

**BEFORE THE
PUBLIC SERVICE COMMISSION
OF KENTUCKY**

COLUMBIA GAS OF KENTUCKY, INC.

CASE 2022 – 00237

**GAS COST ADJUSTMENT AND REVISED RATES OF
COLUMBIA GAS OF KENTUCKY, INC. PROPOSED TO BECOME
EFFECTIVE UNIT 1 SEPTEMBER 2022 BILLINGS (AUGUST 29, 2022)**

Columbia Gas of Kentucky, Inc.
Comparison of Current and Proposed GCAs

<u>Line</u> <u>No.</u>	<u>Jun 2022</u> <u>CURRENT</u>	<u>Sep 22</u> <u>PROPOSED</u>	<u>DIFFERENCE</u>
1 Commodity Cost of Gas	\$6.8648	\$5.6700	(\$1.1948)
2 Demand Cost of Gas	<u>\$1.7075</u>	<u>\$1.7087</u>	<u>\$0.0012</u>
3 Total: Expected Gas Cost (EGC)	\$8.5723	\$7.3787	(\$1.1936)
4 SAS Refund Adjustment	\$0.0000	\$0.0000	\$0.0000
5 Balancing Adjustment	\$0.0403	(\$0.0116)	(\$0.0519)
6 Supplier Refund Adjustment	(\$0.3491)	(\$0.3491)	\$0.0000
7 Actual Cost Adjustment	\$0.6342	\$2.4388	\$1.8046
8 Performance Based Rate Adjustment	<u>\$0.3314</u>	<u>\$0.3314</u>	<u>\$0.0000</u>
9 Cost of Gas to Tariff Customers (GCA)	\$9.2291	\$9.7882	\$0.5591
10 Banking and Balancing Service	\$0.0332	\$0.0331	(\$0.0001)
11 Rate Schedule FI and GSO			
12 Customer Demand Charge	\$9.1283	\$9.1333	\$0.0050

Columbia Gas of Kentucky, Inc.
Gas Cost Adjustment Clause
Gas Cost Recovery Rate
Sep 22 - Nov 22

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>	<u>Expires</u>
1	Expected Gas Cost (EGC) Schedule No. 1	\$7.3787	Unit 21 November (11-28-2022)
2	Total Actual Cost Adjustment (ACA) Schedule No. 2	\$2.4388	
	Case No. 2021-00403	\$0.5476	Unit 21 November (11-28-2022)
	Case No. 2022-00026	\$0.9017	Unit 21 February (02-28-2023)
	Case No. 2022-00127	(\$0.5415)	Unit 21 May (05-30-2023)
	Case No. 2022-00237	\$1.5310	Unit 21 August (08-28-2023)
3	Total Supplier Refund Adjustment (RA) Schedule No. 4	Case No. 2022-00127	(\$0.3491)
4	Balancing Adjustment (BA) Schedule No. 3	Case No. 2022-00237	(\$0.0116) Unit 21 November (11-28-2022)
5	Performance Based Rate Adjustment (PBRA) Schedule No. 6	Case No. 2022-00127	\$0.3314 Unit 21 May (05-30-2023)
6	Gas Cost Adjustment		
7	Sep 22 - Nov 22	<u>\$9.7882</u>	
8	Expected Demand Cost (EDC) per Mcf		
9	(Applicable to Rate Schedule IS/SS and GSO) Schedule No. 1, Sheet 4	<u>\$9.1333</u>	

DATE FILED: July 29, 2022

BY: J. M. Cooper

Columbia Gas of Kentucky, Inc.
Expected Gas Cost for Sales Customers
 Sep 22 - Nov 22

Schedule No. 1
 Sheet 1

Line No.	Description	Reference	Volume A/		Rate		Cost (5)
			Mcf (1)	Dth. (2)	Per Mcf (3)	Per Dth (4)	
Storage Supply							
Includes storage activity for sales customers only							
Commodity Charge							
1	Withdrawal			(1,281,205)		\$0.0153	\$19,602
2	Injection			1,620,623		\$0.0153	\$24,796
3	Withdrawals: gas cost includes pipeline fuel and commodity charges			1,281,205		\$5.2310	\$6,701,984
Total							
4	Volume	Line 3		1,281,205			
5	Cost	Line 1 + Line 2 + Line 3					\$6,746,382
6	Summary	Line 4 or Line 5		1,281,205			\$6,746,382
Flowing Supply							
Excludes volumes injected into or withdrawn from storage.							
Net of pipeline retention volumes and cost. Add unit retention cost on line 18							
7	Non-Appalachian	Sch.1, Sht. 5, Ln. 4		870,382			\$3,820,975
8	Appalachian Supplies	Sch.1, Sht. 6, Ln. 4		34,773			\$201,574
9	Less Fuel Retention By Interstate Pipelines	Sch. 1,Sheet 7, Lines 21, 22		(78,591)			(\$302,311)
10	Total	Line 7 + Line 8 + Line 9		826,563			\$3,720,238
Total Supply							
11	At City-Gate	Line 6 + Line 10		2,107,768			\$10,466,620
Lost and Unaccounted For							
12	Factor			-0.3%			
13	Volume	Line 11 * Line 12		(6,323)			
14	At Customer Meter	Line 11 + Line 13	1,908,670	2,101,445			
15	Less: Right-of-Way Contract Volume			437			
16	Sales Volume	Line 14-Line 15	1,908,233				
Unit Costs \$/MCF							
Commodity Cost							
17	Excluding Cost of Pipeline Retention	Line 11 / Line 16				\$5.4850	
18	Annualized Unit Cost of Retention	Sch. 1,Sheet 7, Line 24				<u>\$0.1608</u>	
19	Including Cost of Pipeline Retention	Line 17 + Line 18				\$5.6458	
20	Uncollectible Ratio	CN 2021-00183				<u>0.00428000</u>	
21	Gas Cost Uncollectible Charge	Line 19 * Line 20				<u>\$0.0242</u>	
22	Total Commodity Cost	Line 19 + Line 21				\$5.6700	
23	Demand Cost	Sch.1, Sht. 2, Line 10				<u>\$1.7087</u>	
24	Total Expected Gas Cost (EGC)	Line 22 + Line 23				\$7.3787	

A/ BTU Factor = 1.1010 Dth/MCF

Columbia Gas of Kentucky, Inc.
GCA Unit Demand Cost
Sep 22 - Nov 22

Schedule No. 1
Sheet 2

<u>Line No.</u>	<u>Description</u>	<u>Reference</u>	<u>Cost</u>
1	Expected Demand Cost: Annual Sep 22 - Nov 22	Sch. No.1, Sheet 3, Ln. 11	\$24,289,278
2	Less Rate Schedule IS/SS and GSO Customer Demand Charge Recovery	Sch. No.1, Sheet 4, Ln. 10	(\$118,340)
3	Less Storage Service Recovery from Delivery Service Customers		<u>(\$336,717)</u>
4	Net Demand Cost Applicable	Line 1 + Line 2 + Line 3	\$23,834,221
	Projected Annual Demand: Sales + Choice		
	At city-gate		
	In Dth		15,407,186 Dth
	Heat content		1.1010 Dth/MCF
5	In MCF		13,993,811 MCF
	Lost and Unaccounted - For		
6	Factor		0.3%
7	Volume	Line 5 x Line 6	41,981 MCF
8	Right of way Volumes		<u>3,002 MCF</u>
9	At Customer Meter	Line 5 - Line 7 - Line 8	<u>13,948,828 MCF</u>
10	Unit Demand Cost -- To Sheet 1, Line 23	Line 4 / Line 9	\$1.7087 per MCF

Columbia Gas of Kentucky, Inc.
Annual Demand Cost of Interstate Pipeline Capacity
 Sep 22 - Nov 22

Schedule No. 1
 Sheet 3

Line No.	Description	Dth	Monthly Rate \$/Dth	# Months	Expected Annual Demand Cost
Columbia Gas Transmission Corporation					
Firm Storage Service (FSS)					
1	FSS Seasonal Contract Quantity (SCQ)	10,703,880	\$0.0467	12	\$5,998,454
2	FSS Max Daily Storage Quantity (MDSQ)	209,880	\$2.5920	12	\$6,528,108
Storage Service Transportation (SST)					
3	Summer	104,940	\$4.1850	6	\$2,635,043
4	Winter	209,880	\$4.1850	6	\$5,270,087
5	Firm Transportation Service (FTS)	20,014	\$9.8530	12	\$2,366,375
6	Firm Transportation Service (FTS)	5,124	\$9.8530	12	\$605,841
7	Subtotal -- Sum of Lines 1 through 6				\$23,403,908
Tennessee Gas					
8	Firm Transportation	16,000	\$4.6113	12	\$885,370
9	Total -- Sum of Lines 7 through 11 -- To Sheet 2, line 1				\$24,289,278

Gas Cost Adjustment Clause

Expected Demand Costs Recovered Annually From Rate Schedule IS/SS and GSO Customers

Sep 22 - Nov 22

Line No.	Description	Capacity			Units	Annual Cost
		Daily	# Months	Annualized		
		Dth		Dth		
		(1)	(2)	(3)		(3)
				= (1) x (2)		
1	Expected Demand Costs (Per Sheet 3)					\$24,289,278
	City-Gate Capacity:					
	Columbia Gas Transmission					
2	Firm Storage Service - FSS	209,880	12	2,518,560		
3	Firm Transportation Service - FTS	25,138	12	301,656		
4	Total -- Sum of Lines 2 through 4			2,820,216	Dth	
5	Divided by Average BTU Factor			1.101	Dth/MCF	
6	Total Capacity - Annualized -- Line 5 / Line 6			2,561,504	Mcf	
7	Monthly Unit Expected Demand Cost (EDC) of Daily Capacity Applicable to Rate Schedules IS/SS and GSO -- Line 1 / Line 7			\$9.4824	/Mcf	
8	Firm Volumes of IS/SS and GSO Customers	1,040	12	12,480	Mcf	
9	Expected Demand Charges to be Recovered Annually from Rate Schedule IS/SS and GSO Customers -- Line 8 x Line 9				To Sheet 2, line 2	\$118,340
10	Twelve Month Adjustment to Expected Demand Cost to include Refund Adjustment from Schedule 4, Case No. 2022-00127			(\$0.3491)		
11	Rate Schedule IS/SS and GSO Customers Standby Service Demand Charge			\$9.1333		

Columbia Gas of Kentucky, Inc.
Non-Appalachian Supply: Volume and Cost
Sep 22 - Nov 22

Schedule No. 1
 Sheet 5

Cost includes transportation commodity cost and retention by the interstate pipelines but excludes pipeline demand costs.
 The volumes and costs shown are for sales customers only.

Line No.	Month	Total Flowing Supply Including Gas Injected Into Storage			Net Storage Injection	Net Flowing Supply for Current Consumption	
		Volume A/ Dth (1)	Cost (2)	Unit Cost \$/Dth (3) = (2) / (1)		Dth (4)	Volume Dth (5) = (1) + (4)
1	Sep 22	1,472,941	\$6,542,317		(1,193,138)	279,803	
2	Oct-22	1,018,063	\$4,378,348		(427,485)	590,578	
3	Nov-22	0	\$17,534		0	0	
4	Total -- Sum of Lines 1 through 3	2,491,004	\$10,938,199	\$4.39	(1,620,623)	870,382	\$3,820,975

A/ Gross, before retention.

Columbia Gas of Kentucky, Inc.
Appalachian Supply: Volume and Cost
Sep 22 - Nov 22

Schedule No. 1
Sheet 6

<u>Line</u> <u>No.</u>	<u>Month</u>	<u>Dth</u> (2)	<u>Cost</u> (3)
1	Sep 22	3,690	\$21,076
2	Oct-22	8,637	\$49,482
3	Nov-22	22,446	\$131,016
4	Total -- Sum of Lines 1 through 3	34,773	\$201,574

Columbia Gas of Kentucky, Inc.
Annualized Unit Charge for Gas Retained by Upstream Pipelines
Sep 22 - Nov 22

Schedule No. 1
 Sheet 7

Retention costs are incurred proportionally to the volumes purchased, but recovery of the costs is allocated to quarter by volume consumed.

Line No.	Description	Units	Annual				Sep 22 - Aug 23
			Sep 22 - Nov 22	Dec 22 - Feb 23	Mar 23 - May 23	Jun 23 - Aug 23	
Gas purchased by CKY for the remaining sales customers							
1	Volume	Dth	2,525,777	1,335,207	3,996,467	5,568,110	13,425,561
2	Commodity Cost Including Transportation		\$11,139,773	\$7,544,455	\$13,818,554	\$19,140,413	\$51,643,195
3	Unit cost	\$/Dth					\$3.8466
Consumption by the remaining sales customers							
4	At city gate	Dth	2,107,768	7,020,343	2,751,418	667,639	12,547,168
5	Lost and unaccounted for portion At customer meters		0.30%	0.30%	0.30%	0.30%	
6	In Dth = (100% - Line 5) x Line 4	Dth	2,101,445	6,999,282	2,743,164	665,636	12,509,527
7	Heat content	Dth/MCF	1.1010	1.1010	1.1010	1.1010	
8	In MCF = Line 6 / Line 7	MCF	1,908,669	6,357,204	2,491,520	604,574	11,361,967
9	Portion of annual -- Line 8 / Annual		16.8%	56.0%	21.9%	5.3%	100.0%
Gas retained by upstream pipelines							
10	Volume	Dth	78,591	155,874	116,565	123,860	474,890
Cost							
11	Quarterly -- Deduct from Sheet 1 -- Line 3 x Line 10		To Sheet 1, line 9 \$302,311	\$599,590	\$448,383	\$476,444	\$1,826,728
12	Allocated to quarters by consumption		\$306,890	\$1,022,968	\$400,053	\$96,817	\$1,826,728
13	Annualized unit charge -- Line 12 / Line 8	\$/MCF	To Sheet 1, line 18 \$0.1608	\$0.1609	\$0.1606	\$0.1601	\$0.1608

COLUMBIA GAS OF KENTUCKY, INC.

Schedule No. 1

Sheet 8

**DETERMINATION OF THE BANKING AND
BALANCING CHARGE
FOR THE PERIOD BEGINNING UNIT 1 SEPTEMBER 2022 (AUGUST 29, 2022)**

<u>Line No.</u>	<u>Description</u>	<u>Dth</u>	<u>Detail</u>	<u>Amount For Transportation Customers</u>
1	Total Storage Capacity -- From Sheet 3, Line 2	10,703,880		
2	Net Transportation Volume	11,184,681		
3	Contract Tolerance Level @ 5%	559,234		
4	Percent of Annual Storage Applicable to Transportation Customers		5.22%	
6	Seasonal Contract Quantity (SCQ)			
7	Rate		\$0.0467	
8	SCQ Charge - Annualized		<u>\$5,998,454</u>	
9	Amount Applicable To Transportation Customers			\$313,119
10	FSS Injection and Withdrawal Charge			
11	Rate		0.0306	
12	Total Cost		<u>\$327,539</u>	
13	Amount Applicable To Transportation Customers			\$17,098
14	SST Commodity Charge			
15	Rate		0.0126	
16	Projected Annual Storage Withdrawal, Dth		9,882,970	
17	Total Cost		<u>\$124,525</u>	
18	Amount Applicable To Transportation Customers			<u>\$6,500</u>
19	Total Cost Applicable To Transportation Customers			<u>\$336,717</u>
20	Total Transportation Volume - Mcf			17,123,157
21	Flex and Special Contract Transportation Volume - Mcf			(6,964,500)
22	Net Transportation Volume - Mcf -- Line 20 + Line 21			10,158,657
23	Banking and Balancing Rate - Mcf -- Line 19 / Line 22 - To Line 11 of the GCA Comparison			<u>\$0.0331</u>

**DETAIL SUPPORTING
DEMAND/COMMODITY SPLIT**

COLUMBIA GAS OF KENTUCKY

CASE NO. 2022-00237 Effective Unit 1 September 2022 Billing Cycle (August 29, 2022)

CALCULATION OF DEMAND/COMMODITY SPLIT OF GAS COST ADJUSTMENT FOR TARIFFS

	\$/MCF
Demand Component of Gas Cost Adjustment	
Demand Cost of Gas (Schedule No. 1, Sheet 1, Line 23)	\$1.7087
Demand ACA (Schedule No. 2, Sheet 1, Case No. 2021-00403, Case No. 2022-00026, Case No. 2022-00127, & Case No. 2022-00237)	\$0.0463
Refund Adjustment (Schedule No. 4, Case No. 2022-00127)	<u>(\$0.3491)</u>
Total Demand Rate per Mcf	\$1.4059
Commodity Component of Gas Cost Adjustment	
Commodity Cost of Gas (Schedule No. 1, Sheet 1, Line 22)	\$5.6700
Demand ACA (Schedule No. 2, Sheet 1, Case No. 2021-00403, Case No. 2022-00026, Case No. 2022-00127, & Case No. 2022-00237)	\$2.3925
Balancing Adjustment	(\$0.0116)
Performance Based Rate Adjustment (Schedule No. 6, Case No. 2022-00127)	<u>\$0.3314</u>
Total Commodity Rate per Mcf	\$8.3823
CHECK:	\$1.4059
COST OF GAS TO TARIFF CUSTOMERS (GCA)	<u>\$8.3823</u> \$9.7882

Calculation of Rate Schedule SVGTS - Actual Gas Cost Adjustment

Demand ACA (Schedule No. 2, Sheet 1, Case No. 2021-00403, Case No. 2022-00026, Case No. 2022-00127, & Case No. 2022-00237)	\$2.3925
Balancing Adjustment	(\$0.0116)
Refund Adjustment (Schedule No. 4, Case No. 2022-00127)	(\$0.3491)
Performance Based Rate Adjustment (Schedule No. 6, Case No. 2022-00127)	<u>\$0.3314</u>
Total Commodity Rate per Mcf	<u><u>\$2.3632</u></u>

ACTUAL COST ADJUSTMENT
SCHEDULE NO. 2

COLUMBIA GAS OF KENTUCKY, INC.STATEMENT SHOWING COMPUTATION OF
ACTUAL GAS COST ADJUSTMENT (ACA)
BASED ON THE THREE MONTHS ENDED MAY 31, 2022

Line No.	Month	Total Sales Volumes Per Books Mcf (1)	Standby Service Sales Volumes Mcf (2)	Net Applicable Sales Volumes Mcf (3)=(1)-(2)	Average Expected Gas Cost Rate \$/Mcf (4) = (5/3)	Gas Cost Recovery \$ (5)	Standby Service Recovery \$ (6)	Gas Left On Recovery (7)	Total Gas Cost Recovery \$ (8)=(5)+(6)-(7)	Cost of Gas Purchased \$ (9)	(OVER)/ UNDER RECOVERY \$ (10)=(9)-(8)
1	March 2022	1,511,402	526	1,510,876	\$5.4244	\$8,195,532	\$12,288	(\$2,967)	\$8,210,787	\$7,455,780	(\$755,007)
2	April 2022	1,156,490	0	1,156,490	\$5.4283	\$6,277,811	\$9,612	(\$3,449)	\$6,290,872	\$15,830,505	\$9,539,633
3	May 2022	516,526	210	516,316	\$5.4303	\$2,803,745	\$10,402	(\$1,610)	\$2,815,757	\$11,577,196	\$8,761,439
4	TOTAL	3,184,418	736	3,183,682		\$17,277,088	\$32,303	(\$8,025)	\$17,317,416	\$34,863,481	\$17,546,064
5	Off-System Sales										(\$239,761)
6	Capacity Release										\$0
7	TOTAL (OVER)/UNDER-RECOVERY										<u>\$17,306,303.26</u>
8	Demand Revenues Received										\$5,334,539
9	Demand Cost of Gas										<u>\$3,935,855</u>
10	Demand (Over)/Under Recovery										<u>(\$1,398,684)</u>
11	Expected Sales Volumes for the Twelve Months End August 31, 2023										<u>11,358,814</u>
12	DEMAND ACA TO EXPIRE UNIT 21 AUGUST (AUGUST 28, 2023)										(\$0.1231)
13	Commodity Revenues Received										\$11,982,877
14	Commodity Cost of Gas										<u>\$30,687,864</u>
15	Commodity (Over)/Under Recovery										\$18,704,987
16	Gas Cost Uncollectible ACA										<u>\$83,989</u>
17	Total Commodity (Over)/Under Recovery										<u>\$18,788,976</u>
18	Expected Sales Volumes for the Twelve Months End August 31, 2023										<u>11,358,814</u>
19	COMMODITY ACA TO EXPIRE UNIT 21 AUGUST (AUGUST 28, 2023)										\$1.6541
20	TOTAL ACA TO EXPIRE UNIT 21 AUGUST (AUGUST 28, 2023)										<u>\$1.5310</u>

**STATEMENT SHOWING ACTUAL COST
 RECOVERY FROM CUSTOMERS TAKING STANDBY
 SERVICE UNDER RATE SCHEDULE IS AND GSO
 BASED ON THE THREE MONTHS ENDED MAY 31, 2022**

LINE NO.	<u>MONTH</u>	SS Commodity <u>Volumes</u> (1) Mcf	Average SS Recovery <u>Rate</u> (2) \$/Mcf	SS Commodity <u>Recovery</u> (3) \$
1	March 2022	526	\$5.0881	\$2,676
2	April 2022	0	\$0.0000	\$0
3	May 2022	210	\$3.7636	\$790
4	Total SS Commodity Recovery			<u>\$3,467</u>

LINE NO.	<u>MONTH</u>	SS Demand <u>Volumes</u> (1) Mcf	Average SS Demand <u>Rate</u> (2) \$/Mcf	SS Demand <u>Recovery</u> (3) \$
5	March 2022	1,040	\$9.2423	\$9,612
6	April 2022	1,040	\$9.2423	\$9,612
7	May 2022	1,040	\$9.2423	\$9,612
8	Total SS Demand Recovery			<u>\$28,836</u>
9	TOTAL SS AND GSO RECOVERY			<u><u>\$32,303</u></u>

Columbia Gas of Kentucky, Inc.
Gas Cost Uncollectible Charge - Actual Cost Adjustment
BASED ON THE THREE MONTHS ENDED MAY 31, 2022

Schedule No. 2
Sheet 3 of 3

Line No.	<u>Class</u>	<u>Mar-22</u>	<u>Apr-22</u>	<u>May-22</u>	<u>Total</u>
1	Actual Cost	\$ 23,786	\$ 58,695	\$ 52,611	\$ 135,092
2	Actual Recovery	<u>\$ 23,945</u>	<u>\$ 18,857</u>	<u>\$ 8,301</u>	<u>\$ 51,103</u>
3	(Over)/Under Activity	\$ (158)	\$ 39,838	\$ 44,309	\$ 83,989

BALANCING ADJUSTMENT

SCHEDULE NO. 3

COLUMBIA GAS OF KENTUCKY, INC.

**CALCULATION OF BALANCING ADJUSTMENT
TO BE EFFECTIVE UNIT 1 SEPTEMBER THROUGH UNIT 21 NOVEMBER
(AUGUST 29, 2022 - NOVEMBER 28, 2022)**

<u>Line No.</u>	<u>Description</u>	<u>Detail</u>	<u>Amount</u>
		\$	\$
1	<u>RECONCILIATION OF PREVIOUS PERFORMANCE BASED RATE ADJUSTMENT</u>		
2	Total adjustment to have been collected from		
3	customers in Case No. 2021-00184	\$1,749,099	
4	Less: actual amount distributed	<u>\$1,721,372</u>	
5	REMAINING AMOUNT		\$27,726
6	<u>RECONCILIATION OF A PREVIOUS BALANCING ADJUSTMENT</u>		
7	Total adjustment to have been collected from		
8	customers in Case No. 2022-00026	\$721	
9	Less: actual amount collected	<u>\$946</u>	
10	REMAINING AMOUNT		(\$225)
11	<u>RECONCILIATION OF PREVIOUS ACTUAL COST ADJUSTMENT</u>		
12	Total adjustment to have been distributed to		
13	customers in Case No. 2021-000184	(\$1,768,327)	
14	Less: actual amount distributed	<u>(\$1,718,651)</u>	
15	REMAINING AMOUNT		<u>(\$49,676)</u>
16	TOTAL BALANCING ADJUSTMENT AMOUNT		<u><u>(\$22,175)</u></u>
17	Divided by: projected sales volumes for the three months		
18	ended November 30, 2022		1,908,442
19			
20	BALANCING ADJUSTMENT (BA)		<u><u>\$ (0.0116)</u></u>

Columbia Gas of Kentucky, Inc.
PBR Incentive Adjustment
Supporting Data

Case No. 2021-00184

Expires May 31, 2022

	<u>Volume</u>	<u>Surcharge Rate</u>	<u>Surcharge Amount</u>	<u>Surcharge Balance</u>
				\$ 1,749,098.54
June 2021	298,812	\$0.1555	\$46,465	\$1,702,633
July 2021	216,994	\$0.1555	\$33,743	\$1,668,891
August 2021	201,719	\$0.1555	\$31,367	\$1,637,523
September 2021	208,289	\$0.1555	\$32,389	\$1,605,134
October 2021	249,616	\$0.1555	\$38,815	\$1,566,319
November 2021	691,474	\$0.1555	\$107,524	\$1,458,795
December 2021	1,563,568	\$0.1555	\$243,135	\$1,215,660
January 2022	1,895,123	\$0.1555	\$294,692	\$920,968
February 2022	2,600,918	\$0.1555	\$404,443	\$516,526
March 2022	1,505,655	\$0.1555	\$234,129	\$282,396
April 2022	1,131,489	\$0.1555	\$175,947	\$106,450
May 2022	504,504	\$0.1555	\$78,450	\$27,999
June 2022	1,755	\$0.1555	<u>\$273</u>	\$27,726
			\$1,721,372	

SUMMARY:

SURCHARGE AMOUNT \$1,749,099

AMOUNT COLLECTED \$1,721,372TOTAL REMAINING TO BE
COLLECTED\$27,726.33

Columbia Gas of Kentucky, Inc.
Balancing Adjustment
Supporting Data

Case No. 2022-00026

Expires: May 31, 2022

	<u>Volume</u>	<u>Surcharge Rate</u>	<u>Surcharge Amount</u>	<u>Surcharge Balance</u>
Beginning Balance				\$721
March 2022	1,515,254	\$0.0003	\$455	\$266
April 2022	1,131,489	\$0.0003	\$339	(\$73)
May 2022	504,504	\$0.0003	\$151	(\$225)
June 2022	1,755	\$0.0003	\$1	(\$225)

TOTAL SURCHARGE COLLECTED

SUMMARY:

SURCHARGE AMOUNT	\$721
AMOUNT COLLECTED	<u>\$946</u>
REMAINING BALANCE	<u><u>(\$225)</u></u>

Columbia Gas of Kentucky, Inc.
Actual Cost Adjustment YR2021 QTR1
Supporting Data

Case No. 2021-00184

Expires: June 30, 2022

	Tariff		Choice			Refund Balance	
	Volume	Refund Rate	Refund Amount	Volume	Refund Rate		Refund Amount
						(\$1,768,327)	
Jun-21	296,608	(\$0.1571)	(\$46,597)	2,204	\$0.3389	\$747	(\$1,722,477)
Jul-21	212,696	(\$0.1571)	(\$33,415)	4,298	\$0.3389	\$1,457	(\$1,690,519)
Aug-21	199,442	(\$0.1571)	(\$31,332)	2,277	\$0.3389	\$772	(\$1,659,958)
Sep-21	205,719	(\$0.1571)	(\$32,318)	2,570	\$0.3389	\$871	(\$1,628,511)
Oct-21	247,470	(\$0.1571)	(\$38,878)	2,146	\$0.3389	\$727	(\$1,590,361)
Nov-21	688,941	(\$0.1571)	(\$108,233)	2,533	\$0.3389	\$859	(\$1,482,987)
Dec-21	1,558,833	(\$0.1571)	(\$244,893)	4,735	\$0.3389	\$1,605	(\$1,239,699)
Jan-22	1,890,710	(\$0.1571)	(\$297,031)	4,413	\$0.3389	\$1,495	(\$944,163)
Feb-22	2,594,836	(\$0.1571)	(\$407,649)	6,081	\$0.3389	\$2,061	(\$538,576)
Mar-22	1,501,358	(\$0.1571)	(\$235,863)	4,297	\$0.3389	\$1,456	(\$304,169)
Apr-22	1,128,387	(\$0.1571)	(\$177,270)	3,102	\$0.3389	\$1,051	(\$127,950)
May-22	501,990	(\$0.1571)	(\$78,863)	2,515	\$0.3389	\$852	(\$49,940)
Jun-22	1,731	(\$0.1571)	(\$272)	24	\$0.3389	\$8	(\$49,676)

SUMMARY:

REFUND AMOUNT	(1,768,327)
LESS	
AMOUNT REFUNDED	<u>(1,718,651)</u>

TOTAL REMAINING REFUND (49,676)

PIPELINE COMPANY TARIFF SHEETS

Currently Effective Rates
 Applicable to Rate Schedule FTS
 Rate Per Dth

		Base Tariff Rate 1/ 2/	TCRA Rates	EPCA Rates	OTRA Rates	CCRM-T Rates	Total Effective Rate 2/ 4/	Daily Rate 2/ 4/
Rate Schedule FTS								
Reservation Charge 3/ Commodity	\$	9.046	0.401	0.061	0.209	0.136	9.853	0.3240
Maximum	¢	0.62	0.12	0.40	0.00	0.00	1.14	1.14
Minimum	¢	0.62	0.12	0.40	0.00	0.00	1.14	1.14
Overrun								
Maximum	¢	30.36	1.44	0.60	0.69	0.45	33.54	33.54
Minimum	¢	0.62	0.12	0.40	0.00	0.00	1.14	1.14

- 1/ Excludes Account 858 expenses and Electric Power Costs which are recovered through Columbia's Transportation Costs Rate Adjustment (TCRA) and Electric Power Costs Adjustment (EPCA), respectively.
- 2/ Excludes the Annual Charge Adjustment (ACA) Surcharge. An ACA Commodity surcharge per Dth shall be assessed where applicable pursuant to Section 154.402 of the Commission's Regulations and in accordance with Section 34 of the GTC of Transporter's FERC Gas Tariff. The ACA unit charge authorized for each fiscal year (commencing October 1) by the Commission and posted on its website (<http://www.ferc.gov>) is incorporated herein by reference.
- 3/ Minimum reservation charge is \$0.00.
- 4/ Transportation quantities received from TCO Pool that are delivered to any point on Transporter's system shall be assessed the applicable commodity charges, commodity surcharges, and Retainage, as provided for in this Tariff. Transportation quantities received from any point that are delivered to TCO Pool shall not be assessed commodity charges, commodity surcharges, or Retainage. Service agreements with TCO Pool as a firm primary receipt point or firm primary delivery point will be assessed applicable reservation charges and reservation surcharges.

Issued On: March 31, 2022

Effective On: May 1, 2022

Currently Effective Rates
 Applicable to Rate Schedule SST
 Rate Per Dth

		Base Tariff Rate 1/2/	TCRA Rates	EPCA Rates	OTRA Rates	CCRM-T Rates	Total Effective Rate 2/ 4/	Daily Rate 2/4/
Rate Schedule SST								
Reservation Charge 3/ Commodity	\$	8.927	0.401	0.061	0.209	0.136	9.734	0.3201
Maximum	¢	0.62	0.12	0.40	0.00	0.00	1.14	1.14
Minimum	¢	0.62	0.12	0.40	0.00	0.00	1.14	1.14
Overrun 4/								
Maximum	¢	29.97	1.44	0.60	0.69	0.45	33.15	33.15
Minimum	¢	0.62	0.12	0.40	0.00	0.00	1.14	1.14

- 1/ Excludes Account 858 expenses and Electric Power Costs which are recovered through Columbia's Transportation Costs Rate Adjustment (TCRA) and Electric Power Costs Adjustment (EPCA), respectively.
- 2/ Excludes the Annual Charge Adjustment (ACA) Surcharge. An ACA Commodity surcharge per Dth shall be assessed where applicable pursuant to Section 154.402 of the Commission's Regulations and in accordance with Section 34 of the GTC of Transporter's FERC Gas Tariff. The ACA unit charge authorized for each fiscal year (commencing October 1) by the Commission and posted on its website (<http://www.ferc.gov>) is incorporated herein by reference.
- 3/ Minimum reservation charge is \$0.00.
- 4/ Transportation quantities received from TCO Pool that are delivered to any point on Transporter's system shall be assessed the applicable commodity charges, commodity surcharges, and Retainage, as provided for in this Tariff. Transportation quantities received from any point that are delivered to TCO Pool shall not be assessed commodity charges, commodity surcharges, or Retainage. Service agreements with TCO Pool as a firm primary receipt point or firm primary delivery point will be assessed applicable reservation charges and reservation surcharges.

Issued On: March 31, 2022

Effective On: May 1, 2022

Columbia Gas Transmission, LLC
 FERC Tariff
 Fourth Revised Volume No. 1

V.9.
 Currently Effective Rates
 FSS Rates
 Version 8.0.0

Currently Effective Rates
 Applicable to Rate Schedule FSS
 Rate Per Dth

		Base Tariff Rate 1/2/	Transportation Cost Rate Adjustment		Electric Power Costs Adjustment		CCRM-S Rate 3/	Total Effective Rate	Daily Rate
			Current	Surcharge	Current	Surcharge			
Rate Schedule FSS									
Reservation Charge	\$	2.481	-	-	-	-	0.111	2.592	0.0852
Capacity	¢	4.47	-	-	-	-	0.20	4.67	4.67
Injection	¢	1.53	-	-	-	-	0.00	1.53	1.53
Withdrawal	¢	1.53	-	-	-	-	0.00	1.53	1.53
Overrun	¢	15.69	-	-	-	-	0.56	16.25	16.25

- 1/ Excludes Account 858 expenses and Electric Power Costs which are recovered through Columbia's Transportation Costs Rate Adjustment (TCRA) and Electric Power Costs Adjustment (EPCA), respectively.
- 2/ Excludes the Annual Charge Adjustment (ACA) Surcharge. An ACA Commodity surcharge per Dth shall be assessed where applicable pursuant to Section 154.402 of the Commission's Regulations and in accordance with Section 34 of the GTC of Transporter's FERC Gas Tariff. The ACA unit charge authorized for each fiscal year (commencing October 1) by the Commission and posted on its website (<http://www.ferc.gov>) is incorporated herein by reference.
- 3/ The CCRM-S rates shown above for Service under Rate Schedule FSS shall be applicable to Service under Rate Schedule FSS-M.

Issued On: March 8, 2022

Effective On: April 1, 2022

RETAINAGE PERCENTAGES

Transportation Retainage	1.831%
Transportation Retainage – FT-C 1/	0.423%
Gathering Retainage	0.423%
Storage Gas Loss Retainage	0.436%
Ohio Storage Gas Loss Retainage	0.450%
Columbia Processing Retainage 2/	0.000%

1/ Retainage percentage applicable to service under Rate Schedule FT-C (Firm Transportation Service – Commonwealth).

2/ The Columbia Processing Retainage shall be assessed separately from the processing retainage applicable to third party processing plants set forth in Section 25.3 (f) of the General Terms and Conditions.

RATES PER DEKATHERM

FIRM TRANSPORTATION RATES
 RATE SCHEDULE FOR FT-A

Base Reservation Rates	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$4.7485		\$9.92300	\$13.3478	\$13.5840	\$14.9261	\$15.8434	\$19.8779
	L		\$4.2156						
	1	\$7.1485		\$6.8524	\$9.1192	\$12.9182	\$12.7224	\$14.3480	\$17.6429
	2	\$13.3479		\$9.0644	\$4.7144	\$4.4071	\$5.6390	\$7.7558	\$10.0118
	3	\$13.5840		\$7.1799	\$4.7525	\$3.4286	\$5.2666	\$9.5251	\$11.0065
	4	\$17.2471		\$15.9003	\$6.0594	\$9.2085	\$4.5075	\$4.8747	\$6.9640
	5	\$20.5647		\$14.4505	\$6.3563	\$7.6911	\$5.0074	\$4.6970	\$6.1147
	6	\$23.7895		\$16.5974	\$11.4230	\$12.5841	\$8.8889	\$4.6763	\$4.0480

Daily Base Reservation Rate 1/	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0								
	L	\$0.1561		\$0.3262	\$0.4388	\$0.4466	\$0.4907	\$0.5209	\$0.6535
	1	\$0.2350	\$0.1386	\$0.2253	\$0.2998	\$0.4247	\$0.4183	\$0.4717	\$0.5800
	2	\$0.4388		\$0.2980	\$0.1550	\$0.1449	\$0.1854	\$0.2550	\$0.3292
	3	\$0.4466		\$0.2361	\$0.1562	\$0.1127	\$0.1731	\$0.3132	\$0.3619
	4	\$0.5670		\$0.5227	\$0.1992	\$0.3027	\$0.1482	\$0.1603	\$0.2290
	5	\$0.6761		\$0.4751	\$0.2090	\$0.2529	\$0.1646	\$0.1544	\$0.2010
	6	\$0.7821		\$0.5457	\$0.3756	\$0.4137	\$0.2922	\$0.1537	\$0.1331

Maximum Reservation Rates 2 /, 3 /	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$4.7973		\$9.9718	\$13.3966	\$13.6328	\$14.9749	\$15.8922	\$19.9267
	L		\$4.2644						
	1	\$7.1973		\$6.9012	\$9.1680	\$12.9670	\$12.7712	\$14.3968	\$17.6917
	2	\$13.3967		\$9.1132	\$4.7632	\$4.4559	\$5.6878	\$7.8046	\$10.0606
	3	\$13.6328		\$7.2287	\$4.8013	\$3.4774	\$5.3154	\$9.5739	\$11.0553
	4	\$17.2959		\$15.9491	\$6.1082	\$9.2573	\$4.5563	\$4.9235	\$7.0128
	5	\$20.6135		\$14.4993	\$6.4051	\$7.7399	\$5.0562	\$4.7458	\$6.1635
	6	\$23.8383		\$16.6462	\$11.4718	\$12.6329	\$8.9377	\$4.7251	\$4.0968

Notes:

- 1/ Applicable to demand charge credits and secondary points under discounted rate agreements.
- 2/ Includes a per Dth charge for the PCB Surcharge Adjustment per Article XXXII of the General Terms and Conditions of \$0.0000.
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of \$0.0488.

RATES PER DEKATHERM

COMMODITY RATES
 RATE SCHEDULE FOR FT-A

Base
 Commodity Rates

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.2286	\$0.2182	\$0.2597
L		\$0.0012						
1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.1944	\$0.1983	\$0.2264
2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0629	\$0.1009	\$0.1118
3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0841	\$0.1164	\$0.1271
4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0389	\$0.0550	\$0.0892
5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0548	\$0.0543	\$0.0674
6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0843	\$0.0457	\$0.0277

Minimum
 Commodity Rates 1/, 2/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.0250	\$0.0284	\$0.0346
L		\$0.0012						
1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.0210	\$0.0256	\$0.0300
2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0056	\$0.0100	\$0.0143
3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0081	\$0.0118	\$0.0163
4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0028	\$0.0046	\$0.0092
5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0046	\$0.0046	\$0.0066
6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0086	\$0.0041	\$0.0020

Maximum
 Commodity Rates 1/, 2/, 3/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0051		\$0.0134	\$0.0196	\$0.0238	\$0.2305	\$0.2201	\$0.2616
L		\$0.0031						
1	\$0.0061		\$0.0100	\$0.0166	\$0.0198	\$0.1963	\$0.2002	\$0.2283
2	\$0.0186		\$0.0106	\$0.0031	\$0.0047	\$0.0648	\$0.1028	\$0.1137
3	\$0.0226		\$0.0188	\$0.0045	\$0.0021	\$0.0860	\$0.1183	\$0.1290
4	\$0.0269		\$0.0224	\$0.0106	\$0.0124	\$0.0408	\$0.0569	\$0.0911
5	\$0.0303		\$0.0275	\$0.0119	\$0.0137	\$0.0567	\$0.0562	\$0.0693
6	\$0.0365		\$0.0319	\$0.0162	\$0.0182	\$0.0862	\$0.0476	\$0.0296

Notes:

- 1/ Rates stated above exclude the ACA Surcharge as revised annually and posted on the FERC website at <http://www.ferc.gov> on the Annual Charges page of the Natural Gas section. The ACA Surcharge is incorporated by reference into Transporter's Tariff and shall apply to all transportation under this Rate Schedule as provided in Article XXIV of the General Terms and Conditions.
- 2/ The applicable F&LR's and EPCR's, determined pursuant to Article XXXVII of the General Terms and Conditions, are listed on Sheet No. 32.
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of \$0.0019.

FUEL AND EPCR

F&LR 1/, 2/, 3/, 4/ -----	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	0.61%		1.85%	2.81%	3.45%	4.14%	4.68%	5.31%
	L		0.32%						
	1	0.77%		1.35%	2.31%	2.85%	3.39%	4.08%	4.64%
	2	2.74%		1.44%	0.31%	0.56%	1.02%	1.74%	2.32%
	3	3.35%		2.78%	0.56%	0.17%	1.41%	2.00%	2.66%
	4	3.99%		3.15%	1.43%	1.70%	0.58%	0.88%	1.49%
	5	4.68%		4.08%	1.74%	2.03%	0.87%	0.86%	1.09%
	6	5.58%		4.85%	2.32%	2.66%	1.40%	0.69%	0.36%

Broad Run Expansion Project – Market Component (Z3-Z1): 5/ 6.21%

EPCR 3/, 4/ -----	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$0.0034		\$0.0132	\$0.0204	\$0.0254	\$0.0307	\$0.0349	\$0.0419
	L		\$0.0011						
	1	\$0.0046		\$0.0093	\$0.0169	\$0.0207	\$0.0257	\$0.0315	\$0.0362
	2	\$0.0204		\$0.0099	\$0.0011	\$0.0030	\$0.0067	\$0.0122	\$0.0167
	3	\$0.0254		\$0.0207	\$0.0030	\$0.0000	\$0.0097	\$0.0144	\$0.0192
	4	\$0.0307		\$0.0238	\$0.0099	\$0.0120	\$0.0032	\$0.0055	\$0.0104
	5	\$0.0349		\$0.0315	\$0.0122	\$0.0144	\$0.0055	\$0.0054	\$0.0072
	6	\$0.0419		\$0.0362	\$0.0167	\$0.0192	\$0.0097	\$0.0041	\$0.0015

Broad Run Expansion Project – Market Component (Z3-Z1): 5/ \$0.0515

- 1/ Included in the above F&LR is the Losses component of the F&LR equal to 0.13%.
- 2/ For service that is rendered entirely by displacement and for gas scheduled and allocated for receipt at the Dracut, Massachusetts receipt point, Shipper shall render only the quantity of gas associated with Losses of 0.13%.
- 3/ The F&LR's and EPCR's listed above are applicable to FT-A, FT-BH, FT-G, FT-GS, and IT.
- 4/ The F&LR's and EPCR's determined pursuant to Article XXXVII of the General Terms and Conditions.
- 5/ The incremental F&LR and EPCR set forth above are applicable to a Shipper(s) utilizing capacity on the Broad Run Expansion Project – Market Component facilities, from any receipt point(s) to any delivery point(s) located on the project's transportation path. Any service provided to a Shipper(s) outside the project's transportation path shall be subject to the greater of the incremental F&LR and EPCR for the project or the applicable F&LR and EPCR for the applicable receipt(s) and delivery point(s) as shown in the rate matrices above. Included in the above F&LR is the Losses component of the F&LR equal to 0.13%.

Annual F&LR and EPCR Adjustments - effective 04/01/2022

FIRM TRANSPORTATION: FT-A & FT-G 1

Receipt From	Delivery To							
	Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
Zone 0								
Res	\$4.7485		\$9.9230	\$13.3478	\$13.5840	\$14.9261	\$15.8434	\$19.8779
Usg-Max	0.0032		0.0115	0.0177	0.0219	0.2286	0.2182	0.2597
Usg-Min	0.0032		0.0115	0.0177	0.0219	0.0250	0.0284	0.0346
Overrun	0.1588		0.3358	0.4535	0.4648	0.7193	0.7390	0.9132
Zone L								
Res		\$4.2156						
Usg-Max		0.0012						
Usg-Min		0.0012						
Overrun		0.1397						
Zone 1								
Res	\$7.1485		\$6.8524	\$9.1192	\$12.9182	\$12.7224	\$14.3480	\$17.6429
Usg-Max	0.0042		0.0081	0.0147	0.0179	0.1944	0.1983	0.2264
Usg-Min	0.0042		0.0081	0.0147	0.0179	0.0210	0.0256	0.0300
Overrun	0.2385		0.2320	0.3120	0.4396	0.6127	0.6700	0.8063
Zone 2								
Res	\$13.3479		\$9.0644	\$4.7144	\$4.4071	\$5.6390	\$7.7558	\$10.0118
Usg-Max	0.0167		0.0087	0.0012	0.0028	0.0629	0.1009	0.1118
Usg-Min	0.0167		0.0087	0.0012	0.0028	0.0056	0.0100	0.0143
Overrun	0.4527		0.3052	0.156	0.1472	0.2483	0.356	0.441
Zone 3								
Res	\$13.5840		\$7.1799	\$4.7525	\$3.4286	\$5.2666	\$9.5251	\$11.0065
Usg-Max	0.0207		0.0169	0.0026	0.0002	0.0841	0.1164	0.1271
Usg-Min	0.0207		0.0169	0.0026	0.0002	0.0081	0.0118	0.0163
Overrun	0.4638		0.2502	0.1585	0.1129	0.2573	0.4296	0.4889
Zone 4								
Res	\$17.2471		\$15.9003	\$6.0594	\$9.2085	\$4.5075	\$4.8747	\$6.9640
Usg-Max	0.0250		0.0205	0.0087	0.0105	0.0389	0.0550	0.0892
Usg-Min	0.0250		0.0205	0.0087	0.0105	0.0028	0.0046	0.0092
Overrun	0.5877		0.5398	0.2064	0.3115	0.1871	0.2153	0.3182
Zone 5								
Res	\$20.5647		\$14.4505	\$6.3563	\$7.6911	\$5.0074	\$4.6970	\$6.1147
Usg-Max	0.0284		0.0256	0.0100	0.0118	0.0548	0.0543	0.0674
Usg-Min	0.0284		0.0256	0.0100	0.0118	0.0046	0.0046	0.0066
Overrun	0.6997		0.4964	0.2172	0.2627	0.2195	0.2087	0.2685
Zone 6								
Res	\$23.7895		\$16.5974	\$11.4230	\$12.5841	\$8.8889	\$4.6763	\$4.0480
Usg-Max	0.0346		0.0300	0.0143	0.0163	0.0843	0.0457	0.0277
Usg-Min	0.0346		0.0300	0.0143	0.0163	0.0086	0.0041	0.0020
Overrun	0.8109		0.5706	0.3875	0.4273	0.3765	0.1993	0.1608

INTERRUPTIBLE TRANSPORTATION 1

Receipt From	Delivery To							
	Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
Zone 0								
Usg-Max	\$0.1588		\$0.3358	\$0.4535	\$0.4648	\$0.7193	\$0.7390	\$0.9132
Usg-Min	0.0032		0.0115	0.0177	0.0219	0.0250	0.0284	0.0346
Zone L								
Usg-Max		\$0.1397						
Usg-Min		0.0012						
Zone 1								
Usg-Max	\$0.2385		\$0.2320	\$0.3120	\$0.4396	\$0.6127	\$0.6700	\$0.8063
Usg-Min	0.0042		0.0081	0.0147	0.0179	0.0210	0.0256	0.0300
Zone 2								
Usg-Max	\$0.4527		\$0.3052	\$0.1560	\$0.1472	\$0.2483	\$0.3560	\$0.4410
Usg-Min	0.0167		0.0087	0.0012	0.0028	0.0056	0.0100	0.0143
Zone 3								
Usg-Max	\$0.4638		\$0.2502	\$0.1585	\$0.1129	\$0.2573	\$0.4296	\$0.4889
Usg-Min	0.0207		0.0169	0.0026	0.0002	0.0081	0.0118	0.0163
Zone 4								
Usg-Max	\$0.5877		\$0.5398	\$0.2064	\$0.3115	\$0.1871	\$0.2153	\$0.3182
Usg-Min	0.0250		0.0205	0.0087	0.0105	0.0028	0.0046	0.0092
Zone 5								
Usg-Max	\$0.6997		\$0.4964	\$0.2172	\$0.2627	\$0.2195	\$0.2087	\$0.2685
Usg-Min	0.0284		0.0256	0.0100	0.0118	0.0046	0.0046	0.0066
Zone 6								
Usg-Max	\$0.8109		\$0.5706	\$0.3875	\$0.4273	\$0.3765	\$0.1993	\$0.1608
Usg-Min	0.0346		0.0300	0.0143	0.0163	0.0086	0.0041	0.0020

FUEL & LOSS RETENTION PERCENTAGE (F&LR) 2

Receipt Zone	Delivery Zone							
	0	L	1	2	3	4	5	6
0	0.61%		1.85%	2.81%	3.45%	4.14%	4.68%	5.31%
L		0.32%						
1	0.77%		1.35%	2.31%	2.85%	3.39%	4.08%	4.64%
2	2.74%		1.44%	0.31%	0.56%	1.02%	1.74%	2.32%
3	3.35%		2.78%	0.56%	0.17%	1.41%	2.00%	2.66%
4	3.99%		3.15%	1.43%	1.70%	0.58%	0.88%	1.49%
5	4.68%		4.08%	1.74%	2.03%	0.87%	0.86%	1.09%
6	5.58%		4.85%	2.32%	2.66%	1.40%	0.69%	0.36%

ELECTRIC POWER COST RATES (EPCR)

Receipt Zone	Delivery Zone							
	0	L	1	2	3	4	5	6
0	\$0.0034		\$0.0132	\$0.0204	\$0.0254	\$0.0307	\$0.0349	\$0.0419
L		0.0011						
1	0.0046		0.0093	0.0169	0.0207	0.0257	0.0315	0.0362
2	0.0204		0.0099	0.0011	0.0030	0.0067	0.0122	0.0167
3	0.0254		0.0207	0.0030	0.0000	0.0097	0.0144	0.0192
4	0.0307		0.0238	0.0099	0.0120	0.0032	0.0055	0.0104
5	0.0349		0.0315	0.0122	0.0144	0.0055	0.0054	0.0072
6	0.0419		0.0362	0.0167	0.0192	0.0097	0.0041	0.0015

1\ Rates are exclusive of surcharges.

	FT-A	IT
ACA Commodity Surcharge	\$0.0012	\$0.0012
PS-GHG Reservation Surcharge	\$0.0488	
PS-GHG Commodity Surcharge	\$0.0019	\$0.0035

2\ Losses of 0.13% are included in the Transportation F&LR.

For service rendered solely through displacement and for gas scheduled and allocated for receipt at the Dracut, Massachusetts receipt point, Shipper shall render only the quantity of gas associated with Losses of 0.13%.

Annual F&LR and EPCR Adjustments - effective 04/01/2022

FIRM TRANSPORTATION: FT-GS 1)

Receipt From	Delivery To							
	Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
Zone 0								
Usg-Max	\$0.2629		\$0.5533	\$0.7461	\$0.7625	\$1.0466	\$1.0863	\$1.3489
Usg-Min	0.0032		0.0115	0.0177	0.0219	0.0250	0.0284	0.0346
Overrun	0.2629		0.5533	0.7461	0.7625	1.0466	1.0863	1.3489
Zone L								
Usg-Max		\$0.2320						
Usg-Min		0.0012						
Overrun		0.2320						
Zone 1								
Usg-Max	\$0.3952		\$0.3822	\$0.5119	\$0.7228	\$0.8915	\$0.9845	\$1.1931
Usg-Min	0.0042		0.0081	0.0147	0.0179	0.0210	0.0256	0.0300
Overrun	0.3952		0.3822	0.5119	0.7228	0.8915	0.9845	1.1931
Zone 2								
Usg-Max	\$0.7453		\$0.5039	\$0.2594	\$0.2439	\$0.3719	\$0.5260	\$0.6604
Usg-Min	0.0167		0.0087	0.0012	0.0028	0.0056	0.0100	0.0143
Overrun	0.7453		0.5039	0.2594	0.2439	0.3719	0.5260	0.6604
Zone 3								
Usg-Max	\$0.7615		\$0.4075	\$0.2626	\$0.1880	\$0.3728	\$0.6383	\$0.7301
Usg-Min	0.0207		0.0169	0.0026	0.0002	0.0081	0.0118	0.0163
Overrun	0.7615		0.4075	0.2626	0.1880	0.3728	0.6383	0.7301
Zone 4								
Usg-Max	\$0.9658		\$0.8883	\$0.3393	\$0.5133	\$0.2859	\$0.3221	\$0.4708
Usg-Min	0.0250		0.0205	0.0087	0.0105	0.0028	0.0046	0.0092
Overrun	0.9658		0.8883	0.3393	0.5133	0.2859	0.3221	0.4708
Zone 5								
Usg-Max	\$1.1505		\$0.8131	\$0.3567	\$0.4313	\$0.3292	\$0.3118	\$0.4024
Usg-Min	0.0284		0.0256	0.0100	0.0118	0.0046	0.0046	0.0066
Overrun	1.1505		0.8131	0.3567	0.4313	0.3292	0.3118	0.4024
Zone 6								
Usg-Max	\$1.3324		\$0.9343	\$0.6378	\$0.7031	\$0.5714	\$0.3018	\$0.2496
Usg-Min	0.0346		0.0300	0.0143	0.0163	0.0086	0.0041	0.0020
Overrun	1.3324		0.9343	0.6378	0.7031	0.5714	0.3018	0.2496

EXTENDED DELIVERY SERVICE / EXTENDED RECEIPT SERVICE 1)

Receipt From	Delivery To							
	Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
Zone 0								
Daily Res			\$0.3263	\$0.4388	\$0.4466	\$0.4907	\$0.5209	\$0.6535
Zone L								
Daily Res								
Zone 1								
Daily Res	\$0.2350			\$0.2999	\$0.4247	\$0.4183	\$0.4717	\$0.5800
Zone 2								
Daily Res	\$0.4388		\$0.2980		\$0.1449	\$0.1854	\$0.2551	\$0.3292
Zone 3								
Daily Res	\$0.4466		\$0.2361	\$0.1563		\$0.1732	\$0.3133	\$0.3618
Zone 4								
Daily Res	\$0.5670		\$0.5228	\$0.1992	\$0.3028		\$0.1603	\$0.2289
Zone 5								
Daily Res	\$0.6760		\$0.4751	\$0.2089	\$0.2529	\$0.1647		\$0.2011
Zone 6								
Daily Res	\$0.7822		\$0.5457	\$0.3756	\$0.4137	\$0.2922	\$0.1537	

STORAGE SERVICE 2)

	Deliverability	Capacity	Inj./With.	Overrun	F&LR	EPCR
FS-PA	\$1.7426	\$0.0177	\$0.0073	\$0.2091	1.81%	\$0.0000
FS-MA	\$1.2801	0.0175	0.0087	0.1537	1.81%	0.0000
IS-PA		0.0873	0.0073		1.81%	0.0000
IS-MA		0.0704	0.0087		1.81%	0.0000

PARK AND LOAN SERVICE

PAL Daily Rate	\$0.3400
PAL Term Rate	\$0.3400

1) Rates are exclusive of surcharges.

	FT-GS
ACA Commodity Surcharge	\$0.0012
PS-GHG Commodity Surcharge	\$0.0046

2) Losses of 0.15% are included in the Storage F&LR.

PROPOSED TARIFF SHEETS

CURRENTLY EFFECTIVE BILLING RATES

<u>SALES SERVICE</u>	<u>Base Rate</u>	<u>Gas Cost Adjustment^{1/}</u>		<u>Total</u>	
	<u>Charge</u>	<u>Demand</u>	<u>Commodity</u>	<u>Billing</u>	
	\$	\$	\$	\$	
<u>RATE SCHEDULE GSR</u>					
Customer Charge per billing period	19.75			19.75	
Delivery Charge per Mcf	5.2528	1.4059	8.3823	15.0410	I
<u>RATE SCHEDULE GSO</u>					
<u>Commercial or Industrial</u>					
Customer Charge per billing period	83.71			83.71	
Delivery Charge per Mcf -					
First 50 Mcf or less per billing period	3.2513	1.4059	8.3823	13.0395	I
Next 350 Mcf per billing period	2.5096	1.4059	8.3823	12.2978	I
Next 600 Mcf per billing period	2.3855	1.4059	8.3823	12.1737	I
Over 1,000 Mcf per billing period	2.1700	1.4059	8.3823	11.9582	I
<u>RATE SCHEDULE IS</u>					
Customer Charge per billing period	3982.30			3982.30	
Delivery Charge per Mcf					
First 30,000 Mcf per billing period	0.7093		8.3823 ^{2/}	9.0916	I
Next 70,000 Mcf per billing period	0.4378		8.3823 ^{2/}	8.8201	I
Over 100,000 Mcf per billing period	0.2423		8.3823 ^{2/}	8.6246	I
Firm Service Demand Charge					
Demand Charge times Daily Firm					
Volume (Mcf) in Customer Service Agreement		9.1333		9.1333	I
<u>RATE SCHEDULE IUS</u>					
Customer Charge per billing period	945.24			945.24	
Delivery Charge per Mcf					
For All Volumes Delivered	1.1959	1.4059	8.3823	10.9841	I

^{1/} The Gas Cost Adjustment, as shown, is an adjustment per Mcf determined in accordance with the "Gas Cost Adjustment Clause" as set forth on Sheets 48 through 51 of this Tariff. The Gas Cost Adjustment applicable to a customer who is receiving service under Rate Schedule GS or IUS and received service under Rate Schedule SVGTS shall be \$7.3787 per Mcf only for those months of the prior twelve months during which they were served under Rate Schedule SVGTS.

^{2/} IS Customers may be subject to the Demand Gas Cost, under the conditions set forth on Sheets 14 and 15 of this tariff.

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DATE OF ISSUE July 29, 2022
DATE EFFECTIVE August 29, 2022 (Unit 1 September)
ISSUED BY /s/ Kimra H. Cole
TITLE President & Chief Operating Officer

**CURRENTLY EFFECTIVE BILLING RATES
 (Continued)**

<u>TRANSPORTATION SERVICE</u>	<u>Base Rate Charge</u> \$	<u>Gas Cost Adjustment^{1/} Demand</u> \$	<u>Commodity</u> \$	<u>Total Billing Rate</u> \$	
<u>RATE SCHEDULE SS</u>					
Standby Service Demand Charge per Mcf					
Demand Charge times Daily Firm					
Volume (Mcf) in Customer Service Agreement		9.1333		9.1333	I
Standby Service Commodity Charge per Mcf			8.3823	8.3823	I
<u>RATE SCHEDULE DS</u>					
Customer Charge per billing period ^{2/}				3982.30	
Customer Charge per billing period (GDS only)				83.71	
Customer Charge per billing period (IUDS only)				945.24	
<u>Delivery Charge per Mcf^{2/}</u>					
First 30,000 Mcf	0.7093			0.7093	
Next 70,000 Mcf	0.4378			0.4378	
Over 100,000 Mcf	0.2423			0.2423	
– Grandfathered Delivery Service					
First 50 Mcf or less per billing period				3.2513	
Next 350 Mcf per billing period				2.5096	
Next 600 Mcf per billing period				2.3855	
All Over 1,000 Mcf per billing period				2.1700	
– Intrastate Utility Delivery Service					
All Volumes per billing period				1.1959	
Banking and Balancing Service					
Rate per Mcf		0.0331		0.0331	R
<u>RATE SCHEDULE MLDS</u>					
Customer Charge per billing period				260.11	
Delivery Charge per Mcf				0.0867	
Banking and Balancing Service					
Rate per Mcf		0.0331		0.0331	R

^{1/} The Gas Cost Adjustment, as shown, is an adjustment per Mcf determined in accordance with the "Gas Cost Adjustment Clause" as set forth on Sheets 48 through 51 of this Tariff.

^{2/} Applicable to all Rate Schedule DS customers except those served under Grandfathered Delivery Service or Intrastate Utility Delivery Service.

DATE OF ISSUE July 29, 2022

DATE EFFECTIVE August 29, 2022 (Unit 1 September)

ISSUED BY /s/ Kimra H. Cole

TITLE President & Chief Operating Officer

CURRENTLY EFFECTIVE BILLING RATES

(Continued)

<u>RATE SCHEDULE SVGTS</u>	<u>Base Rate Charge</u>	
	\$	
<u>General Service Residential (SGVTS GSR)</u>		
Customer Charge per billing period	19.75	
Delivery Charge per Mcf	5.2528	
<u>General Service Other - Commercial or Industrial (SVGTS GSO)</u>		
Customer Charge per billing period	83.71	
Delivery Charge per Mcf -		
First 50 Mcf or less per billing period	3.2513	
Next 350 Mcf per billing period	2.5096	
Next 600 Mcf per billing period	2.3855	
Over 1,000 Mcf per billing period	2.1700	
<u>Intrastate Utility Service</u>		
Customer Charge per billing period	945.24	
Delivery Charge per Mcf	\$ 0.9938	R
		<u>Billing Rate</u>
<u>Actual Gas Cost Adjustment ^{1/}</u>		
For all volumes per billing period per Mcf	\$2.3632	I
<u>RATE SCHEDULE SVAS</u>		
Balancing Charge – per Mcf	\$0.9938	R

1/ The Gas Cost Adjustment is applicable to a customer who is receiving service under Rate Schedule SVGTS and received service under Rate Schedule GS, IS, or IUS for only those months of the prior twelve months during which they were served under Rate Schedule GS, IS or IUS.

DATE OF ISSUE	July 29, 2022
DATE EFFECTIVE	August 29, 2022 (Unit 1 September)
ISSUED BY	/s/ Kimra H. Cole
TITLE	President & Chief Operating Officer