

COMPANY NAME: DUKE ENERGY KENTUCKY, INC.
GAS COST ADJUSTMENT CLAUSE RATE CALCULATIONS
SUPPLEMENTAL QUARTERLY REPORT

PARTICULARS	UNIT	AMOUNT
EXPECTED GAS COST (EGC)	\$/MCF	5.486
SUPPLIER REFUND AND RECONCILIATION ADJUSTMENT (RA)	\$/MCF	0.000
ACTUAL ADJUSTMENT (AA)	\$/MCF	0.568
BALANCE ADJUSTMENT (BA)	\$/MCF	(0.020)
GAS COST RECOVERY RATE (GCR) = EGC + RA + AA + BA	\$/MCF	<u>6.034</u>

GAS COST RECOVERY RATE EFFECTIVE DATES: March 3, 2022 THROUGH May 31, 2022

EXPECTED GAS COST CALCULATION

DESCRIPTION	UNIT	AMOUNT
TOTAL EXPECTED GAS COST COMPONENT (EGC)	\$/MCF	5.486

SUPPLIER REFUND AND RECONCILIATION ADJUSTMENT SUMMARY CALCULATION

PARTICULARS	UNIT	AMOUNT
CURRENT QUARTERLY SUPPLIER REFUND & RECONCILIATION ADJUSTMENT	\$/MCF	0.000
PREVIOUS QUARTERLY REPORTED SUPPLIER REFUND & RECONCILIATION ADJUSTMENT	\$/MCF	0.000
SECOND PREVIOUS QUARTERLY REPORTED SUPPLIER REFUND & RECONCILIATION ADJUSTMENT	\$/MCF	0.000
THIRD PREVIOUS QUARTERLY REPORTED SUPPLIER REFUND & RECONCILIATION ADJUSTMENT	\$/MCF	0.000
SUPPLIER REFUND AND RECONCILIATION ADJUSTMENT (RA)	\$/MCF	<u>0.000</u>

ACTUAL ADJUSTMENT SUMMARY CALCULATION

PARTICULARS	UNIT	AMOUNT
CURRENT QUARTERLY ACTUAL ADJUSTMENT	\$/MCF	0.740
PREVIOUS QUARTERLY REPORTED ACTUAL ADJUSTMENT	\$/MCF	0.205
SECOND PREVIOUS QUARTERLY REPORTED ACTUAL ADJUSTMENT	\$/MCF	(0.282)
THIRD PREVIOUS QUARTERLY REPORTED ACTUAL ADJUSTMENT	\$/MCF	(0.095)
ACTUAL ADJUSTMENT (AA)	\$/MCF	<u>0.568</u>

BALANCE ADJUSTMENT SUMMARY CALCULATION

PARTICULARS	UNIT	AMOUNT
CURRENT QUARTERLY ACTUAL ADJUSTMENT	\$/MCF	0.002
PREVIOUS QUARTERLY REPORTED ACTUAL ADJUSTMENT	\$/MCF	(0.012)
SECOND PREVIOUS QUARTERLY REPORTED ACTUAL ADJUSTMENT	\$/MCF	(0.022)
THIRD PREVIOUS QUARTERLY REPORTED ACTUAL ADJUSTMENT	\$/MCF	0.012
BALANCE ADJUSTMENT (BA)	\$/MCF	<u>(0.020)</u>

THIS MONTHLY REPORT FILED PURSUANT TO CASE NO. 2003-00386
OF THE KENTUCKY PUBLIC SERVICE COMMISSION DATED November 6, 2003

DATE FILED: January 28, 2022

BY: SARAH LAWLER

TITLE: VICE PRESIDENT
Rates & Regulatory Strategy - OH/KY

**GAS COST ADJUSTMENT
DUKE ENERGY KENTUCKY
EXPECTED GAS COST RATE CALCULATION (EGC)**

SUMMARY FOR THE EGC RATE IN EFFECT AS OF : MARCH 3, 2022

		\$
<u>DEMAND (FIXED) COSTS:</u>		
Columbia Gas Transmission Corp.		5,173,171
Columbia Gulf Transmission Corp.		1,023,975
Tennessee Gas Pipeline Company, LLC		1,300,785
KO Transmission Company		1,898,986
Texas Gas Transmission, LLC		586,502
Gas Marketers		202,500
TOTAL DEMAND COST:		10,185,919
PROJECTED GAS SALES LESS SPECIAL CONTRACT IT PURCHASES:	9,959,587	MCF
DEMAND (FIXED) COMPONENT OF EGC RATE:	\$10,185,919 /	9,959,587 MCF \$1.023 /MCF
 <u>COMMODITY COSTS:</u>		
Gas Marketers		\$4.230 /MCF
Gas Storage		
Columbia Gas Transmission		\$0.229 /MCF
Propane		\$0.004 /MCF
COMMODITY COMPONENT OF EGC RATE:		\$4.463 /MCF
Other Costs:		
Net Charge Off ⁽¹⁾	\$0 /	1,293,468 \$0.000 /MCF
TOTAL EXPECTED GAS COST:		\$5.486 /MCF

(1) Net Charge Off amount from Case No. 2018-00261 WPD-2.15a, line 6.
The quarterly estimate based on the rate case is immaterial therefore not including in the EGC quarterly estimate.

**GAS COST ADJUSTMENT
DUKE ENERGY KENTUCKY**

DETAILS FOR THE EGC RATE IN EFFECT AS OF : [March 3, 2022](#)

	RATE (\$ DTH)	CONTRACT VOLUME (DTH)	NUMBER OF DAYS/MTHS	EXPECTED GAS COST (\$)
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INTERSTATE PIPELINE : **COLUMBIA GAS TRANSMISSION, LLC**
TARIFF RATE EFFECTIVE DATE : FSS: 12/1/2021
SST: 12/1/2021

BILLING DEMAND - TARIFF RATE - FSS

Max. Daily Withdrawal Quan.	2.4810	39,656	12	1,180,638
Seasonal Contract Quantity	0.0447	1,365,276	12	732,334

BILLING DEMAND - TARIFF RATE - SST

Maximum Daily Quantity	6.4280	39,656	1	254,909
Maximum Daily Quantity	9.4730	19,828 *	6	1,126,984
Maximum Daily Quantity	9.4730	39,656 *	5	1,878,306

CAPACITY RELEASE CREDIT

TOTAL COLUMBIA GAS TRANSMISSION, LLC - DEMAND CHARGES **5,173,171**

INTERSTATE PIPELINE : **COLUMBIA GULF TRANSMISSION CORP.**
TARIFF RATE EFFECTIVE DATE : FTS-1: 08/01/2020

BILLING DEMAND - TARIFF RATE - FTS-1

Maximum Daily Quantity	3.3300	21,000	5	349,650
Maximum Daily Quantity	3.3300	13,500	7	314,685
Maximum Daily Quantity	3.3300	9,000	12	359,640

CAPACITY RELEASE CREDIT FOR FTS-1

0

TOTAL COLUMBIA GULF TRANSMISSION CORP. DEMAND CHARGES **1,023,975**

INTERSTATE PIPELINE : **TENNESSEE GAS PIPELINE COMPANY, LLC**
TARIFF RATE EFFECTIVE DATE : FT-A: 11/1/2020

BILLING DEMAND - TARIFF RATE - FTS-1

Maximum Daily Quantity	2.4821	23,000	1	57,088
Maximum Daily Quantity	4.9158	23,000	11	1,243,697

TOTAL TENNESSEE GAS PIPELINE COMPANY, LLC - DEMAND CHARGES **1,300,785**

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

V.8.
 Currently Effective Rates
 SST Rates
 Version 71.0.0

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	0.277	0.103	0.166	0.00	9.473	0.3115
Maximum	¢	0.62	0.10	0.66	0.00	0.00	1.38	1.38
Minimum	¢	0.62	0.10	0.66	0.00	0.00	1.38	1.38
Overrun 4/								
Maximum	¢	29.97	1.01	1.00	0.55	0.00	32.53	32.53
Minimum	¢	0.62	0.10	0.66	0.00	0.00	1.38	1.38

- 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.

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

V.9.
 Currently Effective Rates
 FSS Rates
 Version 6.0.0

Currently Effective Rates
 Applicable to Rate Schedule FSS
 Rate Per Dth

		Base Tariff Rate 1/2/	Transportation Cost Rate Adjustment Current Surcharge		Electric Power Costs Adjustment Current Surcharge		CCRM-S Rate	Total Effective Rate	Daily Rate
Rate Schedule FSS									
Reservation Charge	\$	2.481	-	-	-	-	0.00	2.481	0.0816
Capacity	¢	4.47	-	-	-	-	0.00	4.47	4.47
Injection	¢	1.53	-	-	-	-	0.00	1.53	1.53
Withdrawal	¢	1.53	-	-	-	-	0.00	1.53	1.53
Overrun	¢	15.69	-	-	-	-	0.00	15.69	15.69

- 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.

RETAINAGE PERCENTAGES

Transportation Retainage	1.608%
Transportation Retainage – FT-C 1/	0.282%
Gathering Retainage	6.000%
Storage Gas Loss Retainage	0.622%
Ohio Storage Gas Loss Retainage	0.037%
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.

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

Rate Schedule FTS-1	<u>Base Rate</u> (1) 1/	<u>Total Effective Rate</u> (2) 1/		<u>Daily Rate</u> (3) 1/
<u>Market Zone</u>				
Reservation Charge				
Maximum	5.049	5.049	Discounted to \$3.33	0.1660
Minimum	0.000	0.000		0.000
Commodity				
Maximum	0.0109	0.0109	ACA	0.0109
Minimum	0.0109	0.0109	+0.0012 =.0121	0.0109
Overrun				
Maximum	0.1769	0.1769		0.1769
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.

Columbia Gas Transmission, LLC
1700 MacCorkle Avenue SE, Charleston, WV 25314



March 28, 2018

Mr. Jeff Kern
Duke Energy Kentucky, Inc.
139 East Fourth Street
Cincinnati, OH 45202

RE: SST Service Agreement No. 79977
Discount Letter Amendment

Dear Mr. Kern:

This letter will serve as an amendment to the SST Service Agreement No. 79977 between Columbia Gas Transmission, LLC (Transporter) and Duke Energy Kentucky, Inc. (Shipper) and supersedes and replaces all prior Discount Letter Amendments. Transporter and Shipper hereby agree that Section 3 of the above-referenced service agreement is amended to provide the following:

1. The rate for service, for the period from 3/01/2018 to 1/31/2019, will include a discounted demand rate of \$4.198, inclusive of all surcharges, for any receipts into Transporter's pipeline system for delivery to the primary delivery point 834696 (KOT DEK MLI) and for delivery to the secondary delivery point STOR (RP Storage Point TCO).
2. The rate for service, for the period from 2/01/2019 to 1/31/2020, will include a discounted demand rate of \$5.653, inclusive of all surcharges, for any receipts into Transporter's pipeline system for delivery to the primary delivery point 834696 (KOT DEK MLI) and for delivery to the secondary delivery point STOR (RP Storage Point TCO).
3. The rate for service, for the period from 2/01/2020 to 1/31/2021, will include a discounted demand rate of \$6.045, inclusive of all surcharges, for any receipts into Transporter's pipeline system for delivery to the primary delivery point 834696 (KOT DEK MLI) and for delivery to the secondary delivery point STOR (RP Storage Point TCO).
4. The rate for service, for the period from 2/01/2021 to 3/31/2022, will include a discounted demand rate of \$6.428, inclusive of all surcharges, for any receipts into Transporter's pipeline system for delivery to the primary delivery point 834696 (KOT DEK MLI) and for delivery to the secondary delivery point STOR (RP Storage Point TCO).
5. The above discounted demand rates will be inclusive of demand surcharges at the rates specified in the currently effective Part V.8. (Currently Effective Rates Applicable to Rate Schedule SST) of Transporter's FERC Gas Tariff as amended from time to time.

6. Except to the extent Federal Energy Regulatory Commission ("FERC") policies, rules and/or regulations, and/or Transporter's FERC Gas Tariff provide otherwise, for service under the above-referenced Service Agreement to secondary delivery points other than STOR, in lieu of the rate set forth above, Transporter will charge and Shipper will pay the then existing maximum Recourse Rate set forth in Transporter's FERC Gas Tariff from time to time.
7. Notwithstanding the foregoing, the charge to be paid by Shipper to Transporter will be no lower than the applicable total effective minimum charges or higher than the applicable total effective maximum charges as set forth in Transporter's FERC Gas Tariff from time to time.
8. The discounted reservation rate will be apportioned in accordance with Section 20 of the General Terms and Conditions of Transporter's FERC Gas Tariff.
9. In addition to the demand charges set forth above, Shipper must pay Transporter all applicable commodity charges, commodity surcharges, overrun charges, gathering charges, and retainage charges set forth in Transporter's FERC Gas Tariff as amended from time to time.
10. In addition to the reservation charges set forth above, for the period from 3/01/2018 through 1/31/2019, Shipper will pay all applicable Capital Cost Recovery Mechanism ("CCRM") charges.
11. Shipper will have a contractual right of first refusal ("ROFR") under the referenced agreement if it does not qualify for the regulatory ROFR set forth in Section 4 of the General Terms and Conditions of Transporter's FERC Gas Tariff.

If you are in agreement with the above amendment, please execute both originals of this letter and return one to Transporter at the above address, Attention: Jackie Sydnor, 2nd floor.

Executed and agreed to this 9th day of April, 2018.

DUKE ENERGY KENTUCKY, INC.

By: [Signature]
Its: Sr VP and Chief Commercial Officer

COLUMBIA GAS TRANSMISSION, LLC

By: [Signature]
James R. Eckert
Vice President

LEGAL
<u>CRH</u> 3/15/18
DATE
DATE

JE



700 Louisiana Street, Suite 700
Houston, TX 77002

August 7, 2019

Duke Energy Kentucky, Inc.
139 East Fourth Street
Cincinnati, OH 45202

RE: FTS-1 Service Agreement No. 79970 Revision 4
Discount Letter Amendment

Dear Joanna:

This letter will serve as an amendment to the FTS-1 Service Agreement No. 79970 Revision 4 between Columbia Gulf Transmission, LLC (Transporter) and Duke Energy Kentucky, Inc. (Shipper). Transporter and Shipper hereby agree that Section 3 of the above-referenced Service Agreement is amended to provide the following:

Terms. Shipper agrees to pay the discounted reservation rate(s), inclusive of reservation surcharges, for the term(s) and point(s) specified below.

Effective from November 1, 2019 through October 31, 2024 for a Transportation Demand of 21,000 (11/1 to 3/31) and a Transportation Demand of 13,500 (4/1 to 10/31):

Receipt Point	Receipt Point Name	Receipt Point Type	Delivery Point	Delivery Point Name	Delivery Point Type	Maximum Daily Discounted Quantity 1/	Monthly Reservation Charge
2700010	RAYNE	Primary	MEANS	MEANS	Primary		\$ 3.33
MRMNL	MAINLINE POOL	Secondary	MEANS	MEANS	Primary		\$ 3.33

1/ Maximum Daily Discounted Quantity shall receive the discounted reservation rate up to the indicated volume only. Any quantity transported above the Maximum Daily Discounted Quantity shall be charged the currently effective maximum reservation rate as set forth in Transporter's FERC Gas Tariff.

Service from any other secondary receipt points to any other secondary delivery points will be charged the then-existing maximum reservation rate set forth in Transporter's FERC Gas Tariff.

Apportionment of Discounts. The discounted reservation rate will be apportioned in accordance with Section 20 of the General Terms and Conditions of Transporter's FERC Gas Tariff.

Other Charges. In addition to the reservation charge(s) set forth above, Shipper must pay Transporter all applicable charges and surcharges in the Transporter's FERC Gas Tariff, as amended from time to time, including, but not limited to, commodity charges, overrun charges and retainage charges.

Compliance with Tariff. Notwithstanding the foregoing, the charge to be paid by Shipper to Transporter will be no lower than the applicable total effective minimum charges or higher than the applicable total effective maximum charges as set forth in Transporter's FERC Gas Tariff from time to time.


Executed and agreed to this 17 day of October, 2019.

COLUMBIA GULF TRANSMISSION,
LLC

DUKE ENERGY KENTUCKY, INC.



By Carol Welham

By Bone Birdley 

Its Manager Transportation Contracts

Its VP Regulatory + Community Relations

Date: 10-17-19

Date: 10/16/2019



700 Louisiana Street, Suite 700
Houston, TX 77002

August 7, 2019

Duke Energy Kentucky, Inc.
139 East Fourth Street
Cincinnati, OH 45202

RE: FTS-1 Service Agreement No. 154404 Revision 1
Discount Letter Amendment

Dear Joanna:

This letter will serve as an amendment to the FTS-1 Service Agreement No. 154404 Revision 1 between Columbia Gulf Transmission, LLC (Transporter) and Duke Energy Kentucky, Inc. (Shipper). Transporter and Shipper hereby agree that Section 3 of the above-referenced Service Agreement is amended to provide the following:

Terms. Shipper agrees to pay the discounted reservation rate(s), inclusive of reservation surcharges, for the term(s) and point(s) specified below.

Effective from November 1, 2019 through October 31, 2024 for a Transportation Demand of 9,000:

Receipt Point	Receipt Point Name	Receipt Point Type	Delivery Point	Delivery Point Name	Delivery Point Type	Maximum Daily Discounted Quantity 1/	Monthly Reservation Charge
801	LEACH	Primary	MEANS	MEANS	Primary		\$ 3.33
MRMNLP	MAINLINE POOL	Secondary	MEANS	MEANS	Primary		\$ 3.33

1/ Maximum Daily Discounted Quantity shall receive the discounted reservation rate up to the indicated volume only. Any quantity transported above the Maximum Daily Discounted Quantity shall be charged the currently effective maximum reservation rate as set forth in Transporter's FERC Gas Tariff.

Service from any other secondary receipt points to any other secondary delivery points will be charged the then-existing maximum reservation rate set forth in Transporter's FERC Gas Tariff.

Apportionment of Discounts. The discounted reservation rate will be apportioned in accordance with Section 20 of the General Terms and Conditions of Transporter's FERC Gas Tariff.

Other Charges. In addition to the reservation charge(s) set forth above, Shipper must pay Transporter all applicable charges and surcharges in the Transporter's FERC Gas Tariff, as amended from time to time, including, but not limited to, commodity charges, overrun charges and retainage charges.

Compliance with Tariff. Notwithstanding the foregoing, the charge to be paid by Shipper to Transporter will be no lower than the applicable total effective minimum charges or higher than the applicable total effective maximum charges as set forth in Transporter's FERC Gas Tariff from time to time.

Executed and agreed to this 17 day of October, 2019.

COLUMBIA GULF TRANSMISSION,
LLC

By Carl Wellman
Its Manager Transportation Contracts
Date: 10-17-19

DUKE ENERGY KENTUCKY, INC.

By Bruce Burdley
Its VP Regulatory & Community Relations
Date: 10/16/2019

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GSTR
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Service Agreement No. 79976

Revision No. 4

FSS SERVICE AGREEMENT

THIS AGREEMENT is made and entered into this 22nd day of October, 2021, by and between COLUMBIA GAS TRANSMISSION, LLC ("Transporter") and DUKE ENERGY KENTUCKY, INC. ("Shipper").

WITNESSETH: That in consideration of the mutual covenants herein contained, the parties hereto agree as follows:

Section 1. Service to be Rendered. Transporter shall perform and Shipper shall receive service in accordance with the provisions of the effective FSS Rate Schedule and applicable General Terms and Conditions of Transporter's FERC Gas Tariff, Fourth Revised Volume No. 1 ("Tariff"), on file with the Federal Energy Regulatory Commission ("Commission"), as the same may be amended or superseded in accordance with the rules and regulations of the Commission. Transporter shall store quantities of gas for Shipper up to but not exceeding Shipper's Storage Contract Quantity as specified in Appendix A, as the same may be amended from time to time by agreement between Shipper and Transporter, or in accordance with the rules and regulations of the Commission.

Section 2. Term. Service under this Agreement shall commence as of April 1, 2022, and shall continue in full force and effect until March 31, 2025. Pre-granted abandonment shall apply upon termination of this Agreement, subject to any right of first refusal Shipper may have under the Commission's regulations and Transporter's Tariff.

Section 3. Rates. Shipper shall pay Transporter the charges and furnish the Retainage as described in the above-referenced Rate Schedule, unless otherwise agreed to by the parties in writing and specified as an amendment to this Service Agreement. Transporter may agree to discount its rate to Shipper below Transporter's maximum rate, but not less than Transporter's minimum rate. Such discounted rate may apply to: (a) specified quantities (contract demand or commodity quantities); (b) specified quantities above or below a certain level or all quantities if quantities exceed a certain level; (c) quantities during specified time periods; (d) quantities at specified points, locations, or other defined geographical areas; (e) that a specified discounted rate will apply in a specified relationship to the quantities actually transported (i.e., that the reservation charge will be adjusted in a specified relationship to quantities actually transported); (f) production and/or reserves committed by the Shipper; and (g) based on a formula including, but not limited to, published index prices for specific receipt and/or delivery points or other agreed-upon pricing points, provided that the resulting rate shall be no lower than the minimum nor higher than the maximum applicable rate set forth in the Tariff. In addition, the discount agreement may include a provision that if one rate component which was at or below the applicable maximum rate at the time the discount agreement was executed subsequently exceeds the applicable maximum rate due to a change in Transporter's maximum rate so that such rate component must be adjusted downward to equal the new applicable maximum rate, then other rate components may be adjusted upward to achieve the agreed overall rate, so long as none of the resulting rate components exceed the maximum rate applicable to that rate component. Such changes to rate components shall be applied prospectively, commencing with the date a Commission order accepts revised tariff sections. However, nothing contained herein shall be construed to alter a refund obligation under applicable law for any period during which rates, which had been charged under a discount agreement, exceeded rates which ultimately are found to be just and reasonable.

Section 4. Notices. Notices to Transporter under this Agreement shall be addressed to it at 700 Louisiana St., Suite 700, Houston, Texas 77002-2700, Attention: Customer Services and notices to Shipper shall be addressed to it at Duke Energy Kentucky, Inc., 139 East Fourth Street, P. O. Box 960, Cincinnati, OH 45202, Attention: Jeff Kern, until changed by either party by written notice.

Section 5. Superseded Agreements. This Service Agreement supersedes and cancels, as of the effective date hereof, the following Service Agreement(s): FSS No. 79976, Revision No. 3.

DUKE ENERGY KENTUCKY, INC.

By Bruce P Bardsley
Title VP Rates + Gas Supply
Date 10-21-2021

COLUMBIA GAS TRANSMISSION, LLC

By Kay Dennison
Title Director, Trans. Acct. & Contracts
Date October 22, 2021

Revision No. 4

**Appendix A to Service Agreement No. 79976
Under Rate Schedule FSS
between Columbia Gas Transmission, LLC ("Transporter")
and Duke Energy Kentucky, Inc. ("Shipper")**

<u>Begin Date</u>	<u>End Date</u>	<u>Storage Contract Quantity (Dth)</u>	<u>Maximum Daily Storage Quantity (Dth/day)</u>
April 1, 2022	March 31, 2025	1,365,276	39,656

Yes No (Check applicable blank) Transporter and Shipper have mutually agreed to a Regulatory Restructuring Reduction Option pursuant to Section 42 of the General Terms and Conditions of Transporter's FERC Gas Tariff.

Yes No (Check applicable blank) Shipper has a contractual right of first refusal equivalent to the right of first refusal set forth from time to time in Section 4 of the General Terms and Conditions of Transporter's FERC Gas Tariff.

Yes No (Check applicable blank) This Service Agreement covers interim capacity sold pursuant to the provisions of General Terms and Conditions Section 4. Right of first refusal rights, if any, applicable to this interim capacity are limited as provided for in General Terms and Conditions Section 4.

Yes No (Check applicable blank) This Service Agreement covers offsystem capacity sold pursuant to section 47 of the General Terms and Conditions. Right of first refusal rights, if any, applicable to this offsystem capacity are limited as provided for in General Terms and Conditions Section 47.

DUKE ENERGY KENTUCKY, INC.

By Bruce P. Bardley
 Title VP Rates & Gas Supply
 Date 10-21-2021

COLUMBIA GAS TRANSMISSION, LLC

By Kay Dennison
 Title Director, Trans. Acct. & Contracts
 Date October 22, 2021

Service Agreement No. 79977

Revision No. 7

SST SERVICE AGREEMENT

THIS AGREEMENT is made and entered into this 22nd day of October, 2021, by and between COLUMBIA GAS TRANSMISSION, LLC ("Transporter") and DUKE ENERGY KENTUCKY, INC. ("Shipper").

WITNESSETH: That in consideration of the mutual covenants herein contained, the parties hereto agree as follows:

Section 1. Service to be Rendered. Transporter shall perform and Shipper shall receive service in accordance with the provisions of the effective SST Rate Schedule and applicable General Terms and Conditions of Transporter's FERC Gas Tariff, Fourth Revised Volume No. 1 ("Tariff"), on file with the Federal Energy Regulatory Commission ("Commission"), as the same may be amended or superseded in accordance with the rules and regulations of the Commission. The maximum obligation of Transporter to deliver gas hereunder to or for Shipper, the designation of the points of delivery at which Transporter shall deliver or cause gas to be delivered to or for Shipper, and the points of receipt at which Shipper shall deliver or cause gas to be delivered, are specified in Appendix A, as the same may be amended from time to time by agreement between Shipper and Transporter, or in accordance with the rules and regulations of the Commission.

Section 2. Term. Service under this Agreement shall commence as of April 1, 2022, and shall continue in full force and effect until March 31, 2025. Pre-granted abandonment shall apply upon termination of this Agreement, subject to any right of first refusal Shipper may have under the Commission's regulations and Transporter's Tariff.

Section 3. Rates. Shipper shall pay Transporter the charges and furnish Retainage as described in the above-referenced Rate Schedule, unless otherwise agreed to by the parties in writing and specified as an amendment to this Service Agreement. Transporter may agree to discount its rate to Shipper below Transporter's maximum rate, but not less than Transporter's minimum rate. Such discounted rate may apply to: (a) specified quantities (contract demand or commodity quantities); (b) specified quantities above or below a certain level or all quantities if quantities exceed a certain level; (c) quantities during specified time periods; (d) quantities at specified points, locations, or other defined geographical areas; (e) that a specified discounted rate will apply in a specified relationship to the quantities actually transported (i.e., that the reservation charge will be adjusted in a specified relationship to quantities actually transported); (f) production and/or reserves committed by the Shipper; and (g) based on a formula including, but not limited to, published index prices for specific receipt and/or delivery points or other agreed-upon pricing points, provided that the resulting rate shall be no lower than the minimum nor higher than the maximum applicable rate set forth in the Tariff. In addition, the discount agreement may include a provision that if one rate component which was at or below the applicable maximum rate at the time the discount agreement was executed subsequently exceeds the applicable maximum rate due to a change in Transporter's maximum rate so that such rate component must be adjusted downward to equal the new applicable maximum rate, then other rate components may be adjusted upward to achieve the agreed overall rate, so long as none of the resulting rate components exceed the maximum rate applicable to that rate component. Such changes to rate components shall be applied prospectively, commencing with the date a Commission order accepts revised tariff sections. However, nothing contained herein shall be construed to alter a refund obligation under applicable law for any period during which rates, which had been charged under a discount agreement, exceeded rates which ultimately are found to be just and reasonable.

Section 4. Notices. Notices to Transporter under this Agreement shall be addressed to it at 700 Louisiana St., Suite 700, Houston, Texas 77002-2700, Attention: Customer Services and notices to Shipper shall be

addressed to it at Duke Energy Kentucky, Inc., 139 East Fourth Street, P. O. Box 960, Cincinnati, OH 45202, Attention: Jeff Kern, until changed by either party by written notice.

Section 5. Superseded Agreements. This Service Agreement supersedes and cancels, as of the effective date hereof, the following Service Agreement(s): SST No. 79977, Revision No. 6.

DUKE ENERGY KENTUCKY, INC.

By Bruce P Barbisley
Title VP-Rates + Gas Supply
Date 10-21-2021

COLUMBIA GAS TRANSMISSION, LLC

DocuSigned by:
By Kay Dennison
Title Director, Trans. Acct. & Contracts
Date October 22, 2021

Revision No. 7

Appendix A to Service Agreement No. 79977
Under Rate Schedule SST
between Columbia Gas Transmission, LLC ("Transporter")
and Duke Energy Kentucky, Inc. ("Shipper").

Transportation Demand

<u>Begin Date</u>	<u>End Date</u>	<u>Transportation Demand Dth/day</u>	<u>Recurrence Interval</u>
04/01/2022	03/31/2025	39,656	10/1 - 3/31
04/01/2022	03/31/2025	19,828	4/1 - 9/30

Primary Receipt Points

<u>Begin Date</u>	<u>End Date</u>	<u>Scheduling Point No.</u>	<u>Scheduling Point Name</u>	<u>Maximum Daily Quantity (Dth/day)</u>	<u>Recurrence Interval</u>
04/01/2022	03/31/2025	STOR	RP Storage Point TCO	39,656	10/1 - 3/31
04/01/2022	03/31/2025	STOR	RP Storage Point TCO	19,828	4/1 - 9/30

Primary Delivery Points

<u>Begin Date</u>	<u>End Date</u>	<u>Scheduling Point No.</u>	<u>Scheduling Point Name</u>	<u>Measuring Point No.</u>	<u>Measuring Point Name</u>	<u>Maximum Daily Delivery Obligation (Dth/day) 1/</u>	<u>Design Daily Quantity (Dth/day) 1/</u>	<u>Minimum Delivery Pressure Obligation (psig) 1/</u>	<u>Recurrence Interval</u>
04/01/2022	03/31/2025	834696	KOT MLI	834696	KOT MLI	39,656		402	10/1 - 3/31
04/01/2022	03/31/2025	834696	KOT MLI	834696	KOT MLI	19,828		402	4/1 - 9/30

1/ Application of MDDOs, DDQs and ADQs, minimum pressure and/or hourly flowrate shall be as follows:

Transporter will provide to Duke Energy Ohio, Inc., Duke Energy Kentucky, Inc., and KO Transmission Company, a combined total hourly flow rate of up to 23,101 Dth per hour at the Foster Measurement and Regulator Station (842711 and 842712). Transporter agrees to maintain a total hourly flow rate of up to 23,101 Dth per hour so long as the sum of the firm entitlements of Duke Energy Ohio, Inc., Duke Energy Kentucky, Inc., and KO Transmission Company for deliveries in Transporter's Operating Area 6 remains at 514,161 Dth per day.

The Master List of Interconnects ("MLI") as defined in Section 1 of the General Terms and Conditions of Transporter's FERC Gas Tariff is incorporated herein by reference for purposes of listing valid secondary interruptible receipt and delivery points.

Yes No (Check applicable blank) Transporter and Shipper have mutually agreed to a Regulatory Restructuring Reduction Option pursuant to Section 42 of the General Terms and Conditions of Transporter's FERC Gas Tariff.

Yes No (Check applicable blank) Shipper has a contractual right of first refusal equivalent to the right of first refusal set forth from time to time in Section 4 of the General Terms and Conditions of Transporter's FERC Gas Tariff.

Yes No (Check applicable blank) The MDDOs, ADQs, and/or DDQs set forth in Appendix A to Shipper's _____ Service Agreement No. _____ are incorporated herein by reference.

Yes No (Check applicable blank) This Service Agreement covers interim capacity sold pursuant to the provisions of General Terms and Conditions Section 4. Right of first refusal rights, if any, applicable to this interim capacity are limited as provided for in General Terms and Conditions Section 4.

Yes No (Check applicable blank) This Service Agreement covers offsystem capacity sold pursuant to Section 47 of the General Terms and Conditions. Right of first refusal rights, if any, applicable to this offsystem capacity are limited as provided for in General Terms and Conditions Section 47.

DUKE ENERGY KENTUCKY, INC.

By Bruce P. Bardley
Title VP - Rates + Gas Supply
Date 10-21-2021

COLUMBIA GAS TRANSMISSION, LLC

By Kay Dennison
Title Director, Trans. Acct. & Contracts
Date October 22, 2021

DocuSigned by:

Kay Dennison

6F63B728-2137-4BC0-8651-1A06461A0FC3

Tennessee Gas Pipeline Company, L.L.C.
 FERC NGA Gas Tariff
 Sixth Revised Volume No. 1

Contract is at a discounted rate - see contracts below

Nineteenth Revised Sheet No. 14
 Superseding
 Eighteenth Revised Sheet No. 14

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	\$0.1561		\$0.3262	\$0.4388	\$0.4466	\$0.4907	\$0.5209	\$0.6535
	L		\$0.1386						
	1	\$0.2350		\$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.



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

April 6, 2021

Duke Energy Kentucky, Inc.
139 East Fourth Street
Cincinnati, OH 45202

Attention: Jeff Patton

RE: Discounted Rate Agreement ("Letter Agreement")
Rate Schedule FT-A Service Package No. 321247

Dear Jeff:

In response to the request of Duke Energy Kentucky, Inc. ("Shipper") and pursuant to Section 5.1 Rate Schedule FT-A of Tennessee Gas Pipeline Company L.L.C.'s ("Transporter") FERC Gas Tariff, as may be amended from time to time ("Tariff"), Transporter hereby agrees to adjust its then applicable Rate Schedule FT-A transportation rates for service provided under the above-referenced gas transportation agreement as follows:

1. a) If Shipper attempts to apply this Discounted Rate Agreement to any volumes and/or to any points not eligible for the discount and thereby fails to pay correctly invoiced and undisputed amounts, then, if such failure is not cured within thirty days of provision of notice by Transporter to Shipper of such failure, Transporter shall have the right, in its sole discretion, to immediately terminate this Discounted Rate Agreement with Shipper and/or to assess, from the date of such violation of the terms of this Discounted Rate Agreement, the applicable Base Rate on all transactions occurring under the Service Package for the month(s) in which such limits were exceeded.
- b) For the period commencing April 1, 2022, and extending through March 31, 2025, for gas delivered by on behalf of Shipper to any Zone 2 delivery point under the above referenced gas transportation agreement, the applicable Rate Schedule FT-A rates for volumes received by Transporter from any receipt meter in Zone L/1 or Zone 2 will be the lesser of: a monthly reservation rate equal to (a) **\$4.867** per Dth or (b) Transporter's applicable Base Reservation Rate.

In addition, Shipper shall pay a daily commodity rate of Transporter's applicable Base Commodity Rate. Shipper shall also pay ACA, applicable Fuel and Loss Retention (F&LR) and Electric Power Cost Recovery (EPCR) charges and all applicable surcharges specified in Transporter's Tariff.

- c) Receipts from and/or deliveries to points other than those listed above during the term of this Discounted Rate Agreement shall result in Shipper being assessed Transporter's Base Reservation Rate under Rate Schedule FT-A applicable to the primary path divided by the number of days in the month for the entire gas transportation agreement TQ on the day(s) of such deliveries and Transporter's applicable daily Base Commodity Rates under Rate Schedule FT-A as well as the applicable F&LR and EPCR charges and all applicable surcharges under Rate Schedule FT-A.

Discount Rate Effective 4/1/22 4.867
Greenhouse Gas .0488
4.9158



January 30, 2019

Duke Energy Kentucky, Inc. 139 East Fourth Street Cincinnati, OH 45202

Attention: Gennifer Raney

RE: Discounted Rate Agreement ("Letter Agreement") Amendment No. 1 to Gas Transportation Agreement Dated November 1, 2016 Service Package No. 321247-FTATGP

Dear Gennifer:

In response to the request of Duke Energy Kentucky, Inc. ("Shipper") and pursuant to Section 5.1 Rate Schedule FT-A of Tennessee Gas Pipeline Company L.L.C.'s ("Transporter") FERC Gas Tariff, as may be amended from time to time ("Tariff"), Transporter hereby agrees to adjust its then applicable Rate Schedule FT-A transportation rates for service provided under the above-referenced gas transportation agreement as follows:

- 1. a) If Shipper attempts to apply this Discounted Rate Agreement to any volumes and/or to any points not eligible for the discount and thereby fails to pay correctly invoiced and undisputed amounts, then, if such failure is not cured within thirty days of provision of notice by Transporter to Shipper of such failure, Transporter shall have the right, in its sole discretion, to immediately terminate this Discounted Rate Agreement with Shipper and/or to assess, from the date of such violation of the terms of this Discounted Rate Agreement, the applicable Base Rate on all transactions occurring under the Service Package for the month(s) in which such limits were exceeded. b) For the period commencing April 1, 2019, and extending through March 31, 2022, for gas delivered by on behalf of Shipper to any Zone 2 delivery point under the above referenced gas transportation agreement, the applicable Rate Schedule FT-A rates for volumes received by Transporter from any receipt meter in Zone L/1 or Zone 2 will be the lesser of: a monthly reservation rate equal to (a) \$2.4333 per Dth or (b) Transporter's applicable Base Reservation Rate.

In addition, Shipper shall pay a daily commodity rate of Transporter's applicable Base Commodity Rate. Shipper shall also pay ACA, applicable Fuel and Loss Retention (F&LR) and Electric Power Cost Recovery (EPCR) charges and all applicable surcharges specified in Transporter's Tariff.

- c) Receipts from and/or deliveries to points other than those listed above during the term of this Discounted Rate Agreement shall result in Shipper being assessed Transporter's Base Reservation Rate under Rate Schedule FT-A applicable to the primary path divided by the number of days in the month for the entire gas transportation agreement TQ on the day(s) of such deliveries and Transporter's

Discount Rate 2.433
GHG .0488
Total 2.4821 thru 3/31/21

**GAS COST ADJUSTMENT
DUKE ENERGY KENTUCKY**

DETAILS FOR THE EGC RATE IN EFFECT AS OF : March 3, 2022

	RATE (\$ DTH)	CONTRACT VOLUME (DTH)	NUMBER OF DAYS/MTHS	EXPECTED GAS COST (\$)
INTERSTATE PIPELINE : KO TRANSMISSION COMPANY				
TARIFF RATE EFFECTIVE DATE :	4/1/2020			
<u>BILLING DEMAND - TARIFF RATE - FT</u>				
Maximum Daily Quantity	2.1979	72,000	12	1,898,986
CAPACITY RELEASE CREDIT				0
TOTAL KO TRANSMISSION CO. DEMAND CHARGES				1,898,986
INTERSTATE PIPELINE : TEXAS GAS TRANSMISSION				
TARIFF RATE EFFECTIVE DATE :	11/1/2021 to 10/31/2024			
<u>BILLING DEMAND - TARIFF RATE - FT</u>				
Maximum Daily Quantity	0.2250	14,000	151	475,650
Maximum Daily Quantity	0.1400	3,700	214	110,852
CAPACITY RELEASE CREDIT				0
TOTAL TEXAS GAS TRANSMISSION DEMAND CHARGES				586,502
GAS MARKETERS FIXED CHARGES				
December - February	0.0500	4,050,000		202,500
TOTAL GAS MARKETERS FIXED CHARGES				202,500

KO Transmission Company, Tariffs, Rate Schedules and Service Agreements			
Filing Category:	Amendment	Filing Date:	03/06/2020
FERC Docket:	RP20-00635-001	FERC Action:	Accept
FERC Order:	Delegated Letter Order	Order Date:	
	03/25/2020		
Effective Date:	04/01/2020	Status:	Effective
Part 3, Currently Effective Rates, 20.0.0			

**CURRENTLY EFFECTIVE RATES
APPLICABLE TO RATE SCHEDULES FTS AND ITS**

RATE LEVELS - RATE PER DTH

From February 1, 2017 to January 31, 2018 ("Period 1"):

	Base Tariff Rate^{1/}
RATE SCHEDULE FTS	
Reservation Charge ^{2/}	
Maximum	\$2.1280
Daily Rate - Maximum	\$0.0700
Commodity	
Maximum	\$0.0000
Minimum	\$0.0000
Overrun	\$0.0700

From February 1, 2018 to January 31, 2019 ("Period 2"):

	Base Tariff Rate^{1/}
RATE SCHEDULE FTS	
Reservation Charge ^{2/}	
Maximum	\$2.2496
Daily Rate - Maximum	\$0.0740
Commodity	
Maximum	\$0.0000
Minimum	\$0.0000
Overrun	\$0.0740

From February 1, 2019 to January 31, 2019 ("Period 3"):

	Base Tariff Rate^{1/}
RATE SCHEDULE FTS	
Reservation Charge ^{2/}	
Maximum	\$2.2496
Daily Rate - Maximum	\$0.0740
Commodity	
Maximum	\$0.0000
Minimum	\$0.0000
Overrun	\$0.0740

From January 1, 2020 until new generally applicable rates become effective ("Final Daily Recourse Reservation Rate"):

	Base Tariff Rate¹¹
RATE SCHEDULE FTS	
Reservation Charge ^{2/}	
Maximum	\$2.1979
Daily Rate - Maximum	\$0.0723
Commodity	
Maximum	\$0.0000
Minimum	\$0.0000
Overrun	\$0.0723

$\$0.0000 + \$0.0012 = \$0.0012$

RATE SCHEDULE ITS

The daily reservation rates specified above are also applicable to ITS and overrun volumes.

^{1/} ACA assessed where applicable pursuant to Section 154.402 of the Commission's regulations and will be charged pursuant to Section 23 of the General Terms and Conditions at such time that initial and successive annual ACA assessments applicable to Transporter are made and posted on the Commission's website (<<http://www.ferc.gov>>).

^{2/} Minimum reservation charge is \$0.00.



610 West 2nd Street
P.O. Box 20008
Owensboro, KY 42304-0008
270/926-8686

November 20, 2020

Jeff Patton
Duke Energy Kentucky, Inc.
139 E 4th St EX 460
Cincinnati, OH 45022

Re: Discounted Rates Letter Agreement to
STF Service Agreement No. 37260
between TEXAS GAS TRANSMISSION, LLC and
DUKE ENERGY KENTUCKY, INC.
dated July 19, 2018

Dear Jeff:

This Discounted Rates Letter Agreement (“Agreement”) specifies additional terms and conditions applicable to the referenced Firm Service Agreement (“Contract”) between Texas Gas Transmission, LLC (“Texas Gas”) and Duke Energy Kentucky, Inc. (“Customer”). This Agreement is subject to all applicable Federal Energy Regulatory Commission (“FERC”) regulations. In the event the language of this Agreement conflicts with the Contract, the language of this Agreement will control. In the event the language of this Agreement conflicts with Texas Gas’ FERC Gas Tariff currently in effect or any superseding tariff (“Tariff”), the language of the Tariff will control.

1. Texas Gas shall provide primary firm service under the Agreement from Primary Receipt Point(s) to the Primary Delivery Point(s) listed in the attached Exhibit A. The rates charged for this service also shall be set forth in Exhibit A.

(a) The Maximum Contract Quantity(ies) for this Agreement shall be: 14,000 MMBtu per day each winter
3,700 MMBtu per day each summer

(b) In addition to the rate(s) set forth in Exhibit A, Texas Gas shall charge and Customer shall pay all other applicable charges, including but not limited to surcharges, Texas Gas is authorized to charge pursuant to its Tariff.

2. The rates in Exhibit A are applicable only for primary firm transportation service utilizing the Eligible Primary Point(s) specifically listed on Exhibit A, up to Customer’s Maximum Contract Quantity. The rates in Exhibit B are applicable only for transportation service utilizing the eligible secondary point(s) specifically listed on Exhibit B. If Customer utilizes any other receipt or delivery point, then the applicable maximum rate(s), including all other applicable charges Texas Gas is authorized to charge pursuant to its Tariff, shall apply unless the parties amend Exhibits A and/or B in writing or execute a separate rate agreement, pursuant to the requirements of the Tariff and prior to nomination, to include such transportation service. If Customer or its Replacement Shipper(s) deliver gas to a point not listed on Exhibit A or B, Customer or its Replacement Shipper(s) shall pay the maximum applicable rate for the quantity delivered to such point(s), up to Customer’s or its Replacement Shipper’s(s’) Maximum Contract Quantity.

3. This Agreement shall be effective beginning November 1, 2021 and shall continue in full force and effect through October 31, 2026.

4. All rates and services described in this Agreement are subject to the terms and conditions of Texas Gas’ Tariff. Texas Gas shall have no obligation to make refunds to Customer unless the maximum rate ultimately established by the FERC for any service described herein is less than the rate paid by Customer under this Agreement. Texas Gas shall have the unilateral right to file with the appropriate regulatory authority and make changes effective

in the filed rates, charges, and services in Texas Gas' Tariff, including both the level and design of such rates, charges and services and the general terms and conditions therein.

5. Except as otherwise provided in the FERC's regulations, this Agreement may not be assigned without the express written consent of the other party. Any assignment shall be in accordance with the Tariff and FERC regulations. Such consent shall not be unreasonably withheld. Any assignment made in contravention of this paragraph shall be void at the option of the other party. If such consent is given, this Agreement shall be binding upon and inure to the benefit of the parties and their successors and assigns.

6. In the event any provision of this Agreement is held to be invalid, illegal or unenforceable by any court, regulatory agency, or tribunal of competent jurisdiction, the validity, legality, and enforceability of the remaining provisions, terms or conditions shall not in any way be affected or impaired thereby, and the term, condition, or provision which is held illegal or invalid shall be deemed modified to conform to such rule of law, but only for the period of time such order, rule, regulation, or law is in effect.

7. THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED UNDER THE LAWS OF THE COMMONWEALTH OF KENTUCKY, EXCLUDING ANY PROVISION WHICH WOULD DIRECT THE APPLICATION OF THE LAWS OF ANOTHER JURISDICTION.

If Customer agrees with the terms and conditions, please so indicate by signing in the appropriate spaces provided below and returning to Texas Gas.

Very truly yours,

TEXAS GAS TRANSMISSION, LLC

DS Signature: John Haynes Date: 12/1/2020 | 10:51:43 AM CST
E3B6BF22BE3C465...
 Name: John Haynes Title: Chief Commercial officer

DS Duke Energy Kentucky, Inc. Signature: Bruce P. Barkley Date: 11/24/2020 | 11:54:24 AM CST
D9C47B7CCB0A410...
DS Name: Bruce P. Barkley Title: VP-Rates and Gas Supply

DS
pk

Rate Schedule STF
Agreement/Contract No. 37260
Dated: July 19, 2018

Discounted Rates Letter Agreement dated November 20, 2020
Effective: **November 1, 2021**

EXHIBIT A

Eligible Primary Receipt Point(s)

All effective primary receipt point(s) listed under the Contract

Eligible Primary Delivery Point(s)

<u>Meter Name</u>	<u>Meter No.</u>	<u>Zone</u>
Duke Energy-Kentucky Shipper DE	1872	4

Rate(s)

The following rates shall be applicable to any transaction utilizing (i) an Eligible Primary Receipt Point(s) or Eligible Secondary Receipt Point(s); and (ii) an Eligible Primary Delivery Point(s) or Eligible Secondary Delivery Point(s).

Demand: **\$0.2250** per MMBtu/day– each winter
\$0.1400 per MMBtu/day – each summer

Commodity: **\$0.03** per MMBtu plus applicable surcharges and fuel retention

Any discounted rates listed on this Exhibit A shall apply only to transactions transporting from a receipt point listed above to a delivery point listed above. To the extent Customer and/or its replacement customer delivers gas quantities greater than the contract demand on any day and such deliveries are not daily overrun quantities, then Customer shall pay (i) the applicable maximum demand rate on the entire contract demand for that day; and (ii) for all other charges, the maximum applicable rate on all allocated volumes for that day.

FEDERAL ENERGY REGULATORY COMMISSION
WASHINGTON, D.C. 20426

FY 2021 GAS ANNUAL CHARGES
CORRECTION FOR ANNUAL CHARGES UNIT CHARGE
June 16, 2021

The annual charges unit charge (ACA) to be applied to in fiscal year 2022 for recovery of FY 2021 Current year and 2020 True-Up is **\$0.0012** per Dekatherm (Dth). The new ACA surcharge will become effective October 1, 2021.

The following calculations were used to determine the FY 2021 unit charge:

2021 CURRENT:

Estimated Program Cost \$73,470,000 divided by 61,333,716,267 Dth = 0.0011978730

2020 TRUE-UP:

Debit/Credit Cost (\$1,115,938) divided by 60,594,054,316 Dth = (0.0000184166)

TOTAL UNIT CHARGE = 0.0011794564

If you have any questions, please contact Raven A. Rodriguez at (202)502-6276 or e-mail at Raven.Rodriguez@ferc.gov.

PUBLIC



TRANSACTION
CONFIRMATION FOR
IMMEDIATE DELIVERY

Print Date/Time: 11/17/2021 1:19:03 PM
Transaction Date: 11/16/2021
Confirmation #: 271757

This Transaction Confirmation is subject to the Base Contract between Seller and Buyer dated 9/15/2014. The terms of this Transaction Confirmation are binding unless disputed in writing within 2 Business Days of receipt unless otherwise specified in the Base Contract.

Seller:	United Energy Trading, LLC	Buyer:	Duke Energy Kentucky, Inc.
	225 Union Blvd.		4720 Piedmont Row Dr.
	Suite 200		
	Lakewood, CO 80228		Charlotte, North Carolina 28210
Attn:	Jennifer Williams	Attn:	Middle Office
Phone:	303-991-3905	Phone:	704-731-4903
Fax:	303-991-0988	Fax:	866-682-1118
Email:	Natgasconfirms@uetllc.com	Email:	middleoffice@duke-energy.com

Transporter: KO Transmission
Delivery Points: CGT/KO MEANS - MEANS
Contract Price (USD): [GDD - Tennessee, LA 800]+0.15

Delivery Period: Begin: 12/01/2021 End: 02/28/2022

Performance Obligation and Contract Quantity:

Firm (Fixed Qty):	Firm (Variable Qty):	Interruptible:
_____ MMBTU/Day	45,000 MMBTU/Day	Up to _____ MMBTU/Day

Special Terms: Buyer has the right but not the obligation to purchase up to 45,000 per day at GDA TGP LA 800 Leg +.15. Buyer will pay seller a daily demand fee of .05 times 45,000. Buyer must call on the gas by 9:00 am Eastern Time the prior business day, flow must be ratable over weekends/holidays consistent with the Platts Gas Daily/ICE trading schedule. Buyer is allowed to call on up to 1,125,000 MMBtu (equivalent to a 25 day call) during the Delivery Period.

Charges:	Begin Date	End Date	Charge Type	Amount	Currency	Comment
	12/01/2021	12/31/2021	Daily Demand	0.05	USD	Receive UET
	01/01/2022	01/31/2022	Daily Demand	0.05	USD	Receive UET
	02/01/2022	02/28/2022	Daily Demand	0.05	USD	Receive UET

Other Terms:

To the extent any Transaction entered into subject to this Confirmation contains an embedded option, then the parties hereto intend that the Transaction fall within either (i) the Forward Contract Exclusion based on facts and circumstances and by satisfying the following seven (7) factors: (1) the embedded option does not undermine the overall nature of the Transaction as a whole; (2) the predominant feature of the Transaction is actual delivery; (3) the embedded option cannot be severed and marketed separately, (4) seller intends at the time it enters into the Transaction, to deliver the underlying nonfinancial commodity if the option is exercised, (5) buyer intends at the time it enters into the Transaction, to take delivery of the underlying nonfinancial commodity if it exercises the embedded option; (6) both parties are Commercial Parties (as defined below); and (7) the exercise or non-exercise of the embedded option is based primarily on physical factors or regulatory requirements that reasonably influence the demand for, or the supply of, the non financial commodity, or (ii) the Trade Option Exemption if it is (A) the offeree/buyer of such option, it is a producer, processor, commercial user of, or a merchant handling the commodity, or the products or byproducts thereof, that is/are the subject of the transaction (a "Commercial Party") and it is entering into the Transaction solely for purposes related to its business as such, and/or (B) the offeror/seller of such option, it is either a Commercial Party and it is entering into the transaction solely for purposes related to its business as such or it is an "eligible contract participant" as defined in Section 1a(18) of the Commodity Exchange Act.

Seller:	<u>United Energy Trading, LLC</u>	Buyer:	<u>Duke Energy Kentucky, Inc.</u>
Signed:		Signed:	
Name/Title:	<u>Bradley Freeman</u>	Name/Title:	<u>Todd P. Breece</u>
Trader Contact:	<u>bfreeman@uetlc.com</u>		<u>Manager Natural Gas Trading & Optimization</u>
Date:	<u>11/17/2021 1:19:03 PM</u>	Date:	<u>11/17/2021</u>

**GAS COST ADJUSTMENT
DUKE ENERGY KENTUCKY**

DETAILS FOR THE EGC RATE IN EFFECT AS OF : March 3, 2022

GAS COMMODITY RATE FOR MARCH 2022

GAS MARKETERS :

WEIGHTED AVERAGE GAS COST @ CITY GATE (\$/Dth) (1):			\$3.9835	\$/Dth
DUKE ENERGY KENTUCKY FUEL	3.500%	\$0.1394	\$4.1229	\$/Dth
DTH TO MCF CONVERSION	1.0878	\$0.3620	\$4.4849	\$/Mcf
ESTIMATED WEIGHTING FACTOR	94.307%		\$4.2296	\$/Mcf
GAS MARKETERS COMMODITY RATE			\$4.230	\$/Mcf

GAS STORAGE :

COLUMBIA GAS TRANS. - STORAGE INVENTORY RATE			\$3.5097	\$/Dth
COLUMBIA GAS TRANS. FSS WITHDRAWAL FEE		\$0.0153	\$3.5250	\$/Dth
COLUMBIA GAS TRANS. SST FUEL	1.608%	\$0.0567	\$3.5817	\$/Dth
COLUMBIA GAS TRANS SST COMMODITY RATE		\$0.0138	\$3.5955	\$/Dth
KO TRANS, COMMODITY RATE		\$0.0012	\$3.5967	\$/Dth
DUKE ENERGY KENTUCKY FUEL	3.500%	\$0.1259	\$3.7226	\$/Dth
DTH TO MCF CONVERSION	1.0878	\$0.3268	\$4.0494	\$/Mcf
ESTIMATED WEIGHTING FACTOR	5.660%		\$0.2292	\$/Mcf
GAS STORAGE COMMODITY RATE - COLUMBIA GAS			\$0.229	\$/Mcf

PROPANE :

ERLANGER PROPANE INVENTORY RATE			\$0.78802	\$/Gallon
GALLON TO MCF CONVERSION	15.38	\$11.3317	\$12.1197	\$/Mcf
ESTIMATED WEIGHTING FACTOR	0.033%		\$0.0040	\$/Mcf
PROPANE COMMODITY RATE			\$0.004	\$/Mcf

(1) Weighted average cost of gas based on NYMEX prices on [January 26, 2022](#)

**GAS COST ADJUSTMENT CLAUSE
DUKE ENERGY KENTUCKY, INC
SUPPLIER REFUND ADJUSTMENT
DETAILS FOR THE THREE MONTH PERIOD ENDED**

November 30, 2021

DESCRIPTION	UNIT	AMOUNT
SUPPLIER REFUNDS RECEIVED DURING THREE MONTH PERIOD ENDED November 30, 2021	\$	0.00
INTEREST FACTOR (REFLECTING 90 DAY COMMERCIAL PAPER RATE)		0.9978
REFUNDS INCLUDING INTEREST (\$0.00 x 0.9978)	\$	0.00
DIVIDED BY TWELVE MONTH SALES ENDED February 28, 2023	MCF	10,020,117
CURRENT SUPPLIER REFUND ADJUSTMENT	\$/MCF	<u>0.00</u>

DETAILS OF SUPPLIER REFUNDS RECEIVED DURING THE THREE MONTHS ENDED

November 30, 2021

DESCRIPTION	UNIT	AMOUNT
<u>SUPPLIER</u>		
TOTAL REFUNDS APPLICABLE TO THE CURRENT GCA	\$	<u>0.00</u>

RAU

GAS COST ADJUSTMENT CLAUSE
DUKE ENERGY KENTUCKY, INC
ACTUAL ADJUSTMENT
DETAILS FOR THE THREE MONTH PERIOD ENDED

November 30, 2021

DESCRIPTION	UNIT	SEPTEMBER	OCTOBER	NOVEMBER
<u>SUPPLY VOLUME PER BOOKS</u>				
PRIMARY GAS SUPPLIERS	MCF	304,935	435,630	1,260,380
UTILITY PRODUCTION	MCF	0	0	0
INCLUDABLE PROPANE	MCF	0	0	10,429
OTHER VOLUMES (SPECIFY) ADJUSTMENT	MCF	(40,818)	0	(1)
TOTAL SUPPLY VOLUMES	MCF	<u>264,117</u>	<u>435,630</u>	<u>1,270,808</u>
<u>SUPPLY COST PER BOOKS</u>				
PRIMARY GAS SUPPLIERS	\$	1,842,808	3,160,661	7,832,293
INCLUDABLE PROPANE (\$)	\$	0	0	125,964
GAS COST UNCOLLECTIBLE	\$	11,697	(6,097)	10,887
OTHER COSTS (SPECIFY):				
TRANSPORTATION SERVICE "UNACCOUNTED FOR"(\$)	\$	0	0	0
GAS COST CREDIT (\$)	\$	0	0	0
X-5 TARIFF (\$)	\$	0	0	0
MANAGEMENT FEES	\$	(88,400)	(88,400)	(97,067)
LOSSES - DAMAGED LINES (\$)	\$	(188)	37	195
SALES TO REMARKETERS (\$)	\$	0	0	0
TRANSPORTATION TAKE-OR-PAY RECOVERY (\$)	\$	0	0	0
TOTAL SUPPLY COSTS	\$	<u>1,765,917</u>	<u>3,066,201</u>	<u>7,872,272</u>
<u>SALES VOLUMES</u>				
JURISDICTIONAL	MCF	177,815.5	203,238.2	634,699.4
NON-JURISDICTIONAL	MCF	0.0	0.0	0.0
OTHER VOLUMES (SPECIFY):	MCF	0.0	0.0	0.0
TOTAL SALES VOLUMES	MCF	<u>177,815.5</u>	<u>203,238.2</u>	<u>634,699.4</u>
UNIT BOOK COST OF GAS (SUPPLY \$ / SALES MCF)	\$/MCF	9.931	15.087	12.403
LESS: EGC IN EFFECT FOR THE MONTH	\$/MCF	<u>5.198</u>	<u>5.211</u>	<u>5.210</u>
DIFFERENCE	\$/MCF	4.733	9.876	7.193
TIMES: MONTHLY JURISDICTIONAL SALES	MCF	<u>177,815.5</u>	<u>203,238.2</u>	<u>634,699.4</u>
EQUALS MONTHLY COST DIFFERENCE	\$	<u>841,600.76</u>	<u>2,007,180.46</u>	<u>4,565,392.78</u>
NET COST DIFFERENCE FOR THE THREE MONTH PERIOD	\$			<u>7,414,174.00</u>
PRIOR PERIOD ADJUSTMENT - none	\$			0.00
TOTAL COST USED IN THE CURRENT AA CALCULATION	\$			<u>7,414,174.00</u>
DIVIDED BY: 12 MONTH PROJECTED SALES ENDED <u>February 28, 2023</u>	MCF			10,020,117
EQUALS CURRENT QUARTERLY ACTUAL ADJUSTMENT	\$/MCF			<u>0.740</u>
AAU				

**GAS COST ADJUSTMENT CLAUSE
DUKE ENERGY KENTUCKY, INC
BALANCE ADJUSTMENT
DETAILS FOR THE TWELVE MONTH PERIOD ENDED November 30, 2021**

DESCRIPTION	UNIT	AMOUNT
<u>RECONCILIATION OF A PREVIOUS GAS COST VARIANCE</u>		
GAS COST DIFFERENCE TO BE RECOVERED FROM OR (RETURNED TO) CUSTOMERS WHICH WAS USED TO COMPUTE THE "AA" EFFECTIVE December 1, 2020	\$	881,611.38
LESS: AMOUNT RECOVERED (RETURNED) BY THE AA OF \$ 0.090 /MCF APPLIED TO TOTAL SALES OF 9,583,789 MCF (TWELVE MONTHS ENDED November 30, 2021)	\$	<u>862,540.98</u>
BALANCE ADJUSTMENT FOR THE "AA"	\$	<u>19,070.40</u>
<u>RECONCILIATION OF A PREVIOUS SUPPLIER REFUND</u>		
SUPPLIER REFUND AMOUNT TO BE DISTRIBUTED TO CUSTOMERS WHICH WAS USED TO COMPUTE THE "RA" EFFECTIVE December 1, 2020	\$	0.00
LESS: AMOUNT DISTRIBUTED BY THE "RA" OF \$ 0.000 /MCF APPLIED TO TOTAL SALES OF 9,583,789 MCF (TWELVE MONTHS ENDED November 30, 2021)	\$	<u>0.00</u>
BALANCE ADJUSTMENT FOR THE "RA"		<u>0.00</u>
<u>RECONCILIATION OF A PREVIOUS BALANCE ADJUSTMENT</u>		
AMOUNT TO BE RECOVERED FROM OR (RETURNED TO) CUSTOMERS WHICH WAS USED TO COMPUTE THE "BA" EFFECTIVE December 1, 2020	\$	22,530.96
LESS: AMOUNT RECOVERED (RETURNED) BY THE "BA" OF \$ 0.002 /MCF APPLIED TO TOTAL SALES OF 9,583,789 MCF (TWELVE MONTHS ENDED November 30, 2021)	\$	<u>19,167.58</u>
BALANCE ADJUSTMENT FOR THE "BA"	\$	<u>3,363.38</u>
TOTAL BALANCE ADJUSTMENT AMOUNT	\$	<u>22,433.78</u>
DIVIDED BY: 12 MONTHS PROJECTED SALES ENDED February 28, 2023	MCF	<u>10,020,117</u>
EQUALS: CURRENT QUARTER BALANCE ADJUSTMENT	\$/MCF	<u><u>0.002</u></u>

DUKE ENERGY KENTUCKY
SUPPLEMENTAL INFORMATION
FOR THE EXPECTED GAS COST (EGC) RATE CALCULATION
OF THE GAS COST RECOVERY RATE
IN EFFECT AS OF MARCH 3, 2022

1st Quarter

DUKE ENERGY Kentucky, Inc.
USED FOR GCA EFFECTIVE **March 3, 2022**

COMPUTATION OF THE INTEREST FACTOR
FOR THE GCA CALCULATION ON SCHEDULE II

TWELVE MONTHS ENDED **December 31, 2021**
BLOOMBERG REPORT (90-DAY COMMERCIAL PAPER RATES)

INTEREST RATE	-0.004
PAYMENT	0.083153
ANNUAL TOTAL	0.9978
MONTHLY INTEREST AMOUNT	(0.000333) 1

DECEMBER	2020	0.13	
JANUARY	2021	0.09	
FEBRUARY	2021	0.09	
MARCH	2021	0.12	
APRIL	2021	0.05	
MAY	2021	0.08	
JUNE	2021	0.08	
JULY	2021	0.05	
AUGUST	2021	0.09	
SEPTEMBER	2021	0.06	
OCTOBER	2021	0.11	
NOVEMBER	2021	0.13	1.08
DECEMBER	2021	0.22	1.17

PRIOR ANNUAL TOTAL	1.08
PLUS CURRENT MONTHLY R.	0.22
LESS YEAR AGO RATE	0.13
NEW ANNUAL TOTAL	1.17
AVERAGE ANNUAL RATE	0.10
LESS 0.5% (ADMINISTRATIVE)	(0.40)

DUKE ENERGY COMPANY KENTUCKY
DETERMINATION OF TOTAL SUPPLY COST
MONTH OF **SEPTEMBER 2021**

<u>DESCRIPTION</u>	<u>W/P</u>	<u>TOTAL AMOUNT ROUNDED</u>
<u>PRIMARY GAS SUPPLY COST</u>		\$
current month estimate	A1	1,990,079.30
adjustments from prior month	B1	(154,221.61)
Interruptible Transportation monthly charges by Gas Supply - PM	C1	6,950.61
		1,842,808
 <u>LESS: RATE SCHEDULE CF CREDIT</u>		
current month		0.00
adjustments		0.00
		0
 <u>PLUS: INCLUDABLE PROPANE</u>		
a/c 728-3 Erlanger	D1	0.00
		0
 <u>PLUS: GAS COST UNCOLLECTIBLE</u>		
	J1	11,697.00
		11,697
 <u>LESS: X-5 TARIFF</u>		0.00
		0
 <u>LESS Tenaska MANAGEMENT FEE</u>		
	F1	88,400.00
		(88,400)
 <u>LESS: TOP TRANSP. RECOVERIES</u>		0.00
		0
 <u>LESS: GAS LOSSES - DAMAGED LINES</u>		
	G1	(188.44)
		(188)
adjustments		0.00
		0.00
		0
 <u>LESS: GAS COST CREDIT</u>		0.00
		0
 <u>LESS: FIRM TRANSPORTATION ADJUSTMENTS</u>		
current month		0.00
adjustments		0.00
		0
 TOTAL SUPPLY COSTS		1,765,917

ACCOUNTING ENTRY FOR DEFERRAL ONLY

	<u>AMOUNT</u>
ACCTS: 191400 - Unrecv PG\$ - Liabl	841,600.76
ACCOUNT 0805002 - Unrecv PG Adj - Expense	(841,600.76)

PURCHASED GAS ADJUSTMENT

SCHEDULE III

COMPANY NAME: DUKE ENERGY COMPANY KENTUCKY

ACTUAL ADJUSTMENT

DETAILS FOR THE MONTH SEPTEMBER 2021

<u>PARTICULARS</u>	<u>UNIT</u>	<u>W/P</u>	<u>MONTH SEPTEMBER 2021</u>
<u>SUPPLY VOLUME PER BOOKS</u>			
Primary Gas Suppliers	MCF	A2	304,935
Utility Production	MCF		0
Includable Propane	MCF	D2	0
Other Volumes (Specify) - Previous Month Adj.	MCF	B2	(40,818)
TOTAL SUPPLY VOLUMES	MCF		264,117
<u>SUPPLY COST PER BOOKS</u>			
Primary Gas Suppliers	\$		1,842,808
Includable Propane	\$		0
Gas Cost Uncollectible	\$		11,697
Other Cost (Specify) - Gas Cost Credit	\$		0
- Unacct'd for Transp.	\$		0
- CF Credit	\$		0
- X-5 Tariff	\$		0
- CMT Management Fee	\$		(88,400)
- Losses-Damaged Lines	\$		(188)
- Gas Sold to Remarketers	\$		0
- TOP Transp. Recoveries	\$		0
TOTAL SUPPLY COST	\$		1,765,917.0
<u>SALES VOLUMES</u>			
Jurisdictional - Retail	MCF	H1	177,815.5
Non-Jurisdictional	MCF		
Other Volumes (Specify) -	MCF		
TOTAL SALES VOLUME	MCF		177,815.5
UNIT BOOK COST OF GAS (SUPPLY \$ / SALES MCF)	\$/MCF		9.931
LESS: EGC IN EFFECT FOR MONTH	\$/MCF	H2	5.198
DIFFERENCE	\$/MCF		4.733
TIMES: MONTHLY JURISDICTIONAL SALES	MCF		177,815.5
MONTHLY COST DIFFERENCE	\$		841,600.76

DUKE ENERGY COMPANY KENTUCKY

SEPTEMBER 2021

	<u>Applied MCF Sales</u>	<u>W/P</u>	<u>Amount</u>	<u>\$/MCF</u>
<u>GAS FUEL ADJUSTMENT BILLED</u>				
EGC - Retail	177,815.5	H3	924,325.96	5.19823053
RA		H4	0.00	
AA		H5	(4,894.56)	
BA		H6	278.23	
TOTAL GAS COST RECOVERY(GCR)			<u>919,709.63</u>	
TOTAL SALES VOLUME	177,815.5			
LESS: NON-JURISDICTIONAL SALES	<u>0.0</u>			
JURISDICTIONAL SALES	<u>177,815.5</u>			
<u>PROOF OF UNRECOVERED PURCHASED GAS COST ENTRY</u>				
SUPPLIER COST - CURRENT MONTH	177,815.5		1,765,917.00	9.93117585
UNRECOVERED PURCHASED GAS COST			(846,495.32)	
ROUNDING(ADD/(DEDUCT))			<u>9.72</u>	
TOTAL GAS COST IN REVENUE			<u>919,431.40</u>	
TOTAL GAS COST RECOVERY(GCR)			919,709.63	
LESS: RA			0.00	
BA			<u>278.23</u>	
PLUS: COST OF NON-JURISDICTIONAL SALES			<u>919,431.40</u>	
UNRECOVERED PURCHASED GAS COST ENTRY			(846,495.32)	
LESS: AA			<u>(4,894.56)</u>	
MONTHLY COST DIFFERENCE			(841,600.76)	
EXTENDED MONTHLY COST DIFFERENCE			<u>(841,591.04)</u>	
ROUNDING			<u>9.72</u>	

DUKE ENERGY KENTUCKY
 GAS SERVICE
 SUMMARY OF GCA a/k/a GCR COMPONENTS
 MONTH: October 2021

Retail BILL CODE	MCF Usage REPORTED SALES	Exptd Gas Cost		RECONCILIATION ADJUSTMENT					ACTUAL ADJUSTMENT					BALANCE ADJUSTMENT					
		\$/MCF	EGC \$	CURRENT	PREVIOUS	SEC.PREV.	THRD.PREV.	TOTAL RA	CURRENT	PREVIOUS	SEC.PREV.	THRD.PREV.	TOTAL AA	CURRENT	PREVIOUS	SEC.PREV.	THRD.PREV.	TOTAL BA	
049		3.742	0.00																
069		3.667	0.00																
079		3.726	0.00																
089		3.452	0.00																
109		3.121	0.00																
129/010		3.555	0.00																
030	(1.0)	2.764	(2.76)																
050	(1.2)	2.900	(3.48)																
070	(0.7)	3.089	(2.16)																
090/011	(232.9)	4.172	(971.66)				0.00	0.00					(20.96)				(0.47)	(0.47)	
031	344.9	3.831	1,321.31			0.00	0.00	0.00				87.60	31.04			3.10	0.69	3.79	
051	167.9	4.225	709.38		0.00	0.00	0.00	0.00		(15.95)	42.65	15.11			2.01	1.51	0.34	3.86	
071	202,961.2	5.213	1,058,036.74	0.00	0.00	0.00	0.00	0.00	(57,235.06)	(19,281.31)	51,552.14	18,266.51	(6,697.72)	(4,465.15)	2,435.53	1,826.65	405.92	202.95	
TOTAL RETAIL	203,238.2 (1)		1,059,087.37	-	-	-	-	-	(57,235.06)	(19,297.26)	51,682.39	18,291.70	(6,558.23)	(4,465.15)	2,437.54	1,831.26	406.48	210.13	
TRANSPORTATION: IFT3																			
Customer Choice Program (GCAT):																			
040																			
060																			
080																			
100/021							0.00	0.00									0.00	0.00	
041					0.00	0.00	0.00	0.00			0.00	0.00	0.00			0.00	0.00	0.00	
061					0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	
081	575.0 B2			0.00	0.00	0.00	0.00	0.00	(162.15)	(54.63)	146.05	51.75	(18.98)	(12.65)	6.90	5.18	1.15	0.58	
IFT3 CHOICE	575.0	TOTAL FOR CHOICE		-	-	-	-	-	(162.15)	(54.63)	146.05	51.75	(18.98)	(12.65)	6.90	5.18	1.15	0.58	
TOTAL FOR Gas Cost Recovery (GCR)				-	-	-	-	-	(57,397.21)	(19,351.89)	51,828.44	18,343.45	(6,577.21)	(4,477.80)	2,444.44	1,836.44	407.63	210.71	
								JE 0.00					JE 0.00					CONTROL CK 0.00	
								positive=recovered=cr 253130					positive=recovered=cr 191400					negative=reduce fund=dr 253130	
								negative=reduce refund=dr 253130				negative=refund=dr 191400						negative=reduce refund=dr 253130	
								191400 is Unrecov Purch Gas Cost (Liab)					253130 is Gas Refund/Pmts Adj due Cust (Liab)						
Firm Transportation: IFT																			
FT				149,282.0 B3															
Interruptible Transportation: IT01																			
IT				127,754.0 B4															
Grand Total				480,849.2 Ties to B5															
ADJUSTED EGC				5,211 (2)															

JE ID - KUNBIL AMZ

DUKE ENERGY COMPANY KENTUCKY
DETERMINATION OF TOTAL SUPPLY COST
MONTH OF **OCTOBER 2021**

<u>DESCRIPTION</u>	<u>W/P</u>	<u>TOTAL AMOUNT ROUNDED</u>
<u>PRIMARY GAS SUPPLY COST</u>		\$
current month estimate	A1	3,160,660.54
adjustments from prior month	B1	0.00
Interruptible Transportation monthly charges by Gas Supply - PM	C1	0.00
		3,160,661
 <u>LESS: RATE SCHEDULE CF CREDIT</u>		
current month		0.00
adjustments		0.00
		0
 <u>PLUS: INCLUDABLE PROPANE</u>		
a/c 728-3 Erlanger	D1	0.00
		0
 <u>PLUS: GAS COST UNCOLLECTIBLE</u>		
	E1	(6,097.00)
		(6,097)
 <u>LESS: X-5 TARIFF</u>		0.00
		0
 <u>LESS Tenaska MANAGEMENT FEE</u>		
	F1	88,400.00
		(88,400)
 <u>LESS: TOP TRANSP. RECOVERIES</u>		0.00
		0
 <u>LESS: GAS LOSSES - DAMAGED LINES</u>		
	G1	36.57
		37
adjustments		0.00
		0.00
 <u>LESS: GAS COST CREDIT</u>		0.00
		0
 <u>LESS: FIRM TRANSPORTATION ADJUSTMENTS</u>		
current month		0.00
adjustments		0.00
		0
TOTAL SUPPLY COSTS		<u>3,066,201</u>

ACCOUNTING ENTRY FOR DEFERRAL ONLY

	<u>AMOUNT</u>
ACCTS: 191400 - Unrecv PG\$ - Liabl	2,007,180.46
ACCOUNT 0805002 - Unrecv PG Adj - Expense	(2,007,180.46)
 ORIGINAL ENTRY:	
ACCTS: 191400 - Unrecv PG\$ - Liabl	2,010,229.04
ACCOUNT 0805002 - Unrecv PG Adj - Expense	(2,010,229.04)
 ADJ REQUIRED:	
ACCTS: 191400 - Unrecv PG\$ - Liabl	(3,048.58)
ACCOUNT 0805002 - Unrecv PG Adj - Expense	3,048.58

PURCHASED GAS ADJUSTMENT

SCHEDULE III

COMPANY NAME: DUKE ENERGY COMPANY KENTUCKY

ACTUAL ADJUSTMENT

DETAILS FOR THE MONTH

OCTOBER 2021

<u>PARTICULARS</u>	<u>UNIT</u>	<u>W/P</u>	<u>MONTH OCTOBER 2021</u>
<u>SUPPLY VOLUME PER BOOKS</u>			
Primary Gas Suppliers	MCF	A2	435,630
Utility Production	MCF		0
Includable Propane	MCF	D2	0
Other Volumes (Specify) - Previous Month Adj.	MCF	B2	0
TOTAL SUPPLY VOLUMES	MCF		435,630
<u>SUPPLY COST PER BOOKS</u>			
Primary Gas Suppliers	\$		3,160,661
Includable Propane	\$		0
Gas Cost Uncollectible	\$		(6,097)
Other Cost (Specify) - Gas Cost Credit	\$		0
- Unacct'd for Transp.	\$		0
- CF Credit	\$		0
- X-5 Tariff	\$		0
- CMT Management Fee	\$		(88,400)
- Losses-Damaged Lines	\$		37
- Gas Sold to Remarketers	\$		0
- TOP Transp. Recoveries	\$		0
TOTAL SUPPLY COST	\$		3,066,201.0
<u>SALES VOLUMES</u>			
Jurisdictional - Retail	MCF	H1	203,238.2
Non-Jurisdictional	MCF		
Other Volumes (Specify) -	MCF		
TOTAL SALES VOLUME	MCF		203,238.2
UNIT BOOK COST OF GAS (SUPPLY \$ / SALES MCF)	\$/MCF		15.087
LESS: EGC IN EFFECT FOR MONTH	\$/MCF	H2	5.211
DIFFERENCE	\$/MCF		9.876
TIMES: MONTHLY JURISDICTIONAL SALES	MCF		203,238.2
MONTHLY COST DIFFERENCE	\$		2,007,180.46

DUKE ENERGY COMPANY KENTUCKY

OCTOBER 2021

	<u>Applied MCF Sales</u>	<u>W/P</u>	<u>Amount</u>	<u>\$/MCF</u>
<u>GAS FUEL ADJUSTMENT BILLED</u>				
EGC - Retail	203,238.2	H3	1,059,087.37	5.21106450
RA		H4	0.00	
AA		H5	(6,577.21)	
BA		H6	210.71	
TOTAL GAS COST RECOVERY(GCR)			<u>1,052,720.87</u>	
TOTAL SALES VOLUME	203,238.2			
LESS: NON-JURISDICTIONAL SALES	<u>0.0</u>			
JURISDICTIONAL SALES	<u>203,238.2</u>			
<u>PROOF OF UNRECOVERED PURCHASED GAS COST ENTRY</u>				
SUPPLIER COST - CURRENT MONTH	203,238.2		3,066,201.00	15.08673566
UNRECOVERED PURCHASED GAS COST			(2,013,757.67)	
ROUNDING(ADD/(DEDUCT))			<u>66.83</u>	
TOTAL GAS COST IN REVENUE			<u>1,052,510.16</u>	
TOTAL GAS COST RECOVERY(GCR)			1,052,720.87	
LESS: RA			0.00	
BA			<u>210.71</u>	
PLUS: COST OF NON-JURISDICTIONAL SALES			<u>1,052,510.16</u>	
UNRECOVERED PURCHASED GAS COST ENTRY			(2,013,757.67)	
LESS: AA			<u>(6,577.21)</u>	
MONTHLY COST DIFFERENCE			(2,007,180.46)	
EXTENDED MONTHLY COST DIFFERENCE			<u>(2,007,113.63)</u>	
ROUNDING			<u>66.83</u>	

**DUKE ENERGY KENTUCKY
GAS SERVICE
SUMMARY OF GCA a/k/a GCR COMPONENTS
MONTH: November 2021**

Retail BILL CODE	MCF Usage REPORTED SALES	Exptd Gas Cost EGC \$/MCF	Exptd Gas Cost EGC \$	RECONCILIATION ADJUSTMENT					ACTUAL ADJUSTMENT					BALANCE ADJUSTMENT										
				CURRENT	PREVIOUS	SEC.PREV.	THRD.PREV.	TOTAL	CURRENT	PREVIOUS	SEC.PREV.	THRD.PREV.	TOTAL	CURRENT	PREVIOUS	SEC.PREV.	THRD.PREV.	TOTAL						
				0.000	0.000	0.000	0.000	RA	(0.282)	(0.095)	0.254	0.090	AA	(0.022)	0.012	0.009	0.002	BA						
049		3.742	0.00																					
069		3.667	0.00																					
079		3.728	0.00																					
089		3.452	0.00																					
109		3.121	0.00																					
129/010	49.4	3.555	175.62																					
030	104.6	2.764	289.11																					
050	46.0	2.900	133.40																					
070	76.2	3.089	235.38																					
090/011	247.8	4.172	1,033.82				0.00	0.00					22.30	22.30				0.50	0.50					
031	843.4	3.831	3,231.07				0.00	0.00					214.22	75.91	290.13			7.59	1.69	9.28				
051	135.3	4.225	571.64				0.00	0.00					(12.85)	34.37	33.70			1.62	1.22	3.11				
071	633,196.7	5.213	3,300,854.40	0.00	0.00	0.00	0.00	0.00					(178,561.47)	(60,153.69)	160,831.96	56,987.70	(20,895.50)	(13,930.33)	7,598.36	5,698.77	1,266.39	633.19		
TOTAL RETAIL	634,699.4 (1)		3,306,524.44	-	-	-	-	-					(178,561.47)	(60,166.54)	161,080.55	57,098.09	(20,549.37)	(13,930.33)	7,599.98	5,707.58	1,268.85	646.08		
TRANSPORTATION: IFT3																								
Customer Choice Program (GCAT):																								
040																								
060																								
080																								
100/021								0.00	0.00												0.00	0.00		
041								0.00	0.00												0.00	0.00		
061								0.00	0.00												0.00	0.00		
081	666.0 B2							0.00	0.00												0.00	0.00		
IFT3 CHOICE	666.0			0.00	0.00	0.00	0.00	0.00					(187.81)	(63.27)	169.16	59.94	(21.98)	(14.65)	7.99	5.99	1.33	0.66		
TOTAL FOR CHOICE				-	-	-	-	-					(187.81)	(63.27)	169.16	59.94	(21.98)	(14.65)	7.99	5.99	1.33	0.66		
TOTAL FOR Gas Cost Recovery (GCR)				-	-	-	-	-					(178,749.28)	(60,229.81)	161,249.71	57,158.03	(20,571.35)	(13,944.98)	7,607.97	5,713.57	1,270.18	646.74		
									JE															
								0.00														CONTROL CK	JE	0.00
																						positive=recovered=cr 253130		(0.00)
																						negative=reduce refund=dr 253130		
																						191400 is Unrecov Purch Gas Cost (Liab)		
																						191400 is Unrecov Purch Gas Cost (Liab)		
																						253130 is Gas Refund/Rcts Adj due Cust (Liab)		
																						253130 is Gas Refund/Rcts Adj due Cust (Liab)		
Firm Transportation: IFT																								
FT	163,192.0 B3																							
Interruptible Transportation: IT01																								
IT	141,526.0 B4																							
Grand Total	940,083.4 Ties to B5																							
ADJUSTED EGC	5,210 (2)																							

JE ID - KUNBIL AMZ

DUKE ENERGY COMPANY KENTUCKY
DETERMINATION OF TOTAL SUPPLY COST
MONTH OF **NOVEMBER 2021**

<u>DESCRIPTION</u>	<u>W/P</u>	<u>TOTAL AMOUNT ROUNDED</u>
<u>PRIMARY GAS SUPPLY COST</u>		\$
current month estimate	<u>A1</u>	7,833,181.30
adjustments from prior month	<u>B1</u>	(5.10)
Interruptible Transportation monthly charges by Gas Supply - PM	<u>C1</u>	(883.15)
		7,832,293
 <u>LESS: RATE SCHEDULE CF CREDIT</u>		
current month		0.00
adjustments		0.00
		0
 <u>PLUS: INCLUDABLE PROPANE</u>		
a/c 728-3 Erlanger	<u>D1</u>	125,964.21
		125,964
 <u>PLUS: GAS COST UNCOLLECTIBLE</u>		
	<u>E1</u>	10,887.00
		10,887
 <u>LESS: X-5 TARIFF</u>		0.00
		0
 <u>LESS Tenaska MANAGEMENT FEE</u>		
	<u>F1</u>	97,067.00
		(97,067)
 <u>LESS: TOP TRANSP. RECOVERIES</u>		0.00
		0
 <u>LESS: GAS LOSSES - DAMAGED LINES</u>		
	<u>G1</u>	195.11
		195
adjustments		0.00
		0.00
		0
 <u>LESS: GAS COST CREDIT</u>		0.00
		0
 <u>LESS: FIRM TRANSPORTATION ADJUSTMENTS</u>		
current month		0.00
adjustments		0.00
		0
 TOTAL SUPPLY COSTS		<u>7,872,272</u>

ACCOUNTING ENTRY FOR DEFERRAL ONLY

	<u>AMOUNT</u>
ACCTS: 191400 - Unrecv PG\$ - Liabl	4,565,392.78
ACCOUNT 0805002 - Unrecv PG Adj - Expense	(4,565,392.78)

PURCHASED GAS ADJUSTMENT

SCHEDULE III

COMPANY NAME: DUKE ENERGY COMPANY KENTUCKY

ACTUAL ADJUSTMENT

DETAILS FOR THE MONTH NOVEMBER 2021

<u>PARTICULARS</u>	<u>UNIT</u>	<u>W/P</u>	<u>MONTH NOVEMBER 2021</u>
<u>SUPPLY VOLUME PER BOOKS</u>			
Primary Gas Suppliers	MCF	A2	1,260,380
Utility Production	MCF		0
Includable Propane	MCF	D2	10,429
Other Volumes (Specify) - Previous Month Adj.	MCF	B2	(1)
TOTAL SUPPLY VOLUMES	MCF		1,270,808
<u>SUPPLY COST PER BOOKS</u>			
Primary Gas Suppliers	\$		7,832,293
Includable Propane	\$		125,964
Gas Cost Uncollectible	\$		10,887
Other Cost (Specify) - Gas Cost Credit	\$		0
- Unacct'd for Transp.	\$		0
- CF Credit	\$		0
- X-5 Tariff	\$		0
- CMT Management Fee	\$		(97,067)
- Losses-Damaged Lines	\$		195
- Gas Sold to Remarketers	\$		0
- TOP Transp. Recoveries	\$		0
TOTAL SUPPLY COST	\$		7,872,272.0
<u>SALES VOLUMES</u>			
Jurisdictional - Retail	MCF	H1	634,699.4
Non-Jurisdictional	MCF		
Other Volumes (Specify) -	MCF		
TOTAL SALES VOLUME	MCF		634,699.4
UNIT BOOK COST OF GAS (SUPPLY \$ / SALES MCF)	\$/MCF		12.403
LESS: EGC IN EFFECT FOR MONTH	\$/MCF	H2	5.210
DIFFERENCE	\$/MCF		7.193
TIMES: MONTHLY JURISDICTIONAL SALES	MCF		634,699.4
MONTHLY COST DIFFERENCE	\$		4,565,392.78

DUKE ENERGY COMPANY KENTUCKY

NOVEMBER 2021

	<u>Applied</u> <u>MCF Sales</u>	<u>W/P</u>	<u>Amount</u>	<u>\$/MCF</u>
<u>GAS FUEL ADJUSTMENT BILLED</u>				
EGC - Retail	634,699.4	H3	3,306,524.44	5.20959125
RA		H4	0.00	
AA		H5	(20,571.35)	
BA		H6	646.74	
TOTAL GAS COST RECOVERY(GCR)			<u>3,286,599.83</u>	
TOTAL SALES VOLUME	634,699.4			
LESS: NON-JURISDICTIONAL SALES	<u>0.0</u>			
JURISDICTIONAL SALES	<u>634,699.4</u>			
<u>PROOF OF UNRECOVERED PURCHASED GAS COST ENTRY</u>				
SUPPLIER COST - CURRENT MONTH	634,699.4		7,872,272.00	12.40315022
UNRECOVERED PURCHASED GAS COST			(4,585,964.13)	
ROUNDING(ADD/(DEDUCT))			<u>(354.78)</u>	
TOTAL GAS COST IN REVENUE			<u>3,285,953.09</u>	
TOTAL GAS COST RECOVERY(GCR)			3,286,599.83	
LESS: RA			0.00	
BA			<u>646.74</u>	
PLUS: COST OF NON-JURISDICTIONAL SALES			<u>3,285,953.09</u>	
UNRECOVERED PURCHASED GAS COST ENTRY			(4,585,964.13)	
LESS: AA			<u>(20,571.35)</u>	
MONTHLY COST DIFFERENCE			(4,565,392.78)	
EXTENDED MONTHLY COST DIFFERENCE			<u>(4,565,747.56)</u>	
ROUNDING			<u>(354.78)</u>	

DUKE ENERGY KENTUCKY
SUMMARY OF GAS COST RECOVERY COMPONENTS
BY BILLING CODE

MON/YR	BILLING CODE	EST'D. GAS COST	QUARTERLY RECONCILIATION ADJUSTMENT				QUARTERLY ACTUAL ADJUSTMENT				BALANCE ADJUSTMENT				TOTAL GCR FACTOR
			CURRENT	PREVIOUS	2ND PREV	3RD PREV	CURRENT	PREVIOUS	2ND PREV	3RD PREV	CURRENT	PREVIOUS	2ND PREV	3RD PREV	
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
Jan-20	010	3.555	0.000	0.000	0.000	0.000	0.063	(0.450)	(0.427)	0.458	0.033	(0.010)	(0.032)	(0.009)	3.181
Feb-20	010	3.555	0.000	0.000	0.000	0.000	0.063	(0.450)	(0.427)	0.458	0.033	(0.010)	(0.032)	(0.009)	3.181
Mar-20	030	2.764	0.000	0.000	0.000	0.000	0.249	0.063	(0.450)	(0.427)	(0.010)	0.033	(0.010)	(0.032)	2.180
Apr-20	030	2.764	0.000	0.000	0.000	0.000	0.249	0.063	(0.450)	(0.427)	(0.010)	0.033	(0.010)	(0.032)	2.180
May-20	030	2.764	0.000	0.000	0.000	0.000	0.249	0.063	(0.450)	(0.427)	(0.010)	0.033	(0.010)	(0.032)	2.180
Jun-20	050	2.900	0.000	0.000	0.000	0.000	(0.416)	0.249	0.063	(0.450)	(0.005)	(0.010)	0.033	(0.010)	2.354
Jul-20	050	2.900	0.000	0.000	0.000	0.000	(0.416)	0.249	0.063	(0.450)	(0.005)	(0.010)	0.033	(0.010)	2.354
Aug-20	050	2.900	0.000	0.000	0.000	0.000	(0.416)	0.249	0.063	(0.450)	(0.005)	(0.010)	0.033	(0.010)	2.354
Sep-20	070	3.089	0.000	0.000	0.000	0.000	(0.215)	(0.416)	0.249	0.063	0.001	(0.005)	(0.010)	0.033	2.789
Oct-20	070	3.089	0.000	0.000	0.000	0.000	(0.215)	(0.416)	0.249	0.063	0.001	(0.005)	(0.010)	0.033	2.789
Nov-20	070	3.089	0.000	0.000	0.000	0.000	(0.215)	(0.416)	0.249	0.063	0.001	(0.005)	(0.010)	0.033	2.789
Dec-20	090	4.172	0.000	0.000	0.000	0.000	0.090	(0.215)	(0.416)	0.249	0.002	0.001	(0.005)	(0.010)	3.868
Jan-21	011	4.172	0.000	0.000	0.000	0.000	0.090	(0.215)	(0.416)	0.249	0.002	0.001	(0.005)	(0.010)	3.868
Feb-21	011	4.172	0.000	0.000	0.000	0.000	0.090	(0.215)	(0.416)	0.249	0.002	0.001	(0.005)	(0.010)	3.868
Mar-21	031	3.831	0.000	0.000	0.000	0.000	0.254	0.090	(0.215)	(0.416)	0.009	0.002	0.001	(0.005)	3.551
Apr-21	031	3.831	0.000	0.000	0.000	0.000	0.254	0.090	(0.215)	(0.416)	0.009	0.002	0.001	(0.005)	3.551
May-21	031	3.831	0.000	0.000	0.000	0.000	0.254	0.090	(0.215)	(0.416)	0.009	0.002	0.001	(0.005)	3.551
Jun-21	051	4.225	0.000	0.000	0.000	0.000	(0.095)	0.254	0.090	(0.215)	0.012	0.009	0.002	0.001	4.283
Jul-21	051	4.225	0.000	0.000	0.000	0.000	(0.095)	0.254	0.090	(0.215)	0.012	0.009	0.002	0.001	4.283
Aug-21	051	4.225	0.000	0.000	0.000	0.000	(0.095)	0.254	0.090	(0.215)	0.012	0.009	0.002	0.001	4.283
Sep-21	071	5.213	0.000	0.000	0.000	0.000	(0.282)	(0.095)	0.254	0.090	(0.022)	0.012	0.009	0.002	5.181
Oct-21	071	5.213	0.000	0.000	0.000	0.000	(0.282)	(0.095)	0.254	0.090	(0.022)	0.012	0.009	0.002	5.181
Nov-21	071	5.213	0.000	0.000	0.000	0.000	(0.282)	(0.095)	0.254	0.090	(0.022)	0.012	0.009	0.002	5.181