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PUBLIC SERVICE
COMMISSION

Columbia Gas of Kentucky
A NiSource Company
P.O. Box 14241
2001 Mercer Road
Lexingtion, KY 40512-4241

October 28, 2019

Ms. Gwen Pinson
Executive Director
Kentucky Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, KY 40602

Re: Columbia Gas of Kentucky, Inc.
Gas Cost Adjustment Case No. 2019 –00396

Dear Ms. Pinson:

Pursuant to the Commission's Order dated January 30, 2001 in Administrative Case No. 384, Columbia Gas of Kentucky, Inc. ("Columbia") hereby encloses, for filing with the Commission, an original and six (6) copies of data submitted pursuant to the requirements of the Gas Cost Adjustment Provision contained in Columbia's tariff for its December quarterly Gas Cost Adjustment ("GCA"). An electronic copy of the schedules in Excel is also provided.

Columbia proposes to increase its current rates to tariff sales customers by $0.5481 per Mcf effective with its December 2019 billing cycle on November 27, 2019. The increase is composed of an increase of $0.6206 per Mcf in the Average Commodity Cost of Gas, an increase of $0.0626 per Mcf in the Average Demand Cost of Gas, a decrease of ($0.0384) per Mcf in the Balancing Adjustment, and a decrease of ($0.0967) in the Actual Cost Adjustment. Pursuant to Case No. 2016-00060 Columbia has implemented a quarterly Actual Cost Adjustment and Balancing Adjustment effective with the June 2016 billing cycle. Please feel free to contact me at 859-288-0242 or jmcoop@nisource.com if there are any questions.

Sincerely,

Judy Cooper

Judy M. Cooper
Director, Government and Regulatory Policy

Enclosures

BEFORE THE
PUBLIC SERVICE COMMISSION
OF KENTUCKY

COLUMBIA GAS OF KENTUCKY, INC.

CASE 2019 – 00396

GAS COST ADJUSTMENT AND REVISED RATES OF
COLUMBIA GAS OF KENTUCKY, INC. PROPOSED TO BECOME
<u>EFFECTIVE DECEMBER 2019 BILLINGS</u>

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

Line No.		September 2019 CURRENT	December 2019 PROPOSED	DIFFERENCE
1	Commodity Cost of Gas	$2.3796	$3.0002	$0.6206
2	Demand Cost of Gas	$1.3175	$1.3801	$0.0626
3	Total: Expected Gas Cost (EGC)	$3.6971	$4.3803	$0.6832
4	SAS Refund Adjustment	$0.0000	$0.0000	$0.0000
5	Balancing Adjustment	$0.0755	$0.0371	($0.0384)
6	Supplier Refund Adjustment	$0.0000	$0.0000	$0.0000
7	Actual Cost Adjustment	($0.1820)	($0.2787)	($0.0967)
8	Performance Based Rate Adjustment	$0.3393	$0.3393	$0.0000
9	Cost of Gas to Tariff Customers (GCA)	$3.9299	$4.4780	$0.5481
10	Transportation TOP Refund Adjustment	$0.0000	$0.0000	$0.0000
11	Banking and Balancing Service	$0.0215	$0.0209	($0.0006)
12	Rate Schedule FI and GSO			
13	Customer Demand Charge	$6.2449	$6.5417	$0.2968

Columbia Gas of Kentucky, Inc.
Gas Cost Adjustment Clause
Gas Cost Recovery Rate
Dec 19 - Feb 20

Line No.	Description				Amount	Expires
1	Expected Gas Cost (EGC)	Schedule No. 1			$4.3803	02-29-20
2	Total Actual Cost Adjustment (ACA)	Schedule No. 2			($0.2787)	
			Case No. 2019-00040	$0.5283		02-29-20
			Case No. 2019-00139	($0.5069)		05-31-20
			Case No. 2019-00267	($0.2684)		08-31-20
			Case No. 2019-xxxxx	($0.0317)		11-30-20
3	Total Supplier Refund Adjustment (RA)	Schedule No. 4			$0.0000	
4	Balancing Adjustment (BA)	Schedule No. 3	Case No. 2019-xxxxx		$0.0371	02-29-20
5	Performance Based Rate Adjustment (PBRA)	Schedule No. 6	Case No. 2019-00139		$0.3393	05-31-20
6	Gas Cost Adjustment					
7	Dec 19 - Feb 20				$4.4780	
8	Expected Demand Cost (EDC) per Mcf					
9	(Applicable to Rate Schedule IS/SS and GSO)	Schedule No. 1, Sheet 4			$6.5417	

DATE FILED: October 28, 2019 **BY: J. M. Cooper**

Columbia Gas of Kentucky, Inc. **Schedule No. 1**

Expected Gas Cost for Sales Customers **Sheet 1**

Dec 19 - Feb 20

Line No.	Description	Reference	Volume A/ Mcf (1)	Dth. (2)	Rate Per Mcf (3)	Per Dth (4)	Cost (5)
	Storage Supply						
	Includes storage activity for sales customers only						
	Commodity Charge						
1	Withdrawal			(5,057,548)		$0.0153	$77,380
2	Injection			23,206		$0.0153	$355
3	Withdrawals: gas cost includes pipeline fuel and commodity charges			5,034,342		$2.3224	$11,691,757
	Total						
4	Volume	Line 3		5,034,342			
5	Cost	Line 1 + Line 2 + Line 3					$11,769,492
6	Summary	Line 4 or Line 5		5,034,342			$11,769,492
	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		814,136			$3,484,502
8	Appalachian Supplies	Sch.1, Sht. 6, Ln. 4		137,582			$421,782
9	Less Fuel Retention By Interstate Pipelines	Sch. 1,Sheet 7, Lines 21, 22		(110,741)			($245,101)
10	Total	Line 7 + Line 8 + Line 9		840,977			$3,661,183
	Total Supply						
11	At City-Gate	Line 6 + Line 10		5,875,319			$15,430,675
	Lost and Unaccounted For						
12	Factor			-0.4%			
13	Volume	Line 11 * Line 12		(23,501)			
14	At Customer Meter	Line 11 + Line 13	5,315,003	5,851,818			
15	Less: Right-of-Way Contract Volume		1,278				
16	**Sales Volume**	Line 14-Line 15	5,313,725				
	Unit Costs $/MCF						
	Commodity Cost						
17	Excluding Cost of Pipeline Retention	Line 11 / Line 16			$2.9039		
18	Annualized Unit Cost of Retention	Sch. 1,Sheet 7, Line 24			$0.0689		
19	Including Cost of Pipeline Retention	Line 17 + Line 18			$2.9728		
20	Uncollectible Ratio	CN 2016-00162			0.00923329		
21	Gas Cost Uncollectible Charge	Line 19 * Line 20			$0.0274		
22	Total Commodity Cost	Line 19 + Line 21			$3.0002		
23	Demand Cost	Sch.1, Sht. 2, Line 10			$1.3801		
24	Total Expected Gas Cost (EGC)	Line 22 + Line 23			$4.3803		

A/ BTU Factor = 1.1010 Dth/MCF

Columbia Gas of Kentucky, Inc. **Schedule No. 1**
GCA Unit Demand Cost **Sheet 2**
Dec 19 - Feb 20

Line No.	Description	Reference	Cost	
1	Expected Demand Cost: Annual Dec 19 - Feb 20	Sch. No.1, Sheet 3, Ln. 11	$19,171,778	
2	Less Rate Schedule IS/SS and GSO Customer Demand Charge Recovery	Sch. No.1, Sheet 4, Ln. 10	($141,144)	
3	Less Storage Service Recovery from Delivery Service Customers		($240,222)	
4	Net Demand Cost Applicable	Line 1 + Line 2 + Line 3	$18,790,412	
	Projected Annual Demand: Sales + Choice			
	At city-gate			
	In Dth		15,052,857	Dth
	Heat content		1.1010	Dth/MCF
5	In MCF		13,671,986	MCF
	Lost and Unaccounted - For			
6	Factor		0.4%	
7	Volume	Line 5 x Line 6	54,688	MCF
8	Right of way Volumes		2,447	MCF
9	At Customer Meter	Line 5 - Line 7 - Line 8	13,614,851	MCF
10	Unit Demand Cost -- To Sheet 1, Line 23	Line 4 / Line 9	$1.3801	per MCF

Columbia Gas of Kentucky, Inc. **Schedule No. 1**
Annual Demand Cost of Interstate Pipeline Capacity **Sheet 3**
Dec 19 - Nov 20

Line No.	Description	Dth	Monthly Rate $/Dth	# Months	Expected Annual Demand Cost
	Columbia Gas Transmission Corporation				
	Firm Storage Service (FSS)				
1	FSS Max Daily Storage Quantity (MDSQ)	220,880	$1.5010	4	$1,326,164
2	FSS Seasonal Contract Quantity (SCQ)	11,264,911	$0.0288	4	$1,297,718
3	FSS Max Daily Storage Quantity (MDSQ)	209,880	$1.5010	8	$2,520,239
4	FSS Seasonal Contract Quantity (SCQ)	10,703,880	$0.0288	8	$2,466,174
	Storage Service Transportation (SST)				
5	Summer	110,440	$4.1850	0	$0
6	Winter	220,880	$4.1850	4	$3,697,531
7	Summer	104,940	$4.1850	6	$2,635,043
8	Winter	209,880	$4.1850	2	$1,756,696
9	Firm Transportation Service (FTS)	20,014	$6.7720	12	$1,626,418
10	Firm Transportation Service (FTS)	5,124	$6.7720	12	$416,397
11	Subtotal -- Sum of Lines 1 through 6				$17,742,380
	Columbia Gulf Transmission Company				
12	FTS - 1 (Mainline)	28,991	$4.1700	4	$483,570
	Tennessee Gas				
13	Firm Transportation	15,506	$4.5793	12	$852,080
	Central Kentucky Transmission				
14	Firm Transportation	28,000	$0.4930	4	$55,216
15	Operational and Commercial Services Charge		$9,633	4	$38,532
16	**Total** -- Sum of Lines 7 through 11 -- To Sheet 2, line 1				$19,171,778

Columbia Gas of Kentucky, Inc.
Gas Cost Adjustment Clause
Expected Demand Costs Recovered Annually From Rate Schedule IS/SS and GSO Customers
Dec 19 - Nov 20

Line No.	Description	Capacity Daily Dth (1)	# Months (2)	Annualized Dth (3) = (1) x (2)	Units	Annual Cost (3)
1	Expected Demand Costs (Per Sheet 3)					$19,171,778
	City-Gate Capacity:					
	Columbia Gas Transmission					
2	Firm Storage Service - FSS	220,880	12	2,650,560		
3	Firm Transportation Service - FTS	20,014	12	240,168		
4	Central Kentucky Transportation	28,000	12	336,000		
5	Total -- Sum of Lines 2 through 4			3,226,728	Dth	
6	Divided by Average BTU Factor			1.101	Dth/MCF	
7	Total Capacity - Annualized -- Line 5 / Line 6			2,930,725	Mcf	
8	Monthly Unit Expected Demand Cost (EDC) of Daily Capacity Applicable to Rate Schedules IS/SS and GSO -- Line 1 / Line 7			$6.5417	/Mcf	
9	Firm Volumes of IS/SS and GSO Customers	1,798	12	21,576	Mcf	
10	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		$141,144

Columbia Gas of Kentucky, Inc.
Non-Appalachian Supply: Volume and Cost
Dec 19 - Feb 20

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: Volume A/	Cost	Unit Cost	Net Storage Injection	Net Flowing Supply for Current Consumption: Volume	Cost
		Dth		$/Dth	Dth	Dth	
		(1)	(2)	(3)	(4)	(5)	(6)
				= (2) / (1)		= (1) + (4)	= (3) x (5)
1	Dec 19	(8,822)	$467,419		0	(8,822)	
2	Jan-20	427,165	$1,571,565		0	427,165	
3	Feb-20	395,793	$1,442,593		0	395,793	
4	Total -- Sum of Lines 1 through 3	814,136	$3,481,577	$4.28	0	814,136	$3,484,502

A/ Gross, before retention.

Columbia Gas of Kentucky, Inc. **Schedule No. 1**
Appalachian Supply: Volume and Cost **Sheet 6**
Dec 19 - Feb 20

Line No.	**Month**	**Dth** (2)	**Cost** (3)
1	Dec 19	31,166	$89,560
2	Jan-20	53,468	$167,485
3	Feb-20	52,948	$164,737
4	Total -- Sum of Lines 1 through 3	137,582	$421,782

Columbia Gas of Kentucky, Inc.
Annualized Unit Charge for Gas Retained by Upstream Pipelines
Dec 19 - Feb 20

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	Dec 19 - Feb 20	Mar 20 - May 20	Jun 20 - Aug 20	Sep 19 - Aug 20	Annual Dec 19 - Nov 20
	Gas purchased by CKY for the remaining sales customers						
1	Volume	Dth	951,718	3,420,161	4,140,354	2,192,808	10,705,041
2	Commodity Cost Including Transportation		$3,903,359	$6,919,795	$8,426,790	$4,443,277	$23,693,221
3	Unit cost	$/Dth					$2.2133
	Consumption by the remaining sales customers						
4	At city gate	Dth	6,519,015	2,581,842	586,831	1,892,608	11,580,296
5	Lost and unaccounted for portion		0.40%	0.40%	0.40%	0.40%	
	At customer meters						
6	In Dth = (100% - Line 5) x Line 4	Dth	6,492,939	2,571,515	584,484	1,885,038	11,533,976
7	Heat content	Dth/MCF	1.1010	1.1010	1.1010	1.1010	
8	In MCF = Line 6 / Line 7	MCF	5,897,311	2,335,618	530,866	1,712,114	10,475,909
9	Portion of annual -- Line 8 / Annual		56.3%	22.3%	5.1%	16.3%	100.0%
	Gas retained by upstream pipelines						
10	Volume	Dth	110,741	83,455	75,377	56,569	326,142
	Cost		To Sheet 1, line 9				
11	Quarterly -- Deduct from Sheet 1 -- Line 3 x Line 10		$245,101	$184,709	$166,830	$125,203	$721,843
12	Allocated to quarters by consumption		$406,398	$160,971	$36,814	$117,660	$721,843
			To Sheet 1, line 18				
13	Annualized unit charge -- Line 12 / Line 8	$/MCF	$0.0689	$0.0689	$0.0693	$0.0687	$0.0689

COLUMBIA GAS OF KENTUCKY, INC.

DETERMINATION OF THE BANKING AND BALANCING CHARGE
FOR THE PERIOD BEGINNING DECEMBER 2019

Line No.	Description	Dth	Detail	Amount For Transportation Customers
1	Total Storage Capacity -- From Sheet 3, Line 2	11,264,911		
2	Net Transportation Volume	12,671,496		
3	Contract Tolerance Level @ 5%	633,575		
4	Percent of Annual Storage Applicable			
5	to Transportation Customers		5.62%	
6	Seasonal Contract Quantity (SCQ)			
7	Rate		$0.0288	
8	SCQ Charge - Annualized		$3,763,892	
9	Amount Applicable To Transportation Customers			$211,531
10	FSS Injection and Withdrawal Charge			
11	Rate		0.0306	
12	Total Cost		$344,706	
13	Amount Applicable To Transportation Customers			$19,372
14	SST Commodity Charge			
15	Rate		0.0188	
16	Projected Annual Storage Withdrawal, Dth		8,820,599	
17	Total Cost		$165,827	
18	Amount Applicable To Transportation Customers			$9,319
19	Total Cost Applicable To Transportation Customers			$240,222
20	Total Transportation Volume - Mcf			16,967,000
21	Flex and Special Contract Transportation Volume - Mcf			(5,457,921)
22	Net Transportation Volume - Mcf -- Line 20 + Line 21			11,509,079
23	Banking and Balancing Rate - Mcf -- Line 19 / Line 22 - To Line 11 of the GCA Comparison			$0.0209

DETAIL SUPPORTING

DEMAND/COMMODITY SPLIT

COLUMBIA GAS OF KENTUCKY
CASE NO. 2019- Effective December 2019 Billing Cycle

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)	$1.3801	
Demand ACA (Schedule No. 2, Sheet 1, Case No. 2019-00040, Case No. 2019-00139, Case No. 00267 & Case No. 2019-XXXXX)	($0.2417)	
Refund Adjustment (Schedule No. 4, Case No. 201X-)	$0.0000	
Total Demand Rate per Mcf	$1.1384	<--- to Att. E, line 15
Commodity Component of Gas Cost Adjustment		
Commodity Cost of Gas (Schedule No. 1, Sheet 1, Line 22)	$3.0002	
Commodity ACA (Schedule No. 2, Sheet 1, Case No. 2019-00040, Case No. 2019-00139, Case No. 00267 & Case No. 2019-XXXXX)	($0.0370)	
Balancing Adjustment	$0.0371	
Performance Based Rate Adjustment (Schedule No. 6, Case No. 2019-00139)	$0.3393	
Total Commodity Rate per Mcf	$3.3396	
CHECK:	$1.1384	
	$3.3396	
COST OF GAS TO TARIFF CUSTOMERS (GCA)	$4.4780	

Calculation of Rate Schedule SVGTS - Actual Gas Cost Adjustment

Commodity ACA (Schedule No. 2, Sheet 1, Case No. 2019-00040, Case No. 2019-00139, Case No. 00267 & Case No. 2019-XXXXX)	($0.0370)	
Balancing Adjustment	$0.0371	
Performance Based Rate Adjustment (Schedule No. 6, Case No. 2019-00139)	$0.3393	
Total Commodity Rate per Mcf	**$0.3394**	←

Columbia Gas of Kentucky, Inc.
CKY Choice Program
100% Load Factor Rate of Assigned FTS Capacity
Balancing Charge
Dec 19 - Feb 20

Line No.	Description	ContractV olume	Retention	Monthly demand charges	Number of Months	Assignment Proportions	Adjustment for retention on downstream pipe, if any	Annual costs	
		Dth		$/Dth				$/Dth	$/MCF
		Sheet 3		Sheet 3		Line 7 or Line 8			
		(1)	(2)	(3)	(4)	(5)	(6) = 1 / (100% - (2))	(7) = (3)x(4)x(5)x(6)	
	City gate capacity assigned to Choice marketers								
1	Contract								
2	CKT FTS/SST	28,000	0.460%						
3	TCO FTS	20,014	1.492%						
4	Total	48,014							
5									
6	Assignment Proportions								
7	CKT FTS/SST -- Line 2 / Line 4	58.32%							
8	TCO FTS -- Line 3 / Line 4	41.68%							
	Annual demand cost of capacity assigned to choice marketers								
9	CKT FTS			$0.4930	4	0.5832	1.0000	$1.1501	
10	TCO FTS			$6.7720	12	0.4168	1.0000	$33.8708	
11	Gulf FTS-1, upstream to CKT FTS			$4.1700	4	0.5832	1.0046	$9.7727	
12	TGP FTS-A, upstream to TCO FTS			$4.5793	12	0.4168	1.0151	$23.2507	
13	Total Demand Cost of Assigned FTS, per unit							$68.0443	$74.9168
14	100% Load Factor Rate (Line 13 / 365 days)								$0.2053
	Balancing charge, paid by Choice marketers								
15	Demand Cost Recovery Factor in GCA, per Mcf per CKY Tariff Sheet No. 5								$1.1384
16	Less credit for cost of assigned capacity								($0.2053)
17	Plus storage commodity costs incurred by CKY for the Choice marketer								$0.0596
18	Balancing Charge, per Mcf -- Sum of Lines 15 through 17								$0.9927

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 AUGUST 31, 2019

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	June 2019	233,033	0	233,033	$4.4563	$1,038,470	$13,355	($1,193)	$1,053,018	($436,125)	($1,489,143)
2	July 2019	117,280	0	117,280	$7.4944	$878,940	$12,918	($1,291)	$893,149	$1,097,729	$204,580
3	August 2019	182,516	0	182,516	$4.4630	$814,566	$11,818	($1,448)	$827,832	$2,203,880	$1,376,048
4	TOTAL	532,829	-	532,829		$2,731,976	$38,091	($3,931)	$2,773,998	$2,865,483	$91,485
5	Off-System Sales										($406,099)
6	Capacity Release										$0
7	TOTAL (OVER)/UNDER-RECOVERY										($314,613.92)
8	Demand Revenues Received										$895,147
9	Demand Cost of Gas										$3,358,957
10	Demand (Over)/Under Recovery										$2,463,811
11	Expected Sales Volumes for the Twelve Months End November 30, 2020										10,473,193
12	**DEMAND ACA TO EXPIRE NOVEMBER 30, 2020**										**$0.2352**
13	Commodity Revenues Received										$1,878,852
14	Commodity Cost of Gas										($899,573)
15	Commodity (Over)/Under Recovery										($2,778,425)
16	Gas Cost Uncollectible ACA										($17,020)
17	Total Commodity (Over)/Under Recovery										($2,795,444)
18	Expected Sales Volumes for the Twelve Months End November 30, 2020										10,473,193
19	**COMMODITY ACA TO EXPIRE NOVEMBER 30, 2020**										**($0.2669)**
20	**TOTAL ACA TO EXPIRE NOVEMBER 30, 2020**										**($0.0317)**

**STATEMENT SHOWING ACTUAL COST
RECOVERY FROM CUSTOMERS TAKING STANDBY
SERVICE UNDER RATE SCHEDULE IS AND GSO
FOR THE THREE MONTHS ENDED AUGUST 31, 2019**

LINE NO.	MONTH	SS Commodity Volumes (1) Mcf	Average SS Recovery Rate (2) $/Mcf	SS Commodity Recovery (3) $
1	June 2019	0	$0.0000	$0
2	July 2019	0	$0.0000	$0
3	August 2019	0	$0.0000	$0
4	**Total SS Commodity Recovery**			$0

LINE NO.	MONTH	SS Demand Volumes (1) Mcf	Average SS Demand Rate (2) $/Mcf	SS Demand Recovery (3) $
5	June 2019	1,962	$6.8068	$13,355
6	July 2019	1,962	$6.5839	$12,918
7	August 2019	1,798	$6.5730	$11,818
8	**Total SS Demand Recovery**			$38,091
9	**TOTAL SS AND GSO RECOVERY**			$38,091

Columbia Gas of Kentucky, Inc.
Gas Cost Uncollectible Charge - Actual Cost Adjustment
For the Three Months Ending August 31, 2019

Line No.	Class	Jun-19	Jul-19	Aug-19	Total
1	**Actual Cost**	$ (6,242)	$ 1,114	$ 5,324	$ 196
2	**Actual Recovery**	$ 6,550	$ 5,514	$ 5,151	$ 17,215
3	**(Over)/Under Activit**	**$ (12,792)**	**$ (4,400)**	**$ 173**	**$ (17,020)**

BALANCING ADJUSTMENT

SCHEDULE NO. 3

COLUMBIA GAS OF KENTUCKY, INC.

CALCULATION OF BALANCING ADJUSTMENT
TO BE EFFECTIVE DECEMBER 1, 2019

Line No.	Description	Detail $	Amount $
1	**RECONCILIATION OF A PREVIOUS SUPPLIER REFUND ADJUSTMENT**		
2	Total adjustment to have been distributed to		
3	customers in Case No. 201X-XXXXX	$0	
4	Less: actual amount distributed	$0	
5	REMAINING AMOUNT		$0
6	**RECONCILIATION OF A PREVIOUS BALANCING ADJUSTMENT**		
7	Total adjustment to have been distributed to		
8	customers in Case No. 2017-00317	($261,088)	
9	Less: actual amount distributed	($306,009)	
10	REMAINING AMOUNT		$44,921
11	**RECONCILIATION OF PREVIOUS ACTUAL COST ADJUSTMENT**		
12	Total adjustment to have been distributed to		
13	customers in Case No. 2018-00253	($2,822,441)	
14	Less: actual amount distributed	($2,996,555)	
15	REMAINING AMOUNT		$174,114
16	**TOTAL BALANCING ADJUSTMENT AMOUNT**		**$219,035**
17	Divided by: projected sales volumes for the three months		
18	ended February 29, 2020		5,896,019
19	**BALANCING ADJUSTMENT (BA) TO**		
20	**EXPIRE FEBRUARY 29, 2020**		**$ 0.0371**

Columbia Gas of Kentucky, Inc.
Balancing Adjustment
Supporting Data

Case No. 2017-00317

Expires: December 31, 2017	Volume	Surcharge Rate	Surcharge Amount	Surcharge Balance
Beginning Balance				($261,088)
June 2019	240,482	($0.4884)	($117,452)	($143,637)
July 2019	200,915	($0.4884)	($98,127)	($45,510)
August 2019	185,891	($0.4884)	($90,789)	$45,279
September 2019	(734)	($0.4884)	$358	$44,921

TOTAL SURCHARGE COLLECTED

SUMMARY:	
SURCHARGE AMOUNT	($261,088)
AMOUNT COLLECTED	($306,009)
REMAINING BALANCE	$44,921

Columbia Gas of Kentucky, Inc.
Actual Cost Adjustment YR2018 QTR2
Supporting Data

Case No. 2018-00253

Expires: September 30, 2019	Tariff			Choice			
	Volume	Refund Rate	Refund Amount	Volume	Refund Rate	Refund Amount	Refund Balance
							($2,822,441)
Sep-18	191,731	($0.2734)	($52,419)	1,045	($0.2143)	($224)	($2,769,798)
Oct-18	268,087	($0.2734)	($73,295)	2,632	($0.2143)	($564)	($2,695,939)
Nov-18	887,892	($0.2734)	($242,750)	7,469	($0.2143)	($1,601)	($2,451,589)
Dec-18	1,810,584	($0.2734)	($495,014)	11,203	($0.2143)	($2,401)	($1,954,174)
Jan-19	1,952,114	($0.2734)	($533,708)	11,766	($0.2143)	($2,521)	($1,417,945)
Feb-19	2,101,939	($0.2734)	($574,670)	11,207	($0.2143)	($2,402)	($840,873)
Mar-19	1,743,130	($0.2734)	($476,572)	10,649	($0.2143)	($2,282)	($362,019)
Apr-19	943,823	($0.2734)	($258,041)	5,451	($0.2143)	($1,168)	($102,810)
May-19	389,037	($0.2734)	($106,363)	2,365	($0.2143)	($507)	$4,060
Jun-19	234,975	($0.2734)	($64,242)	1,962	($0.2143)	($420)	$68,722
Jul-19	199,344	($0.2734)	($54,501)	1,572	($0.2143)	($337)	$123,559
Aug-19	184,753	($0.2734)	($50,511)	1,138	($0.2143)	($244)	$174,315
Sep-19	(734)	($0.2734)	$201	-	($0.2143)	$0	$174,114

SUMMARY:	
REFUND AMOUNT	(2,822,441)
LESS	
AMOUNT REFUNDED	(2,996,555)
TOTAL REMAINING REFUND	174,114

PIPELINE COMPANY TARIFF SHEETS

Currently Effective Rates
Applicable to Rate Schedule FTS-1
Rates in Dollars per Dth

Rate Schedule FTS-1	Base Rate (1) 1/	Total Effective Rate (2) 1/	Daily Rate (3) 1/
Market Zone			
Reservation Charge			
Maximum	4.170	4.170	0.1371
Minimum	0.000	0.000	0.000
Commodity			
Maximum	0.0109	0.0109	0.0109
Minimum	0.0109	0.0109	0.0109
Overrun			
Maximum	0.1480	0.1480	0.1480
Minimum	0.0109	0.0109	0.0109

1/ 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 31 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.

Currently Effective Rates
Applicable to Rate Schedule SST
Rate Per Dth

		Base Tariff Rate 1/ 2/	TCRA Rates	EPCA Rates	OTRA Rates	CCRM Rates	Total Effective Rate 2/	Daily Rate 2/
Rate Schedule SST								
Reservation Charge 3/4/	$	5.743	0.290	0.058	0.047	0.474	6.612	0.2173
Commodity								
Maximum	¢	1.02	0.16	0.44	0.00	0.00	1.62	1.62
Minimum	¢	1.02	0.16	0.44	0.00	0.00	1.62	1.62
Overrun 4/								
Maximum	¢	19.90	1.11	0.63	0.15	1.56	23.35	23.35
Minimum	¢	1.02	0.16	0.44	0.00	0.00	1.62	1.62

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/ Shippers utilizing the Eastern Market Expansion (EME) facilities for Rate Schedule SST service will pay a total SST reservation charge of $17.625. If EME customers incur an overrun for SST services that is provided under their EME Project service agreements, they will pay a total overrun rate of 58.97 cents. The applicable EME demand charge and EME overrun charge can be added to the applicable surcharges above to calculate the EME Total Effective Rates.

Currently Effective Rates
Applicable to Rate Schedule FTS
Rate Per Dth

		Base Tariff Rate 1/ 2/	TCRA Rates	EPCA Rates	OTRA Rates	CCRM Rates	Total Effective Rate 2/	Daily Rate 2/
Rate Schedule FTS								
Reservation Charge 3/	$	5.903	0.290	0.058	0.047	0.474	6.772	0.2226
Commodity								
Maximum	¢	1.04	0.16	0.44	0.00	0.00	1.64	1.64
Minimum	¢	1.04	0.16	0.44	0.00	0.00	1.64	1.64
Overrun								
Maximum	¢	20.45	1.11	0.63	0.15	1.56	23.90	23.90
Minimum	¢	1.04	0.16	0.44	0.00	0.00	1.64	1.64

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.

Currently Effective Rates
Applicable to Rate Schedule FSS
Rate Per Dth

		Base Tariff Rate 1/	Transportation Cost Rate Adjustment		Electric Power Costs Adjustment		Annual Charge Adjustment 2/	Total Effective Rate	Daily Rate
			Current	Surcharge	Current	Surcharge			
Rate Schedule FSS									
Reservation Charge 3/	$	1.501	-	-	-	-	-	1.501	0.0493
Capacity 3/	¢	2.88	-	-	-	-	-	2.88	2.88
Injection	¢	1.53	-	-	-	-	-	1.53	1.53
Withdrawal	¢	1.53	-	-	-	-	-	1.53	1.53
Overrun 3/	¢	10.87	-	-	-	-	-	10.87	10.87

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/ ACA assessed where applicable pursuant to Section 154.402 of the Commission's Regulations.
3/ Shippers utilizing the Eastern Market Expansion (EME) facilities for FSS service will pay a total FSS MDSQ reservation charge of $4.130 and a total FSS SCQ capacity rate of 6.80 cents. If EME customers incur an overrun for FSS services that is provided under their EME Project service agreements, they will pay a total FSS overrun rate of 23.44 cents. The additional EME demand charges and EME overrun charges can be added to the applicable surcharges above to develop the EME Total Effective Rate.

RATE CARD

This information is provided for illustrative purposes and general information only. It may not be current and may contain typographical or other errors. The authoritative source for Tennessee's rates is Tennessee's FERC Gas Tariff.

Annual F&LR and EPCR Adjustment - effective 04/01/2019

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	$5.4269		$11.3406	$15.2546	$15.5246	$17.0584	$18.1067	$22.7176
Usg-Max	0.0032		0.0115	0.0177	0.0219	0.2613	0.2494	0.2968
Usg-Min	0.0032		0.0115	0.0177	0.0219	0.0250	0.0284	0.0346
Overrun	0.1815		0.3838	0.5183	0.5312	0.8221	0.8446	1.0437
Zone L								
Res		$4.8178						
Usg-Max		0.0012						
Usg-Min		0.0012						
Overrun		0.1596						
Zone 1								
Res	$8.1697		$7.8313	$10.4219	$14.7637	$14.5399	$16.3977	$20.1633
Usg-Max	0.0042		0.0081	0.0147	0.0179	0.2222	0.2266	0.2587
Usg-Min	0.0042		0.0081	0.0147	0.0179	0.0210	0.0256	0.0300
Overrun	0.2726		0.2651	0.3566	0.5024	0.7002	0.7657	0.9215
Zone 2								
Res	$15.2547		$10.3593	$5.3879	$5.0367	$6.4446	$8.8638	$11.4421
Usg-Max	0.0167		0.0087	0.0012	0.0028	0.0719	0.1153	0.1278
Usg-Min	0.0167		0.0087	0.0012	0.0028	0.0056	0.0100	0.0143
Overrun	0.5174		0.3488	0.1783	0.1682	0.2838	0.4068	0.504
Zone 3								
Res	$15.5246		$8.2056	$5.4314	$3.9184	$6.0190	$10.8858	$12.5789
Usg-Max	0.0207		0.0169	0.0026	0.0002	0.0961	0.1330	0.1452
Usg-Min	0.0207		0.0169	0.0026	0.0002	0.0081	0.0118	0.0163
Overrun	0.5301		0.2859	0.1811	0.129	0.294	0.491	0.5587
Zone 4								
Res	$19.7110		$18.1718	$6.9250	$10.5240	$5.1514	$5.5711	$7.9589
Usg-Max	0.0250		0.0205	0.0087	0.0105	0.0445	0.0629	0.1019
Usg-Min	0.0250		0.0205	0.0087	0.0105	0.0028	0.0046	0.0092
Overrun	0.6717		0.6169	0.2359	0.356	0.2138	0.2461	0.3636
Zone 5								
Res	$23.5025		$16.5148	$7.2643	$8.7898	$5.7227	$5.3680	$6.9882
Usg-Max	0.0284		0.0256	0.0100	0.0118	0.0626	0.0620	0.0770
Usg-Min	0.0284		0.0256	0.0100	0.0118	0.0046	0.0046	0.0066
Overrun	0.7996		0.5673	0.2482	0.3002	0.2508	0.2385	0.3069
Zone 6								
Res	$27.1880		$18.9685	$13.0548	$14.3818	$10.1587	$5.3443	$4.6263
Usg-Max	0.0346		0.0300	0.0143	0.0163	0.0963	0.0522	0.0317
Usg-Min	0.0346		0.0300	0.0143	0.0163	0.0086	0.0041	0.0020
Overrun	0.9267		0.6521	0.4428	0.4883	0.4303	0.2278	0.1838

1\ Rates are exclusive of surcharges.

	FT-A	IT
ACA Commodity Surcharge	$0.0013	$0.0013
PS-GHG Reservation Surcharge	$0.0168	
PS-GHG Commodity Surcharge	$0.0006	$0.0012

2\ Losses of -0.04% are included in the Transportation F&LR.
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 0.00%.

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	$0.1815		$0.3838	$0.5183	$0.5312	$0.8221	$0.8446	$1.0437
Usg-Min	0.0032		0.0115	0.0177	0.0219	0.0250	0.0284	0.0346
Zone L								
Usg-Max		$0.1596						
Usg-Min		0.0012						
Zone 1								
Usg-Max	$0.2726		$0.2651	$0.3566	$0.5024	$0.7002	$0.7657	$0.9215
Usg-Min	0.0042		0.0081	0.0147	0.0179	0.0210	0.0256	0.0300
Zone 2								
Usg-Max	$0.5174		$0.3488	$0.1783	$0.1682	$0.2838	$0.4068	$0.5040
Usg-Min	0.0167		0.0087	0.0012	0.0028	0.0056	0.0100	0.0143
Zone 3								
Usg-Max	$0.5301		$0.2859	$0.1811	$0.1290	$0.2940	$0.4910	$0.5587
Usg-Min	0.0207		0.0169	0.0026	0.0002	0.0081	0.0118	0.0163
Zone 4								
Usg-Max	$0.6717		$0.6169	$0.2359	$0.3560	$0.2138	$0.2461	$0.3636
Usg-Min	0.0250		0.0205	0.0087	0.0105	0.0028	0.0046	0.0092
Zone 5								
Usg-Max	$0.7996		$0.5673	$0.2482	$0.3002	$0.2508	$0.2385	$0.3069
Usg-Min	0.0284		0.0256	0.0100	0.0118	0.0046	0.0046	0.0066
Zone 6								
Usg-Max	$0.9267		$0.6521	$0.4428	$0.4883	$0.4303	$0.2278	$0.1838
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	0.46%		1.71%	2.68%	3.32%	3.86%	4.36%	5.18%
L		0.17%						
1	0.62%		1.21%	2.17%	2.71%	3.25%	3.95%	4.51%
2	2.61%		1.30%	0.16%	0.41%	0.88%	1.57%	2.18%
3	3.32%		2.64%	0.41%	0.02%	1.27%	1.89%	2.52%
4	3.86%		3.01%	1.29%	1.56%	0.43%	0.73%	1.35%
5	4.56%		3.95%	1.57%	1.89%	0.72%	0.72%	0.95%
6	5.46%		4.72%	2.18%	2.52%	1.26%	0.55%	0.21%

ELECTRIC POWER COST RATES (EPCR)

Receipt Zone	Delivery Zone 0	L	1	2	3	4	5	6
0	$0.0033		$0.0129	$0.0199	$0.0248	$0.0299	$0.0340	$0.0408
L		0.0011						
1	0.0045		0.0090	0.0165	0.0202	0.0251	0.0307	0.0353
2	0.0199		0.0097	0.0010	0.0029	0.0065	0.0118	0.0162
3	0.0248		0.0202	0.0029	0.0000	0.0095	0.0140	0.0187
4	0.0299		0.0231	0.0096	0.0117	0.0031	0.0054	0.0101
5	0.0340		0.0307	0.0118	0.0140	0.0053	0.0052	0.0070
6	0.0408		0.0353	0.0162	0.0187	0.0094	0.0040	0.0014

Tennessee Gas Pipeline Company, L.L.C.
a Kinder Morgan company

RATE CARD

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Annual F&LR and EPCR Adjustment - effective 04/01/2019

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	$0.3004		$0.6323	$0.8527	$0.8714	$1.1961	$1.2415	$1.5416
Usg-Min	0.0032		0.0115	0.0177	0.0219	0.0250	0.0284	0.0346
Overrun	0.3004		0.6323	0.8527	0.8714	1.1961	1.2415	1.5416
Zone L								
Usg-Max		$0.2651						
Usg-Min		0.0012						
Overrun		0.2651						
Zone 1								
Usg-Max	$0.4516		$0.4368	$0.5850	$0.8260	$1.0189	$1.1251	$1.3635
Usg-Min	0.0042		0.0081	0.0147	0.0179	0.0210	0.0256	0.0300
Overrun	0.4516		0.4368	0.5850	0.8260	1.0189	1.1251	1.3635
Zone 2								
Usg-Max	$0.8518		$0.5759	$0.2964	$0.2787	$0.4250	$0.6011	$0.7547
Usg-Min	0.0167		0.0087	0.0012	0.0028	0.0056	0.0100	0.0143
Overrun	0.8518		0.5759	0.2964	0.2787	0.4250	0.6011	0.7547
Zone 3								
Usg-Max	$0.8703		$0.4657	$0.3001	$0.2149	$0.4260	$0.7295	$0.8344
Usg-Min	0.0207		0.0169	0.0026	0.0002	0.0081	0.0118	0.0163
Overrun	0.8703		0.4657	0.3001	0.2149	0.4260	0.7295	0.8344
Zone 4								
Usg-Max	$1.1038		$1.0152	$0.3878	$0.5866	$0.3267	$0.3681	$0.5381
Usg-Min	0.0250		0.0205	0.0087	0.0105	0.0028	0.0046	0.0092
Overrun	1.1038		1.0152	0.3878	0.5866	0.3267	0.3681	0.5381
Zone 5								
Usg-Max	$1.3148		$0.9293	$0.4076	$0.4929	$0.3762	$0.3563	$0.4599
Usg-Min	0.0284		0.0256	0.0100	0.0118	0.0046	0.0046	0.0066
Overrun	1.3148		0.9293	0.4076	0.4929	0.3762	0.3563	0.4599
Zone 6								
Usg-Max	$1.5227		$1.0678	$0.7289	$0.8035	$0.6530	$0.3449	$0.2852
Usg-Min	0.0346		0.0300	0.0143	0.0163	0.0086	0.0041	0.0020
Overrun	1.5227		1.0678	0.7289	0.8035	0.6530	0.3449	0.2852

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			$0.3729	$0.5015	$0.5104	$0.5608	$0.5953	$0.7469
Zone L								
Daily Res								
Zone 1								
Daily Res	$0.2686			$0.3427	$0.4854	$0.4780	$0.5391	$0.6628
Zone 2								
Daily Res	$0.5015		$0.3406	$0.0000	$0.1656	$0.2119	$0.2915	$0.3762
Zone 3								
Daily Res	$0.5104		$0.2698	$0.1786		$0.1979	$0.3580	$0.4135
Zone 4								
Daily Res	$0.6480		$0.5975	$0.2276	$0.3460		$0.1832	$0.2616
Zone 5								
Daily Res	$0.7726		$0.5430	$0.2387	$0.2890	$0.1882		$0.2298
Zone 6								
Daily Res	$0.8939		$0.6236	$0.4292	$0.4728	$0.3339	$0.1757	

STORAGE SERVICE 2\

	Deliverability	Capacity	Inj./With.	Overrun	F&LR	EPCR
FS-PA	$1.9915	$0.0202	$0.0073	$0.2390	1.75%	$0.0000
FS-MA	1.4630	0.0200	0.0087	0.1756	1.75%	0.0000
IS-PA		0.0998	0.0073		1.75%	0.0000
IS-MA		0.0804	0.0087		1.75%	0.0000

	FT-GS
ACA Commodity Surcharge	$0.0013
PS-GHG Commodity Surcharge	$0.0015

1\ Rates are exclusive of surcharges.

2\ Losses of 0.01% are included in the Storage F&LR.

PARK AND LOAN SERVICE

PAL Daily Rate	$0.3886
PAL Term Rate	$0.3886

Currently Effective Rates
Applicable to Rate Schedule FTS
Rate per Dth

	Base Tariff Rate 2/	Total Effective Rate 2/	Daily Rate 2/
Rate Schedule FTS			
Reservation Charge 1/	$ 0.493	0.493	0.0162
Commodity			
Maximum	¢ 0.00	0.00	0.00
Minimum	¢ 0.00	0.00	0.00
Overrun	¢ 1.62	1.62	1.62

1/ Minimum reservation charge is $0.00.
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 31 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.

RETAINAGE PERCENTAGE

Transportation Retainage 0.460%

RETAINAGE PERCENTAGES

Transportation Retainage	1.492%
Gathering Retainage	5.000%
Storage Gas Loss Retainage	0.350%
Ohio Storage Gas Loss Retainage	0.470%
Columbia Processing Retainage 1/	0.000%

1/ 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.

RETAINAGE PERCENTAGES

Transportation Retainage	1.492%
Gathering Retainage	5.000%
Storage Gas Loss Retainage	0.350%
Ohio Storage Gas Loss Retainage	0.470%
Columbia Processing Retainage 1/	0.000%

1/ 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.

THIRD PARTY PAYMENT AGREEMENT

THIS THIRD PARTY PAYMENT AGREEMENT (this "Agreement") dated as of October 1, 2015 (the "Effective Date") by and COLUMBIA GAS TRANSMISSION, LLC, f/k/a Columbia Gas Transmission Corporation ("Owner-Operator"), and COLUMBIA GAS OF KENTUCKY, INC. ("CKY") under the following circumstances (CKY and Owner-Operator are individually referred to herein as a "Party" and collectively as the "Parties"):

A. CKY owns all of the outstanding voting securities of Central Kentucky Transmission Company, a Delaware corporation ("Co-Owner"). Co-Owner is engaged in the interstate transportation of gas and owns a 25 percent undivided interest in Owner-Operator's line KA-1 North interstate transmission pipeline and appurtenant facilities (the "Pipeline"). The Pipeline is Co-Owner's only asset subject to the jurisdiction of the Federal Energy Regulatory Commission (the "FERC"). CKY holds all of the shipping capacity on Co-Owner's portion of the Pipeline. The remaining 75 percent undivided interest in the Pipeline is owned by Owner-Operator.

B. Owner-Operator and Co-Owner are parties to that certain Operating Agreement dated as of March 18, 2005, as amended by that certain Amendment to Operating Agreement dated as of April 25, 2006 and by that certain Second Amendment to Operating Agreement dated July 1, 2015 (the "Existing Operating Agreement") wherein Owner-Operator and Co-Owner have agreed to the terms and conditions regarding the provision of Operational Services and Commercial Services by Owner-Operator to Co-Owner. Capitalized terms used and not otherwise defined herein have the respective meanings given to such terms in the Operating Agreement.

C. Pursuant to the Existing Operating Agreement, Co-Owner pays Owner-Operator a Flat Monthly Charge for Operational Services equal to $7,300, and a Flat Monthly Charge for Commercial Services equal to $8,333. $6,000 per month of the Flat Monthly Charge for Operational Services is recovered by Co-Owner through Co-Owner's tariff rates for shipping service on file with the FERC. The remaining $1,300 of the Flat Monthly Charge for Operational Services and the $8,333 Flat Monthly Charge for Commercial Services (collectively, such amount being referred to herein as the "Incremental Monthly Charges") is not being recovered by Co-Owner through rates or otherwise.

D. To avoid the expense and delay in time that would be required for Co-Owner to file an application with FERC to increase Co-Owner's tariff rates so that Co-Owner could recover through rates the Incremental Monthly Charge, which would be paid entirely by CKY, CKY and Co-Owner desire instead to have CKY pay Owner-Operator monthly the amount of the Incremental Monthly Charge.

E. Contemporaneously with the execution and delivery of this Agreement, Co-Owner and Owner-Operator are executing and delivering that certain Third Amendment to Operating Agreement dated as of the date hereof (the "Third Amendment") whereby Owner-Operator and Co-Owner are amending the Existing Operating Agreement to provide that Owner-Operator will invoice CKY monthly for the Incremental Monthly Charge.

NOW THEREFORE, in consideration of the mutual covenants and agreements contained herein, and intending to be legally bound hereby, the Parties agree as follows:

1. Incorporation of Recitals; Definitions. The Recitals set forth hereinabove are incorporated into this Agreement as if restated and set forth in full. Capitalized terms used and not otherwise defined herein have the respective meanings given such terms in the Existing Operating Agreement, as amended by the Third Amendment (the "Operating Agreement"). As used herein, the term "Section" refers to a Section of this Agreement.

2. Invoicing by Owner-Operator. Unless and until Owner-Operator receives written notice from Co-Operator and CKY to invoice Co-Owner and CKY in a different manner, Owner-Operator shall invoice CKY each month for (a) $1,300 of the Flat Monthly Charge for Operational Services and (b) all of the $8,333 of the Flat Monthly Charge for the Commercial Services. Owner-Operator agrees to accept payment of all amounts from CKY made on Co-Owner's behalf. Notwithstanding anything herein to the contrary, the Parties agree that Co-Owner shall at all times during the term of this Agreement remain primarily liable for the Flat Monthly Charges under the Operating Agreement, including, without limitation, the Incremental Monthly Charges that shall be invoiced to CKY under this Agreement. In the event CKY fails to make any payment in whole or in part of any Incremental Monthly Charge that is properly due and payable under the Operating Agreement, CKY agrees that Owner-Operator shall have the right to seek collection of all such amounts that become properly due and payable under the Operating Agreement from either CKY or Co-Owner.

2. Payment by CKY. During the Term, CKY agrees to pay timely all invoices for Incremental Monthly Charges due and payable under the Operating Agreement, together with any interest and penalties for late payment accruing with respect to such Incremental Monthly Charges. CKY reserves the right to assert all defenses, counterclaims and offsets that Co-Owner could assert under the Amended Operating Agreement. CKY's payment obligations under this Agreement are specifically limited to payment of the Incremental Monthly Charges as and when the same become due under the Operating Agreement and CKY is not and shall not become obligated in any manner to perform any other obligations or make other payments that may become due or otherwise owed to Owner-Operator by Co-Owner or others pursuant to or arising out of the Operating Agreement. This Agreement does not constitute a guaranty or create any other instrument of suretyship.

3. Term; Termination.

a. The term of this Agreement ("Term") shall commence on the Effective Date and shall continue until the earlier of (i) termination of the Operating Agreement, or (ii) termination pursuant to Section 3.b. Termination is not an election of remedies for any breach or default of a Party's obligations under this Agreement, and shall discharge only those obligations that have not accrued as of the effective date of termination. Any right or duty of a Party based on either the performance or breach of this Agreement prior to the effective date of termination shall survive the Term.

b. This Agreement may be terminated:

i. by CKY, for any reason or for convenience, upon thirty (30) days prior written notice to Owner-Operator; or

ii. by Owner-Operator, upon fifteen (15) days prior written notice to CKY, in the event CKY fails to make any payment required to made under this Agreement when due and such failure continues for a period of forty-five (45) days; or

iii. by either party, upon written notice to the other, in the event such other Party files a voluntary petition in bankruptcy or reorganization or fails to have such a petition filed against it dismissed within thirty (30) days or admits in writing its insolvency or inability to pay its liabilities as they come due, or assigns its assets for the benefit of creditors, or suffers a receiver to be appointed for its assets or suspends its business;

iv. immediately, without the requirement of notice by or to any Party, in the event that Co-Owner files a voluntary petition in bankruptcy or reorganization or fails to have such a petition filed against it dismissed within thirty (30) days or admits in writing its insolvency or inability to pay its liabilities as they come due, or assigns its assets for the benefit of creditors, or suffers a receiver to be appointed for its assets or suspends its business.

4. Notices. All notices required or permitted to be made pursuant to this Agreement shall be in writing and delivered by U.S. Mail, email, in person or by a nationally recognized overnight courier, to the Parties at the following respective addresses, or such other address as a Party may specify by written notice duly given pursuant to this Section:

If to CKY:

Columbia Gas of Kentucky, Inc.
2001 Mercer Road
Lexington, KY 40511
Attention: President
Phone: 859-288-0275

with a copy to:

Columbia Gas of Kentucky, Inc.
2001 Mercer Road
Lexington, KY 40511
Attention: Director of Regulatory
Phone: 859-288-0242

If to Owner-Operator:

Columbia Gas Transmission, LLC
5151 San Felipe
Suite 2400
Houston, TX 77056
Attention: Sr. Vice President, Commercial Operations
Phone: 713-386-3488

Notices shall be deemed received three business days after being deposited into the U.S. mail, or at the time transmitted by email, if such transmission is telephonically or digitally confirmed as having been received by the recipient, or when actually received if delivered by hand delivery or overnight courier.

5. Third-Party Beneficiaries. Co-Owner is expressly made a third-party beneficiary to this Agreement. There are no other third-party beneficiaries to this Agreement.

6. Counterparts; Entire Agreement. This Agreement may be executed in counterparts, each of which shall be deemed an original instrument, but all such counterparts together shall constitute one and the same agreement. This Agreement constitutes the entire agreement among the Parties pertaining to the subject matter hereof, and supersedes all prior agreements, understandings, negotiations and discussions, whether oral or written, of the Parties pertaining to the subject matter hereof.

7. Binding Agreement. Each Party hereby represents and warrants that this Agreement is a legal, valid and binding obligation of such Party and is enforceable against such Party in accordance with its terms.

8. Successors and Assigns. This Agreement shall be binding upon and inure to the benefit of the Parties and their respective successors and assigns.

9. Rules of Construction; No Waiver. Section headings and titles used in this Agreement are for convenience of reference only and in no way define, limit, extend or describe the scope or intent of any provisions of this Agreement. If any section, subsection, term or provision of this Agreement or the application thereof to any party or circumstance shall, to any extent, be invalid or unenforceable, the remainder of such section, subsection, term or provision and the application of the same to parties or circumstances other than those to which it is held invalid or unenforceable shall not be affected thereby, and shall be valid and enforceable to the fullest extent permitted by law. Amendments, modifications and waivers to this Agreement shall be made only by written instrument signed by both Parties. Any waiver by a party of any provision or condition of this Agreement shall not be construed or deemed to be a waiver of any other provision or condition of this Agreement, nor a waiver of a subsequent breach of the same provision or condition, whether such breach is of the same or a different nature as the prior breach.

10. Governing Law. This Agreement shall be construed and enforced in accordance with the internal laws of the State of Kentucky, without regard to any principles relating to conflicts of law that may direct the application of the laws of another jurisdiction.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be duly executed and delivered by their duly authorized officers as of the Effective Date.

COLUMBIA GAS TRANSMISSION, LLC

By: Stanley G. Chapman

Name: Stanley G. Chapman, III

Its: Executive Vice President and Chief Commercial Officer

COLUMBIA GAS OF KENTUCKY, INC.

By: Herbert A. Miller Jr.

Name: Herbert A. Miller

Its: President

PROPOSED TARIFF SHEETS

COLUMBIA GAS OF KENTUCKY, INC.

CURRENTLY EFFECTIVE BILLING RATES
(Continued)

RATE SCHEDULE SVGTS	**Base Rate Charge** $	
General Service Residential (SGVTS GSR)		
Customer Charge per billing period	16.00	
Delivery Charge per Mcf	3.5665 2/	
General Service Other - Commercial or Industrial (SVGTS GSO)		
Customer Charge per billing period	44.69	
Delivery Charge per Mcf -		
First 50 Mcf or less per billing period	3.0181 2/	
Next 350 Mcf per billing period	2.3295 2/	
Next 600 Mcf per billing period	2.2143 2/	
Over 1,000 Mcf per billing period	2.0143 2/	
Intrastate Utility Service		
Customer Charge per billing period	567.40	
Delivery Charge per Mcf	$ 1.1544 2/	

	Billing Rate	
Actual Gas Cost Adjustment 1/		
For all volumes per billing period per Mcf	$0.3394	R
RATE SCHEDULE SVAS		
Balancing Charge – per Mcf	$0.9927	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.

2/ The Delivery Charge will be adjusted at billing by the Tax Act Adjustment Factor set forth on Sheet 7a.

DATE OF ISSUE October 28, 2019

DATE EFFECTIVE November 27, 2019 (Unit 1 December)

ISSUED BY Kimra H Cole

TITLE President & Chief Operating Officer

CURRENTLY EFFECTIVE BILLING RATES

SALES SERVICE	Base Rate Charge $	Gas Cost Adjustment[1/] Demand $	Gas Cost Adjustment[1/] Commodity $	Total Billing Rate[3/] $	
RATE SCHEDULE GSR					
Customer Charge per billing period	16.00			16.00	
Delivery Charge per Mcf	3.5665[3/]	1.1384	3.3396	8.0445	I
RATE SCHEDULE GSO					
Commercial or Industrial					
Customer Charge per billing period	44.69			44.69	
Delivery Charge per Mcf -					
First 50 Mcf or less per billing period	3.0181[3/]	1.1384	3.3396	7.4961	I
Next 350 Mcf per billing period	2.3295[3/]	1.1384	3.3396	6.8075	I
Next 600 Mcf per billing period	2.2143[3/]	1.1384	3.3396	6.6923	I
Over 1,000 Mcf per billing period	2.0143[3/]	1.1384	3.3396	6.4923	I
RATE SCHEDULE IS					
Customer Charge per billing period	2007.00			2007.00	
Delivery Charge per Mcf					
First 30,000 Mcf per billing period	0.6285[3/]		3.3396[2/]	3.9681	I
Next 70,000 Mcf per billing period	0.3737[3/]		3.3396[2/]	3.7133	I
Over 100,000 Mcf per billing period	0.3247[3/]		3.3396[2/]	3.6643	I
Firm Service Demand Charge					
Demand Charge times Daily Firm					
Volume (Mcf) in Customer Service Agreement		6.5417		6.5417	I
RATE SCHEDULE IUS					
Customer Charge per billing period	567.40			567.40	
Delivery Charge per Mcf					
For All Volumes Delivered	1.1544[3/]	1.1384	3.3396	5.6324	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 4.3803 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.

3/ The Delivery Charge will be adjusted at billing by the Tax Act Adjustment Factor set forth on Sheet 7a.

DATE OF ISSUE October 28, 2019

DATE EFFECTIVE November 27, 2019 (Unit 1 December)

ISSUED BY Kimra H Cole

TITLE President & Chief Operating Officer

COLUMBIA GAS OF KENTUCKY, INC.

CURRENTLY EFFECTIVE BILLING RATES
(Continued)

TRANSPORTATION SERVICE	Base Rate Charge $	Gas Cost Adjustment[1/] Demand $	Gas Cost Adjustment[1/] Commodity $	Total Billing Rate[3/] $	
RATE SCHEDULE SS					
Standby Service Demand Charge per Mcf					
Demand Charge times Daily Firm					
Volume (Mcf) in Customer Service Agreement		6.5417		6.5417	I
Standby Service Commodity Charge per Mcf			3.3396	3.3396	I
RATE SCHEDULE DS					
Customer Charge per billing period [2/]				2007.00	
Customer Charge per billing period (GDS only)				44.69	
Customer Charge per billing period (IUDS only)				567.40	
Delivery Charge per Mcf[2/]					
First 30,000 Mcf	0.6285[3/]			0.6285	
Next 70,000 Mcf	0.3737[3/]			0.3737	
Over 100,000 Mcf	0.3247[3/]			0.3247	
– Grandfathered Delivery Service					
First 50 Mcf or less per billing period				3.0181[3/]	
Next 350 Mcf per billing period				2.3295[3/]	
Next 600 Mcf per billing period				2.2143[3/]	
All Over 1,000 Mcf per billing period				2.0143[3/]	
– Intrastate Utility Delivery Service					
All Volumes per billing period				1.1544[3/]	
Banking and Balancing Service					
Rate per Mcf		0.0209		0.0209	R
RATE SCHEDULE MLDS					
Customer Charge per billing period				255.90	
Delivery Charge per Mcf				0.0858	
Banking and Balancing Service					
Rate per Mcf		0.0209		0.0209	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.
3/ The Delivery Charge will be adjusted at billing by the Tax Act Adjustment Factor set forth on Sheet 7a.

DATE OF ISSUE October 28, 2019

DATE EFFECTIVE November 27, 2019 (Unit 1 December)

ISSUED BY Kimmel H. Cole

TITLE President & Chief Operating Officer