	\$ 0.54727	\$ 373.24	Spring
		TRANSCO	2-6	N	1,023	\$ 559.55	\$ 0.54697	\$ 559.55	Eligo Energy
		TRANSCO	2-6	N	1,116	\$ 610.39	\$ 0.54694	\$ 610.39	New Wave Energy
		TRANSCO	2-6	N	1,240	\$ 678.28	\$ 0.54700	\$ 678.28	South Bay
TRANSCO		2-6	N	1,302	\$ 712.38	\$ 0.54714	\$ 712.38	Greenlight	
TRANSCO		2-6	N	1,333	\$ 729.12	\$ 0.54698	\$ 729.12	Spark Energy	
TRANSCO		2-6	N	1,550	\$ 848.16	\$ 0.54720	\$ 848.16	RPA Energy	
TRANSCO		2-6	N	1,643	\$ 899.00	\$ 0.54717	\$ 899.00	Direct Energy	
TRANSCO		2-6	N	1,643	\$ 899.00	\$ 0.54717	\$ 899.00	Direct Energy	
TRANSCO		2-6	N	1,674	\$ 916.05	\$ 0.54722	\$ 916.05	Josco Energy	
TRANSCO		2-6	N	1,736	\$ 950.15	\$ 0.54732	\$ 950.15	Park Power	
TRANSCO		2-6	N	2,294	\$ 1,255.19	\$ 0.54716	\$ 1,255.19	EDF Trading	
TRANSCO		2-6	N	2,418	\$ 1,323.08	\$ 0.54718	\$ 1,323.08	Shipley	
TRANSCO		2-6	N	3,937	\$ 2,154.19	\$ 0.54717	\$ 2,154.19	Nordic Energy	
TRANSCO		2-6	N	3,937	\$ 2,154.19	\$ 0.54717	\$ 2,154.19	Inspire	
TRANSCO		2-6	N	3,968	\$ 2,170.93	\$ 0.54711	\$ 2,170.93	Statewise	
TRANSCO		2-6	N	4,743	\$ 2,595.32	\$ 0.54719	\$ 2,595.32	Marathon Power	
TRANSCO		2-6	N	5,549	\$ 3,036.45	\$ 0.54721	\$ 3,036.45	Atlantic Energy	
TRANSCO		2-6	N	6,603	\$ 3,613.05	\$ 0.54718	\$ 3,613.05	American Power	
TRANSCO		2-6	N	8,029	\$ 4,393.32	\$ 0.54718	\$ 4,393.32	Palmco	
TRANSCO		2-6	N	9,517	\$ 5,207.38	\$ 0.54717	\$ 5,207.38	UET	
TRANSCO		2-6	N	11,594	\$ 6,343.84	\$ 0.54717	\$ 6,343.84	Vista Energy	
TRANSCO		2-6	N	16,771	\$ 9,176.62	\$ 0.54717	\$ 9,176.62	WGL Energy	
TRANSCO		2-6	N	19,158	\$ 10,482.96	\$ 0.54718	\$ 10,482.96	Sprague	
TRANSCO		2-6	N	19,499	\$ 10,669.58	\$ 0.54719	\$ 10,669.58	MPower	
TRANSCO		2-6	N	19,902	\$ 10,889.99	\$ 0.54718	\$ 10,889.99	Residents	
TRANSCO		2-6	N	39,618	\$ 21,678.30	\$ 0.54718	\$ 21,678.30	Direct Energy	
TRANSCO		2-6	N	50,685	\$ 27,733.84	\$ 0.54718	\$ 27,733.84	SFE Energy	
TRANSCO		2-6	N	74,121	\$ 40,557.30	\$ 0.54718	\$ 40,557.30	Direct Energy	
TRANSCO		2-6	N	83,018	\$ 45,425.54	\$ 0.54718	\$ 45,425.54	Constellation	
TRANSCO		2-6	N	107,756	\$ 58,962.00	\$ 0.54718	\$ 58,962.00	UGI Energy	
TRANSCO		1-3	N	155,000	\$ 124,000.00	\$ 0.80000	\$ 124,000.00	Tenaska	
TRANSCO		2-3	N	155,000	\$ 69,750.00	\$ 0.45000	\$ 69,750.00	Tenaska	
TRANSCO		3-6	N	310,000	\$ 1,453,900.00	\$ 4.69000	\$ 1,453,900.00	Pacific Summit	
TRANSCO		3-6	N	2,325,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
TRANSCO		3-6	N	775,000	\$ -	\$ -	\$ -	Tioga LNG LLC	
					4,230,260	\$ -	\$ -	\$ 1,926,852.43	

Tab 7

Philadelphia Gas Works

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

Item 53.64(c)

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

- (8) A list of agreements to transport gas by the utility through its system, for other utilities, pipelines or jurisdictional customers including the quantity and price of the transportation.

Response:

Please see the attached list of gas transportation agreements for PGW's jurisdictional customers. PGW has no transportation agreements with other utilities or pipeline customers.

Calendar 2022

MTR NBR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total CCF	MDQ (DTH)	MDQ (MCF)
1594769	-	-	-	-	-	-	-	-	207	-	-	-	207	3,300	3,188
1611015	-	-	-	44,554	62,299	68,770	51,992	30,473	34,283	33,273	18,907	9,545	354,096	750	725
1611016	1,320,668	1,062,552	1,254,056	1,224,469	1,173,299	916,732	1,134,447	1,026,166	429,431	1,103,158	1,189,357	1,152,948	12,987,283	17,957	17,367
1621317	464,722	361,537	334,152	274,177	280,599	300,047	326,382	323,884	309,460	244,269	295,687	385,535	3,900,450	1,300	1,256
1658878	64,434	45,346	33,891	16,384	1,044	-	-	-	-	9,795	27,268	56,610	254,774	733	708
1658879	13,374	9,719	7,354	4,955	1,413	650	486	599	681	2,563	5,599	10,609	58,003	269	260
1658883	56,381	37,567	22,773	5,262	-	-	-	-	-	4,113	18,884	40,422	185,402	521	504
1658884	85,182	78,628	77,159	54,514	9,279	-	-	-	1,757	32,976	60,634	99,544	499,673	1,400	1,354
1658885	208	-	2,068	1,241	516	12,281	40,953	30,499	7,847	516	1,965	44,351	142,446	1,311	1,268
1658886	-	-	-	-	-	-	-	-	-	-	-	-	-	1,311	1,268
1685273	23,826	18,008	14,327	10,196	3,369	1,327	1,107	1,134	1,327	4,596	12,014	20,760	111,992	559	540
1685277	43,908	22,880	12,083	3,353	-	-	-	-	-	-	9,071	26,199	117,495	417	403
1685278	43,478	26,653	20,423	13,692	4,219	2,206	2,252	3,034	2,591	7,684	15,565	32,657	174,455	703	680
1685280	59,253	51,536	58,966	49,918	50,284	52,364	51,011	50,853	54,110	57,174	57,425	-	592,892	605	585
1722906	20,041	20,839	20,518	12,273	811	-	-	-	-	7,569	10,821	16,628	109,500	341	330
1723873	6,344	3,473	2,527	1,651	269	-	-	-	57	551	1,829	3,847	20,548	120	116
1723876	-	-	-	3,605	727	-	-	-	1	3,540	5,601	9,276	22,750	241	233
1723898	55,914	44,760	32,115	13,864	-	-	-	-	-	6,410	28,992	-	182,056	601	581
1723901	54,314	45,194	44,834	16,230	1,404	-	-	-	-	12,563	24,819	46,478	245,835	355	343
1724001	20,248	15,075	9,962	7,520	1,350	-	-	-	52	5,482	9,785	-	69,473	503	486
1724008	41,530	38,111	37,997	33,039	25,678	25,878	27,433	23,215	22,202	27,567	32,560	40,651	375,862	418	404
1724010	22,054	17,791	20,640	18,688	18,059	18,417	16,788	18,497	18,582	19,707	20,208	23,082	232,516	495	478
1724011	12,451	5,866	3,450	1,303	21	-	-	-	-	548	5,829	-	29,467	469	454
1724230	13,325	9,395	7,229	4,781	3,173	2,248	2,112	2,127	2,095	-	-	-	46,485	346	335
1724240	14,244	9,565	6,564	3,369	662	-	-	-	-	2,063	6,126	13,536	56,130	231	223
1724851	94,927	76,148	71,448	62,361	50,427	40,790	40,106	40,191	43,785	55,921	65,155	80,515	721,775	731	706
1724852	112,357	90,342	84,702	74,254	59,913	47,813	47,032	47,011	51,634	66,671	77,566	95,683	854,977	731	706
1724853	55,065	40,947	29,540	12,158	-	-	-	-	110	3,424	25,436	38,165	204,844	541	523
1724854	76,447	53,560	59,323	57,597	49,601	41,099	37,522	27,483	32,736	52,198	69,602	-	557,168	1,046	1,012
1724856	32,680	21,554	15,437	830	-	-	-	-	-	5,788	14,287	24,832	115,408	927	897
1756663	79,237	52,436	39,653	23,482	4,337	-	-	-	42	21,125	33,806	63,592	317,709	316	306
1756664	41,550	26,806	16,587	8,260	1,611	-	-	-	-	5,252	15,862	33,053	148,982	101	98
1771898	-	-	4,033	41,040	51,774	65,493	83,113	77,579	82,301	63,549	25,814	29,675	524,371	750	725
1786008	368,695	307,888	303,291	243,658	199,229	169,145	158,771	164,693	171,529	223,372	268,997	353,455	2,932,722	2,318	2,242
1786009	342,345	285,822	281,546	226,181	184,689	156,753	147,504	152,708	159,033	208,385	250,484	329,247	2,724,695	2,317	2,241
1806076	71,809	48,601	39,254	28,137	16,914	12,185	11,577	12,502	14,767	17,988	39,321	60,065	373,120	1,692	1,635
1806077	-	-	-	-	-	1,652	1,551	1,446	1,549	38,663	51,088	70,345	166,294	151	146
1806079	19,283	13,527	12,105	8,740	6,200	-	-	-	1,328	10,035	10,318	15,677	97,213	605	585
1806080	16,207	11,471	8,659	6,972	4,476	-	-	-	-	6,441	8,947	12,456	75,629	277	268
1806092	40,989	37,404	41,792	31,463	27,405	30,355	23,853	27,350	24,055	28,682	27,280	24,215	364,843	63	60
1826616	8,592	6,461	5,526	3,904	1,028	-	-	-	-	3,780	4,941	8,080	42,313	87	84
1826674	23,957	20,796	23,036	21,457	19,520	18,197	15,759	15,295	15,865	17,060	18,384	19,061	228,386	114	110
1884506	11,111	6,826	3,635	1,513	321	-	-	-	-	752	3,649	7,476	35,283	245	237
1884510	34,823	25,570	20,295	11,274	6,966	4,800	3,756	3,711	3,786	11,738	17,085	27,900	171,705	676	654

MTR NBR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total CCF	MDQ (DTH)	MDQ (MCF)
1884573	35,995	25,696	17,200	7,767	-	-	-	-	103	3,412	16,673	26,594	133,440	368	356
1884576	35,582	24,558	21,688	17,022	9,439	-	-	-	-	11,769	18,427	28,279	166,763	301	291
1884577	43,253	23,057	16,940	11,302	1,716	-	-	-	-	3,012	14,224	28,758	142,262	240	232
1884579	8,776	3,213	1,648	197	-	-	-	-	-	31	901	2,661	17,427	202	195
1906625	2,010	1,543	1,628	607	-	-	-	-	-	-	-	-	5,788	30	29
1906628	12,758	7,845	5,055	2,211	577	-	-	-	-	1,301	4,415	7,685	41,847	222	214
1906630	10,717	6,552	3,583	1,142	36	-	-	-	-	913	3,015	4,917	30,876	215	208
1909300	216,083	186,825	53,176	53,743	83,215	15,679	11,470	27,501	101,349	156,743	88,927	188,417	1,183,128	-	-
1909301	1,318,431	1,143,877	1,315,139	1,124,601	845,638	1,010,121	1,109,781	1,116,073	993,959	1,004,511	1,187,758	1,276,229	13,446,118	-	-
1909334	6,362	4,876	4,457	3,776	2,399	900	824	1,009	1,045	2,943	3,665	5,216	37,472	130	126
1909351	7,914	5,583	4,507	2,622	455	2	4	2	2	2,053	3,897	6,548	33,588	110	106
1921575	16,503	9,852	7,779	3,420	321	-	-	-	-	2,572	8,602	15,361	64,410	160	155
1921578	9,995	5,646	4,567	2,544	1,845	1,701	1,042	3,144	2,031	-	2,199	7,404	42,117	183	177
1921700	45,382	34,713	28,078	25,009	1,555	-	-	34	-	8,466	21,373	37,371	201,981	831	804
1921701	34,301	25,027	24,031	18,821	15,473	13,323	12,022	11,751	10,091	12,332	18,062	22,772	218,005	504	487
1921703	38,072	30,573	26,441	20,205	4,517	-	-	-	-	11,507	22,337	33,550	187,202	354	342
1954681	62,139	45,069	39,766	29,479	22,687	18,690	17,366	18,288	18,691	28,116	37,765	51,942	389,998	907	877
1954683	48,967	42,062	32,208	22,133	15,159	13,114	15,505	16,945	14,147	16,951	28,862	46,644	312,698	728	704
1954684	75,996	50,367	38,425	22,449	3,180	-	-	-	-	9,966	38,809	58,304	297,496	1,565	1,514
1986382	31,195	27,881	21,868	10,711	4,341	6	2	1	2	7	20,838	42,269	159,121	547	529
1986388	7,951	5,322	4,200	2,096	214	-	-	-	6	1,740	3,397	6,519	31,444	400	387
1987272	11,573	8,895	8,809	3,403	-	-	-	-	43	2,200	9,291	14,210	58,424	123	118
1987495	14,548	13,090	14,824	12,056	11,342	10,286	5,139	11,913	12,246	12,589	11,617	8,880	138,530	313	303
1987496	18,735	14,295	12,664	8,949	2,053	-	10	-	-	2,244	8,634	15,027	82,612	263	254
1987500	58,779	49,254	22,358	7,359	-	-	-	-	-	341	15,330	44,974	198,395	432	418
1987633	4,835	3,566	2,643	976	-	-	-	-	-	594	2,175	3,606	18,395	348	337
1987683	1,978	1,517	894	468	34	-	-	-	-	391	988	1,786	8,055	348	337
1987743	1,928	1,663	1,323	815	328	52	-	5	3	689	1,089	1,846	9,741	414	400
1987777	9,151	8,834	9,565	8,245	7,594	6,954	6,232	6,857	6,780	7,675	8,308	8,649	94,843	202	195
1987786	10,913	5,837	3,619	1,206	-	-	-	-	-	1,383	3,439	7,202	33,600	212	205
1987797	14,484	11,829	11,903	8,963	7,895	7,755	6,385	7,133	7,359	8,812	10,095	13,644	116,256	281	272
1987801	30,765	22,888	19,015	14,747	5,867	17,849	24,427	23,697	8,059	11,879	16,199	-	195,392	1,774	1,716
1987803	68,365	53,052	49,270	38,675	48,526	61,923	81,832	82,398	60,994	53,302	57,018	62,275	717,631	456	441
1987805	17,574	11,754	8,590	5,593	1,544	168	164	173	281	3,992	7,032	12,571	69,436	237	229
1987812	17,368	12,911	11,127	3,477	-	10	-	-	-	-	6,946	10,109	61,949	272	263
1987812	17,368	12,911	11,127	3,477	-	10	-	-	-	-	6,946	10,109	61,949	279	263
1987814	506,052	476,163	527,630	504,868	489,572	524,680	442,943	499,718	475,617	466,017	292,232	351,161	5,556,654	3,432	3,319
1987815	81,382	69,219	64,885	51,238	29,962	22,537	24,083	23,104	26,134	44,155	59,280	-	495,978	2,169	2,098
1989421	26,802	24,464	10,908	2,039	-	-	-	-	-	1,017	10,210	17,067	92,507	251	243
1989426	30,841	23,294	18,595	11,601	2,943	2,621	2,380	2,336	2,514	10,481	16,640	27,147	151,393	320	309
1989428	81,546	59,551	51,739	42,515	31,858	24,854	20,513	20,717	22,429	33,973	49,702	72,499	511,897	720	696
2012845	-	-	6,651	7,092	7,033	5,631	5,636	5,114	4,965	8,637	10,693	14,915	76,367	804	778
2012851	3,036	2,723	2,581	2,116	811	103	84	441	723	1,320	2,096	3,135	19,170	49	47
2012853	3,980	3,785	2,983	2,202	589	-	36	160	333	1,578	2,057	3,181	20,884	39	38
2012857	3,212	2,739	2,097	1,698	623	144	139	227	378	1,478	1,906	3,014	17,656	39	38
2012880	14,074	11,232	11,762	10,727	7,878	7,963	7,591	6,936	7,418	9,958	11,152	13,882	120,572	104	101

MTR NBR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total CCF	MDQ (DTH)	MDQ (MCF)
2023812	15,076	10,683	8,946	6,408	2,657	1,917	1,889	1,803	1,987	3,745	6,595	11,327	73,032	131	127
2023825	10,344	5,952	3,098	1,459	137	115	117	115	130	642	2,713	6,223	31,045	76	74
2023831	3,630	2,598	1,765	1,815	1,887	1,758	1,424	1,676	1,429	1,860	1,813	1,637	23,292	132	128
2023840	6,642	5,426	5,012	3,814	1,236	576	536	541	575	2,945	3,761	5,964	37,029	112	108
2023947	9,935	7,827	6,870	5,428	3,596	2,663	2,689	2,641	2,475	4,768	6,485	8,451	63,827	325	314
2023948	21,452	17,205	15,848	13,011	4,922	2,128	1,998	1,986	2,073	10,544	13,243	18,322	122,731	360	348
2023952	30,386	28,298	9,247	6,777	5,104	5,463	4,548	5,083	5,143	5,261	13,665	35,673	154,647	549	531
2023953	88,731	66,338	62,130	59,189	42,303	30,605	25,938	24,788	29,857	48,697	55,483	74,117	608,178	576	557
2023955	42,166	33,118	26,116	17,688	772	-	-	-	-	4,004	18,067	31,802	173,734	958	925
2023958	30,704	27,469	15,538	5,405	-	-	-	-	1,935	7,890	18,572	25,724	133,237	843	814
2023960	33,747	28,846	29,941	22,982	20,711	17,008	14,532	18,538	16,450	16,885	16,605	23,084	259,329	1,362	1,317
2024285	7,200	5,484	4,440	3,779	1,434	489	405	387	463	3,196	4,439	6,996	38,713	83	80
2024290	10,274	7,843	6,233	4,206	1,351	508	241	296	422	3,067	4,900	8,337	47,677	83	80
2024299	7,260	5,388	4,016	2,830	1,111	479	452	438	671	2,239	3,515	5,875	34,272	83	80
2024307	15,062	11,574	7,940	3,378	652	-	-	-	-	4,506	6,441	12,863	62,416	111	107
2024367	-	-	125,818	1,323	31	-	-	-	-	548	3,080	6,083	136,883	888	859
2024389	5,856	4,574	4,077	-	3,585	13	-	-	30	1,279	2,909	4,126	26,450	341	330
2024604	6,565	5,661	6,350	6,494	7,983	7,464	6,254	6,953	8,155	9,301	7,322	6,637	85,139	78	75
2024644	8,186	6,401	5,485	3,828	1,207	985	866	872	933	3,628	5,080	6,900	44,371	480	464
2024645	12,268	11,417	11,085	7,494	3,429	1,620	1,462	1,503	1,714	4,353	350	7,305	63,999	289	279
2024648	29,600	23,951	23,860	20,628	18,750	16,391	14,066	14,759	-	28,484	18,561	22,801	231,852	394	381
2024675	721	-	-	-	-	-	-	-	-	-	5,878	-	6,599	140	135
2024683	27,561	22,655	20,051	13,830	2,578	1,857	1,643	1,610	1,721	11,220	15,778	23,375	143,878	291	281
2024684	10,258	5,376	5,741	2,120	142	-	-	-	-	1,892	4,704	10,011	40,245	211	204
2024694	18,319	13,578	9,617	4,938	337	-	-	-	-	2,267	8,122	15,363	72,541	245	237
2024698	8,825	7,352	5,958	4,661	1,499	-	-	-	151	2,062	3,286	7,033	40,827	272	263
2024702	27,716	20,342	21,965	15,113	275	-	-	-	46	1,848	11,165	18,434	116,906	573	554
2024703	21,553	18,837	12,906	8,455	-	-	-	-	-	5,307	12,607	19,128	98,793	1,252	1,211
2024704	14,861	9,961	6,513	3,617	587	-	-	-	225	2,865	4,928	11,973	55,529	257	249
2024705	19,805	15,108	10,898	6,921	3,131	3,167	2,768	3,294	3,146	5,385	9,849	15,336	98,808	278	269
2024706	11,035	7,904	5,347	2,385	176	-	-	-	29	1,152	5,198	8,026	41,251	240	232
2024712	16,619	11,088	6,548	5,189	920	-	1	1	14	1,818	7,281	12,276	61,755	235	227
2024714	11,329	8,525	6,809	2,687	25	1	-	16	49	470	3,835	8,287	42,035	167	162
2024715	42,824	31,205	23,775	3,989	-	-	-	-	-	3,865	14,946	34,649	155,253	410	397
2024719	9,817	7,420	5,397	2,743	2,213	1,884	2,084	3,147	1,436	1,433	4,342	9,029	50,944	170	164
2024851	16,632	11,188	7,998	5,120	759	-	-	-	71	4,469	10,338	16,183	72,758	100	97
2024992	1,814	1,238	940	544	98	-	-	-	-	274	684	1,450	7,042	400	387
2025049	5,971	3,753	2,503	1,304	474	291	267	-	-	-	-	-	14,563	65	63
2025099	7,720	4,530	2,616	899	173	-	-	-	-	298	2,124	5,281	23,641	400	387
2025107	12,257	8,607	7,248	2,278	-	-	-	-	-	-	4,578	10,467	45,436	209	202
2025146	7,366	6,167	4,454	1,286	1	-	-	-	-	809	2,405	4,882	27,369	270	261
2025149	3,988	3,404	1,349	946	1,028	825	1,121	979	1,630	2,201	2,725	4,537	24,733	336	325
2025150	8,989	7,188	5,290	2,650	717	-	-	-	1	2,527	4,666	7,744	39,772	115	111
2025156	7,758	6,219	5,099	1,879	-	-	-	-	-	3	3,216	6,068	30,242	120	116
2025158	17,911	14,119	6,976	4,362	-	-	1	-	-	2,859	8,756	13,528	68,511	171	165
2025166	5,396	3,733	2,736	1,017	-	-	-	-	4	-	3,787	4,704	21,377	254	246

MTR NBR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total CCF	MDQ (DTH)	MDQ (MCF)
2025172	6,634	5,479	4,114	1,245	-	-	-	-	-	710	2,065	4,374	24,620	208	201
2025178	17,991	14,349	12,875	11,087	6,513	5,902	5,956	6,005	6,039	9,772	11,673	15,630	123,793	296	286
2026737	10,027	7,891	5,279	2,885	578	-	-	-	-	2,367	4,517	8,790	42,334	235	227
2026784	9,247	6,745	6,663	4,560	2,798	571	525	540	691	3,908	5,318	6,969	48,534	72	70
2026819	19,233	15,628	19,589	20,897	5,198	-	-	-	-	2	-	1,574	82,122	67	65
2026820	19,625	17,472	18,554	17,061	17,139	15,561	13,706	15,795	16,030	17,340	18,616	20,360	207,258	60	58
2026838	18,520	13,399	11,565	2,404	-	-	-	-	-	4,482	9,954	16,321	76,647	72	70
2026849	6,843	5,232	4,278	2,471	421	1	-	-	21	1,774	3,918	6,351	31,310	341	330
2026874	5,205	3,925	3,002	2,037	43	-	-	-	67	1,319	2,809	4,925	23,333	54	52
2027243	17,565	14,605	13,409	17,152	12,898	11,214	3,909	7,347	9,011	15,375	16,896	17,335	156,715	69	67
2027375	24,788	19,228	16,678	12,776	6,532	3,634	3,082	2,949	3,702	9,467	13,716	20,135	136,686	189	183
2027381	5,211	4,345	4,155	3,114	1,801	878	805	911	879	1,269	3,059	4,762	31,189	402	389
2027383	11,908	8,967	6,203	3,501	598	-	-	-	-	1,284	4,063	8,860	45,384	54	52
2027386	10,590	9,370	10,328	10,096	8,507	8,245	8,375	3,261	3,316	2,697	2,031	6,107	82,922	141	136
2027387	19,257	14,424	10,832	8,536	7,305	5,953	-	6,087	11,998	8,789	12,001	17,724	122,907	224	217
2027387	19,257	14,424	10,832	8,536	7,305	5,953	-	6,087	11,998	8,789	12,001	17,724	122,907	224	216
2027392	9,068	7,895	8,257	6,279	3,861	3,409	2,538	3,287	2,726	4,108	5,716	8,471	65,616	576	557
2027401	9,513	7,107	5,363	4,246	2,824	2,331	2,124	2,668	2,789	3,511	4,809	8,567	55,849	50	48
2027402	11,329	8,430	6,399	4,983	3,352	2,864	1,899	3,292	3,485	4,242	5,761	10,194	66,229	50	48
2027403	25,558	18,697	14,731	10,312	5,578	3,394	3,210	3,289	4,233	8,621	12,604	20,044	130,271	250	242
2027406	41,199	33,729	36,731	30,645	26,355	20,944	17,507	19,825	20,844	25,859	27,108	32,023	332,768	600	580
2027423	6,360	4,597	3,802	2,479	632	-	-	-	-	1,941	2,988	4,592	27,392	86	83
2027430	5,229	4,341	4,157	3,111	1,799	877	810	908	875	1,270	3,058	4,769	31,205	402	389
2027433	9,390	6,416	4,338	2,108	-	-	-	-	-	641	3,275	-	26,167	144	139
2027434	8,546	6,009	4,476	1,999	-	-	-	-	1	570	3,096	-	24,697	144	139
2027443	26,218	19,150	15,040	8,237	3,526	3,132	2,978	3,027	3,845	7,010	12,925	21,697	126,784	180	174
2027454	-	-	-	1	-	-	-	-	-	2,326	5,256	7,578	15,161	187	181
2027464	14,150	11,489	6,868	3,399	441	-	-	1	-	3,121	7,183	13,580	60,232	200	193
2027476	12,564	10,597	9,781	7,545	6,840	5,907	4,308	4,107	4,507	6,242	6,717	8,501	87,616	144	139
2027483	17,268	13,322	9,395	6,631	571	1	1	-	118	3,616	7,454	13,656	72,034	192	186
2027484	12,121	9,182	7,144	2,918	112	-	-	-	-	2,371	5,115	9,167	48,131	232	224
2027485	43,669	37,482	28,580	18,606	4,946	3,767	2,686	3,132	4,063	11,527	25,651	39,400	223,508	392	379
2027494	23,811	19,161	11,813	11,792	2,625	-	-	-	-	5,243	12,625	20,243	107,313	100	97
2027498	24,563	36,808	37,769	37,707	35,491	35,322	34,936	34,935	25,519	27,706	30,385	31,495	392,636	168	162
2027510	11,378	9,013	9,989	8,822	8,542	9,184	8,501	9,767	8,820	8,594	8,069	7,995	108,675	235	227
2027520	16,261	12,762	10,278	3,899	-	-	-	-	7	4,182	9,304	14,006	70,699	927	897
2027524	33,128	24,609	20,699	16,127	7,341	19,852	26,608	25,795	9,089	13,390	17,933	-	214,571	1,774	1,716
2027527	14,261	7,586	9,601	2,586	784	1,966	3,129	484	442	5,259	10,472	-	56,570	240	232
2027529	65,903	47,180	36,339	23,966	9,582	6,794	6,037	3,712	6,634	16,064	27,858	47,922	297,990	706	683
2027531	-	17,611	-	-	-	-	-	-	-	-	-	-	17,611	80	77
2027533	16,493	12,862	10,351	6,983	92	2	3	2	2	3,307	7,682	13,062	70,843	185	179
2027536	8,281	5,922	4,158	2,251	289	-	-	5	-	1,106	3,181	6,874	32,067	83	80
2027544	35,388	28,733	31,335	26,252	22,507	17,870	14,943	16,932	17,783	22,276	23,239	27,556	284,814	600	580
2027560	4,667	4,394	3,790	2,642	1,002	456	442	499	552	2,233	3,025	3,566	27,269	8	8
2027563	7,526	5,246	3,543	1,601	189	-	-	-	-	946	2,979	6,196	28,226	75	73
2027581	17,895	11,466	7,706	4,340	480	-	-	-	4	2,435	7,631	13,639	65,597	202	195

MTR NBR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total CCF	MDQ (DTH)	MDQ (MCF)
2027583	32,863	29,082	31,849	30,108	29,332	26,722	27,564	27,309	26,372	27,182	25,389	25,124	338,898	725	701
2027589	13,900	9,709	6,453	3,891	378	-	-	-	145	2,686	3,757	7,557	48,475	130	126
2027599	9,789	7,053	8,578	7,696	4,016	3,097	2,383	2,508	2,891	5,325	5,840	6,602	65,778	228	221
2027605	4,853	3,789	3,285	1,788	401	-	-	-	-	654	2,386	3,848	21,005	259	250
2027612	4,113	3,240	2,825	1,550	334	-	-	-	-	554	2,117	3,319	18,053	259	250
2027620	18,715	14,296	12,596	7,269	1,319	-	-	3	35	4,127	8,826	15,537	82,723	235	227
2027635	6,932	5,120	4,975	4,282	6,296	5,603	5,223	5,403	5,447	5,276	5,314	6,163	66,036	154	149
2027641	18,943	12,626	10,485	4,789	219	-	-	-	52	4,942	7,212	-	59,267	186	180
2035356	2,663	2,103	1,747	1,079	186	-	-	-	64	781	1,479	2,379	12,481	41	40
2035554	4,942	3,717	3,100	2,285	902	424	386	368	424	1,801	2,753	4,306	25,407	48	46
2035694	1,945	1,715	1,120	602	110	-	-	-	2	277	804	1,806	8,382	348	337
2035839	7,650	5,276	4,331	3,061	1,746	1,501	1,391	1,433	1,422	2,293	3,243	6,003	39,348	156	151
2035943	7,200	6,002	4,110	2,823	2,499	3,001	3,189	3,221	2,823	2,786	3,815	5,692	47,162	72	70
2035967	5,651	5,336	6,700	6,913	7,982	7,289	6,210	7,046	7,208	9,390	9,327	9,257	88,310	168	162
2035975	11,294	9,706	9,914	8,842	8,332	8,032	7,309	7,333	7,363	9,119	9,807	11,034	108,085	174	168
2035986	3,806	3,265	3,701	2,579	2,670	2,452	1,916	1,969	2,041	2,460	1,799	1,213	29,868	126	122
2036046	4,537	3,316	2,743	1,625	-	-	-	-	1	1,467	2,031	3,899	19,619	414	400
2036145	11,178	9,994	8,496	6,938	206	-	-	2,373	1,709	5,662	7,683	10,817	65,055	163	158
2036147	7,019	5,113	3,337	1,928	662	143	30	45	234	1,524	2,887	5,902	28,823	223	216
2036151	11,243	8,323	6,307	3,859	27	-	-	-	-	759	5,159	8,932	44,609	72	70
2036167	-	33,739	-	15,861	823	-	-	-	10	4,967	8,434	14,124	77,958	626	605
2036180	44,146	45,084	42,047	25,544	18,880	18,953	13,933	16,407	20,436	24,789	30,551	35,925	336,694	748	723
2036185	24,620	17,760	16,130	8,473	505	-	-	-	5,235	6,855	14,442	25,789	119,808	341	330
2036186	127,366	88,105	62,368	37,756	6,350	-	-	-	21	11,134	44,956	89,382	467,438	2,087	2,018
2036189	21,128	15,818	11,358	3,276	206	-	-	-	-	2,229	11,536	18,338	83,890	397	384
2036191	75,520	79,878	54,834	113,772	111,869	58,666	183,191	216,194	25,926	1,174	17,638	66,424	1,005,086	2,203	2,131
2036192	69,459	43,982	43,114	40,565	40,594	35,121	34,602	31,819	31,940	33,217	35,996	44,516	484,925	2,317	2,241
2036193	29,882	20,726	14,298	6,004	-	-	-	-	-	1,551	13,361	22,754	108,577	598	578
2036194	339,590	344,958	409,870	416,320	379,913	328,866	353,209	411,363	336,401	366,575	304,602	314,898	4,306,564	2,365	2,287
2036195	42,126	27,777	21,238	5,379	722	-	-	-	-	2,999	20,717	39,393	160,351	701	678
2064820	3,871	2,182	1,176	544	73	-	-	-	119	785	1,829	2,815	13,394	58	56
2064880	4,683	4,094	3,976	3,683	3,470	3,156	3,144	3,130	2,989	2,881	3,208	3,792	42,206	90	87
2064920	18,439	20,540	6,505	7,009	6,980	5,656	5,544	5,507	5,885	7,330	7,585	4,088	101,070	804	778
2064954	12,143	11,838	15,226	12,132	10,542	9,691	8,559	9,546	8,986	10,103	12,280	13,803	134,848	750	725
2064957	6,510	6,293	8,170	6,359	5,745	5,655	5,029	5,534	5,229	5,995	7,337	8,056	75,911	750	725
2064973	193,455	147,289	137,459	114,767	100,532	94,083	85,908	85,673	89,307	111,447	126,340	165,714	1,451,972	8,479	8,192
2064974	37,186	20,588	12,910	4,937	134	-	-	-	-	1,044	11,432	24,918	113,149	417	403
2064975	20,002	21,188	23,180	20,999	22,376	22,749	19,184	19,507	22,004	25,147	24,813	26,167	267,315	250	242
2064976	20,353	15,840	14,414	10,469	3,330	10	-	-	-	7,557	11,831	17,570	101,373	377	365
2064977	12,231	9,988	7,241	5,307	1,206	-	-	-	-	2,782	7,246	11,480	57,480	229	221
2064978	19,701	-	45,522	94,177	65,888	92,727	73,286	73,370	63,607	87,740	82,343	49,583	747,942	2,400	2,321
2064979	34,308	7,633	-	19,928	15,456	4,430	-	-	10,788	16,750	13,982	16,806	140,080	1,400	1,354
2064980	94,279	71,703	50,232	22,542	3,745	-	-	-	-	13,695	39,367	77,121	372,683	1,269	1,227
2064981	-	-	-	-	-	-	-	-	310	-	-	-	310	2,317	2,241
2064982	898,474	696,955	592,643	481,938	359,785	280,259	262,757	293,013	313,108	437,854	526,775	736,479	5,880,041	2,317	2,241
2070242	2,859	2,119	1,591	786	-	-	-	-	-	1,100	1,853	3,171	13,480	64	62

MTR NBR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total CCF	MDQ (DTH)	MDQ (MCF)
2070249	3,325	2,467	2,010	1,023	70	-	-	-	11	677	1,308	2,633	13,525	64	62
2070260	3,146	2,212	1,778	1,253	78	-	-	-	61	887	1,397	2,424	13,236	64	62
2070271	3,817	3,213	2,721	1,826	160	-	-	-	116	1,535	1,931	3,110	18,427	64	62
2090400	459,303	331,131	307,147	251,620	215,750	241,074	254,895	325,575	261,975	192,667	249,383	343,634	3,434,154	3,300	3,188
2115136	10,722	7,140	5,037	2,694	-	-	-	1	-	-	-	-	25,594	202	195
2115137	20,866	12,224	9,816	4,407	-	-	25	-	33	10,291	10,640	16,268	84,569	452	437
2115141	10,674	6,471	4,053	1,495	202	-	-	-	-	1,162	3,248	5,886	33,192	212	205
2115143	14,829	12,075	6,671	2,271	35	-	-	13	-	383	5,403	11,923	53,603	797	771
2115434	963	679	484	270	62	-	-	-	-	182	419	764	3,821	348	337
2115543	5,604	4,276	3,219	2,210	669	51	-	-	153	1,753	3,305	5,597	26,837	98	95
2115588	10,867	7,302	5,423	2,669	1,750	1,424	1,511	1,577	1,580	2,827	4,480	8,198	49,608	385	372
2115589	9,765	6,576	5,024	2,550	1,614	1,301	1,375	1,448	1,466	2,622	4,162	7,341	45,244	385	372
2115593	16,920	13,214	11,693	7,492	6,286	5,354	4,412	5,739	4,999	8,332	8,854	12,602	105,898	388	375
2115831	35,751	30,280	25,510	2,124	-	-	-	-	-	152	17,892	33,432	145,140	2,203	2,131
2115832	20,839	15,918	10,030	2,442	743	-	2,140	930	52	1,096	4,380	11,842	70,412	69	67
2115837	25,411	21,559	19,975	17,676	13,700	10,793	10,566	10,244	11,787	18,065	19,848	26,383	206,006	240	232
2115838	94,659	85,125	101,254	83,639	75,167	77,393	71,422	80,213	74,764	87,998	82,828	86,736	1,001,199	437	422
2115841	50,438	37,911	34,076	36,603	39,042	41,099	38,727	40,207	36,637	42,444	45,894	53,792	496,870	1,851	1,790
2115842	12,395	8,791	4,368	1,504	383	-	-	-	13	1,006	3,960	9,240	41,661	278	269
2115844	60,122	46,648	44,311	48,199	51,439	52,752	50,800	51,721	46,616	52,246	55,452	63,036	623,344	1,851	1,790
2115901	772	527	415	265	70	-	-	-	-	175	332	630	3,185	348	337
2116004	6,197	3,866	2,997	1,686	453	-	-	-	65	564	3,032	5,778	24,638	38	37
2116016	4,659	3,423	2,721	1,765	354	-	-	-	-	807	2,373	4,023	20,126	43	42
2116023	3,438	2,127	1,662	1,478	1,838	1,602	1,337	393	1,470	1,358	2,148	2,519	21,370	414	400
2116148	11,329	8,744	7,922	6,227	1,103	991	909	899	1,053	5,747	6,290	-	51,215	523	506
2116149	10,225	6,808	3,854	1,086	31	-	10	-	-	476	4,513	9,029	36,033	242	234
2116150	15,655	12,224	7,872	2,299	-	10	-	-	10	2,935	7,845	-	48,851	302	292
2116151	22,261	15,173	10,996	7,181	2,489	99	-	-	243	3,698	8,389	14,990	85,519	396	383
2116152	12,637	10,251	4,269	1,531	-	-	-	-	41	558	4,838	9,712	43,838	161	156
2116153	31,011	23,477	20,307	15,710	12,282	10,295	9,861	8,142	10,027	14,626	18,578	27,794	202,110	628	607
2116156	20,907	15,678	13,092	8,906	4,363	2,503	1,730	2,116	3,111	9,232	11,701	9,577	102,916	883	854
2116157	48,777	40,336	41,806	37,982	28,645	24,288	23,609	23,495	24,547	31,104	36,623	42,918	404,128	432	418
2116158	68,581	57,387	48,434	36,024	2,982	-	-	-	-	36,629	40,022	79,051	369,111	424	410
2116159	25,462	10,567	8,678	3,443	-	-	-	-	-	941	6,863	19,590	75,546	424	410
2116161	174,170	162,312	168,553	50,948	-	-	-	-	-	-	39,893	151,380	747,256	1,225	1,185
2116162	178,450	141,517	139,884	129,057	109,614	105,639	106,055	99,706	107,500	126,932	134,635	169,046	1,548,036	2,549	2,465
2116171	39,432	28,085	20,943	14,291	1,568	-	-	-	-	4,807	16,656	30,204	155,986	626	605
2116174	70,544	51,073	38,220	26,388	2,786	-	103	-	103	8,994	30,951	55,379	284,541	626	605
2123295	5,146	4,677	5,432	5,063	5,289	4,004	5,391	5,062	5,073	5,197	5,158	5,414	60,906	22	21
2123460	8,233	4,408	2,141	946	188	-	-	-	-	239	2,310	5,128	23,593	135	131
2123463	6,408	4,229	3,096	2,383	2,178	1,564	1,239	1,335	1,584	1,886	2,451	4,595	32,949	119	115
2123467	7,915	6,082	4,862	2,966	727	538	505	498	559	2,311	3,964	6,188	37,116	80	77
2123484	6,022	3,940	2,849	2,157	1,968	1,392	1,090	1,167	1,417	1,712	2,265	4,229	30,208	119	115
2123489	17,214	11,367	7,043	3,541	200	1	1	1	3	869	4,010	8,541	52,792	225	218
2123490	9,659	6,420	4,375	904	730	3,956	5,239	6,894	2,306	1,065	3,585	-	45,132	400	387
2123495	16,184	11,303	9,927	8,259	5,036	3,379	3,065	3,162	3,618	6,055	7,640	11,818	89,446	139	134

MTR NBR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total CCF	MDQ (DTH)	MDQ (MCF)
2123504	30,468	21,118	16,780	9,796	2,632	1,362	1,137	1,070	1,291	4,848	13,401	22,482	126,387	322	311
2123509	29,493	22,021	13,481	1,932	-	-	-	1	-	194	8,739	-	75,861	252	244
2123510	10,307	6,685	4,676	2,448	338	-	-	1	-	1,303	4,567	7,433	37,759	173	167
2123512	22,862	19,374	14,468	11,555	5,827	4,327	3,680	2,810	3,160	8,694	13,131	17,932	127,818	414	400
2123513	28,028	18,911	10,794	8,046	701	-	-	-	21	3,783	10,673	22,397	103,354	374	362
2123514	21,000	37,748	10,602	1,127	59	59	23	35	47	1,938	7,057	19,825	99,519	804	778
2123515	50,796	20,700	10,039	235	141	352	294	516	762	1,562	5,751	12,517	103,666	804	778
2123516	23,221	17,313	14,477	11,098	5,124	1,311	1,044	992	1,260	7,009	12,621	20,097	115,565	360	348
2123517	27,924	24,415	20,150	16,734	5,578	1,208	1,902	1,674	2,210	8,085	18,165	25,722	153,766	180	174
2123519	-	-	-	28	-	-	-	14	7,152	-	-	-	7,193	240	232
2123520	30,713	23,184	12,790	3,135	11	22	-	-	-	4,244	10,105	-	84,204	322	311
2123521	26,696	19,971	14,040	8,130	1,695	7,250	8,786	6,421	9,651	6,799	11,280	16,252	136,972	351	339
2123523	11,361	9,645	7,118	3,091	175	-	-	-	-	2,512	5,500	12,778	52,180	782	756
2123525	31,057	25,555	24,311	14,743	10	-	-	-	-	-	15,448	24,985	136,110	81	78
2123527	19,508	16,021	11,519	6,188	682	-	-	-	-	2,181	10,693	18,882	85,674	454	439
2123528	27,966	22,916	20,527	18,357	5,104	-	-	-	2,211	16,177	20,615	24,266	158,138	336	325
2132737	60,838	48,995	39,614	31,631	20,808	18,559	14,339	11,510	16,187	29,466	35,701	52,234	379,883	697	674
2132738	62,040	46,932	45,042	37,437	32,792	49,787	75,160	61,878	81,581	38,452	41,572	54,236	626,909	1,011	976
2132941	2,005	1,427	6,857	6,664	6,300	5,835	5,658	5,711	5,820	6,531	6,646	5,490	64,944	750	725
2132966	6,913	5,256	4,327	3,101	1,321	731	658	650	681	1,856	3,414	5,512	34,421	43	42
2133065	12,227	8,857	7,140	2,711	308	-	-	-	-	2,527	6,301	12,272	52,342	131	127
2133071	25,711	19,147	15,288	10,865	6,423	4,275	3,532	3,332	3,927	8,336	12,447	20,098	133,381	250	242
2133093	35,870	27,011	22,611	11,942	838	112	1	1	48	4,860	15,359	30,991	149,645	150	145
2155650	9,278	6,857	5,779	3,911	1,815	147	-	-	46	978	1,350	6,016	36,176	113	109
2157680	64,321	51,188	48,386	44,034	34,380	30,696	29,619	30,989	33,186	41,520	43,058	55,512	506,889	267	258
2157683	47,598	43,969	49,470	43,108	43,476	44,032	38,712	41,650	41,747	38,569	45,666	38,806	516,802	1,465	1,417
2157685	40,071	32,784	24,340	12,371	5,045	2,788	2,574	2,345	909	12,365	16,826	28,535	180,952	496	480
2157686	17,109	10,105	7,439	2,763	-	-	-	-	21	796	5,468	12,791	56,491	314	304
2157687	38,491	28,785	23,407	17,699	6,203	-	-	-	-	16,505	22,271	34,294	187,655	240	232
2157690	19,930	15,321	13,001	5,133	1,013	-	-	-	21	-	11,035	12,687	78,140	494	478
2157693	14,388	10,165	3,874	2,288	206	-	-	-	-	1,251	4,877	11,213	48,263	172	166
2157694	15,388	12,784	9,825	10,165	2,009	-	-	-	-	2,873	8,165	-	61,210	110	106
2157695	33,150	24,866	22,650	14,739	845	-	-	-	-	6,705	18,504	31,667	153,126	31	30
2157696	55,540	40,739	37,860	26,717	16,377	13,218	11,990	11,644	12,382	23,280	30,540	-	280,286	417	403
2157697	39,018	31,502	26,470	20,573	12,714	6,433	5,757	5,445	5,927	16,023	22,447	32,457	224,767	720	696
2157699	73,351	40,102	22,898	4,294	415	-	-	-	-	-	-	-	141,060	1,269	1,227
2157700	83,701	78,000	71,443	61,737	51,045	41,926	38,142	38,641	40,172	56,748	63,400	76,758	701,712	803	777
2157702	46,542	36,073	30,920	27,973	-	25,404	18,612	40,438	20,219	-	60,316	39,924	346,421	43	42
2157702	46,542	36,073	30,920	27,973	-	25,404	18,612	40,438	20,219	-	60,316	39,924	346,421	43	42
2171219	109,460	78,126	64,310	41,483	15,570	12,598	9,303	-	207	36,595	59,475	89,872	516,999	1,424	1,377
2171220	66,956	50,211	44,368	31,016	28,858	28,897	24,359	28,914	28,343	35,846	48,186	58,962	474,916	407	394
2171221	28,006	23,563	22,932	20,850	22,621	19,432	17,122	17,324	18,915	21,405	22,355	23,922	258,448	150	145
2171222	17,015	10,469	6,412	3,383	371	-	-	-	10	2,161	5,123	11,795	56,739	157	152
2171227	17,795	9,453	3,616	2,089	134	-	-	-	-	951	5,450	13,908	53,396	92	89
2171228	64,317	53,252	46,809	38,370	30,935	28,088	26,565	19,528	32,529	41,554	47,879	60,458	490,285	400	387
2171229	34,819	22,673	16,237	7,834	1,409	-	-	-	-	4,568	13,071	19,987	120,598	888	859

MTR NBR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total CCF	MDQ (DTH)	MDQ (MCF)
2171230	57,046	51,393	33,668	-	7,965	-	-	-	-	6,202	25,047	55,803	237,124	614	594
2171231	63,281	46,516	43,488	35,575	24,955	19,725	19,330	19,321	21,170	-	80,035	59,533	432,929	994	961
2171232	39,315	30,877	21,233	8,589	1,340	-	-	-	-	8,169	19,568	33,565	162,657	255	247
2171234	97,798	80,597	69,460	62,446	56,475	57,107	58,546	62,393	57,798	58,269	69,376	81,657	811,922	1,308	1,264
2171235	40,660	37,195	21,965	-	7,241	-	-	-	-	8,893	21,953	36,880	174,786	412	398
2188211	17,906	12,237	9,019	4,922	821	-	663	-	-	-	-	-	45,568	162	157
2188212	20,579	18,324	15,764	13,385	82	-	-	-	-	-	-	-	68,134	302	292
2188213	9,193	5,430	3,149	1,852	52	-	-	-	-	744	3,147	5,714	29,281	223	216
2188214	27,433	20,707	20,036	15,429	7,648	3,096	1,494	1,169	4,079	11,437	13,587	25,712	151,829	172	166
2188215	33,249	25,235	16,355	9,400	-	-	-	-	-	2,079	9,553	23,668	119,539	346	335
2188218	17,037	11,472	10,141	5,997	527	-	-	-	-	4,008	8,142	16,208	73,533	264	255
2188219	55,052	43,450	35,484	26,259	14,292	13,631	12,455	12,522	12,444	30,050	37,169	50,451	343,259	419	405
2188222	41,796	34,850	31,250	20,711	1,123	857	703	630	1,652	7,486	20,420	31,425	192,902	611	591
2188223	52,083	39,982	31,717	23,074	10,467	-	-	-	4,205	21,039	25,799	44,387	252,754	725	701
2188225	19,120	15,311	15,697	11,543	4,176	2,860	3,401	3,378	2,902	5,665	12,227	16,592	112,872	419	405
2188227	21,602	14,771	12,224	6,847	1,119	-	-	-	-	8,909	10,826	19,567	95,865	336	325
2198739	15,343	10,178	5,525	1,356	287	-	-	-	10	80	1,708	8,557	43,046	240	232
2198741	-	2	-	-	-	21	-	-	-	-	-	-	23	254	246
2198752	10,992	8,400	6,843	3,490	516	1	-	-	-	2,995	5,683	9,074	47,993	232	224
2198753	6,760	5,813	3,992	2,185	292	-	-	-	-	641	3,163	5,188	28,033	197	191
2198756	9,618	8,595	7,480	2,684	98	-	21	-	-	3,602	5,429	10,573	48,100	234	226
2211319	13,263	15,048	7,048	14,510	15,893	10,239	4,535	19,759	19,072	6,935	596	-	126,898	34	33
2211334	22,953	18,003	20,863	18,225	13,283	9,287	1,997	3,465	1,680	5,609	10,962	12,955	139,282	449	434
2211338	83,817	72,992	75,154	65,542	65,544	60,887	61,132	60,385	50,669	68,342	73,406	77,559	815,430	1,268	1,226
2211341	14,790	11,381	9,801	5,077	762	-	-	-	35	5,909	7,280	12,736	67,771	956	925
2227843	52,577	40,677	27,540	45,076	47,503	42,183	45,106	41,116	14,116	46,122	47,951	48,203	498,171	17,957	17,367
2227846	47,811	37,200	24,973	40,468	43,135	38,275	40,926	37,345	12,779	40,630	42,284	41,898	447,723	17,957	17,367
2227850	31,725	23,951	20,238	10,859	1,665	-	-	-	82	12,253	15,712	27,551	144,037	956	925
2239836	12,091	8,945	5,169	1,852	-	-	-	-	31	1,334	5,333	12,172	46,926	340	329
2239838	19,838	15,438	12,616	8,202	5,167	3,996	3,514	3,761	4,740	8,093	13,162	20,520	119,048	313	303
2239839	23,165	19,196	16,675	12,577	360	-	-	-	-	8,015	12,194	19,078	111,260	120	116
2239840	131,914	98,403	80,953	61,207	18,073	-	-	-	-	20,136	69,379	111,935	592,001	2,191	2,119
2239841	66,686	53,249	53,031	45,461	37,032	30,917	30,103	28,845	31,264	41,550	48,521	62,684	529,344	1,043	1,009
2239845	45,372	44,396	45,399	39,079	38,566	31,873	33,790	35,037	33,717	36,404	34,654	32,789	451,076	517	500
2245126	62,090	55,067	41,602	36,596	6,091	-	-	-	-	14,184	33,569	57,103	306,300	859	831
2245129	15,582	10,984	6,952	2,166	-	-	-	-	-	2,553	4,792	9,031	52,060	377	365
2245170	12,679	9,232	5,863	-	1,262	-	-	-	-	890	3,687	8,794	42,406	304	294
2245376	14,021	10,794	10,039	7,330	3,603	1,747	1,266	1,269	1,798	5,434	8,466	10,873	76,638	204	197
2250841	66,749	51,585	33,315	16,546	3,733	1,853	1,799	1,600	1,709	10,323	20,161	56,537	265,909	490	474
2250842	28,282	22,307	19,483	12,925	2,333	-	-	-	31	5,770	13,448	22,611	127,190	209	202
2250843	15,602	12,534	12,290	10,992	4,999	878	682	1,023	1,621	7,856	11,033	13,765	93,276	266	257
2250845	17,015	11,789	7,630	2,847	96	-	-	-	-	845	8,836	10,970	60,027	281	272
2250846	8,361	6,351	4,082	1,636	21	-	-	-	-	300	3,923	7,159	31,833	213	206
2250849	31,474	29,086	26,461	9,799	-	-	-	14	-	2,546	9,984	23,900	133,264	522	505
2250851	11,856	6,529	4,185	1,034	237	-	-	-	-	341	3,925	10,529	38,637	152	147
2250854	101,132	75,038	60,282	41,810	1,116	-	-	-	-	17,860	52,776	91,907	441,919	784	758

MTR NBR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total CCF	MDQ (DTH)	MDQ (MCF)
2250855	35,158	21,871	15,572	4,220	-	-	21	-	10	2,563	11,224	-	90,640	843	815
2250857	63,517	45,900	40,479	30,873	9,986	4,753	4,394	4,403	4,599	23,329	33,408	51,041	316,682	479	463
2250858	15,355	11,595	9,093	6,734	154	-	-	-	-	2,656	6,417	11,638	63,642	272	263
2250859	22,333	15,261	10,841	7,932	5,978	5,258	4,589	-	-	-	-	-	72,190	346	335
2250860	-	16,021	-	-	-	-	-	-	-	-	-	-	16,021	375	363
2250862	52,840	44,490	41,828	26,273	900	-	-	-	141	34,824	38,239	54,851	294,386	663	641
2250863	82,233	57,814	44,716	30,164	13,563	7,517	7,057	6,815	7,540	22,739	36,598	63,166	379,923	173	167
2250864	20,911	13,634	8,453	6,145	5,100	-	-	-	-	1,735	7,244	15,089	78,311	591	572
2250865	102,190	81,017	76,416	67,119	52,796	45,850	42,484	46,699	52,151	59,642	67,010	88,215	781,587	1,325	1,281
2253387	96,440	37,452	19,103	61,223	48,541	78,858	100,686	110,349	650	3,986	97	4,571	561,954	1,752	1,693
2253388	75,230	29,234	15,593	49,523	39,797	62,951	81,072	88,531	512	3,169	83	3,442	449,137	1,752	1,693
2269417	17,759	15,592	17,614	16,594	14,339	13,564	12,516	-	-	-	51,546	13,717	173,242	178	172
2269419	23,482	20,370	23,349	21,843	18,912	17,891	16,610	16,539	14,247	18,352	19,364	18,253	229,213	178	172
2269422	24,627	19,805	17,765	14,031	9,371	8,416	8,803	9,419	9,488	11,853	16,858	19,573	170,007	1,325	1,281
2269427	7,998	5,775	3,413	1,119	-	-	-	-	-	297	2,391	6,254	27,247	269	260
2282358	11,601	9,360	8,491	4,240	950	1,332	1,422	1,306	1,476	7,621	8,267	10,132	66,198	96	93
2282382	13,244	8,718	6,399	3,598	474	-	-	-	-	2,966	6,091	10,019	51,509	163	158
2284988	1,542,573	1,245,276	1,451,219	1,426,131	1,366,535	1,097,948	1,320,893	1,204,968	515,504	1,295,276	1,380,261	1,349,508	15,196,093	17,957	17,367
2290189	9,547	14,729	11,223	6,696	297	1	2	-	1	112	5,428	11,804	59,842	309	299
2290191	42,418	32,836	31,338	22,993	20,752	19,174	16,820	17,851	18,730	26,391	35,320	45,928	330,552	254	245
2290193	14,584	10,869	6,901	3,484	30	4	4	5	3	2,200	6,138	11,387	55,608	383	370
2290197	95,600	87,577	57,600	89,958	81,421	83,666	76,914	76,132	84,602	82,364	86,161	91,735	993,727	1,151	1,113
2290202	46,700	51,563	49,644	48,729	44,838	39,283	22,798	33,065	38,620	45,216	46,991	41,525	508,973	503	486
2290203	-	-	-	-	-	-	1,354	9,516	11,256	2,822	-	-	24,947	1,424	1,377
2290204	28,349	25,691	17,433	7,794	-	-	-	-	10	2,295	11,201	24,233	117,008	461	446
2290205	31,329	27,599	21,980	15,511	-	-	-	-	174	6,864	15,921	30,629	150,007	573	554
2290206	18,007	11,644	6,989	4,644	1,567	-	-	-	-	3,071	5,229	12,283	63,435	280	271
2290210	12,410	16,320	-	-	45,680	18,610	16,910	18,070	16,710	17,380	14,580	14,550	191,220	-	-
2290211	50,697	38,113	-	-	-	-	-	-	-	-	-	-	88,810	1,046	1,012
2290212	30,651	20,680	14,024	3,169	139	-	-	-	-	1,988	12,868	23,175	106,695	384	371
2290213	59,059	37,904	28,042	9,910	1,112	-	-	-	552	5,797	22,066	44,759	209,199	472	456
2290214	19,919	18,288	20,063	17,360	17,572	15,510	13,303	15,427	14,858	18,574	17,696	17,516	206,084	626	605
2290218	34,252	21,736	22,984	16,139	7,487	5,617	5,974	6,127	5,762	11,206	19,485	29,447	186,217	565	545
2290220	66,088	50,337	39,139	33,088	19,354	16,264	12,590	13,235	13,497	26,248	32,552	54,492	376,884	400	386
2291727	8,013	5,443	6,106	5,354	1,490	-	-	-	7	-	-	-	26,414	130	126
2294826	27,477	21,360	14,272	5,303	661	-	-	-	-	2,318	13,259	25,406	110,056	524	507
2297254	4,752	3,886	5,517	5,529	5,979	5,541	5,436	5,973	5,695	5,431	5,453	5,335	64,527	132	128
2297258	33,660	22,516	16,024	8,969	7,248	6,113	4,863	4,610	4,939	-	21,101	25,860	155,903	215	208
2311892	4,539	3,689	3,365	2,641	2,048	759	595	619	871	1,273	2,034	3,127	25,561	73	71
2311911	9,189	6,806	5,486	3,855	1,378	735	647	619	931	2,678	4,340	7,549	44,214	31	30
2311918	13,465	11,673	8,605	1,576	-	-	-	-	-	2,628	4,798	9,985	52,729	251	243
2322195	-	-	-	28,642	21,484	13,730	12,885	12,908	12,514	18,468	36,646	57,653	214,929	980	947

Tab 8

Philadelphia Gas Works

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

Item 53.64(c)

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

- (9) A schedule depicting historic monthly end-user transportation through-put by customer. Each customer or account shall be identified solely by a unique alphanumeric code, the key to which may be provided subject to § 5.423 (relating to orders to limit availability of proprietary information).

Response:

Please see the schedule attached to the response to 53.64(c)(8), Tab #7, which also provides the monthly end-user transportation through-put by customer.

Tab 9

Philadelphia Gas Works

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

Item 53.64(c)

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

- (10) A schematic system map, locating and identifying by name, the pressure and capacity of all interstate or intrastate transmission pipeline connections, compressor stations, utility transmission or distribution mains 6 inches or larger in size, storage facilities, including maximum daily injection and withdrawal rates, production fields, and each individual supply or transportation customer which represents 5% or more of total system throughput in a month. Each customer or account shall be identified solely by a unique alphanumeric code, the key to which may be provided subject to § 5.423.

Response:

Following the lead of the industry, as well as federal policy guidelines regarding the security of information relating to energy transmission sites, PGW will no longer provide this data to the general public. However, upon request PGW will provide this information to the Commission and will also provide access to this information at a PGW facility of the Company's choosing, upon written request, to parties to this proceeding that have legitimate business reasons to view this information.

Tab 10

Philadelphia Gas Works

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

Item 53.64(c)

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

- (11) If any rate structure or rate allocation changes are to be proposed, a detailed explanation of each proposal, reasons therefore, number of customers affected, net effect on each customer class, and how the change relates to or is justified by changes in gas costs proposed in the Section 1307(f) tariff filing. Explain how gas supply, transportation and storage capacity costs are allocated to customers which are primarily nonheating, interruptible or transportation customers.

Response:

PGW is not proposing any rate structure or rate allocation changes in the instant proceeding, therefore, no testimony or schedules have been provided in this pre-filing to support such changes.

PGW will provide testimony regarding gas procurement policies, strategies and the GCR calculation in its 1307(f) March 1, 2023 filing.

Tab 11

Philadelphia Gas Works

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

Item 53.64(c)

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

- (12) A schedule depicting the most recent 5-year consecutive 3-day peak data by customer class (or other historic peak day data used for system planning), daily volumetric throughput by customer class (including end-user transportation throughput), gas interruptions and high, low and average temperature during each day.

Response:

Schedule 1 – Three-day peak for the most recent 5-years covering Winters 2017-2018 through 2021-2022.

Schedule 2 – Identifies a listing of gas interruptions for the most recent 5-years covering Winters 2017-2018 through 2021-2022, their duration and the high, low and average temperatures for each day that the interruption was in effect.

3 DAY PEAK ANALYSIS

Winter Peak Season	Date	Average Temp.	Hi Temp.	Low Temp.	Total Sendout (mcfs)	Firm Sendout	Cogen Sendout	IT Sendout
2017- 2018	Jan 5	15	19	10	625,642	547,239	44	78,359
2017 - 2018	Jan 6	13	16	8	639,043	565,130	44	73,869
2017- 2018	Jan 7	20	27	9	582,222	516,455	44	65,723
2018 - 2019	Jan 30	16	37	7	584,172	500,209	43	83,920
2018 - 2019	Jan 31	17	20	11	609,241	522,948	43	86,250
2018 - 2019	Feb 1	18	25	15	586,904	503,748	43	83,113
2019- 2020	Dec 18	31	42	23	435,785	374,997	45	60,743
2019- 2020	Dec 19	30	33	25	461,382	398,876	45	62,461
2019- 2020	Dec 20	33	37	29	417,993	362,084	45	55,864
2020- 2021	Jan 28	29	36	25	455,995	397,133	45	58,817
2020- 2021	Jan 29	26	31	22	495,584	435,311	45	60,228
2020- 2021	Jan 30	32	36	27	426,177	372,796	45	53,336
2021- 2022	Jan 29	16	24	11	531,582	474,039	42	57,501
2021- 2022	Jan 30	23	27	17	490,112	434,209	42	55,861
2021- 2022	Jan 31	27	34	23	454,674	397,965	42	56,667

GAS INTERRUPTIONS

Winter Peak Season	Date	Average Temp.	Hi Temp.	Low Temp.	Total Sendout (mcfs)	Firm Sendout	Cogen Sendout	LBS Sendout	BPS Sendout	GTS Sendout	IT Sendout	GRAYS FERRY Sendout (mcfs)
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No interruptions occurred between September 1, 2017 and January 1, 2023

Tab 12

Philadelphia Gas Works

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

Item 53.64(c)

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

- (13) Identification and support for any peak day methodology used to project future gas demands and studies supporting the validity of the methodology.

Response:

Please see the attached Peak Day Analysis. Also attached to Item 53.64(c)(14) is *Siemens Peak Day Regression Model Review* dated January 14, 2019, which supports PGW's peak day methodology.

Peak Day Analysis

PGW performs a peak day analysis on an annual basis to determine its projected sendout requirements during peak conditions. Essentially this process is completed by collecting sendout and average temperature data for all days where the temperature is at or below 32 degrees Fahrenheit, excluding holidays and weekends. All interruptible transportation volumes are removed from total sendout to arrive at firm sendout on a daily basis.

Common statistical practices warrant that no less than thirty (30) data points be utilized in the analysis to ensure its integrity. For this analysis, PGW has utilized data from the period winter of FY 17-18 through FY 21-22 which would reflect the most current consumption behaviors of its customers. This period yielded 46 data points where the average temperature was at or below 32 degrees Fahrenheit.

Degree days are calculated by subtracting the average daily temperature from sixty-five (65).

A standard linear regression was performed on the data using the calculated degree-days and the actual firm daily sendout information. Additionally, in order to confirm the accuracy of the analysis, and to smooth the charting of the data, a quadratic and a cubic regression analysis were also completed.

A resulting R^2 (Correlation Coefficient) indicates a 67.3 % correlation between firm sendout and degree-days. The multiple regression correlation co-efficient, R^2 , is a measure of the proportion of variability explained by, or due to the regression (linear relationship) in a sample of paired data. It is a number between zero and one and a value close to zero suggests a poor model.

To verify the level of confidence we can ascribe to the model, we developed the attached Linear Regression Confidence Level Table. Essentially, this table compares the actual versus projected sendout to determine the level of variance expressed as a standard deviation. A standard deviation represents the positive square root of the variance where the variance simply represents the dispersion about the mean. In this analysis the sample standard deviation is 35,151 MCF.

The sample loses one degree of freedom for each estimated parameter. Thus, with a sample of 100 paired values and two estimated parameters (one for the constant and one for the coefficient of “degree days”), there are $100-2=98$ degrees of freedom. In this analysis we had 65 data points and there were 63 Degrees of Freedom.

Finally, based upon the models developed, it can be determined that the company’s projected peak day sendout should be set at 685,131 MCF per day at 0 degree Fahrenheit. This calculation is performed using the X Coefficient (i.e. slope) multiplied by the number of degree days and adding the Constant (Y Intercept).

Winter 18-22 Data for Daily Temperatures <= 32 Degrees Fahrenheit
W/O Holidays, Weekends

SDS 5
1 of 6

Day	Date	Daily Temp	Degree Days X	X^2	X^3	Actual Firm Sendout (Mcf)	Firm Sendout Per DD (Mcf)	Linear Projected Firm Sendout (Mcf)	Quadratic Projected Firm Sendout (Mcf)	Cubic Projected Firm Sendout (Mcf)
Wednesday	12/13/2017	31	34	1,156	39,304	356,549	10,487	353,389	354,435	354,496
Thursday	12/14/2017	31	34	1,156	39,304	354,093	10,415	353,389	354,435	354,496
Friday	12/15/2017	28	37	1,369	50,653	375,049	10,136	385,493	382,701	383,129
Tuesday	12/26/2017	29	36	1,296	46,656	373,407	10,372	374,792	372,985	373,420
Wednesday	12/27/2017	23	42	1,764	74,088	436,899	10,402	439,000	435,684	435,199
Thursday	12/28/2017	19	46	2,116	97,336	475,927	10,346	481,805	483,356	482,685
Friday	12/29/2017	22	43	1,849	79,507	451,955	10,511	449,701	447,161	446,505
Tuesday	1/2/2018	23	42	1,764	74,088	481,485	11,464	439,000	435,684	435,199
Wednesday	1/3/2018	28	37	1,369	50,653	412,195	11,140	385,493	382,701	383,129
Thursday	1/4/2018	21	44	1,936	85,184	490,882	11,156	460,402	458,932	458,170
Friday	1/5/2018	15	50	2,500	125,000	544,956	10,899	524,610	535,726	537,200
Monday	1/15/2018	31	34	1,156	39,304	394,810	11,612	353,389	354,435	354,496
Wednesday	1/17/2018	26	39	1,521	59,319	411,626	10,555	406,896	403,013	403,171
Thursday	1/18/2018	32	33	1,089	35,937	379,044	11,486	342,687	345,600	345,226
Tuesday	1/30/2018	30	35	1,225	42,875	383,370	10,953	364,090	363,563	363,885
Wednesday	1/31/2018	32	33	1,089	35,937	358,262	10,856	342,687	345,600	345,226
Friday	2/2/2018	25	40	1,600	64,000	418,656	10,466	417,597	413,610	413,559
Monday	2/5/2018	32	33	1,089	35,937	344,431	10,437	342,687	345,600	345,226
Thursday	2/8/2018	31	34	1,156	39,304	354,509	10,427	353,389	354,435	354,496
Thursday	12/20/2018	32	33	1,089	35,937	201,788	6,115	342,687	345,600	345,226
Friday	1/11/2019	30	35	1,225	42,875	373,059	10,659	364,090	363,563	363,885
Monday	1/14/2019	32	33	1,089	35,937	359,888	10,906	342,687	345,600	345,226
Tuesday	1/22/2019	32	33	1,089	35,937	411,860	12,481	342,687	345,600	345,226
Monday	1/28/2019	31	34	1,156	39,304	359,583	10,576	353,389	354,435	354,496
Wednesday	1/30/2019	16	49	2,401	117,649	500,210	10,208	513,909	522,193	522,819
Thursday	1/31/2019	17	48	2,304	110,592	522,949	10,895	503,208	508,954	508,958
Friday	2/1/2019	18	47	2,209	103,823	503,750	10,718	492,506	496,008	495,588
Monday	3/4/2019	32	33	1,089	35,937	344,300	10,433	342,687	345,600	345,226
Tuesday	3/5/2019	28	37	1,369	50,653	374,021	10,109	385,493	382,701	383,129
Wednesday	3/6/2019	26	39	1,521	59,319	424,011	10,872	406,896	403,013	403,171
Wednesday	12/18/2019	31	34	1,156	39,304	374,998	11,029	353,389	354,435	354,496
Thursday	12/19/2019	30	35	1,225	42,875	398,878	11,397	364,090	363,563	363,885
Friday	1/17/2020	30	35	1,225	42,875	376,010	10,743	364,090	363,563	363,885
Monday	1/20/2020	30	35	1,225	42,875	392,770	11,222	364,090	363,563	363,885
Tuesday	1/21/2020	30	35	1,225	42,875	368,945	10,541	364,090	363,563	363,885
Friday	2/14/2020	28	37	1,369	50,653	379,882	10,267	385,493	382,701	383,129
Wednesday	12/16/2020	32	33	1,089	35,937	350,544	10,623	342,687	345,600	345,226
Thursday	12/17/2020	32	33	1,089	35,937	340,535	10,319	342,687	345,600	345,226
Friday	12/18/2020	31	34	1,156	39,304	351,024	10,324	353,389	354,435	354,496
Thursday	1/28/2021	29	36	1,296	46,656	397,132	11,031	374,792	372,985	373,420
Friday	1/29/2021	26	39	1,521	59,319	435,311	11,162	406,896	403,013	403,171
Monday	2/8/2021	31	34	1,156	39,304	369,099	10,856	353,389	354,435	354,496
Thursday	2/11/2021	31	34	1,156	39,304	372,372	10,952	353,389	354,435	354,496
Friday	2/12/2021	32	33	1,089	35,937	382,510	11,591	342,687	345,600	345,226
Wednesday	2/17/2021	32	33	1,089	35,937	361,205	10,946	342,687	345,600	345,226
Thursday	2/18/2021	31	34	1,156	39,304	378,931	11,145	353,389	354,435	354,496
Friday	11/19/2021	30	35	1,225	42,875	216,017	6,172	364,090	363,563	363,885
Monday	12/20/2021	32	33	1,089	35,937	306,660	9,293	342,687	345,600	345,226

Monday	1/3/2022	26	39	1,521	59,319	365,358	9,368	406,896	403,013	403,171	
Tuesday	1/4/2022	30	35	1,225	42,875	339,526	9,701	364,090	363,563	363,885	
Friday	1/7/2022	26	39	1,521	59,319	382,125	9,798	406,896	403,013	403,171	
Monday	1/10/2022	25	40	1,600	64,000	395,917	9,898	417,597	413,610	413,559	
Tuesday	1/11/2022	22	43	1,849	79,507	430,736	10,017	449,701	447,161	446,505	
Friday	1/14/2022	30	35	1,225	42,875	347,603	9,932	364,090	363,563	363,885	
Thursday	1/20/2022	26	39	1,521	59,319	401,778	10,302	406,896	403,013	403,171	
Friday	1/21/2022	20	45	2,025	91,125	452,113	10,047	471,104	470,997	470,221	
Tuesday	1/25/2022	32	33	1,089	35,937	335,127	10,155	342,687	345,600	345,226	
Wednesday	1/26/2022	23	42	1,764	74,088	408,142	9,718	439,000	435,684	435,199	
Thursday	1/27/2022	29	36	1,296	46,656	370,394	10,289	374,792	372,985	373,420	
Friday	1/28/2022	29	36	1,296	46,656	358,284	9,952	374,792	372,985	373,420	
Monday	1/31/2022	27	38	1,444	54,872	397,965	10,473	396,194	392,710	393,037	
Monday	2/14/2022	23	42	1,764	74,088	415,935	9,903	439,000	435,684	435,199	
Tuesday	2/15/2022	29	36	1,296	46,656	376,714	10,464	374,792	372,985	373,420	
Thursday	2/24/2022	32	33	1,089	35,937	306,964	9,302	342,687	345,600	345,226	
Monday	3/28/2022	29	36	1,296	46,656	363,722	10,103	374,792	372,985	373,420	
				65	4,225	274,625	387,304	10,417	685,131	773,959	833,309
Count				65							

**Firm Sendout Projection Based Data From 18-22
Data for Daily Temperatures <= 32 Degrees Fahrenheit**

SDS 5
2 of 6

<u>R Squared</u>	<u>Change</u>	<u>Student's T</u>	<u>Degrees of Freedom</u>	<u>Critical Value</u>	<u>@ 97.5% Significant</u>
0.673398	0.673398	11.397174	63	2.01	Yes
0.676192	0.002794	0.731370	62	2.01	No
0.676243	0.000051	0.097933	61	2.01	No

<u>Degrees of Freedom</u>	<u>63</u>	<u>62</u>	<u>61</u>
97.5% Significance Level	<u>2.01</u>	<u>2.01</u>	<u>2.01</u>
95.0% Significance Level	<u>1.68</u>	<u>1.68</u>	<u>1.68</u>

<u>Linear Projection at Zero Degrees Fahrenheit</u>	685,131	Mcf
<u>Linear Projection at 15 Degrees Fahrenheit</u>	524,610	Mcf

$t\text{'s } T = \text{Square Root}[(\text{Increase} * \text{Degrees of Freedom}) / (1 - R \text{ Squared})]$

$\text{Linear SO} = \text{Constant} + (X * X \text{ Coefficient})$

$\text{dratic SO} = \text{Constant} + (X * X \text{ Coeff}) + (X^2 * X^2 \text{ Coeff})$

$\text{stant} + (X * X \text{ Coeff}) + (X^2 * X^2 \text{ Coeff}) + (X^3 * X^3 \text{ Coeff})$

Linear Regression Confidence Level Table

SDS 5
3 of 6

Count	Degree Days	Firm Sendout (Mcf)	Y	Projected	Difference	Actual	(Degree Days - Xm)	(Degree Days - Xm) ²	sdyce	t*sdyce	Lower Acc	Upper Acc	"- 1 SD"	"+ 1 SD"	"- 2 SD"	"+ 2 SD"
				Linear Firm Sendout (Mcf)	Actual Versus Projected	Actual Versus Projected Squared (Y - Yc) ²										
1	33	379,044		342,687	36,356	1,321,793,972	(4)	17	5,737	11,550	331,138	354,237	309,395	375,980	276,102	409,273
2	33	358,262		342,687	15,575	242,567,247	(4)	17	5,737	11,550	331,138	354,237	309,395	375,980	276,102	409,273
3	33	344,431		342,687	1,744	3,040,185	(4)	17	5,737	11,550	331,138	354,237	309,395	375,980	276,102	409,273
4	33	201,788		342,687	(140,900)	19,852,739,718	(4)	17	5,737	11,550	331,138	354,237	309,395	375,980	276,102	409,273
5	33	359,888		342,687	17,201	295,870,940	(4)	17	5,737	11,550	331,138	354,237	309,395	375,980	276,102	409,273
6	33	411,860		342,687	69,173	4,784,890,012	(4)	17	5,737	11,550	331,138	354,237	309,395	375,980	276,102	409,273
7	33	344,300		342,687	1,612	2,600,090	(4)	17	5,737	11,550	331,138	354,237	309,395	375,980	276,102	409,273
8	33	350,544		342,687	7,857	61,728,292	(4)	17	5,737	11,550	331,138	354,237	309,395	375,980	276,102	409,273
9	33	340,535		342,687	(2,153)	4,634,101	(4)	17	5,737	11,550	331,138	354,237	309,395	375,980	276,102	409,273
10	33	382,510		342,687	39,823	1,585,833,892	(4)	17	5,737	11,550	331,138	354,237	309,395	375,980	276,102	409,273
11	33	361,205		342,687	18,518	342,906,597	(4)	17	5,737	11,550	331,138	354,237	309,395	375,980	276,102	409,273
12	33	306,660		342,687	(36,028)	1,298,005,279	(4)	17	5,737	11,550	331,138	354,237	309,395	375,980	276,102	409,273
13	33	335,127		342,687	(7,561)	57,161,928	(4)	17	5,737	11,550	331,138	354,237	309,395	375,980	276,102	409,273
14	33	306,964		342,687	(35,724)	1,276,176,412	(4)	17	5,737	11,550	331,138	354,237	309,395	375,980	276,102	409,273
15	34	356,549		353,389	3,160	9,986,700	(3)	10	5,143	10,353	343,036	363,741	320,096	386,681	286,804	419,974
16	34	354,093		353,389	704	495,974	(3)	10	5,143	10,353	343,036	363,741	320,096	386,681	286,804	419,974
17	34	394,810		353,389	41,421	1,715,737,792	(3)	10	5,143	10,353	343,036	363,741	320,096	386,681	286,804	419,974
18	34	354,509		353,389	1,120	1,254,670	(3)	10	5,143	10,353	343,036	363,741	320,096	386,681	286,804	419,974
19	34	359,583		353,389	6,195	38,372,404	(3)	10	5,143	10,353	343,036	363,741	320,096	386,681	286,804	419,974
20	34	374,998		353,389	21,609	466,966,534	(3)	10	5,143	10,353	343,036	363,741	320,096	386,681	286,804	419,974
21	34	351,024		353,389	(2,365)	5,593,392	(3)	10	5,143	10,353	343,036	363,741	320,096	386,681	286,804	419,974
22	34	369,099		353,389	15,710	246,817,178	(3)	10	5,143	10,353	343,036	363,741	320,096	386,681	286,804	419,974
23	34	372,372		353,389	18,983	360,370,594	(3)	10	5,143	10,353	343,036	363,741	320,096	386,681	286,804	419,974
24	34	378,931		353,389	25,542	652,397,484	(3)	10	5,143	10,353	343,036	363,741	320,096	386,681	286,804	419,974
25	35	383,370		364,090	19,280	371,721,669	(2)	5	4,663	9,386	354,704	373,476	330,798	397,383	297,505	430,675
26	35	373,059		364,090	9,069	80,446,428	(2)	5	4,663	9,386	354,704	373,476	330,798	397,383	297,505	430,675
27	35	398,878		364,090	34,788	1,210,183,172	(2)	5	4,663	9,386	354,704	373,476	330,798	397,383	297,505	430,675
28	35	376,010		364,090	11,920	142,077,840	(2)	5	4,663	9,386	354,704	373,476	330,798	397,383	297,505	430,675
29	35	392,770		364,090	28,680	822,516,799	(2)	5	4,663	9,386	354,704	373,476	330,798	397,383	297,505	430,675
30	35	368,945		364,090	4,855	23,572,432	(2)	5	4,663	9,386	354,704	373,476	330,798	397,383	297,505	430,675
31	35	216,017		364,090	(148,073)	21,925,664,745	(2)	5	4,663	9,386	354,704	373,476	330,798	397,383	297,505	430,675
32	35	339,526		364,090	(24,564)	603,403,219	(2)	5	4,663	9,386	354,704	373,476	330,798	397,383	297,505	430,675
33	35	347,603		364,090	(16,487)	271,817,584	(2)	5	4,663	9,386	354,704	373,476	330,798	397,383	297,505	430,675
34	36	373,407		374,792	(1,384)	1,916,578	(1)	1	4,336	8,728	366,064	383,519	341,499	408,084	308,206	441,377
35	36	397,132		374,792	22,341	499,118,043	(1)	1	4,336	8,728	366,064	383,519	341,499	408,084	308,206	441,377
36	36	370,394		374,792	(4,397)	19,337,817	(1)	1	4,336	8,728	366,064	383,519	341,499	408,084	308,206	441,377
37	36	358,284		374,792	(16,508)	272,508,328	(1)	1	4,336	8,728	366,064	383,519	341,499	408,084	308,206	441,377
38	36	376,714		374,792	1,922	3,694,572	(1)	1	4,336	8,728	366,064	383,519	341,499	408,084	308,206	441,377
39	36	363,722		374,792	(11,070)	122,545,196	(1)	1	4,336	8,728	366,064	383,519	341,499	408,084	308,206	441,377
40	37	375,049		385,493	(10,444)	109,081,867	(0)	0	4,197	8,450	377,043	393,942	352,200	418,786	318,908	452,078
41	37	412,195		385,493	26,702	713,011,310	(0)	0	4,197	8,450	377,043	393,942	352,200	418,786	318,908	452,078
42	37	374,021		385,493	(11,472)	131,605,243	(0)	0	4,197	8,450	377,043	393,942	352,200	418,786	318,908	452,078
43	37	379,882		385,493	(5,611)	31,479,067	(0)	0	4,197	8,450	377,043	393,942	352,200	418,786	318,908	452,078
44	38	397,965		396,194	1,771	3,135,852	(1)	1	4,266	8,588	387,606	404,782	362,902	429,487	329,609	462,780
45	39	411,626		406,896	4,730	22,375,369	2	3	4,533	9,125	397,771	416,021	373,603	440,188	340,310	473,481
46	39	424,011		406,896	17,115	292,935,583	2	3	4,533	9,125	397,771	416,021	373,603	440,188	340,310	473,481
47	39	435,311		406,896	28,415	807,408,564	2	3	4,533	9,125	397,771	416,021	373,603	440,188	340,310	473,481
48	39	365,358		406,896	(41,537)	1,725,329,953	2	3	4,533	9,125	397,771	416,021	373,603	440,188	340,310	473,481
49	39	382,125		406,896	(24,771)	613,605,063	2	3	4,533	9,125	397,771	416,021	373,603	440,188	340,310	473,481
50	39	401,778		406,896	(5,117)	26,188,707	2	3	4,533	9,125	397,771	416,021	373,603	440,188	340,310	473,481
51	40	418,656		417,597	1,059	1,122,380	3	8	4,966	9,996	407,601	427,593	384,304	450,890	351,012	484,182
52	40	395,917		417,597	(21,680)	470,004,657	3	8	4,966	9,996	407,601	427,593	384,304	450,890	351,012	484,182
53	42	436,899		439,000	(2,100)	4,411,145	5	23	6,178	12,436	426,563	451,436	405,707	472,292	372,444	505,585
54	42	481,485		439,000	42,485	1,804,986,050	5	23	6,178	12,436	426,563	451,436	405,707	472,292	372,444	505,585
55	42	408,142		439,000	(30,858)	952,199,071	5	23	6,178	12,436	426,563	451,436	405,707	472,292	372,444	505,585
56	42	415,935		439,000	(23,065)	531,986,154	5	23	6,178	12,436	426,563	451,436	405,707	472,292	372,444	505,585
57	43	451,955		449,701	2,254	5,078,919	6	34	6,897	13,883	435,818	463,584	416,408	482,994	383,116	516,286
58	43	430,736		449,701	(18,965)	359,657,637	6	34	6,897	13,883	435,818	463,584	416,408	482,994	383,116	516,286
59	44	490,882		460,402	30,480	929,023,394	7	47	7,664	15,427	444,976	475,829	427,110	493,695	393,817	526,988
60	45	452,113		471,104	(18,991)	360,645,175	8	61	8,465	17,040	454,064	488,144	437,811	504,396	404,518	537,689
61	46	475,927		481,805	(5,878)	34,545,843	9	78	9,292	18,705	463,100	500,510	448,512	515,098	415,220	548,390
62	47	503,750		492,506	11,243	126,411,042	10	97	10,139	20,410	472,097	512,916	459,214	525,799	425,921	559,092
63	48	522,949		503,208	19,742	389,730,907	11	117	11,001	22,144	481,064	525,352	469,915	536,500	436,622	569,793
64	49	500,210		513,909	(13,699)	187,655,741	12	140	11,874	23,902	490,007	537,811	480,616	547,202	447,324	580,494
65	50	544,956		524,610	20,345	413,925,391	13	165	12,757	25,679	498,931	550,290	491,318	557,903	458,025	591,196
65				685,131	(685,131)	469,404,170,113	28	775	26,466	53,276	631,854	738,407	651,838	718,423	618,545	751,716

Tot/Avg	37	387,304
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Regression Results

Winter 18-22

Based On Data for Daily Temperatures <= 32 Degrees Fahrenheit

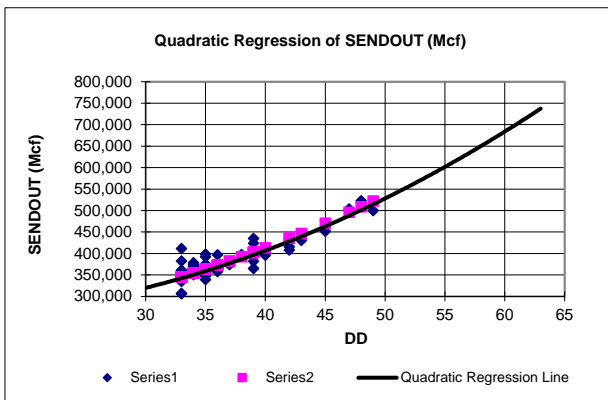
<u>Regression Output:</u>		<u>Quadratic</u>		<u>Cubic</u>				
Regression Output:		Regression Output:		Regression Output:				
Constant	(10,457)	Constant	218,789	Constant	(67,697)			
Std Err of Y Est	35,151	Std Err of Y Est	315,427	Std Err of Y Est	2,942,548			
R Squared	0.6734	R Squared	1	R Squared	1			
No. of Observations	65	No. of Observations	65	No. of Observations	65			
Degrees of Freedom	63	Degrees of Freedom	62	Degrees of Freedom	61			
			X	X^2			X^3	
X Coefficient(s)	10,701	X Coefficient(s)	-1002.3958	147	X Coefficient(s)	20,639	(393)	4
Std Err of Coef.	939	Std Err of Coef.	16030.2247	201	Std Err of Coef.	221,574	5,513	45
Zero Degree Temp Sendout	685,131		773,959			833,309		
DD	65							

Regression Chart Analysis
Based Upon Data For Temperatures Of <=32 Degrees F.
Winters 19-22



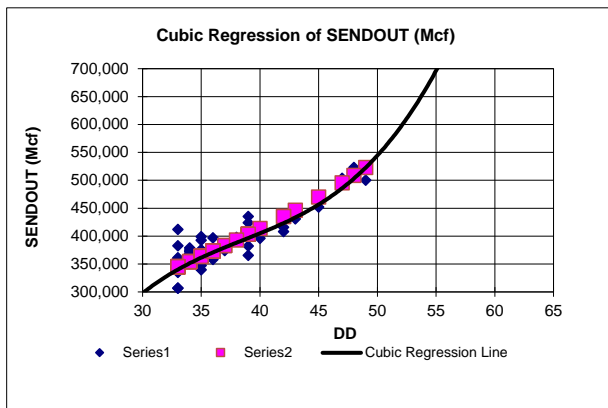
Linear Regression Output

Constant	(10,457)
Std. Error of Y Estimate	35,151
R Squared	0.673
Number of Observations	65
Degrees of Freedom	63
X	
X Coefficient	10701
Std. Err. Of Coefficeint	939



Quadratic Regression Output

Constant	218,789
Std. Error of Y Estimate	315,427
R Squared	0.676
Number of Observations	65
Degrees of Freedom	62
X	X ^ 2
X Coefficient	(1,002) 147
Std. Err. Of Coefficeint	16,030 201

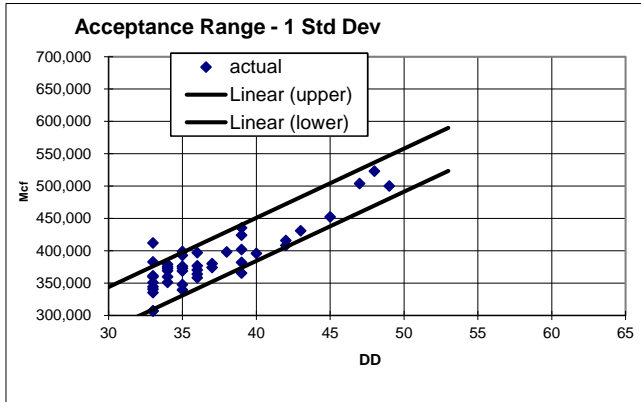


Cubic Regression Output

Constant	(67,697)	
Std. Error of Y Estimate	2,942,548	
R Squared	0.676	
Number of Observations	65	
Degrees of Freedom	61	
X	X ^ 2	X ^ 3
X Coefficient	20639 (393) 4	
Std. Err. Of Coefficeint	221574 5513 45	

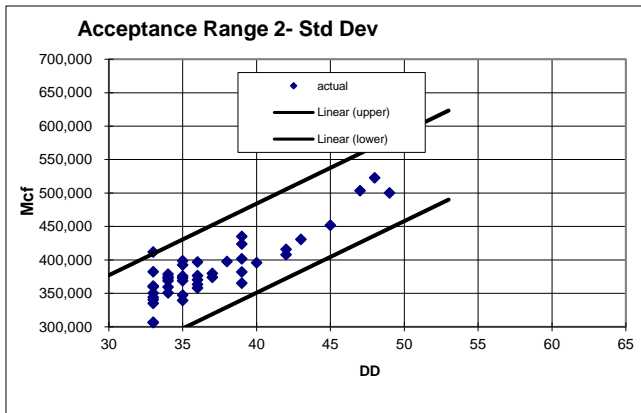
Regression Chart Analysis
Based Upon Data For Temperatures Of <=32 Degrees F.
Winters 19-22

SDS 5
6 of 6



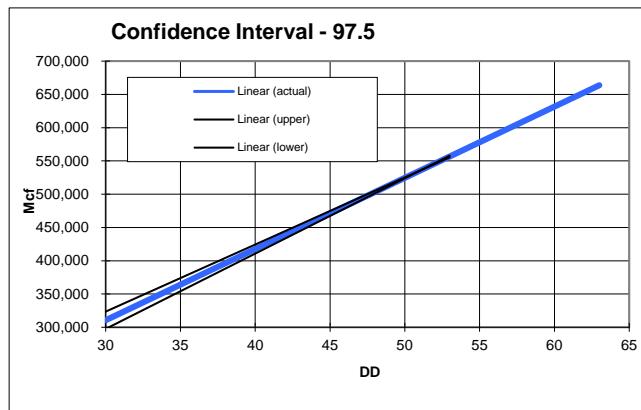
Acceptance Range @ 1 Standard Deviation

Regression Squared	1,108,400,091
Regression	33,293
Upper Range 1sd	420,597
Lower Range 1sd	354,011



Acceptance Range @ 2 Standard Deviation

Regression Squared	1,108,400,091
Regression	33,293
Upper Range 2sd	453,889
Lower Range 2sd	320,719



Confidence Interval: 97.5%

Regression Squared	1,108,400,091
Standard error of sendout projection	33,817
X Mean	37
T Distribution	2.01

Tab 13

Philadelphia Gas Works

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

Item 53.64(c)

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

- (14) Analysis and data demonstrating, on an historic and projected future basis, the minimum gas entitlements needed to provide reliable and uninterrupted service to priority one customers during peak periods.

Response:

Attached is the *Siemens Peak Day Regression Model Review* dated January 14, 2019.

MEMO TO: PHILADELPHIA GAS WORK (PGW)
FROM: Holt Bradshaw, Amit Gohil
DATE: 1/14/2019
SUBJECT: PGW'S PEAK DAY REGRESSION MODEL REVIEW

This memorandum describes Siemens' assessment of the PGWs peak day regression analysis, and an evaluation of the regression models developed by PGW.

Executive Summary

We carried out the evaluation of the three regression models provided by PGW in two steps – the first step was the preliminary (or intuitive) evaluation; and the second step was the more rigorous evaluation to test the statistical validity of the regression parameters and the overall model. We also carried out an independent regression analysis using MS Excel based on the weather and send out data provided by PGW and verified the completeness and accuracy of the regression parameters and the associated statistical results for each of the three regression models developed by PGW.

We also believe that the selection of the zero degree day condition for planning purposes is prudent given that the probability of the actual system send out exceeding the capacity as predicted by the zero degree day condition is extremely low (once in 80 years).

In our preliminary evaluation, we concluded that the Linear model confirms the intuitive positive relationship between severity of weather, as measured by HDDs, and natural gas demand. It also explains over 75% of the historical variability observed in peak send outs. Adding polynomials of higher orders to the liner model does not improve the "goodness of fit" as measured by Adjusted R². So, we conclude that the Linear model is preferred based on our preliminary evaluation.

Next, we conducted tests for statistical significance of the regression coefficients and the overall regression model. The Linear, Quadratic, and Cubic regression models that PGW developed are progressively nested. While comparing nested models, where an additional independent variable is added to the regression model, the t-test performs better than the overall F-test. The t-tests indicated that the regression coefficients of independent variables such as HDD² and HDD³ (see Table 1) in the Quadratic and Cubic models cannot be statistically claimed to be different from zero.

A good, parsimonious regression model is preferred over complicated models with multiple independent variables, especially when these variables do not add to the explanatory or predictive value of the model. In the light of the statistical tests, we recommend that PGW use the Linear regression model specified in Table 1.

In summary, after our evaluation of PGW’s regression models, we conclude that the Linear Model developed by PGW is fit for the purpose it is required to serve, which is to reliably predict the peak requirements that PGW’s system should be prepared to serve during a design winter scenario.

PGW’s Peak Day Analysis

PGW performs a peak day analysis on an annual basis to determine its projected send out requirements during peak conditions. Essentially this process is completed by collecting send out and average temperature data for all days where the temperature is at or below 32 degrees Fahrenheit, excluding holidays and weekends. All interruptible transportation volumes are removed from total send out to arrive at firm send out on a daily basis.

For this analysis, PGW utilized data from the period winter of FY 15-16 through FY 18-19 which would reflect the most current consumption behaviors of its customers. This period yielded 51 data points where the average temperature was at or below 32 degrees Fahrenheit. A standard linear regression was performed on the data using the calculated Heating Degree-Days (HDDs) and the actual firm daily send out information. Additionally, in order to confirm the accuracy of the analysis, and to smooth the charting of the data, a Quadratic and a Cubic regression analysis were also completed. The resulting models are presented in the following table.

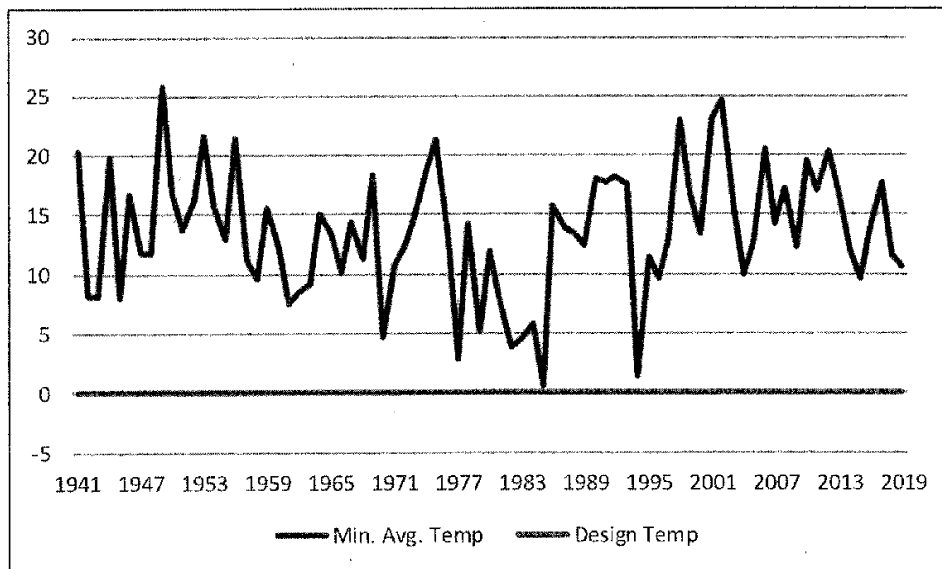
Table 1: PGW’s Regression Models

Linear	$y = -20,428.25 + 11,020.93 x$	where y = actual firm send out in Mcf; x = HDD; x ² = HDD ² ; and x ³ = HDD ³
Quadratic	$y = -17,841.06 + 10,889.99 x + 1.63 x^2$	
Cubic	$y = -302,369.81 + 32,332.30 x - 531.69 x^2 + 4.38 x^3$	

Source: PGW

PGW performs its capacity planning using the “Design Day” methodology, which assumes that peak demand for planning purposes occurs on the day(s) when the average daily temperature is 0 degree Fahrenheit - this is equivalent to a winter day with 65 heating degree days (HDDs). As can be seen from Exhibit 1, the probability of meeting design day conditions remains approximately once in 80 years based on the data from National Oceanic and Atmospheric Administration (NOAA). This probability may even be lower given the historical data only consider data from the past 80 years. Selection of such a low probability event, to determine the largest amount of gas that PGW must deliver to meet system requirements and maintain system integrity, is prudent in our opinion.

Exhibit 1: Coldest Days in Philadelphia By Year



Source: National Climatic Data Center (NCDC), National Oceanic and Atmospheric Administration (NOAA)

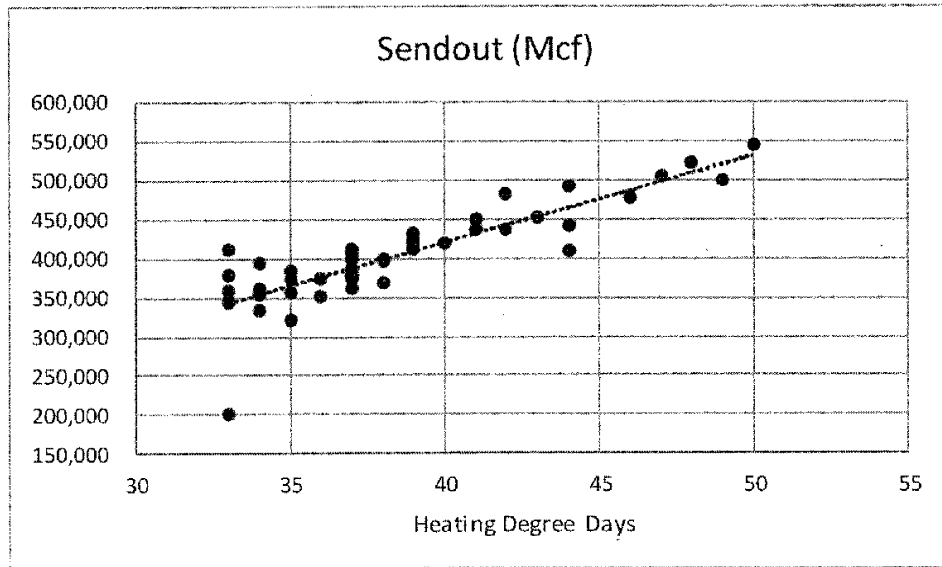
In the following sections, we review the underlying methodology of PGW's Linear, Quadratic, and Cubic models, evaluate their relative statistical significance and present our observations and recommendations.

We carry out the evaluation of the regression model in two steps – the first step is the preliminary (or sometimes referred to as intuitive) evaluation; and the second step is the more rigorous evaluation to test the statistical validity of the regression parameters and the overall model.

Preliminary Evaluation

In our preliminary evaluation, we are testing if the dependent variable can be intuitively explained by the independent variable(s) considered in the regression model(s). In the Peak Day Analysis, PGW's actual firm send out on the peak day is the explained (or dependent) variable, whereas the HDDs representing the number of degrees that a day's average temperature is below 65° Fahrenheit, which is the temperature below which buildings need to be heated, is the independent variable. The scatter plot presented in Exhibit 2 provides reasonable visual evidence of a linear relationship between the 2 variables. In addition to the linear relationship, PGW has considered a quadratic and cubic relationship between the firm send out and HDDs.

Exhibit 2: Scatter Plot



Source: PGW

In our preliminary evaluation, we also examine the Coefficient of Determination or commonly known as the R^2 . For the Quadratic and Cubic models, we use the R^2 adjusted for the number of terms in the model. The R^2 or the Adjusted R^2 measures the percentage of variation in the dependent variable that can be explained by the variation in the independent variables in the regression model. We also examine the magnitude and sign of each regression coefficient and the results are presented in the table below.

Table 2: Preliminary Evaluation Results

Regression Model	% Variation Explained	Effect on Explained Variable
Linear	75.44 % of variation in send out explained by <i>HDDs</i>	Send out positively affected by <i>HDD</i>
Quadratic	74.41 % of variation in send out explained by a combination of <i>HDD</i> , and <i>HDD²</i> variables	Send out positively affected by <i>HDD</i> and <i>HDD²</i> variables
Cubic	73.88 % of variation in send out explained by a combination of <i>HDD</i> , <i>HDD²</i> , and <i>HDD³</i> variables	Send out positively affected by <i>HDD</i> , negatively affected by <i>HDD²</i> , and positively affected by <i>HDD³</i> variables

Source: PGW

As can be seen from Table 2, adding polynomials of higher orders to the regression equation does not improve the “goodness of fit” as measured by Adjusted R^2 . The Linear model confirms the intuitive positive relationship between severity of weather, as measured by HDDs, and

natural gas load. It also explains a large portion of the historical variability observed in peak send outs, so it is the preferred model based on our preliminary evaluation.

Next, we perform a more rigorous statistical evaluation of the 3 models.

Statistical Evaluation

Testing for Statistical Significance of Slope Coefficients

The second step in our evaluation is to test for statistical significance of the coefficients of the independent variables in the regression models. It should be noted that the regression analysis only provides point estimates of these regression coefficients, so it becomes important to statistically test how representative are these of the true coefficients. This is achieved by computing confidence intervals for the regression coefficients and conducting hypothesis testing using p-values.

Confidence Intervals

To determine whether the independent variable(s) truly have an effect on the explained variable, we find a confidence interval around the point estimates of each of the coefficients of the independent variables in the regression. If the confidence interval contains 0, then we have significant statistical evidence to believe that the independent variable in question has no effect on the dependent variable. The 97.5% confidence intervals displayed in Table 3 are calculated using:

$$(\text{point estimate}) \pm (t - \text{critical value}) \times (\text{standard error})$$

with n-k degrees of freedom, where k is the number of parameters that are being estimated (number of regression coefficients in this case).

Table 3: Confidence Intervals Surrounding the Regression Coefficients

Model	HDD		HDD ²		HDD ³	
	Lower Endpoint	Upper Endpoint	Lower Endpoint	Upper Endpoint	Lower Endpoint	Upper Endpoint
Linear	8,943.68	13,098.19	N/A	N/A	N/A	N/A
Quadratic	-23,964.40	45,744.39	-431.44	434.70	N/A	N/A
Cubic	-455,118.95	519,783.54	-12,631.93	11,568.55	-94.86	103.61

Source: PGW

As can be clearly seen from Table 3, with 97.5% confidence, we cannot rule out that the coefficients of the independent variables in the Quadratic and Cubic models will not assume a value of 0. In this instance, only the Linear model has a statistically significant coefficient which is not zero. We can be 97.5% confident, that using the Linear model a unit increase in HDD will lead to an increase in send out ranging between 8,944 and 13,098 Mcf.

Hypothesis Testing

In addition to the confidence intervals, we also use Hypothesis Testing to determine whether the independent variable(s) truly have an effect on the explained variable. If there is no relationship between these variables, the coefficients of the independent variables will be 0 and vice versa. In order to statistically test the relationship, we construct a hypothesis as follows:

Determine if there is overwhelming evidence at the 0.05 significance level ($\alpha = 0.05$) of a linear relationship between the peak day send out and the HDDs observed on that day (or HDD² or HDD³).

$$H_0: \beta_i = 0$$

$$H_a: \beta_i \neq 0$$

$$\alpha = 0.05$$

We will use a *t*-test with *n-k* degrees of freedom, where *k* is the number of parameters that are being estimated (number of regression coefficients in this case). Our sample test statistic is given in the “*t* Stat” column in Table 4. We will use the *p*-value method to test the above hypothesis. The *P*-value is the probability of observing a test statistic more extreme than what was observed during the regression analysis assuming that the null hypothesis is true. Thus, at a 0.05 significance level, if the *p*-value is less than 0.05, we reject the null hypothesis H_0 that $\beta_i = 0$.

Table 4: Hypothesis Testing Results

Model	HDD		HDD ²		HDD ³	
	t Stat	P-value	t Stat	P-value	t Stat	P-value
Linear	12.27	1.4915E-16	N/A	N/A	N/A	N/A
Quadratic	0.72	0.47	0.01	0.99	N/A	N/A
Cubic	0.15	0.88	-0.10	0.92	0.10	0.92

Source: PGW

From the *p*-values in Table 4, it is evident that at 0.05 significance level we cannot reject the null hypothesis that the coefficient of HDD² and HDD³ in the Quadratic and Cubic models is zero. Only the HDD coefficient in the Linear model can be concluded to be non-zero at the 0.05 significance level.

Overall Test of Significance of the Regression Model

The *F*-test of overall significance indicates whether the given linear regression model provides a better fit to the data than a model that contains no independent variables (i.e. an “intercept-only” model). The *p*-values for all the three models are significantly lower than the 0.05 significance level and indicate that all the three models are statistically significant.

It should be noted that the Linear, Quadratic, and Cubic models that PGW has considered are progressively nested – the Linear model is nested within Quadratic and Cubic; the Quadratic model is nested within the Cubic model. While comparing nested models, where an additional independent variable is added to the regression model to test if the more complex model has a better fit of the given data, the *t*-test performs better than the overall *F*-test. As we discussed

earlier, the F-test assesses the overall significance of all the regression coefficients jointly, whereas the t-test examines each coefficient individually.

As we saw in the previous section, the t-tests have indicated that the regression coefficients of independent variables such as HDD^2 and HDD^3 cannot be statistically claimed to differ from zero. It is always recommended that a good, parsimonious regression model is preferred over complicated models with multiple independent variables, especially when these variables do not add to the explanatory or predictive value of the model. In the light of the t-tests, we recommend that PGW use the Linear model specified in Table 1.

Summary

As noted above, our preliminary evaluation concluded that the Linear model explains over 75% of the historical variability observed in peak send outs. Further, we noted that adding polynomials of higher orders to the linear model does not improve the "goodness of fit" as measured by Adjusted R^2 .

In our second analysis, we tested the statistical significance of the regression coefficients and model using the t-tests. The t-tests revealed that the regression coefficients of independent variables in the Quadratic and Cubic models cannot be statistically claimed to be different from zero. Since the analysis indicates that adding variables would not improve the statistical results, we recommend that PGW continue to use the Linear regression model specified in Table 1.

Tab 14

Philadelphia Gas Works

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

Item 53.64(i)

Utilities shall comply with the following:

- (1) Thirty days prior to the filing of a tariff reflecting increases or decreases in purchased gas expenses, gas utilities under 66 Pa.C.S. § 1307(f) recovering expenses under that section shall file a statement for the 12-month period ending 2 months prior to the filing date under 66 Pa.C.S. § 1307(f) as published in accordance with subsection(b) which shall specify:
 - (i) The total revenues received under 66 Pa.C.S. § 1307(a), (b) or (f), including fuel revenues received, whether shown on the bill as 66 Pa.C.S. § 1307(f) as published in accordance with subsection (b) which shall specify:
 - (ii) The total gas expenses incurred.
 - (iii) The difference between the amounts in sub paragraphs (I) and (ii).
 - (iv) Evidence explaining how actual costs incurred differ from the costs allowed under subparagraph (ii).
 - (v) How these costs are consistent with a least cost fuel procurement policy, as required by 66 Pa.C.S. § 1318 (relating to determination of just and reasonable natural gas rates).

Response:

Please see attached schedules. Additionally, please refer to Item 53.64(c)(6) for a detailed discussion regarding the Company's least cost fuel procurement policy.

**CALENDAR YEAR 2022
PHILADELPHIA GAS WORKS
C-FACTOR RECONCILIATION**

	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
	1	2	3	4 = (2 * 3)	5	6	7 = (4 + 5 + 6)	8	9 = (7 + 8 - 1)
	(\$)	(\$)		(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
MONTH									
JANUARY 2022	40,605,254	45,391,847	106.3%	48,229,404	205,700	0	48,435,104	244	7,830,094
FEBRUARY	37,800,462	47,376,566	106.3%	50,338,192	208,528	0	50,546,720	0	12,746,258
MARCH	30,767,726	32,056,069	104.8%	33,591,256	208,725	0	33,799,981	0	3,032,254
APRIL	16,537,542	21,393,379	103.2%	22,082,947	221,239	0	22,304,187	0	5,766,645
MAY	16,333,422	11,286,047	103.2%	11,649,828	218,826	0	11,868,654	0	(4,464,769)
JUNE	13,474,984	8,040,028	102.3%	8,227,416	196,649	0	8,424,066	1,971	(5,048,948)
JULY	12,663,812	7,763,620	101.8%	7,901,380	212,239	0	8,113,618	130,858	(4,419,336)
AUGUST	12,227,979	6,967,453	101.8%	7,091,086	213,544	0	7,304,630	(6,382)	(4,929,731)
SEPTEMBER	12,033,418	7,201,117	100.2%	7,214,709	147,057	0	7,361,766	0	(4,671,652)
OCTOBER	18,542,581	12,613,579	98.5%	12,428,839	72,928	0	12,501,767	3,358	(6,037,456)
NOVEMBER	24,273,210	21,520,311	98.5%	21,205,122	527,633	0	21,732,755	666	(2,539,790)
DECEMBER	<u>55,268,925</u>	<u>44,447,241</u>	98.5%	<u>43,772,315</u>	<u>232,289</u>	<u>0</u>	<u>44,004,603</u>	<u>0</u>	<u>(11,264,322)</u>
Total	290,529,317	266,057,258		273,732,494	2,665,356	0	276,397,850	130,714	(14,000,753)

**STATEMENT OF RECONCILIATION
UNIVERSAL SERVICES & ENERGY CONSERVATION SURCHARGE
CALENDAR YEAR 2022**

Month	USC Applicable Volumes	USC Charge	USC Revenue Billed	USC Expenses	Monthly Over/(Under) Recovery	Cumulative Over/(Under) Recovery
December 2021						\$4,706,388
January 2022	Actual 8,562,357	\$ 1,7523	\$ 15,003,818	\$ 16,251,389	\$ (1,247,572)	\$3,458,816
February	Actual 8,857,977	\$ 1,7523	\$ 15,521,834	\$ 16,791,630	\$ (1,269,796)	\$2,189,020
March	Actual 6,339,815	\$ 1,6927	\$ 10,731,404	\$ 13,086,071	\$ (2,354,666)	(\$165,647)
April	Actual 4,332,091	\$ 1,6331	\$ 7,074,737	\$ 8,395,863	\$ (1,321,125)	(\$1,486,772)
May	Actual 2,305,027	\$ 1,6331	\$ 3,764,339	\$ 4,018,718	\$ (254,379)	(\$1,741,151)
June	Actual 1,258,304	\$ 1,8608	\$ 2,341,388	\$ 2,476,963	\$ (135,574)	(\$1,876,726)
July	Actual 1,030,520	\$ 2,0884	\$ 2,152,137	\$ (363,696)	\$ 2,515,833	\$639,108
August	Actual 939,896	\$ 2,0884	\$ 1,962,878	\$ 1,264,474	\$ 698,404	\$1,337,511
September	Actual 992,962	\$ 1,9902	\$ 1,976,193	\$ 270,353	\$ 1,705,840	\$3,043,351
October	Actual 1,754,046	\$ 1,8920	\$ 3,318,655	\$ 2,075,986	\$ 1,242,669	\$4,286,020
November	Actual 2,942,220	\$ 1,8920	\$ 5,566,680	\$ 6,578,422	\$ (1,011,742)	\$3,274,278
December	Actual 6,189,652	\$ 1,8137	\$ 11,226,172	\$ 11,704,149	\$ (477,977)	\$2,796,301

USC Expenses	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total
ELIRP Expense	\$ 542,041	\$ 640,824	\$ 823,371	\$ 688,018	\$ 660,772	\$ 1,553	\$ 1,175,931	\$ 1,158,273	\$ 51,119	\$ 2,032	\$ 1,230,378	\$ 3,507	\$ 6,977,819
ELIRP Labor	\$ 7,008	\$ 5,836	\$ 4,158	\$ 5,225	\$ 4,269	\$ 5,573	\$ 8,595	\$ 8,000	\$ 7,477	\$ 6,882	\$ 6,882	\$ 8,596	\$ 78,501
Concervation Incentive Credit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CRP Discount	\$ 14,374,148	\$ 14,937,519	\$ 10,869,039	\$ 6,467,487	\$ 2,084,060	\$ 1,347,274	\$ (2,553,943)	\$ (945,850)	\$ (824,439)	\$ 1,018,285	\$ 4,314,039	\$ 10,578,706	\$ 61,666,324
CRP Forgiveness	\$ 875,311	\$ 755,712	\$ 1,054,080	\$ 1,011,942	\$ 1,149,466	\$ 1,033,110	\$ 945,918	\$ 988,655	\$ 979,140	\$ 947,472	\$ 849,797	\$ 796,716	\$ 11,387,318
Senior Citizen Discount	\$ 452,881	\$ 451,739	\$ 335,423	\$ 223,192	\$ 120,150	\$ 89,452	\$ 59,802	\$ 55,397	\$ 57,055	\$ 101,316	\$ 177,326	\$ 316,625	\$ 2,440,359
Bad Debt Expense Offset*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 16,251,389	\$ 16,791,630	\$ 13,086,071	\$ 8,395,863	\$ 4,018,718	\$ 2,476,963	\$ (363,696)	\$ 1,264,474	\$ 270,353	\$ 2,075,986	\$ 6,578,422	\$ 11,704,149	\$ 82,550,321

CRP Participation													
Rate Case Participation Rate	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
Actual Participation Rate*	52,631	53,135	53,535	53,940	53,671	52,342	53,849	51,019	50,723	50,981	50,598	50,412	
CRP Under(Over) Participation	27,369	26,865	26,465	26,060	26,329	27,658	26,151	28,981	29,277	29,019	29,402	29,588	
Average Shortfall Per CRP Participant													
CRP Discount	\$ 14,374,148	\$ 14,937,519	\$ 10,869,039	\$ 6,467,487	\$ 2,084,060	\$ 1,347,274	\$ (2,553,943)	\$ (945,850)	\$ (824,439)	\$ 1,018,285	\$ 4,314,039	\$ 10,578,706	
Actual Participation Rate	52,631	53,135	53,535	53,940	53,671	52,342	53,849	51,019	50,723	50,981	50,598	50,412	
Average Shortfall per CRP Participant	\$ 273	\$ 281	\$ 203	\$ 120	\$ 39	\$ 26	\$ (47)	\$ (19)	\$ (16)	\$ 20	\$ 85	\$ 210	
Shortfall*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bad Debt Expense Offset* 5.75%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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

Tab 15

Philadelphia Gas Works

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

Item 53.65(1)

The costs of the affiliated gas, transportation or storage as compared to the average market price of other gas, transportation or storage and the price of other sources of gas, transportation and storage.

Response:

PGW has no affiliates, see response to 53.64(c)(1) for price of gas, transportation and storage.

Tab 16

Docket No. R-2023-XXXXXXX
Item 53.65(2)

Philadelphia Gas Works

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

Item 53.65(2)

Estimates of the quantity of gas, transportation or storage available to the utility from all sources.

Response:

PGW has no affiliates and provided is a summary of all transport and storage.

Tab 17

Philadelphia Gas Works

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

Item 53.65(3)

Efforts made by the utility to obtain gas, transportation or storage from nonaffiliated interests.

Response:

PGW has no affiliates, therefore, all gas purchases were made from non-affiliated interests. Also, see the response to 53.64(c)(6) outlining PGW's current least cost fuel procurement practices.

Tab 18

Philadelphia Gas Works

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

Item 53.65(4)

The specific reasons why the utility has purchased gas, transportation or storage from an affiliated interest and demonstration that the purchases are consistent with a least cost fuel procurement policy.

Response:

PGW has no affiliates, therefore, all gas purchases were made from non-affiliated interests. Also, see the response to 53.64(c)(6) outlining PGW's current least cost fuel procurement practices.

Tab 19

Philadelphia Gas Works

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

Item 53.65(5)

The sources and amounts of gas, transportation or storage, which have been withheld from the market by the utility or, affiliated interest and the reasons why the gas, transportation or storage has been withheld?

Response:

PGW has no affiliates.

PGW operates two LNG Peak shaving facilities with a total usable storage capacity of 3.9 Bcf, 18.63 percent of PGW's total storage capacity. When pipeline and underground storage deliveries are insufficient to meet sendout requirements, LNG storage withdrawals will be considered. These LNG storage withdrawals are based upon incremental costs, weather forecasts, inventory balances, distribution system requirements, and other variables such as plant maintenance and operating requirements all of which can influence the vaporization and liquefaction rates of PGW's LNG facilities.

PGW used a total of 1,104,677 Mcf of LNG to meet city sendout requirements during fiscal year 2022.

Tab 20

Philadelphia Gas Works

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

Item 1317(a)

General rule.--In every rate proceeding instituted by a natural gas distribution utility, pursuant to section 1307(f) (relating to sliding scale of rates; adjustments), each such utility shall be required to supply to the commission such information, to be established by commission regulation within 120 days of the passage of this section, that will permit the commission to make specific findings as to whether the utility is pursuing a least cost fuel procurement policy, consistent with the utility's obligation to provide safe, adequate and reliable service to its customers. Such information shall include, but need not be limited to, information, data and statements regarding:

- (1) The utility's participation in rate proceedings before the Federal Energy Regulatory Commission which affect the utility's gas costs.

Response:

Please refer to Item 53.64(c)(4) contained in this filing.

Tab 21

Philadelphia Gas Works

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

Item 1317(a)

General rule.--In every rate proceeding instituted by a natural gas distribution utility, pursuant to section 1307(f) (relating to sliding scale of rates; adjustments), each such utility shall be required to supply to the commission such information, to be established by commission regulation within 120 days of the passage of this section, that will permit the commission to make specific findings as to whether the utility is pursuing a least cost fuel procurement policy, consistent with the utility's obligation to provide safe, adequate and reliable service to its customers. Such information shall include, but need not be limited to, information, data and statements regarding:

- (2) The utility's efforts to negotiate favorable contracts with gas suppliers and to renegotiate existing contracts with gas suppliers or take legal actions necessary to relieve the utility from existing contract terms which are or may be adverse to the interests of the utility's ratepayers.

Response:

Please refer to Item 53.64(c)(1) contained in this filing.

Tab 22

Philadelphia Gas Works

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

Item 1317(a)

General rule.--In every rate proceeding instituted by a natural gas distribution utility, pursuant to section 1307(f) (relating to sliding scale of rates; adjustments), each such utility shall be required to supply to the commission such information, to be established by commission regulation within 120 days of the passage of this section, that will permit the commission to make specific findings as to whether the utility is pursuing a least cost fuel procurement policy, consistent with the utility's obligation to provide safe, adequate and reliable service to its customers. Such information shall include, but need not be limited to, information, data and statements regarding:

- (3) The utility's efforts to secure lower cost gas supplies both within and outside of the Commonwealth, including the use of transportation arrangements with pipelines and other gas distribution companies.

Response:

Please refer to Item 53.64(c)(1) contained in this filing.

Tab 23

Philadelphia Gas Works

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

Item 1317(a)

General rule.--In every rate proceeding instituted by a natural gas distribution utility, pursuant to section 1307(f) (relating to sliding scale of rates; adjustments), each such utility shall be required to supply to the commission such information, to be established by commission regulation within 120 days of the passage of this section, that will permit the commission to make specific findings as to whether the utility is pursuing a least cost fuel procurement policy, consistent with the utility's obligation to provide safe, adequate and reliable service to its customers. Such information shall include, but need not be limited to, information, data and statements regarding:

- (4) The sources and amounts of all gas supplies which have been withheld or have been caused to be withheld from the market by the utility and the reasons why such gas is not to be utilized.

Response:

Please refer to Item 53.65(5) contained in this filing.

Tab 24

Philadelphia Gas Works

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

Item 1317(b)

Integrated gas companies.--In the case of a natural gas distribution utility which purchases all or part of its gas supplies from an affiliated interest, as that term is defined in section 2101 (relating to definition of affiliated interest), such utility shall, in addition to the materials required in subsection(a), be required to provide to the commission such information, to be established by commission regulation within 120 days of the passage of this section, that will permit the commission to make specific findings as to whether any purchases of gas from an affiliated interest are consistent with a least cost fuel procurement policy, consistent with the utility's obligation to provide safe, adequate and reliable service to its customers. Such information shall include, but need not be limited to, statements regarding:

- (1) Efforts made by the utility to obtain gas supplies from nonaffiliated interests.

Response:

Please refer to Item 53.65(3) contained in this filing.

Tab 25

Philadelphia Gas Works

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

Item 1317(b)

Integrated gas companies.--In the case of a natural gas distribution utility which purchases all or part of its gas supplies from an affiliated interest, as that term is defined in section 2101 (relating to definition of affiliated interest), such utility shall, in addition to the materials required in subsection(a), be required to provide to the commission such information, to be established by commission regulation within 120 days of the passage of this section, that will permit the commission to make specific findings as to whether any purchases of gas from an affiliated interest are consistent with a least cost fuel procurement policy, consistent with the utility's obligation to provide safe, adequate and reliable service to its customers. Such information shall include, but need not be limited to, statements regarding:

- (2) The specific reasons why the utility has purchased gas supplies from an affiliated interest and demonstration that such purchases are consistent with a least cost fuel procurement policy.

Response:

Please refer to Item 53.65(4) contained in this filing.

Tab 26

Philadelphia Gas Works

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

Item 1317(b)

Integrated gas companies.--In the case of a natural gas distribution utility which purchases all or part of its gas supplies from an affiliated interest, as that term is defined in section 2101 (relating to definition of affiliated interest), such utility shall, in addition to the materials required in subsection(a), be required to provide to the commission such information, to be established by commission regulation within 120 days of the passage of this section, that will permit the commission to make specific findings as to whether any purchases of gas from an affiliated interest are consistent with a least cost fuel procurement policy, consistent with the utility's obligation to provide safe, adequate and reliable service to its customers. Such information shall include, but need not be limited to, statements regarding:

- (3) The sources and amounts of all gas supplies which have been withheld from the market by the utility or any affiliated interest and the reasons why such gas is not being utilized.

Response:

Please refer to Item 53.65(5) contained in this filing.

Tab 27

Philadelphia Gas Works

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

Item 1317(c)

Reliability plans.--As part of its filing under section 1307(f) or if it is not required to make such a filing on an annual basis, a natural gas distribution company, as defined in section 2202 (relating to definitions), shall file a proposed reliability plan with the commission which shall, at a minimum, identify the following:

- (1) The projected peak day and seasonal requirements of the firm customers utilizing the distribution system of the natural gas distribution company during the 12-month projected period specified in section 1307(f)(1). Where operationally required, the design peak day requirements shall be specified for discrete segments of each natural gas distribution system.

Response:

Please refer to Item 53.64(c)(13) contained in this filing.

Tab 28

Philadelphia Gas Works

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

Item 1317(c)

Reliability plans.--As part of its filing under section 1307(f) or if it is not required to make such a filing on an annual basis, a natural gas distribution company, as defined in section 2202 (relating to definitions), shall file a proposed reliability plan with the commission which shall, at a minimum, identify the following:

- (2) The transportation capacity, storage, peaking or on-system production that ensures deliverability of the natural gas supplies necessary to meet such projected period peak day and seasonal requirements.

Response:

PGW does not maintain a specific document entitled a Reliability Plan, however, all of the components that would be contained in such a document are prepared by PGW and are contained in this filing in Items 53.64(c)(1), 53.64(c)(3), 53.64(c)(5), 53.64(c)(6), 53.64(c)(10), 53.64(c)(12), 53.64(c)(13), 53.64(c)(14), 53.65(2) and 53.65(5).

Tab 29

Docket No. R-2023-XXXXXXX
Item 1317(d)

Philadelphia Gas Works

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

Item 1317(d)

Supply plans.--As part of its filing under section 1307(f), a natural gas distribution company shall file a proposed plan with the commission for acquisition or receipt of natural gas supplies.

Response:

Please refer to Item 53.64(c)(1) and 53.65(2) contained in this filing.

Tab 30

Philadelphia Gas Works

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

Item 1318(a)

General rule.--In establishing just and reasonable rates for those natural gas distribution companies, as defined in section 2202 (relating to definitions), with gross intrastate operating revenues in excess of \$40,000,000 under section 1307(f) (relating to sliding scale of rates; adjustments) or 1308(d) (relating to voluntary changes in rates) or any other rate proceeding, the commission shall consider the materials provided by the utilities pursuant to section 1317 (relating to regulation of natural gas costs). No rates for a natural gas distribution utility shall be deemed just and reasonable unless the commission finds that the utility is pursuing a least cost fuel procurement policy, consistent with the utility's obligation to provide safe, adequate and reliable service to its customers. In making such a determination, the commission shall be required to make specific findings which shall include, but need not be limited to, findings that:

- (1) The utility has fully and vigorously represented the interests of its ratepayers in proceedings before the Federal Energy Regulatory Commission.

Response:

Please refer to Item 53.64(c)(4) contained in this filing.

Tab 31

Philadelphia Gas Works

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

Item 1318(a)

General rule.--In establishing just and reasonable rates for those natural gas distribution companies, as defined in section 2202 (relating to definitions), with gross intrastate operating revenues in excess of \$40,000,000 under section 1307(f) (relating to sliding scale of rates; adjustments) or 1308(d) (relating to voluntary changes in rates) or any other rate proceeding, the commission shall consider the materials provided by the utilities pursuant to section 1317 (relating to regulation of natural gas costs). No rates for a natural gas distribution utility shall be deemed just and reasonable unless the commission finds that the utility is pursuing a least cost fuel procurement policy, consistent with the utility's obligation to provide safe, adequate and reliable service to its customers. In making such a determination, the commission shall be required to make specific findings which shall include, but need not be limited to, findings that:

- (2) The utility has taken all prudent steps necessary to negotiate favorable gas supply contracts and to relieve the utility from terms in existing contracts with its gas suppliers which are or may be adverse to the interests of the utility's ratepayers.

Response:

Please refer to Item 53.64(c)(1) contained in this filing.

Tab 32

Philadelphia Gas Works

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

Item 1318(a)

General rule.--In establishing just and reasonable rates for those natural gas distribution companies, as defined in section 2202 (relating to definitions), with gross intrastate operating revenues in excess of \$40,000,000 under section 1307(f) (relating to sliding scale of rates; adjustments) or 1308(d) (relating to voluntary changes in rates) or any other rate proceeding, the commission shall consider the materials provided by the utilities pursuant to section 1317 (relating to regulation of natural gas costs). No rates for a natural gas distribution utility shall be deemed just and reasonable unless the commission finds that the utility is pursuing a least cost fuel procurement policy, consistent with the utility's obligation to provide safe, adequate and reliable service to its customers. In making such a determination, the commission shall be required to make specific findings which shall include, but need not be limited to, findings that:

- (3) The utility has taken all prudent steps necessary to obtain lower cost gas supplies on both short-term and long-term bases both within and outside the Commonwealth, including the use of gas transportation arrangements with pipelines and other distribution companies.

Response:

Please refer to Item 53.64(c)(1) contained in this filing.

Tab 33

Philadelphia Gas Works

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

Item 1318(a)

General rule.--In establishing just and reasonable rates for those natural gas distribution companies, as defined in section 2202 (relating to definitions), with gross intrastate operating revenues in excess of \$40,000,000 under section 1307(f) (relating to sliding scale of rates; adjustments) or 1308(d) (relating to voluntary changes in rates) or any other rate proceeding, the commission shall consider the materials provided by the utilities pursuant to section 1317 (relating to regulation of natural gas costs). No rates for a natural gas distribution utility shall be deemed just and reasonable unless the commission finds that the utility is pursuing a least cost fuel procurement policy, consistent with the utility's obligation to provide safe, adequate and reliable service to its customers. In making such a determination, the commission shall be required to make specific findings which shall include, but need not be limited to, findings that:

- (4) The utility has not withheld from the market or caused to be withheld from the market any gas supplies which should have been utilized as part of a least cost fuel procurement policy.

Response:

Please refer to Item 53.65(5) contained in this filing.

Tab 34

Philadelphia Gas Works

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

Item 1318(b)

Limitation on gas purchased from affiliates.--In any instance in which a natural gas distribution company purchases all or part of its gas supplies from an affiliated interest, as that term is defined in section 2101 (relating to definition of affiliated interest), the commission, in addition to the determinations and findings set forth in subsection (a), shall be required to make specific findings with regard to the justness and reasonableness of all such purchases. Such findings shall include, but not be limited to findings:

- (1) That the utility has fully and vigorously attempted to obtain less costly gas supplies on both short-term and long-term bases from nonaffiliated interests.

Response:

Please refer to Item 53.65(3) contained in this filing.

Tab 35

Philadelphia Gas Works

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

Item 1318(b)

Limitation on gas purchased from affiliates.--In any instance in which a natural gas distribution company purchases all or part of its gas supplies from an affiliated interest, as that term is defined in section 2101 (relating to definition of affiliated interest), the commission, in addition to the determinations and findings set forth in subsection (a), shall be required to make specific findings with regard to the justness and reasonableness of all such purchases. Such findings shall include, but not be limited to findings:

- (2) That each contract for the purchase of gas from its affiliated interest is consistent with a least cost fuel procurement policy.

Response:

Please refer to Item 53.65(4) contained in this filing.

Tab 36

Philadelphia Gas Works

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

Item 1318(b)

Limitation on gas purchased from affiliates.--In any instance in which a natural gas distribution company purchases all or part of its gas supplies from an affiliated interest, as that term is defined in section 2101 (relating to definition of affiliated interest), the commission, in addition to the determinations and findings set forth in subsection (a), shall be required to make specific findings with regard to the justness and reasonableness of all such purchases. Such findings shall include, but not be limited to findings:

- (3) That neither the utility nor its affiliated interest has withheld from the market any gas supplies which should have been utilized as part of a least cost fuel procurement policy.

Response:

Please refer to Item 53.65(5) contained in this filing.

Tab 37

Docket No. R-2023-XXXXXXX
Item 1318(c)

Philadelphia Gas Works

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

Item 1318(c)

Shut-in gas; special rule.--In determining whether a gas utility has purchased the least costly natural gas available, the commission shall consider as available to the utility any gas supplies that reasonably could have been brought to market during the relevant period but which were voluntarily withheld from the market by the utility or an affiliated interest of the utility.

Response:

Please refer to Item 53.65(5) contained in this filing.