
 Aster Zekarias,
 v.
 UGI Utilities, Inc.

Docket No.:
 C-2021-3028040

Further Call-In
 Telephonic Hearing

Pages 9 - 156

Judge's Chambers
 State Office Building
 801 Market Street
 Philadelphia, PA

Wednesday, April 6, 2022
 Commencing at 10:04 a.m.

INDEX TO EXHIBITS

Docket No. C-2021-3028040

Hearing Date: April 6, 2022

NUMBER FOR IDENTIFICATION IN EVIDENCE

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Letter

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Work Order

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Invoice

Respondent Exhibit:

Respondent Exhibit 1 73 135

Statement of Account

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|---------------|---------------------------|--------------------|
|---------------|---------------------------|--------------------|

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| Engineering Guidelines | | |



UTILITIES, INC.

March 03, 2010

NAIZGHI ZEKARIAS
ASTER ZEKARIAS
227 SHADYBROOKE DR N
DOUGLASSVILLE PA 19518

Account: 718445119317
227 SHADYBROOKE DR N
DOUGLASSVILLE PA 19518

Dear Customer:

Due to a change in your consumption levels, we feel that the meter/device may not be registering the actual amount of gas being used. Although you may still be able to receive gas to your appliances, it appears as though the dials may not be rotating properly on the meter/device or may have stopped rotating all together. Please contact our office at 1-800-276-2722 to schedule an appointment so that the meter can be changed or to inform us if there is a reason why your consumption levels have decreased.

If the meter is located outside we will be able to change it; however, we may still need access inside the property. If the meter is located inside the property, we will need access to complete the meter change. This service is free of charge.

Thank you for your cooperation regarding this matter.

Sincerely,

Customer Accounting Department

Talked to Diane on 3-10-10
made appointment for 3-18-10 12 PM

Gas Meter was replaced about 1:15 PM on schedule

The old meter was 6218

The new meter was 7207

PNRM-DRM-P

Version 01

Zekarias Exhibit

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mam 4/5/2022

UGI AdvantageSM Service Agreement

Retain This Official Confirmation of Your Service Agreement For:

| Plan: | Value: | Effective Date: | Expiration Date: |
|------------------------|---------|-----------------|------------------|
| 1 PLAN E - HOME HEATER | \$79.00 | 02-23-2006 | 02-22-2007 |

We're pleased to present your 12-month complimentary service agreement. Keep this contract accessible in the event that you need to call UGI for equipment service. For 24-hour service emergencies, call 1-800-322-6013.

With UGI, you can always count on total value and premium service. Only UGI provides:

- 24-hour availability, every day -- even holidays
- Priority response for service agreement customers
- Preferred prices for heater cleanings and inspections
- Up to \$325 off replacement equipment - See reverse for details
- No deductibles or diagnostic fees

(Please review the complete terms and conditions on the reverse side.)

While equipment cleanings are not included in this agreement, UGI offers this service at discounted rates during off-peak months for Service Agreement customers. We recommend you schedule your cleaning in the March through August period.

Your agreement will expire on the expiration date above. About one month prior to that date, you will receive notification to renew, and you will have the opportunity to change your coverage for the upcoming year.

Enjoy peace of mind and comfort with this outstanding parts and labor agreement. Thank you for choosing UGI.

NAIZGHI ZEKARIAS
227 SHADYBROOKE DR N
DOUGLASSVILLE PA 19518

Zekarias Exhibit

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mam 4/5/2022



Acct# 718-445-1193-17

Service Addr. 227 SHADYBROOKE DR N

CUSTOMER NUMBER 782151000
 WORK ORDER NUMBER 12530
 DATE 1/1/11 ATTN: Heating / Cooling / Plumbing / Indoor Air Quality / Energy Audits



24-Hour Service 1-877-844-4822
 www.UGIHVAC.com www.GOTOGAS.com
 UGI Heating, Cooling & Plumbing
 P.O. Box 12407
 Reading, PA 19612-2407



LAST NAME 22222222 FIRST NAME ASLN
 STREET 227 Spadbrook Ave D
 CITY PHILADELPHIA STATE PA ZIP 19114
 HOME # 610-381-1707 CELL # 484-835-8358
 EMAIL ADDRESS

TECH NAME TECH # TRUCK #
 WORK PERFORMED/MATERIAL:
 1) 2000 2000 2000 2000
 2) 2000 2000 2000 2000
 3) 2000 2000 2000 2000
 4) 2000 2000 2000 2000

CONTRACT PLAN A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 SERVICE REQUEST:

| EQUIP TYPE | MODEL # | YEAR |
|------------|----------|----------|
| MFG | SERIAL # | EFF/SEER |
| EQUIP TYPE | MODEL # | YEAR |
| MFG | SERIAL # | EFF/SEER |
| EQUIP TYPE | MODEL # | YEAR |
| MFG | SERIAL # | EFF/SEER |
| EQUIP TYPE | MODEL # | YEAR |
| MFG | SERIAL # | EFF/SEER |

RECOMMENDATIONS:
 RECOMMEND YEARLY HEATING AND AIR CONDITIONER MAINTENANCE

QTY FLAT RATE/PART #/DESCRIPTION/PO# PRICE
 1ST 1/2 HOUR + ADDITIONAL 1/4 HOURS X \$ PER 1/4 HOUR
 AUTHORIZED SIGNATURE SUB-TOTAL
 TAX
 CHECK # CASH CREDIT CARD TOTAL DUE

TOTAL BTU APPROX. CUBIC FT REQUIRED CUBIC FT
 GAS PRESSURE LOW FIRE HI FIRE
 CO READING HH CO READING AWH
 AMBIENT CO AS LEFT PREVIOUSLY TAGGED YES NO
 TAG COMPANED SPACE YES NO RED TAG YES NO
 YELLOW TAG CODE VIOLATION YES NO
 Have you used your heater within the last 24 hours? Yes No
 TRAVEL TIME ARRIVE TIME DEPART TIME REFRIGERANT TYPE ADDED QTY
 SOLUTION CODES RECOVERED QTY RETURNED QTY

SYSTEM OPERATION CHECKLIST

THERMOSTAT PROG MON
 BOILER BOILER PRESSURE PSI @ TEMP
 INSPECT CIRCULATORS INSPECT LOW WATER CUTOFF & STEAM PIG TAIL
 INSPECT EXPANSION TANK
 INSPECT SAFETY CONTROLS
 GAS FURNACE
 INSPECT FUEL SUPPLY PRESSURE
 INSPECT HEAT EXCHANGER
 CHECK SAFETY CONTROLS
 DELTA T _____ S _____ R _____
 BLOWER MOTOR
 CHECKED ELECTRICAL CONNECTIONS
 INSPECT PULLEY AND BELTS
 INSPECT MOTOR BEARINGS
 BLOWER WHEELS OK? YES NO
 ELECTRICAL
 INSPECT HEAT STRIPS
 INSPECT FUSES
 INSPECT SAFETY CONTROLS
 AIR FILTRATION SIZE _____ WASHABLE _____ ELECTRICAL
 DISPOSABLE _____ SIZE _____ QTY _____
 CONDENSATE
 INSPECT DRAIN PAN FLUSH DRAIN LINES
 DUCT WORK NEEDS CLEANING
 CLEAN
 UV LIGHT E G NOT WORKING
 HUMIDIFIER E G NOT WORKING
 AGE _____
 CONDENSER
 HEAD _____ PSI SUCTION _____ PSI
 SUPER HEAT _____ SUB COOL _____
 VOLTS _____ AMPS _____
 CHECK ELECTRICAL CONNECTIONS
 INSPECT COIL & FIN CONDITION AMPS
 INSPECT FAN
 WATER HEATER
 FLEE PIPE CHECKED PILOT CHECKED
 THERMOCOUPLE THERMOSTAT
 RELIEF VALVE CHECKED
 OIL/BURNER COMBUSTION ANALYSIS E G F P
 CO2 _____
 DRAFT _____ SMOKE _____
 PUMP PHS _____ SAFETY TIME _____
 STACK TEMP _____
 JOB COMPLETE YES J1 NO J2
 YES NO

Zekarias Exhibit

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mam 4/5/2022



Invoice

Platinum Plumbing & Heating, Inc

319 W. Ridge Pike,
Limerick, PA 19468
(610) 409-6500
office@platinumplumbingpa.com

Invoice Date: **03/01/2022**
 Invoice No: **F-65645**
 Due Date: **03/01/2022**
 Sales Rep: **Kevin F**
 Customer PO:
 Work Order No. **WO-19685**

Bill To Address

Aster Zekarias
227 Shadybrooke Drive,
Douglassville, PA 19518

Site Address

Aster Zekarias
227 Shadybrooke Drive,
Douglassville, PA 19518

| Description | Qty | Price (\$) | Amount (\$) |
|---|------|------------|-------------|
| Gas line inspection: Gas line from street regulated to 2 PSI at meter. 2 PSI gas is regulated down to 8" WC inside the home. After the regulator inside, there is a manifold distributing the gas to the home. I ran both furnaces and the water heater at the same time, and the gas pressure dropped to 7.33 WC, so there is sufficient volume moving through the regulator and the manifold. This is a properly installed gas piping system, and I found no defects. It appears to be the original installation. | 1.00 | 550.00 | 550.00 |

| | |
|------------------|-----------------|
| Sub Total | \$550.00 |
| Tax (6.0000 %) | \$0.00 |
| Total | \$550.00 |
| Amount Received | \$550.00 |
| Invoice Balance | \$0.00 |

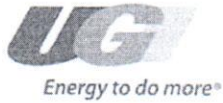
Message

A friend of yours is a friend of ours! Earn up to \$100 for each qualifying referral. Thank you for choosing Platinum Plumbing, Heating & Air Conditioning. It is a pleasure to serve you! PA075390

Zekarias Exhibit

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mam 4/5/2022



UGI Utilities, Inc.
PO Box 13009
Reading, PA 19612-3009
(800) 276-2722

December 18, 2020

ASTER ZEKARIAS
227 SHADYBROOKE DR N
DOUGLASSVILLE PA 19518-1316

Regarding: Account 411003786273
Service Address: 227 SHADYBROOKE DR N
DOUGLASSVILLE PA 19518-1316

Dear Customer,

On a recent service call, a UGI representative noticed that your gas-fired equipment did not meet local safety standards. With our commitment to the safe utilization of gas, we consider it necessary to notify you of the condition we found and place a warning tag on the appliance. Due to the severity of the condition, a RED TAG was attached. The red tag condition represents a clear and immediate threat to the safety or health of the user, and the tagged appliance was shut off in the interest of your safety. **UNDER NO CIRCUMSTANCES SHOULD A RED-TAGGED APPLIANCE BE OPERATED UNTIL REPAIRS ARE COMPLETED OR REPLACEMENT MADE BY A QUALIFIED SERVICE AGENCY.**

APPLIANCE: PROBLEM
Other:R - Leak On Fuel Line

A qualified contractor may perform these corrections and, in most cases, put the equipment back in service. In some cases, the local code enforcement officer may require an inspection of the installation before it is put back in service.

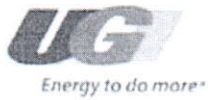
If you have questions related to this requirement, please direct them to AMITY TOWNSHIP, 2004 WEAVERTOWN RD, DOUGLASSVILLE PA 19518 or by phone at (610) 689-6000. For any other questions, please contact a UGI Utilities service representative at (800) 276-2722.

Sincerely,

UGI Customer Care Team

CC: AMITY TOWNSHIP





May 5, 2021

ASTER ZEKARIAS
227 SHADYBROOKE DR N
DOUGLASSVILLE PA 19518

Account Number: 411003786273

Dear Customer:

Due to a processing error in our system we had the incorrect device associated with your account for the time period 11/20/2020 thru 04/23/2021. As a result of this error we have enclosed corrected bills which reflects the correct gas usage for that time period. We would like to extend you the opportunity to set up a payment arrangement for the balance accrued.

Please contact us if you would like to set up an arrangement at 1-800-276-2722. If we do not hear from you the balance will be due by the due date of your bill. Please note that if you are setup for automatic payment, you will need to disable this option online if you would like to pay this off through a payment arrangement.

Please accept our sincere apology for the any inconvenience this may have caused you. We look forward to providing you with an improved level of customer service.

Sincerely,

Billing Department

Enclosures: 5

Invoices

UGI Exhibit

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mam 4/5/2022



May 6, 2021

Aster Zekarias
227 Shadybrooke Drive N
Douglassville, PA 19518

Re: Service Address: 227 Shadybrooke Drive N / Douglassville PA 19518-1316
Account Number: 411003786273

Dear Customer:

You contacted our office on April 7, 2021 regarding your gas account. You questioned why the most recent estimated bill was so high and scheduled a (2nd) Company meter reading for April 9, 2021 to verify the usage billed.

Our Company records indicate that when the technician arrived at your property on the scheduled date to read the meter, he found that the meter information wasn't updated in the billing system when the meter was changed, and a fixed factor regulator was installed back in December 18, 2020. A billing multiplier was added to your account to ensure accurate billing, you may see a slight increase in your bills, but it won't impact your bills significantly. In order to update your account, the bills needed to be reversed back to November 2020, the meter number was updated, and revised bills have been issued based on company readings of your correct meter.

Enclosed is a utility consumption statement detailing this property's usage. This statement includes dates and types of meter readings, usage (CCF), and net bill amounts as well as heating degree days. Degree days are a measure of cold weather intensity.

We hope this resolves your billing concern. If, however, you still question the amount of the bill, you may choose to have a Meter Change and Test performed on your meter for a cost of \$10.00. You may be present for the testing completed in our Reading, PA facility and scheduled through our Customer Care Center at the number below.

With your payment of \$128.18 on April 21, 2021, your account has a balance of \$515.92 due. If you are unable to pay this amount in full by the extended due date of May 26, 2021, or have any additional questions regarding the information provided, please call our Customer Care Center at 1-800-276-2722.

If reviewing this information and contacting the Customer Care Center does not resolve your concern, you have the option of filing an Informal Complaint with the Pennsylvania Public Utility Commission. Enclosed is an outline of the procedure for filing the complaint.

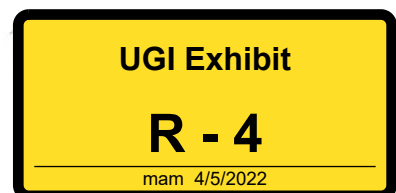
We appreciate the opportunity to assist you.

Sincerely,

Jessica

Jessica
Customer Relations Representative

/JE
Enclosures





PRODUCED ON: 05-11-2021
 BILLING HISTORY FOR:
 ACCT # 411003786273
 227 Shadybrooke Dr N
 Douglassville PA 19518-1316

UGI Utilities, Inc.
 READING AREA OFFICE
 255 MORGANTOWN RD
 Reading, PA 19612-3009
 (800) 276-2722

GAS BILLS

| <u>READ DATE</u> | <u>TYPE OF METER READING</u> | <u>NO. OF DAYS</u> | <u>HUNDRED CU. FEET USED</u> | <u>NET BILL</u> | <u>DEGREE DAYS</u> | <u>AVG TEMP</u> |
|------------------|------------------------------|--------------------|------------------------------|-----------------|--------------------|-----------------|
| 04-22-2021 | Actual | 29 | 52 | 60.07 | 358 | 53 |
| 03-24-2021 | Actual | 29 | 197 | 187.16 | 653 | 42 |
| 02-23-2021 | Estimate | 32 | 217 | 204.71 | 1,136 | 30 |
| 01-22-2021 | Estimate | 31 | 211 | 198.47 | 908 | 36 |
| 12-22-2020 | Estimate | 33 | 147 | 141.82 | 821 | 40 |
| 11-19-2020 | Actual | 29 | 59 | 66.60 | 421 | 51 |
| 10-21-2020 | Actual | 29 | 13 | 25.11 | 153 | 60 |
| 09-22-2020 | Actual | 32 | 8 | 20.83 | 67 | 69 |
| 08-21-2020 | Actual | 29 | 6 | 19.10 | 0 | 77 |
| 07-23-2020 | Actual | 30 | 8 | 20.83 | 0 | 78 |
| 06-23-2020 | Actual | 32 | 10 | 22.56 | 12 | 71 |
| 05-22-2020 | Actual | 30 | 46 | 53.60 | 282 | 56 |
| 04-22-2020 | Actual | 29 | 78 | 81.18 | 440 | 50 |
| 03-24-2020 | Actual | 29 | 115 | 113.67 | 574 | 45 |
| 02-24-2020 | Actual | 32 | 199 | 191.59 | 843 | 39 |
| 01-23-2020 | Actual | 31 | 145 | 143.40 | 859 | 37 |
| 12-23-2019 | Actual | 33 | 136 | 137.57 | 911 | 37 |
| 11-20-2019 | Actual | 29 | 77 | 86.86 | 550 | 46 |
| 10-22-2019 | Actual | 29 | 3 | 15.08 | 165 | 61 |
| 09-23-2019 | Actual | 32 | 3 | 14.46 | 10 | 70 |
| 08-22-2019 | Actual | 29 | 0 | 11.77 | 0 | 77 |
| 07-24-2019 | Actual | 30 | 3 | 14.53 | 0 | 78 |
| 06-24-2019 | Actual | 32 | 4 | 15.30 | 11 | 70 |
| 05-23-2019 | Actual | 29 | 5 | 16.14 | 141 | 61 |

ASTER ZEKARIAS
 227 Shadybrooke Dr N
 Douglassville PA 19518-1316

EXHIBIT R-4
 page 2 of 2

Clear Interaction End Get Account

IS-U Service Order: 101256817

Display in ERP Change in ERP

- Identification
- Overview
- Account Balance
- Interaction Record
- Interaction History
- Contract Management
- Order & Notification Search
- Misc Links
- Inbox
- Script
- Ad-hoc Letters

Order No. / Priority: 101256817

Status: Field Work Complete. Complete. Update Device Location Codes. Characteristics for a...

Order: ZINV Investigation

Sold-To Party: Aster Zekarias

Description: Investigate Poor Pressure

Basic Start: 12/17/2020 08:00

Basic End: 12/17/2020 16:00

Alternate Contact No. Call Before Visit

Req Move out Date Waive Off Charge:

Contact Name

Investigate Poor Pressure

* 12/17/2020 18:05:58 EST Katy Zinga (KZINGA)

* Investigate Poor Pressure--227 Shadybrooke Dr N / Douglassville PA 19518--Stated HH and Fire place keep going out, verified poor pressure. Someone here for access. No Covid-19 symptoms or exposure

* 12/17/2020 18:09:34 EST Katy Zinga (KZINGA)

* Advised meter is free from snow on and around meter.

Existing Long Text

* 12/18/2020 00:41:18 EST (GARY VALINOTO)

* customer had a step down reg inside her house has been the same for 12 years, it ested our reg and only got 8 wc. her set up inside

* was for 2lbs, our info does not show she set for 2lbs, talked to Andrew Z installed 2lbs reg and test after her reg 10wc, brain p

* will test old reg, we need to look @ her account to adjust billing also changed meter gage test did not hold meter is s/o and locked

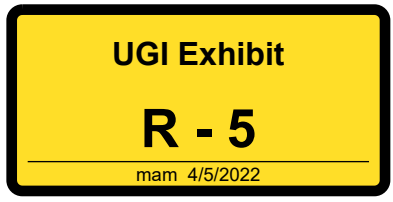
* ugi hvac will be out to look for leak and fix

Use New Text

New Text

Context Menu

- Account 1000548450
- BuAg 411003786273
- Premise 6000423805
- Recent Objects (2)
- Personalize



Aster Zekarias / 411003786273

227 Shadybrooke Dr N / Douglassville PA 19518-1316

Clear Interaction End Get Account



IS-U Service Order: 101256912

Display in ERP Change in ERP

Identification

Overview

Account Balance

Interaction Record

Interaction History

Contract Management

Order & Notification Seq.

Misc Links

Inbox

Script

Ad-hoc Letters

Order No. / Priority 101256912

Status Field Work Complete, Complete, Update Device Location Codes, Characteristics for a...

Order ZCHG Replace/Change Meter

Sold-To Party Aster Zekarias

Description Replace Meter

Basic Start 12/18/2020

Basic End 12/18/2020

Alternate Contact No

Req Move out Date

Contact Name

08:00

16:00

Call Before Visit:

Waive Off Charge:

Context Menu

Account 1000548450

BuAg 411003786273

Premise 6000423805

Recent Objects (2)

Personalize

Replace Meter

* 12/18/2020 00:03:06 CST Matthew Zaorski (MZAORSKI)

* Replace Meter, Gary Valinoto

* 12/18/2020 01:14:40 EST (GARY VALINOTO)

* see other order for information, replaced meter installed 2lb reg tested our pressure ok, and customer ok, gag e test did not hold red

* tag leak on fuel line s/o and locked meter called ugi hvac for customer they will be out to find and fix same

Existing Long Text

UGI Exhibit

R - 6

mam 4/5/2022

Aster Zekarias / 411003786273
227 Shadybrooke Dr N / Douglassville PA 19518-1316

Clear Interaction End Get Account

IS-U Service Order: 101257305

Display in ERP Change in ERP



Identification

Overview ▶

Account Balance ▶

Interaction Record ▶

Interaction History ▶

Contract Management ▶

Order & Notification Sea... ▶

Misc Links ▶

Inbox

Script

Ad-hoc Letters

Order No. / Priority 101257305

Status Field Work Complete, Complete, Update Device Location Codes, Characteristics for a...

Order ZATG Cust Accounting / Misc

Sold-To Party Aster Zekarias

Description Light Up

Basic Start 12/18/2020 08:00

Basic End 12/18/2020 16:00

Alternate Contact No. Call Before Visit

Req Move out Date Waive Off Charge

Contact Name

Context Menu

Account 1000548450

BuAg 411003786273

Premise 6000423805

Recent Objects (2)

Personalize

Light Up

* 12/18/2020 12:22:15 EST Jillian Daniels (JDANIELS)

* Light Up- Someone will be there. NO COVID-19 symptoms or exposure or COVID-19 exposure or symptoms in the home

* 12/18/2020 14:40:06 EST (Jose Montanez)

* To gas reg test good pipin g test good. reit appliances and checked op

Existing Long Text

UGI Exhibit

R - 7

mam 4/5/2022

RULES AND REGULATIONS

7. METER READING

7.1 Definition of a Cubic Foot. A cubic foot shall be the amount of gas that occupies a volume of one cubic foot at an absolute pressure of 14.73 pounds per square inch and a temperature of 60° Fahrenheit. To determine the volume at conditions other than standard pressures of gas delivered, factors such as those for pressure, temperature, specific gravity, caloric value, and deviation from the laws of ideal gases may be applied.

7.2 Method of Measurement. Gas usage shall be measured by Company owned meters.

→ 7.3 Pressure Correction. At the Customer's request, the Company may allow delivery at an elevated pressure that exceeds the standard pressure of seven-inches water column (7" W.C.). In situations where delivery pressure is two pounds per square inch or greater, the Company may choose to use a fixed factor to account for the higher energy content of the higher pressure gas, whereby the metered volume is multiplied by the pressure factor to determine the correct energy consumed. In cases where the Company agrees to provide delivery service at such an elevated pressure without a fixed factor, a supplemental device will be installed at the Customer's expense to correct the meter reading for pressure and temperature, the cost of which shall be estimated, inclusive of overhead amounts, however, the Company and Customer may negotiate cost responsibility for installation of pressure mechanisms upon mutual agreement. The Company may reject a Customer's request for non-standard service at elevated pressure for system operational reasons, where the Customer does not agree to pay the cost for non-standard service, where applicable, under Rules 4.7, 5.3 or 5.4(a), or for any other reason that the Company may determine at its sole discretion.

7.4 Heating Value Correction. Where direct sources of natural gas, renewable natural gas, synthetic natural gas or other natural gas substituted or blended supplies delivered into the Company's distribution system may vary in heating value content (BTUs per cubic foot), the Company may apply a heating value correction factor to metered usage to adjust for heating values that differ from the Company's applicable annual system wide average value (determined excluding direct sources where heating correction is being applied). This heating correction factor will apply when heating value differences exceed a 2% difference at the customer location. This factor may be adjusted monthly. This tariff provision only applies to decreased heating value content gas entering the Company's system. (C)

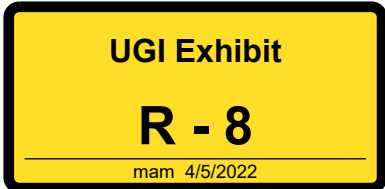
7.5 Meter Tests. The Company may, from time to time and at its expense, inspect and test its meters. The Customer has the right to have the Company test the meter in service at the Customer's premises, and, upon written request, the Company will, as applicable, remove, seal and test the meter in accordance with the Gas Service Regulations of the Pennsylvania Public Utility Commission ("Regulations") or secure an in-person meter reading to confirm the accuracy of an automatic meter reading device when a customer disconnects service or a new service request is received. Together with the written request for a meter test, the Customer shall deposit with the Company the meter testing fee specified by the Regulations. If the meter tests within the accuracy limits specified by the Regulations, the meter shall be deemed for all purposes to have registered accurately. In such case, no billing adjustment shall be made, and the meter testing fee deposited with the Company shall be credited to the Company. (C)

(C) Indicates Change

EXHIBIT R-8

Issued: May 26, 2021

Effective for Service Rendered on and after
August 6, 2021



§ 59.15. Measurement of gas at higher than standard service pressure.

(a) *Pressure-recording equipment.* If gas is measured to customers through displacement meters at a pressure greater than standard service pressure, the meters shall be equipped with reliable pressure-volume recording gauges or other devices for accurately determining the quantity of gas which has passed through the meter in accordance with contract or tariff provisions.

(b) *Determination of multiplier.* In computing the volume of gas at a given pressure base from a pressure-volume chart, the multiplier shall be obtained by the weighted average method, which consists of determining the average pressure for each indicated unit volume on the chart.

(c) *Fixed pressure factor measurement.* If the gas metering pressure can be maintained at a constant level so that it will not vary by more than plus or minus 1.0% of the absolute metering pressure, the quantity of gas corrected for pressure for billing purposes may be determined by multiplying the uncorrected volume by the factor of Metering Pressure Plus Atmospheric Pressure Divided by Base Pressure or by a special index with gearing to perform this calculation. The special index shall meet the specifications of ANSI Standard B109.1, § 6.2 (1986) or ANSI Standard B109.1, § 6.9 (1986). The ability of the regulator to maintain the constant pressure shall be verified at or prior to installation. Verification will be established by the use of a verified pressure-indicating gauge (accuracy: ANSI B40.1 Grade 3A), or a pressure-recording gauge, at both high and low flow conditions. When customer load is measured with a meter with a rated capacity of 1,500 cubic feet per hour or less, with metering pressure less than 3 psig, the performance of the regulator shall be verified in accordance with the test schedule of the downstream meter, established under § 59.21 (relating to meter tests). When customer load is measured with a meter with a capacity of over 1,500 cubic feet per hour or metering pressure of 3 psig or more, the performance of the regulator shall be verified at least every 5 years, except that those installed before January 1, 1990, shall be verified at least every 2 years.

(d) *Determination of static and differential pressure.* In computing the volume of gas at a given pressure base from an orifice meter chart, the average static pressure and the average differential pressure shall be determined for periods not exceeding 1 hour. If pressure variations are extreme during the hour, the average shall be determined for 15-minute intervals.

(e) *Mechanical devices.* Mechanical devices may be substituted for the method of computing orifice meter charts set forth in this section.

UGI Exhibit

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Engineering Derivation of 2psig Fixed Factor for Billing

Background: In applications where gas is delivered and metered at elevated pressure (2psig) using a standard gas meter, a factor is applied to adjust the metered volumes to standard volumes for the purposes of billing, per Section 7.3 of UGI's tariff and according to 052 Pa. Code § 59.15. Measurement of gas at higher than standard service pressure.

Methodology: According to Title 52, Chapter 59, Section 59.15 of the PA Code, "the quantity of gas corrected for pressure for billing purposes may be determined by multiplying the uncorrected volume by the factor of Metering Pressure Plus Atmospheric Pressure Divided by Base Pressure". UGI utilizes a factor of 1.121 to correct the volume for the increased pressure, derived from a pressure factor and a supercompressibility factor according to the calculation below:

$$\text{Corrected Volume} = \left(\frac{P_{\text{delivery}} + P_{\text{atm}}}{P_{\text{base}}} \right) * F_{PV}^2 * \text{Uncorrected Volume}$$

Where:

P_{delivery} = the delivery pressure (2psig)

P_{atm} = atmospheric pressure, assumed 14.5psi

P_{base} = base pressure, assumed 14.73psi

F_{PV}^2 = Supercompressibility Factor, factor defined by AGA No. 8, based on temperature, specific gravity, and gas composition; 1.0003 under these conditions

Uncorrected Volume = volume measured by the meter

$$\text{Corrected Volume} = \left(\frac{2 + 14.5}{14.73} \right) * 1.0003 * \text{Uncorrected Volume}$$

$$\text{Corrected Volume} = 1.1205 * \text{Uncorrected Volume}$$

Rounded to 3 decimals for billing system:

$$\text{Corrected Volume} = 1.121 * \text{Uncorrected Volume}$$

UGI Exhibit

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mam 4/5/2022