

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

AN EXAMINATION OF THE APPLICATION)
OF THE FUEL ADJUSTMENT CLAUSE OF) **CASE NO. 2019-00004**
KENTUCKY UTILITIES COMPANY FROM)
NOVEMBER 1, 2016 TO OCTOBER 31, 2018)

RESPONSE OF
KENTUCKY UTILITIES COMPANY
TO
COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION
DATED FEBRUARY 11, 2019

FILED: FEBRUARY 25, 2019

VERIFICATION

COMMONWEALTH OF KENTUCKY)
) SS:
COUNTY OF JEFFERSON)

The undersigned, **Michael P. Drake**, being duly sworn, deposes and says that he is Director, Generation Services for LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.


Michael P. Drake

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 22nd day of February 2019.

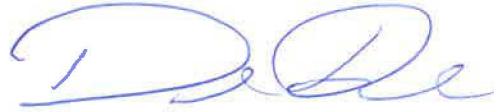

(SEAL)
Notary Public

My Commission Expires:
Judy Schooler
Notary Public, ID No. 603967
State at Large, Kentucky
Commission Expires 7/11/2022

VERIFICATION

COMMONWEALTH OF KENTUCKY)
) SS:
COUNTY OF JEFFERSON)

The undersigned, **Derek Rahn**, being duly sworn, deposes and says that he is Manager - Revenue Requirement COS for LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.



Derek Rahn

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 25th day of February 2019.

 (SEAL)

Notary Public

My Commission Expires:

Judy Schooler

Notary Public, ID No. 603967

State at Large, Kentucky

Commission Expires 7/11/2022

VERIFICATION

COMMONWEALTH OF KENTUCKY)
) SS:
COUNTY OF JEFFERSON)

The undersigned, **Charles R. Schram**, being duly sworn, deposes and says that he is Director — Power Supply, for LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.


Charles R. Schram

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 15th day of February 2019.

 (SEAL)


Notary Public

My Commission Expires:
Judy Schooler
Notary Public, ID No. 603967
~~State at Large, Kentucky~~
Commission Expires 7/11/2022

VERIFICATION

COMMONWEALTH OF KENTUCKY)
) SS:
COUNTY OF JEFFERSON)

The undersigned, **Stuart A. Wilson**, being duly sworn, deposes and says that he is Director — Energy Planning, Analysis and Forecast for LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.



Stuart A. Wilson

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 25th day of February 2019.



(SEAL)
Notary Public

My Commission Expires:
Judy Schooler
Notary Public, ID No. 603967
~~State at Large, Kentucky~~
Commission Expires 7/11/2022

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 1

Responding Witness: Delbert Billiter

Q-1. For the period from May 1, 2018, to October 31, 2018 (the last six months of the period under review), provide the amount of coal purchased in tons, and the percentage of purchases that were spot versus contract.

A-1. During the review period KU purchased 3,187,849 tons.

Spot: 8% (255,959 tons)

Contract: 92% (2,931,890 tons)

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 2

Responding Witness: Delbert Billiter

- Q-2. For the last six months of the period under review, list each coal purchase made under a long-term contract (one year or greater). For each purchase, list:
- a. Contract or purchase order number;
 - b. The supplier's name;
 - c. The location(s) of production facilities from which the coal is sourced;
 - d. The method of delivery, (i.e., barge, truck, rail, other);
 - e. The actual quantity received during the review period; and
 - f. Current price paid per ton.
- A-2. See attached. Page 1 of the attachment shows only the actual quantity received by KU under each contract and page 2 shows the actual combined quantity received by KU and LG&E under each contact.

KU Coal Purchases (unloaded) under long-term contract May 1, 2018 thru October 31, 2018						
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Contract/PO	Supplier	Production Facility	Delivery Method	Actual Quantity Received	Tonnage Requirement*	Current Price** (\$/ton)
J17002	Alliance Coal LLC	W-KY	Barge	372,694	1,000,000	\$42.50
J17005	Alliance Coal LLC	W-KY	Rail	-	500,000	\$38.50
J18003	Alliance Coal LLC	W-KY	Barge	240,441	500,000	\$38.00
J18009	Alliance Coal LLC	W-KY	Barge	68,058	575,000	\$36.00
J16012	Arch Coal Sales Company Inc.	WY	Barge	15,072	-	\$12.60
J18008	Arch Coal Sales Company Inc.	WY	Barge	261,779	337,500	\$12.00
J17001	Contura Energy	PA	Barge	30,448	-	\$38.00
J16005	Eagle River Coal LLC	IL	Barge	115,711	210,000	\$51.79
J16018	Foresight Coal Sales LLC	IL	Barge	262,470	750,000	\$42.35-IL, \$41.45-W-KY
J18005	Knight Hawk Coal, LLC	IL	Barge	165,983	250,000	\$35.05
J16007	Peabody COALSLES LLC	IN	Barge, Rail	294,016	375,000	\$45.53-B, \$45.36-B, \$42.31-R
J14001	Rhino Energy LLC	W-KY	Barge	86,611	200,000	\$37.00
J16006	The American Coal Company	IL, WV, W-KY	Barge	424,457	325,000	\$39.60-IL, \$38.60-WV, \$38.70-W-KY
J17004	The American Coal Company	IL, WV, W-KY	Barge	381,377	416,667	\$34.20-IL, \$33.20-WV, \$33.30-W-KY
J18004	Western Ky Minerals, Inc	W-KY	Barge	41,640	78,375	\$38.00
J14010C	Western Ky Consolidated Resources, LLC	W-KY	Rail, Barge	11,332	49,724	\$42.00
J16017B	Western Ky Consolidated Resources, LLC	W-KY	Rail, Barge	4,812	168,869	\$39.50
J18002B	Western Ky Consolidated Resources, LLC	W-KY	Rail, Barge	154,988	617,761	\$41.78
				2,931,890		
*Tonnage Requirement is a ratable volume for combined LG&E and KU coal station shipments						
**Prices vary by source/transportation type. Prices as of 10.1.18						
Attachment to Response to Question No. 2						BILLITER
						Page 1 of 2

Combined LG&E and KU Coal Purchases (unloaded) under long-term contract May 1, 2018 thru October 31, 2018						
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Contract/PO	Supplier	Production Facility	Delivery Method	Actual Quantity Received	Tonnage Requirement*	Current Price** (\$/ton)
J17002	Alliance Coal LLC	W-KY	Barge	957,378	1,000,000	\$42.50
J17005	Alliance Coal LLC	W-KY	Rail	381,181	500,000	\$38.50
J18003	Alliance Coal LLC	W-KY	Barge	482,798	500,000	\$38.00
J18009	Alliance Coal LLC	W-KY	Barge	557,856	575,000	\$36.00
J16012	Arch Coal Sales Company Inc.	WY	Barge	15,072	-	\$12.60
J18008	Arch Coal Sales Company Inc.	WY	Barge	261,779	337,500	\$12.00
J17001	Contura Energy	PA	Barge	30,448	-	\$38.00
J16005	Eagle River Coal LLC	IL	Barge	212,585	210,000	\$51.79
J16018	Foresight Coal Sales LLC	IL	Barge	740,790	750,000	\$42.35-IL, \$41.45-W-KY
J18005	Knight Hawk Coal, LLC	IL	Barge	236,757	250,000	\$35.05
J16007	Peabody COALSLES LLC	IN	Barge, Rail	359,503	375,000	\$45.53-B, \$45.36-B, \$42.31-R
J14001	Rhino Energy LLC	W-KY	Barge	182,752	200,000	\$37.00
J16006	The American Coal Company	IL, WV, W-KY	Barge	434,699	325,000	\$39.60-IL, \$38.60-WV, \$38.70-W-KY
J17004	The American Coal Company	IL, WV, W-KY	Barge	500,706	416,667	\$34.20-IL, \$33.20-WV, \$33.30-W-KY
J18004	Western Ky Minerals, Inc	W-KY	Barge	98,918	78,375	\$38.00
J14010C	Western Ky Consolidated Resources, LLC	W-KY	Rail, Barge	64,681	49,724	\$42.00
J16017B	Western Ky Consolidated Resources, LLC	W-KY	Rail, Barge	138,413	168,869	\$39.50
J18002B	Western Ky Consolidated Resources, LLC	W-KY	Rail, Barge	525,381	617,761	\$41.78
				6,181,695	6,353,896	
*Tonnage Requirement is a ratable volume for combined LG&E and KU coal station shipments						
**Prices vary by source/transportation type. Prices as of 10.1.18						
Attachment to Response to Question No. 2						BILLITER
						Page 2 of 2

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 3

Responding Witness: Delbert Billiter

Q-3.

- a. As of the last day of the review period, state the coal inventory level in tons, and in number of days' supply. Provide this information by generating station and in the aggregate.
- b. Describe the criteria used to determine the number of days' supply.
- c. State the target coal inventory level for each generating station, and for the total system.
- d. If actual coal inventory exceeds the target inventory by ten days' supply, state the reasons for the excessive inventory.
- e. (1) State whether any significant changes in the current coal inventory target are expected within the next 12 months. (2) If so, state the expected change, and the reasons for this change.

A-3. a. As of October 31, 2018:

EW Brown	177,129 Tons; 28 Days	Target 30-55 Days
Ghent ¹	228,616 Tons; 11 Days	Target 20-38 Days
<u>Trimble County^{2,3}</u>	<u>202,273 Tons; 32 Days</u>	<u>Target 21-43 Days</u>
Total	608,018 Tons; 18 Days	Target 23-44 Days

¹Inventory listed for Ghent does not include the 200,000 tons sold to the Refined Coal facility operator that remains in the onsite coal pile, as previously discussed in Case No. 2015-00264.

²Inventory listed for Trimble County does not include the 42,600 tons sold to the Refined Coal facility operator that remains in the onsite coal pile, as previously discussed in Case No. 2015-00264.

³Trimble County coal inventory tons is KU's allocated ownership of both PRB and High Sulfur coals used for Trimble County Unit 2. The

days in inventory and target range are calculated on a combined basis regardless of ownership.

- b. The method of calculating days in inventory is based on each plant's coal burn capability (coal tons in inventory divided by 90% of each generating unit's heat input description from its air permit to operate).

Upper and lower days of inventory targets were established for each plant taking into consideration the plant's operating parameters. Each plant's "least cost" inventory range is established annually during the planning process taking into account the risk of coal delivery disruptions, potential coal burn volatility, procurement reaction time for short term coal supply, cost of unserved energy, and current coal and electricity prices.

- c. See (a) above.
- d. No station's inventory exceeds the target amount. Note that the listed inventory level at Ghent (11 days) is much lower than the lower target. However, this does not include the 200,000 tons of inventory sold to the Refined Coal facility operator that remains onsite and is available for KU's use. Including this amount results in an inventory of 20 days. In addition, the Ghent barge unloader was on a scheduled outage at the end of the review period preventing coal unloading. The unloader outage was completed in early November and total inventory (including that owned by the Refined Coal facility operator) onsite on December 31, 2018 was 32 days.
- e. (1) When E.W. Brown Units 1 and 2 are retired, the Brown coal inventory targets will be adjusted to address the new station status. KU does not expect significant changes to its current coal inventory target levels for any other station; however, during the Companies' planning cycle minor adjustments may be made to the inventory targets if warranted.

(2) Not applicable.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 4

Responding Witness: Delbert Billiter

Q-4. List each written coal-supply solicitation issued during the last six months of the period under review.

- a. For each solicitation, provide the date of the solicitation, the type of solicitation (contract or spot), the quantities solicited, a general description of the quality of coal solicited, the time period over which deliveries were requested, and the generating unit(s) for which the coal was intended.
- b. For each solicitation, state the number of vendors to whom the solicitation was sent, the number of vendors who responded, and the selected vendor(s). Provide the bid tabulation sheet or corresponding document that ranks the proposals. (This document shall identify all vendors who made offers.) State the reasons for each selection. For each lowest-cost bid not selected, explain why the bid was not selected.

A-4. a. **SOLICITATION 1**

Date: August 17, 2018
Contract/Spot: Spot
Quantities: up to 100,000 tons per month
Quality: Suitable for KU's Ghent and E.W. Brown Stations, LG&E's Mill Creek Station, and KU's and LG&E's Trimble County Station
Period: October 1, 2018 through December 31, 2018 – Spot
Generating Units: all units at Ghent, E.W. Brown, Trimble County and Mill Creek Stations

- b. Number of vendors sent a solicitation: 112
Number of vendors responded: 3 companies / 3 offers
Selected vendor(s): The vendor selected were based upon the lowest evaluated delivered cost, operational and environmental requirements of the units and other factors impacting coal supply reliability as noted on the bid evaluation sheets attached.

High Sulfur – Spot
Consolidation Coal Company – J18030

The bid analysis information is confidential and proprietary and is being provided under seal pursuant to a petition for confidential protection.

The entire attachment is
Confidential and
provided separately
under seal.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 5

Responding Witness: Delbert Billiter

- Q-5. List each oral coal-supply solicitation issued during the last six months of the period under review.
- a. For each solicitation, state why the solicitation was not written, the date(s) of the solicitation, the quantities solicited, a general description of the quality of coal solicited, the time period over which deliveries were requested, and the generating unit(s) for which the coal was intended.
 - b. For each solicitation, identify all vendors solicited and the vendor(s) selected. Provide the bid tabulation sheet or other document that ranks the proposals. (This document shall identify all vendors who made offers.) State the reasons for each selection. For each lowest-cost bid not selected, explain why the bid was not selected.
- A-5. There were no oral coal-supply solicitations during the period under review.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 6

Responding Witness: Charles R. Schram

- Q-6. For the last six months of the period under review, list each vendor from whom natural gas was purchased for generation and the quantities and the nature of each purchase (i.e., spot or contract). Provide the percentage of purchases that were spot versus contract.
- A-6. See attached for the list of vendors, associated quantities, and the nature of each natural gas purchase. During the last six months of the period under review, 66 percent of purchases were made on a spot basis and 33 percent purchased forward. Forward purchases of natural gas are for the Cane Run 7 combined cycle unit.

<u>Vendor</u>	<u>Type</u> ¹	<u>MMBtu</u>
BP Energy Company	Spot	1,018,569
CenterPoint Energy Service, Inc.	Spot	119,700
Cima Energy , LP	Spot	581,473
Colonial Energy, Inc.	Spot	96,608
ConocoPhillips Company	Spot	101,100
Direct Energy Business Marketing, LLC	Spot	72,700
DTE Energy Trading, Inc.	Spot	10,000
Eco-Energy, LLC	Spot	136,500
EDF Trading North America, LLC	Spot	14,300
Exelon Generation Company, LLC	Spot	763,754
J. Aron & Company LLC	Spot	55,200
Macquarie Energy, LLC	Spot	162,311
Mercuria Energy America, Inc.	Spot	45,000
NextEra Energy Marketing, LLC	Spot	2,152,971
NJR Energy Services Company	Spot	81,000
Range Resources - Appalachia, LLC	Spot	190,300
Sequent Energy Management, L.P.	Spot	238,800
Shell Energy North America (US), L.P.	Spot	1,834,425
Spire Marketing Inc.	Spot	492,105
SWN Energy Services Company, LLC	Spot	188,000
Tenaska Marketing Ventures	Spot	6,351,068
Texla Energy Management, Inc.	Spot	188,800
TrailStone NA Logistics, LLC	Spot	120,000
Tennessee Valley Authority	Spot	83,000
Twin Eagle Resource Management, LLC	Spot	137,900
Uniper Global Commodities North America LLC	Spot	654,472
United Energy Trading, LLC	Spot	8,399
Wells Fargo Commodities, LLC	Spot	30,000
Columbia Gas of Kentucky, Inc.	GSO Customer ²	213
LGE-GAS SUPPLY	Special Contract ³	179,948
DTE Energy Trading, Inc.	Forward	1,850,000
J. Aron & Company LLC	Forward	1,528,867
Tenaska Marketing Ventures	Forward	1,540,000
Uniper Global Commodities North America LLC	Forward	3,050,000
	Total Volume	24,077,483

¹ Spot refers to gas purchases delivered during the next gas day following the transaction. Friday transactions include Sat, Sun, & Mon (holiday weekends can cover four days). Forward refers to gas purchased for delivery periods typically starting after the current month.

² KU is a General Sales Other (GSO) customer of Columbia Gas of Kentucky for the Haefling Plant; no volume purchase commitments.

³ LG&E is the local gas distribution company; no volume purchase commitments.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 7

Responding Witness: Charles R. Schram

- Q-7. For the last six months of the period under review, state if there were any instances in which a natural gas generating unit could not be operated when it otherwise would have run, due to pipeline constraints or natural gas being unavailable.
- A-7. There were no instances of generating unit restrictions due to pipeline constraints or natural gas unavailability.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 8

Responding Witness: Delbert Billiter / Charles R. Schram

- Q-8. State if there have been any changes to hedging activities for coal or natural gas purchases used for generation since the previous FAC review proceeding. If so, describe the changes in detail.
- A-8. KU does not engage in financial hedging activities for its coal or natural gas purchases.

For coal, there has been no changes to the physical hedging practices and only a small modification, for year 1 only, to the guidelines since the previous review proceeding. KU uses the following guidelines in utilization of coal under contract for the minimum projected requirement:

1 year out	98 – 102% (previously 95 – 100%)
2 years out	80 – 90%
3 years out	40 – 90%
4 years out	30 – 70%
5 years out	10 – 50%
6 years out	0 – 30%

The natural gas fuel procurement guidelines have been updated by marginally increasing the amount of gas targeted for purchase during the subsequent three year period. The current year (prior to the three years addressed in the guidelines) was also redefined to include January and February of the next calendar year, recognizing the seasonal considerations in purchasing natural gas for the winter months. For the current year, the Company's practice continues to target purchasing no more than 50 percent of the forecasted burn at CR7 for the year.

Guidelines for forward purchases in Years 1-3 (Year 1 is defined as current year plus one year) are based on a percentage of the minimum forecasted CR7 natural

gas requirement. The minimum forecasted requirement is established during the annual business planning process and is calculated based on the minimum generation required from CR7 to meet the projected annual system electric demand. The guidelines for the amount of gas the Company will procure for Years 1-3 are listed below.

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>
Prior guideline	10-50%	0-30%	0-10%
Updated guideline	40-60%	20-40%	0-20%

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 9

Responding Witness: Delbert Billiter / Charles R. Schram

Q-9.

- a. State whether KU has audited any of its fuel or transportation contracts during the last six months of the period under review.
- b. If so, for each audited contract:
 - (1) Identify the contract;
 - (2) Identify the auditor; and
 - (3) State the results of the audit and describe the actions that KU took as a result of the audit.

A-9.

- a. No. KU has not conducted any financial audits of fuel or transportation contracts.

KU's Manager Fuels Technical Services or KU's Mining Engineer conducts scheduled on-site reviews and inspections of the mining operations, scales and sampling systems of each vendor up to twice a year, and likewise may conduct unscheduled visits. Additionally, KU employees may visit a vendor as needed to address problems and issues at any time.

- b. Not applicable.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 10

Responding Witness: Delbert Billiter / Charles R. Schram

Q-10.

- a. State whether KU is currently involved in any litigation with its current or former fuel suppliers or transportation vendors.
- b. If yes, for each litigation:
 - (1) Identify the supplier or vendor;
 - (2) Identify the contract involved;
 - (3) State the potential liability or recovery to KU;
 - (4) List the issues presented; and
 - (5) Provide a copy of the complaint or other legal pleading that initiated the litigation and any answers or counterclaims. If a copy has previously been filed with the Commission, provide the date on which it was filed and the case in which it was filed.
- c. State the current status of all litigation with suppliers or vendors.

A-10.

- a. KU is not currently involved in any litigation with its fuel suppliers or transportation vendors.
- b. Not applicable.
- c. Not applicable.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 11

Responding Witness: Delbert Billiter / Charles R. Schram

Q-11.

- a. For the last six months of the period under review, state if there have been any changes to KU's written policies and procedures regarding its fuel procurement?
- b. If yes:
 - (1) Describe the changes;
 - (2) Provide the written policies and procedures as changed;
 - (3) State the date(s) the changes were made; and
 - (4) Explain why the changes were made.
- c. If no, provide the date KU's current fuel procurement policies and procedures were last changed, when they were last provided to the Commission, and identify the proceeding in which they were provided.

A-11.

- a-c. During the period under review, there were no changes to The Corporate Fuels and By-Products Procurement Procedures for coal. The Corporate Fuels and By-Products Procurement Procedures were last updated April 1, 2017 and were provided to the Commission in Case No. 2017-00284 in response to Question No. 15.

During the period under review, there were no changes to the Power Supply Commodity Policy – Natural Gas Fuel for Generation. The Power Supply Commodity Policy – Natural Gas Fuel for Generation was last updated August 1, 2017 and was provided to the Commission in Case No. 2018-00020 in response to Question No. 11.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 12

Responding Witness: Stuart Wilson

Q-12. For the last six months of the period under review and for the years 2019 and 2020, list all firm power commitments for KU for (a) purchases and (b) sales. This list shall identify the electric utility, the amount of commitment in MW, and the purpose of the commitment (i.e., peaking, emergency).

A-12. a. Firm Purchases

The firm purchases from Ohio Valley Electric Corporation (OVEC) for the review period are shown in the table below. KU will purchase its participation ratio (2.5%) of the OVEC released capacity for the months in question.

Utility	Period	Companies' Amt (MW)	KU Portion (MW)	Purpose
OVEC	May 2018	~ 88	~ 27	Baseload
OVEC	Jun 2018	~ 154	~ 47	Baseload
OVEC	Jul 2018	~ 152	~ 47	Baseload
OVEC	Aug 2018	~ 152	~ 47	Baseload
OVEC	Sep 2018	~ 136	~ 42	Baseload
OVEC	Oct 2018	~ 90	~ 28	Baseload
OVEC	Jan 2019	~ 158	~ 49	Baseload
OVEC	Feb 2019	~ 158	~ 49	Baseload
OVEC	Mar 2019	~ 158	~ 49	Baseload
OVEC	Apr 2019	~ 119	~ 37	Baseload
OVEC	May 2019	~ 85	~ 26	Baseload
OVEC	Jun 2019	~ 143	~ 44	Baseload
OVEC	Jul 2019	~ 152	~ 47	Baseload
OVEC	Aug 2019	~ 152	~ 47	Baseload
OVEC	Sep 2019	~ 119	~ 37	Baseload
OVEC	Oct 2019	~ 99	~ 30	Baseload
OVEC	Nov 2019	~ 143	~ 44	Baseload
OVEC	Dec 2019	~ 158	~ 49	Baseload
OVEC	Jan 2020	~ 158	~ 49	Baseload
OVEC	Feb 2020	~ 158	~ 49	Baseload
OVEC	Mar 2020	~ 155	~ 48	Baseload
OVEC	Apr 2020	~ 124	~ 38	Baseload
OVEC	May 2020	~ 85	~ 26	Baseload
OVEC	Jun 2020	~ 145	~ 45	Baseload
OVEC	Jul 2020	~ 152	~ 47	Baseload
OVEC	Aug 2020	~ 152	~ 47	Baseload
OVEC	Sep 2020	~ 100	~ 31	Baseload
OVEC	Oct 2020	~ 102	~ 31	Baseload
OVEC	Nov 2020	~ 154	~ 47	Baseload
OVEC	Dec 2020	~ 158	~ 49	Baseload

b. Firm Sales - None

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 13

Responding Witness: Derek A. Rahn

- Q-13. Provide a monthly billing summary of sales to all electric utilities for the last six months of the period under review.
- A-13. See Page 2, Sheet 1 of 3 of the May 2018 through October 2018 monthly Form B filings that were previously filed with the Commission.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 14

Responding Witness: Derek A. Rahn

Q-14. Describe the effect on the FAC calculation of line losses related to:

- a. Intersystem sales when using a third-party transmission system, and
- b. Intersystem sales when not using a third-party transmission system.

A-14.

- a-b. Line losses related to inter-system sales are calculated using a loss factor of 0.5% whether the inter-system sale requires a third party transmission system or not. This practice is consistent with the Commission's June 7, 2013, Amended Order in Case No. 2012-00552.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 15

Responding Witness: Michael P. Drake

Q-15. Provide a list, in chronological order, showing by unit, any scheduled, actual, and forced outages between for the last six months of the period under review. Provide a key for any information that is abbreviated.

A-15. See attached.

Kentucky Utilities Company
May 2018 through October 2018

Unit and Outage Type (F=Forced; S=Scheduled)	Scheduled		Actual*		HOURS OF DURATION		REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE	
	FROM	TO	FROM	TO	Scheduled	Actual*		
E. W. Brown Unit 1 - Coal - 107 MW	S	4/14/2018 0:00	5/7/2018 0:00	4/13/2018 5:30	5/1/2018 0:00	552:00	426:30	Minor boiler outage
In-service May 1957	S	4/14/2018 0:00	5/7/2018 0:00	5/1/2018 0:00	5/6/2018 15:01	552:00	135:01	FGD Repairs
	S	7/26/2018 6:00	7/27/2018 8:30	7/26/2018 6:00	7/27/2018 8:30	26:30	26:30	Generator hydrogen cooler leak repair
	F			10/27/2018 0:23	10/27/2018 16:52		16:29	Repair turbine/generator turning gear
	F			10/28/2018 23:36	10/29/2018 8:55		9:19	Repair turbine/generator turning gear
E. W. Brown Unit 2 - Coal - 168 MW	S	4/7/2018 0:00	5/7/2018 0:00	4/13/2018 23:24	5/1/2018 0:00	720:00	408:36	Minor boiler outage
In-service June 1963	S	4/7/2018 0:00	5/7/2018 0:00	5/1/2018 0:00	5/6/2018 15:01	720:00	135:01	FGD Repairs
	F			5/23/2018 10:32	5/23/2018 18:23		7:51	Generator hydrogen cooler leak repair
	S	5/31/2018 18:34	6/1/2018 3:28	5/31/2018 18:34	6/1/2018 3:28	8:54	8:54	Generator hydrogen cooler leak repair
	S	6/3/2018 15:07	6/3/2018 21:30	6/3/2018 15:07	6/3/2018 21:30	6:23	6:23	Generator hydrogen cooler leak detector repair
	F			6/3/2018 21:30	6/4/2018 15:44		18:14	Generator hydrogen cooler leak detector repair (continued)
	F			6/5/2018 10:08	6/6/2018 13:27		27:19	Boiler waterwall tube leak repair
	S	7/27/2018 6:00	7/27/2018 13:00	7/27/2018 6:00	7/27/2018 13:00	7:00	7:00	Precipitor Grounding
E. W. Brown Unit 3 - Coal - 413 MW	S	4/14/2018 0:00	5/7/2018 0:00	4/14/2018 1:17	5/1/2018 0:00	552:00	406:43	Minor boiler outage
In-service July 1971	S	5/7/2018 0:00	5/7/2018 9:44	5/7/2018 0:00	5/7/2018 9:44	9:44	9:44	Minor boiler outage (extension)
	S	4/14/2018 0:00	5/7/2018 0:00	5/1/2018 0:00	5/7/2018 0:00	552:00	144:00	FGD Repairs
	F			7/20/2018 18:20	8/5/2018 8:48		374:28	Cooling tower storm damage repairs
	S	8/22/2018 21:14	8/24/2018 12:20	8/22/2018 21:14	8/24/2018 12:20	39:06	39:06	Condenser tube leak repair
	S	9/15/2018 22:19	9/18/2018 23:41	9/15/2018 22:19	9/18/2018 23:41	73:22	73:22	Hotwater recirculation pump general maintenance
	S	10/14/2018 21:59	10/22/2018 0:00	10/14/2018 21:59	10/22/2018 0:00	170:01	170:01	Replace hotwater recirculation pump
	S	10/22/2018 0:00	10/22/2018 8:02	10/22/2018 0:00	10/22/2018 8:02	8:02	8:02	Replace hotwater recirculation pump (extension)
Ghent Unit 1 - Coal - 479 MW		No outages > or = 6 hours						
In-service February 1974								
Ghent Unit 2 - Coal - 486 MW	F			9/7/2018 17:03	9/11/2018 16:01		94:58	Boiler superheat and waterwall tube leak repairs
In-service April 1977								
Ghent Unit 3 - Coal - 476 MW	F			6/16/2018 23:21	6/17/2018 6:07		6:46	Generator stator system transmitter failure

Kentucky Utilities Company
May 2018 through October 2018

Unit and Outage Type (F=Forced; S=Scheduled)	Scheduled		Actual*		HOURS OF DURATION		REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE	
	FROM	TO	FROM	TO	Scheduled	Actual*		
In-service May 1981	S	8/31/2018 21:30	9/1/2018 19:35	8/31/2018 21:30	9/1/2018 19:35	22:05	22:05	Boiler superheat tube leak repair
	S	9/11/2018 20:53	9/12/2018 13:32	9/11/2018 20:53	9/12/2018 13:32	16:39	16:39	Boiler superheat tube leak repair
	S	9/22/2018 0:00	11/19/2018 0:00	9/21/2018 23:05	11/19/2018 0:00	1392:00	1392:55	Turbine major overhaul
Ghent Unit 4 - Coal - 478 MW	S	4/7/2018 0:00	5/7/2018 0:00	5/1/2018 0:00	5/2/2018 10:59	720:00	34:59	Boiler feed pump turbines overhaul
In-service August 1984	F			6/13/2018 13:18	6/14/2018 20:21		31:03	Condensate supply line to boiler feed pump seal injection leak repair
	S	6/22/2018 19:20	6/24/2018 12:00	6/22/2018 19:20	6/24/2018 12:00	40:40	40:40	Replace condensate line to feedwater heater stop/check valve
	S	6/24/2018 12:00	6/24/2018 21:53	6/24/2018 12:00	6/24/2018 21:53	9:53	9:53	Replace condensate line to feedwater heater stop/check valve (extension)
Trimble County Unit 2 - Coal - 570 MW	S	4/30/2018 0:00	5/12/2018 23:11	4/30/2018 0:00	5/12/2018 23:11	311:11	311:11	Major Turbine Overhaul
In-service January 2011	F			5/13/2018 0:19	5/13/2018 6:35		6:16	Gas Ignition System Error
75% ownership share of 732 MW jointly owned with LG&E	S	5/13/2018 12:18	5/19/2018 1:35	5/13/2018 12:18	5/19/2018 1:35	133:17	133:17	Turbine bearing inspection and adjustment
	S	5/19/2018 13:47	5/24/2018 16:19	5/19/2018 13:47	5/24/2018 16:19	122:32	122:32	Main stop valves
	F			5/27/2018 17:29	5/28/2018 10:16		16:47	Forced Draft Fan Repair
	F			5/29/2018 20:05	5/30/2018 7:10		11:05	Boiler Feed Pump Control Error
	S	6/21/2018 2:53	6/25/2018 5:13	6/21/2018 2:53	6/25/2018 5:13	98:20	98:20	Main stop valves
Cane Run Unit 7 - Gas CC - 683 MW	S	10/11/2018 22:08	10/13/2018 0:00	10/11/2018 22:08	10/13/2018 0:00	25:52	25:52	Crank test auxiliary power diesel generator
In-service June 2015	S	10/13/2018 0:00	10/29/2018 0:00	10/13/2018 0:00	11/5/2018 0:00	384:00	552:00	General Turbine Inspection
Jointly owned with LG&E								
E. W. Brown Unit 5 - Gas CT - 130 MW	S	6/6/2018 6:52	6/6/2018 14:38	6/6/2018 6:52	6/6/2018 14:38	7:46	7:46	Inspection of turbine instrumentation
In-service June 2001	F			8/23/2018 19:00	8/24/2018 13:33		18:33	Replace turbine emergency DC lube oil pump motor
Jointly owned with LG&E	S	9/13/2018 6:20	9/13/2018 14:40	9/13/2018 6:20	9/13/2018 14:40	8:20	8:20	Install cable to control cabinet enclosure
	S	9/21/2018 7:54	9/22/2018 0:00	9/21/2018 7:54	9/22/2018 0:00	16:06	16:06	Generator and controls repairs begin early
	S	9/22/2018 0:00	10/1/2018 0:00	9/22/2018 0:00	10/1/2018 0:01	216:00	216:01	Generator and controls repairs
	S	10/1/2018 0:01	10/1/2018 14:50	10/1/2018 0:01	10/1/2018 14:50	14:49	14:49	Generator and controls repairs (extension)
	S	10/12/2018 5:07	10/12/2018 16:01	10/12/2018 5:07	10/12/2018 16:01	10:54	10:54	Main transformer testing
	F			10/23/2018 9:22	10/24/2018 17:04		31:42	Rotor barring pump motor replaced
E. W. Brown Unit 6 - Gas CT - 171 MW	S	5/7/2018 6:28	5/7/2018 14:56	5/7/2018 6:28	5/7/2018 14:56	8:28	8:28	Ignition system repairs

*Actual outage dates and hours of duration include scheduled and forced outages.

Kentucky Utilities Company
May 2018 through October 2018

Unit and Outage Type (F=Forced; S=Scheduled)	Scheduled		Actual*		HOURS OF DURATION		REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE	
	FROM	TO	FROM	TO	Scheduled	Actual*		
In-service August 1999	S	8/15/2018 6:27	8/15/2018 16:53	8/15/2018 6:27	8/15/2018 16:53	10:26	10:26	Voltage regulator annual maintenance
Jointly owned with LG&E								
E. W. Brown Unit 7 - Gas CT - 171 MW	F			6/18/2018 12:58	6/19/2018 8:00		19:02	Control card replaced
In-service August 1999	S	9/12/2018 5:50	9/12/2018 15:33	9/12/2018 5:50	9/12/2018 15:33	9:43	9:43	Substation breaker testing
Jointly owned with LG&E								
E. W. Brown Unit 8 - Gas CT - 128 MW	S	6/22/2018 6:22	6/22/2018 12:54	6/22/2018 6:22	6/22/2018 12:54	6:32	6:32	Gas flow meter orifice inspection
In-service February 1995	S	10/11/2018 6:21	10/11/2018 12:34	10/11/2018 6:21	10/11/2018 12:34	6:13	6:13	Gas control valve inspection
E. W. Brown Unit 9 - Gas CT - 138 MW	S	5/9/2018 5:55	5/25/2018 14:04	5/9/2018 5:55	5/25/2018 14:04	392:09	392:09	Row 2 turbine vane replacement
In-service January 1995								
E. W. Brown Unit 10 - Gas CT - 138 MW		No outages > or = 6 hours						
In-service December 1995								
E. W. Brown Unit 11 - Gas CT - 128 MW	S	9/29/2018 0:00	11/26/2018 0:00	9/28/2018 5:15	11/25/2018 0:00	1392:00	1386:45	Turbine overhaul
In-service May 1996								
Haefling Unit 1 - Gas CT - 14 MW	S	6/11/2018 1:00	6/15/2018 13:58	6/11/2018 1:00	6/15/2018 13:58	108:58	108:58	Replace switchyard 69KV power transformer
In-service October 1970								
Haefling Unit 2 - Gas CT - 14 MW	S	6/11/2018 1:00	6/15/2018 13:58	6/11/2018 1:00	6/15/2018 13:58	108:58	108:58	Replace switchyard 69KV power transformer
In-service October 1970								
Paddys Run Unit 13 - Gas CT - 175 MW	S	9/21/2018 5:45	9/24/2018 0:00	9/21/2018 5:45	9/24/2018 0:00	66:15	66:15	Generator Inspection
In-service June 2001	S	9/24/2018 0:00	9/24/2018 19:00	9/24/2018 0:00	9/24/2018 19:00	19:00	19:00	Generator Inspection
Jointly owned with LG&E	S	10/6/2018 0:00	10/15/2018 0:00	10/27/2018 4:50	11/7/2018 11:43	216:00	270:53	Combustion Turbine Inspection
Trimble County Unit 5 - Gas CT - 179 MW	S	7/20/2018 23:04	7/22/2018 12:00	7/20/2018 23:04	7/22/2018 12:00	36:56	36:56	Generator Step Up (GSU) transformer oil leak repair
In-service May 2002	S	9/25/2018 2:00	9/25/2018 15:56	9/25/2018 2:00	9/25/2018 15:56	13:56	13:56	Switchyard maintenance/repair
Jointly owned with LG&E								
Trimble County Unit 6 - Gas CT - 179 MW	S	9/25/2018 5:28	9/25/2018 15:56	9/25/2018 5:28	9/25/2018 15:56	10:28	10:28	Switchyard maintenance/repair
In-service May 2002								
Jointly owned with LG&E								

*Actual outage dates and hours of duration include scheduled and forced outages.

Kentucky Utilities Company
 May 2018 through October 2018

Unit and Outage Type (F=Forced; S=Scheduled)		Scheduled		Actual*		HOURS OF DURATION		REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
		FROM	TO	FROM	TO	Scheduled	Actual*	
Trimble County Unit 7 - Gas CT - 179 MW	S	7/16/2018 22:00	7/19/2018 19:25	7/16/2018 22:00	7/19/2018 19:25	69:25	69:25	Combustion Turbine Exhaust duct/stack
In-service June 2004	S	9/25/2018 5:28	9/25/2018 16:11	9/25/2018 5:28	9/25/2018 16:11	10:43	10:43	Switchyard maintenance/repair
Jointly owned with LG&E	S	9/28/2018 7:09	9/28/2018 14:52	9/28/2018 7:09	9/28/2018 14:52	7:43	7:43	Combustion Turbine Crane
	S	10/6/2018 0:00	11/19/2018 0:00	10/10/2018 7:04	11/17/2018 19:03	1056:00	923:59	Combustion Turbine Gas Path Inspection
Trimble County Unit 8 - Gas CT - 179 MW	S	4/28/2018 0:00	5/7/2018 0:00	5/19/2018 0:00	5/27/2018 9:01	216:00	201:01	Circuit Breaker - Repair
In-service June 2004	S	11/3/2018 0:00	11/19/2018 0:00	10/20/2018 0:17	11/3/2018 7:42	384:00	343:25	Turbine control system maintenance
Jointly owned with LG&E								
Trimble County Unit 9 - Gas CT - 179 MW	S	4/21/2018 0:00	5/7/2018 0:00	5/11/2018 21:45	5/27/2018 10:38	384:00	372:53	Circuit Breaker - Repair
In-service July 2004	S	6/9/2018 3:14	6/9/2018 21:32	6/9/2018 3:14	6/9/2018 21:32	18:18	18:18	Lube oil system
Jointly owned with LG&E	F			10/6/2018 10:57	10/7/2018 15:40		28:43	Turbine Control System
	S	10/20/2018 7:00	10/20/2018 15:00	10/20/2018 7:00	10/20/2018 15:00	8:00	8:00	Startup System
Trimble County Unit 10 - Gas CT - 179 MW	S	4/28/2018 0:00	5/14/2018 0:00	5/19/2018 0:00	6/1/2018 12:17	384:00	324:17	Circuit Breaker - Repair
In-service July 2004	F			9/7/2018 21:47	9/8/2018 20:45		22:58	Fuel Gas System
Jointly owned with LG&E	S	10/20/2018 7:00	10/20/2018 15:00	10/20/2018 7:00	10/20/2018 15:00	8:00	8:00	Startup System

*Actual outage dates and hours of duration include scheduled and forced outages.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 16

Responding Witness: Stuart Wilson

Q-16. For the last six months of the period under review, provide the monthly capacity factor at which each generating unit operated.

A-16. See attached.

Kentucky Utilities
Unit Capacity Factors by Month

Unit	Capacity Factor (%) (Net MWh)/(period hrs x MW rating)					
	May 2018	Jun 2018	Jul 2018	Aug 2018	Sep 2018	Oct 2018
Brown 1	24.5	42.5	25.2	0.0	0.0	31.0
Brown 2	35.3	43.2	32.0	0.0	0.0	53.9
Brown 3	37.0	43.9	31.1	33.0	52.5	44.6
Brown 5	17.5	15.2	12.0	14.2	9.2	12.0
Brown 6	8.7	0.0	2.6	0.0	0.7	1.4
Brown 7	14.5	1.9	6.4	2.8	3.7	3.0
Brown 8	2.0	6.3	8.2	0.8	5.7	2.0
Brown 9	1.4	2.0	0.0	0.6	2.3	6.6
Brown 10	5.5	3.5	2.5	0.9	3.9	4.8
Brown 11	0.6	0.1	1.6	5.8	4.4	0.0
Brown Solar	27.7	28.7	28.1	24.1	17.6	18.6
Cane Run 7	90.6	62.6	81.0	91.9	88.0	30.6
Dix 1	28.2	37.3	52.3	17.3	32.8	59.9
Dix 2	36.7	39.7	52.3	17.0	31.8	58.8
Dix 3	28.2	30.4	52.3	17.0	37.1	52.3
Ghent 1	82.0	81.6	75.7	76.0	71.3	80.1
Ghent 2	81.3	83.4	81.3	82.3	64.5	92.2
Ghent 3	71.3	70.7	67.0	65.7	42.5	0.0
Ghent 4	69.1	64.4	67.5	71.1	64.5	70.2
Haefling 1-2	0.0	0.0	0.0	0.0	0.0	0.0
Paddy's Run 13	8.1	6.5	6.9	6.0	4.2	5.4
Trimble County 2	14.4	81.9	94.5	95.9	93.7	96.6
Trimble County 5	4.8	2.3	0.7	12.7	13.3	24.7
Trimble County 6	9.5	4.9	5.9	11.1	10.7	20.9
Trimble County 7	20.3	16.6	15.5	19.6	12.5	6.6
Trimble County 8	13.6	16.0	14.2	13.4	6.9	3.8
Trimble County 9	6.9	8.3	14.1	7.5	5.6	13.7
Trimble County 10	0.3	2.9	2.1	1.1	1.8	3.9

Notes: 1 – Trimble County values reflect 100% of the unit. Trimble County 2 is owned by KU (60.75%), LG&E (14.25%), IMPA (12.88%), and IMEA (12.12%).

2 – The North American Electric Reliability Council Generation Availability Data System defines capacity factor as the value equal to the net MWh produced divided by the product of the hours in the period and the unit rating.

3 – Jointly owned units are shown for both LG&E and KU and include Brown 5-7, Cane Run 7, Paddy's Run 13, Trimble County 2, and Trimble County 5-10.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 17

Responding Witness: Michael P. Drake

Q-17.

- a. For the last six months of the period under review, explain if KU made any changes to its maintenance and operation practices, or completed any specific generation efficiency improvements that affect fuel usage at KU's generation facilities.
- b. Describe the impact of these changes on KU's fuel usage.

A-17.

- a-b. There have been no maintenance or operation practice changes that affect fuel usage during the period under review. KU strives to maintain unit efficiency through routine cyclic planned outage maintenance. This maintenance work continues to focus on reestablishing expected turbine efficiency through continuous monitoring of all plant systems during operation. KU contracts Black and Veatch to provide this monitoring on larger units to identify trends which indicate a potential efficiency loss of any system component. Black and Veatch sends notification to the generating stations which track the potential issues through resolution. In evaluating potential major component projects or replacements that may impact efficiency, KU must balance any potential efficiency benefit associated with the project against both costs and potential implications under the Clean Air Act. KU has not realized any efficiency improvements through major component projects during this period.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 18

Responding Witness: Delbert Billiter / Charles R. Schram

- Q-18. State whether KU is aware of any violations of its policies and procedures regarding fuel procurement that occurred prior to or during the last six months of the period under review.
- A-18. KU is not aware of any violations of its policies and procedures regarding fuel procurement that occurred prior to or during the period under review.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 19

Responding Witness: Derek A. Rahn

Q-19. State whether KU is aware of any violations of 807 KAR 5:056 that occurred prior to or during the last six months of the period under review.

A-19. KU is not aware of any violations of 807 KAR 5:056 that occurred prior to or during the period under review.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 20

Responding Witness: Derek A. Rahn

- Q-20. State whether all fuel contracts related to commodity and transportation have been filed with the Commission. If any contracts have not been filed, explain why they have not been filed and provide a copy.
- A-20. For the periods under review, all fuel contracts related to commodity and/or transportation have been filed with the Commission.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 21

Responding Witness: Delbert Billiter

Q-21. For each generating station, state the methods of coal delivery currently available.

A-21.

- a. E.W. Brown – Rail and Truck
- b. Ghent – Barge
- c. Trimble County - Barge

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 22

Responding Witness: Derek A. Rahn

- Q-22. If a change in the base fuel cost is proposed, state the month to be used as the base period (b). If the base period results in a fuel cost other than one representative of current costs as prescribed by 807 KAR 5:056, Section 1 (2), explain why this base period was selected. If no change is proposed, include an explanation of the reason(s) KU believes the current base period fuel cost should remain unchanged.
- A-22. After reviewing actual FAC costs for the base period November 2016 through October 2018, Kentucky Utilities ("KU") recommends that the per unit fuel cost for the December 2017 expense month be used as the base period. The attached table shows that the per unit fuel cost for December 2017 was \$0.02452/kWh. KU estimates that the average per unit fuel cost for the calendar year 2019 will be \$0.02483/kWh and the average per unit fuel cost for the calendar year 2020 will be \$0.02415/kWh. The per unit fuel cost for December 2017 of \$0.02452/kWh approximates the weighted average of the projected fuel estimates for the two-year period of \$0.02449/kWh.

Since no actual per unit fuel cost during the two-year period under review equals the projected per unit fuel cost, KU recommends the use of the actual per unit fuel cost for December 2017 because this is the actual cost from the two-year expense period closest to the weighted average projected cost for the next two-year period. This methodology is consistent with what has been used and accepted in previous two year cases, and therefore KU believes December 2017 is the appropriate month to use as the base FAC for the next two-year period.

KU determined the projected $F(m) / S(m)$ results using:

- projected coal, oil, and natural gas expenses,
- projected purchased power expenses, off-system sales revenues and;
- all associated generated, purchased and sold kilowatt-hours for the period.

Kentucky Utilities
Retail Fuel Adjustment Clause
Fuel Cost per kWh
For the Expense Months Ending October 31, 2018

Actual*							
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
Line No.	Expense Month	Billing Month	Fuel Expense	kWh Sales	Expense Month (\$/kWh) (Col. c / d)	FAC Base (\$/kWh)	Billing Month FAC Factor (Col. e - f)
(1)	Nov-16	Jan-17	\$ 34,397,636	1,526,796,293	\$ 0.02253	\$ 0.02892	\$ (0.00639)
(2)	Dec-16	Feb-17	\$ 47,558,109	1,873,070,228	\$ 0.02539	\$ 0.02892	\$ (0.00353)
(3)	Jan-17	Mar-17	\$ 50,229,763	1,856,586,183	\$ 0.02705	\$ 0.02892	\$ (0.00187)
(4)	Feb-17	Apr-17	\$ 37,997,253	1,540,565,205	\$ 0.02466	\$ 0.02892	\$ (0.00426)
(5)	Mar-17	May-17	\$ 40,975,690	1,666,297,455	\$ 0.02459	\$ 0.02892	\$ (0.00433)
(6)	Apr-17	Jun-17	\$ 35,041,538	1,457,734,261	\$ 0.02404	\$ 0.02892	\$ (0.00488)
(7)	May-17	Jul-17	\$ 37,645,425	1,572,701,693	\$ 0.02394	\$ 0.02892	\$ (0.00498)
(8)	Jun-17	Aug-17	\$ 42,899,493	1,686,418,489	\$ 0.02544	\$ 0.02892	\$ (0.00348)
(9)	Jul-17	Sep-17	\$ 47,664,991	1,882,125,531	\$ 0.02533	\$ 0.02892	\$ (0.00359)
(10)	Aug-17	Oct-17	\$ 43,372,602	1,793,845,441	\$ 0.02418	\$ 0.02892	\$ (0.00474)
(11)	Sep-17	Nov-17	\$ 35,692,457	1,544,368,584	\$ 0.02311	\$ 0.02609	\$ (0.00298)
(12)	Oct-17	Dec-17	\$ 36,353,130	1,533,048,728	\$ 0.02371	\$ 0.02609	\$ (0.00238)
(13)	Nov-17	Jan-18	\$ 39,377,582	1,578,386,440	\$ 0.02495	\$ 0.02609	\$ (0.00114)
(14)	Dec-17	Feb-18	\$ 46,627,544	1,901,836,603	\$ 0.02452	\$ 0.02609	\$ (0.00157)
(15)	Jan-18	Mar-18	\$ 61,980,571	2,195,308,259	\$ 0.02823	\$ 0.02609	\$ 0.00214
(16)	Feb-18	Apr-18	\$ 39,396,797	1,597,504,892	\$ 0.02466	\$ 0.02609	\$ (0.00143)
(17)	Mar-18	May-18	\$ 43,703,499	1,726,641,195	\$ 0.02531	\$ 0.02609	\$ (0.00078)
(18)	Apr-18	Jun-18	\$ 36,437,981	1,499,065,877	\$ 0.02431	\$ 0.02609	\$ (0.00178)
(19)	May-18	Jul-18	\$ 40,722,056	1,694,329,607	\$ 0.02403	\$ 0.02609	\$ (0.00206)
(20)	Jun-18	Aug-18	\$ 43,133,911	1,783,740,697	\$ 0.02418	\$ 0.02609	\$ (0.00191)
(21)	Jul-18	Sep-18	\$ 43,061,146	1,860,306,506	\$ 0.02315	\$ 0.02609	\$ (0.00294)
(22)	Aug-18	Oct-18	\$ 43,863,341	1,872,745,774	\$ 0.02342	\$ 0.02609	\$ (0.00267)
(23)	Sep-18	Nov-18	\$ 38,700,885	1,673,722,834	\$ 0.02312	\$ 0.02609	\$ (0.00297)
(24)	Oct-18	Dec-18	\$ 35,271,348	1,594,481,568	\$ 0.02212	\$ 0.02609	\$ (0.00397)
(25)	Overall Average		\$ 41,754,365	1,704,651,181	\$ 0.02449	\$ 0.02609	\$ (0.00160)
(26)	Average for the Last Twelve Months		\$ 42,689,722	\$ 1,748,172,521	\$ 0.02442	\$ 0.02609	\$ (0.00167)

*Source: Form A Monthly Filings to the Kentucky Public Service Commission

Kentucky Utilities

**Forecasted Retail Fuel Adjustment Clause
Fuel Cost per kWh
2019 and 2020**

Forecast					
	(a)	(b)	(c)	(d)	(e)
Line No.	Expense Month	Billing Month	Forecasted Fuel Expense	Forecasted kWh Sales	Forecasted Expense Month (\$/kWh) (Col. c / d)
(1)	Jan-19	Mar-19	\$ 52,664,646	2,085,839,305	\$ 0.02525
(2)	Feb-19	Apr-19	\$ 42,065,836	1,679,937,157	\$ 0.02504
(3)	Mar-19	May-19	\$ 41,457,979	1,602,266,225	\$ 0.02587
(4)	Apr-19	Jun-19	\$ 35,325,466	1,412,817,083	\$ 0.02500
(5)	May-19	Jul-19	\$ 36,274,471	1,521,765,471	\$ 0.02384
(6)	Jun-19	Aug-19	\$ 37,715,967	1,562,063,235	\$ 0.02414
(7)	Jul-19	Sep-19	\$ 41,606,624	1,691,977,086	\$ 0.02459
(8)	Aug-19	Oct-19	\$ 42,544,350	1,726,075,846	\$ 0.02465
(9)	Sep-19	Nov-19	\$ 34,951,548	1,418,141,057	\$ 0.02465
(10)	Oct-19	Dec-19	\$ 34,201,229	1,348,838,830	\$ 0.02536
(11)	Nov-19	Jan-20	\$ 37,074,258	1,516,409,846	\$ 0.02445
(12)	Dec-19	Feb-20	\$ 42,368,771	1,698,725,865	\$ 0.02494
(13)	Jan-20	Mar-20	\$ 48,935,854	1,954,666,237	\$ 0.02504
(14)	Feb-20	Apr-20	\$ 38,849,205	1,565,428,486	\$ 0.02482
(15)	Mar-20	May-20	\$ 38,241,983	1,510,694,989	\$ 0.02531
(16)	Apr-20	Jun-20	\$ 31,082,757	1,310,148,642	\$ 0.02372
(17)	May-20	Jul-20	\$ 35,412,230	1,520,432,923	\$ 0.02329
(18)	Jun-20	Aug-20	\$ 36,876,702	1,560,557,785	\$ 0.02363
(19)	Jul-20	Sep-20	\$ 40,308,013	1,689,982,646	\$ 0.02385
(20)	Aug-20	Oct-20	\$ 41,364,273	1,724,828,625	\$ 0.02398
(21)	Sep-20	Nov-20	\$ 33,721,503	1,416,922,724	\$ 0.02380
(22)	Oct-20	Dec-20	\$ 32,063,518	1,346,496,021	\$ 0.02381
(23)	Nov-20	Jan-21	\$ 35,814,909	1,513,509,867	\$ 0.02366
(24)	Dec-20	Feb-21	\$ 41,557,302	1,693,001,009	\$ 0.02455
(25)	Overall Average		38,853,308	1,586,313,623	\$ 0.02449
(26)	2019 Average		\$ 39,854,262	\$ 1,605,404,750	\$ 0.02483
(27)	2020 Average		\$ 37,852,354	\$ 1,567,222,496	\$ 0.02415

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 23

Responding Witness: Derek A. Rahn

- Q-23. Provide a calculation of the fossil fuel costs F(b) that KU proposes to use to calculate the base period fuel cost. This calculation shall show each component of F(b) as defined by 807 KAR 5:056. Explain why the fuel cost in the selected base period is representative of the level of fuel cost currently being experienced by KU.
- A-23. Attached is a copy of the Fuel Cost Schedule (Form A, Page 2) for the expense period of December 2017, which shows the component of the proposed F(b) as defined by 807 KAR 5:056.

As explained in the response to Question No. 22, KU reviewed the per-unit fuel cost for each month during the November 2016 through October 2018 expense period and compared those values to the projected average per unit fuel cost for the next two-year period. As a result, F(b) and S(b) were considered together in determining the appropriate month to use as a new base fuel component.

KENTUCKY UTILITIES COMPANY FUEL COST SCHEDULE

Expense Month : December 2017

(A) <u>Company Generation</u>			
Coal Burned	(+)	\$28,747,630	(1)
Oil Burned	(+)	236,379	(1)
Gas Burned	(+)	11,968,834	(1)
Fuel (assigned cost during Forced Outage)	(+)	1,916,434	
Fuel (substitute cost for Forced Outage)	(-)	1,979,312	
SUB-TOTAL		<u>\$ 40,889,965</u>	
(B) <u>Purchases</u>			
Net energy cost - economy purchases	(+)	\$ 609,071	
Identifiable fuel cost - other purchases	(+)	-	
Identifiable fuel cost (substitute for Forced Outage)	(-)	3,243	
Less Purchases above Highest Cost Units	(-)	-	
Internal Economy	(+)	5,094,328	
Internal Replacement	(+)	20	
SUB-TOTAL		<u>\$ 5,700,176</u>	
(C) <u>Inter-System Sales</u>			
Including Interchange-out	(+)	\$ 8,045	
Internal Economy	(+)	26,997	
Internal Replacement	(+)	291,466	
Dollars Assigned to Inter-System Sales Losses	(+)	40	
SUB-TOTAL		<u>\$ 326,548</u>	
(D) <u>Over or (Under) Recovery</u>			
From Page 5, Line 13		<u>\$ (363,951)</u>	
TOTAL FUEL RECOVERY (A+B-C-D) =		<u>\$ 46,627,544</u>	

Note: (1) Reflects exclusion of IMEA/IMPA portion of Trimble County Unit 2 fuel cost with recognition of 0.5% transmission losses per Commission's Order in Case No. 2012-00552.

Coal burned =	\$7,102
Oil burned =	\$0
Gas burned =	\$235

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 24

Responding Witness: Derek A. Rahn

Q-24. Provide a schedule showing each component of sales as defined by 807 KAR 5:056 in the selected base period (b). Explain why KU believes that the sales in the selected base period (b) are representative of the level of kWh sales that KU will derive from the level of fuel cost incurred during the selected base period (b).

- a. Separately provide the amounts of power purchases used in the calculation of sales provided.
- b. Separately provide the amounts of intersystem power sales used in the calculation of sales provided.

A-24.

- a-b. Attached is a copy of the Sales Schedule (Form A, Page 3) for the base period of December 2017, which shows the component of the proposed S(b) as defined by 807 KAR 5:056.

As explained in the response to Question No. 22, KU reviewed the per-unit fuel cost for each month during the November 2016 through October 2018 base period and compared those values to the projected average per unit fuel cost for the next two-year period. As a result, F(b) and S(b) were considered together in determining the appropriate month to use as a new base fuel component.

KENTUCKY UTILITIES COMPANY

SALES SCHEDULE (KWH)

Expense Month : December 2017

(A) Generation (Net)	(+)	1,731,188,000
Purchases including interchange-in	(+)	65,151,000
Internal Economy	(+)	235,488,000
Internal Replacement	(+)	1,000
SUB-TOTAL		<u>2,031,828,000</u>
(B) Inter-system Sales including interchange-out	(+)	390,000
Internal Economy	(+)	1,353,000
Internal Replacement	(+)	11,031,000
(*) System Losses	(+)	117,217,397
SUB-TOTAL		<u>129,991,397</u>
TOTAL SALES (A-B)		<u><u>1,901,836,603</u></u>

(* Note: See Page 4 of 6, "Adjustment of rolling 12-MTD average overall system losses to reflect losses at retail level"

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 25

Responding Witness: Derek A. Rahn

Q-25. Provide a schedule showing the calculation of KU's proposed increase or decrease in its base fuel cost per kWh to be incorporated into its base rate.

A-25.

Current Base	\$0.02609/kWh
Proposed Base	<u>\$0.02452/kWh</u>
Decrease in Base Rates	\$0.00157/kWh

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 26

Responding Witness: Derek A. Rahn

- Q-26. Provide a schedule of the present and proposed rates that KU seeks to change pursuant to 807 KAR 5:056, shown in comparative form.
- A-26. See attached present and proposed rates that KU seeks approval effective with service rendered with the final Order. Present and proposed rates are subject to change with the pending Application of KU for an adjustment of its Electric Rates (Case No. 2018-00294).

Proposed rate changes to Tariff Sheet Nos. 79 (School Power Service) and 80 (School Time of Day Service) are being provided for illustrative purposes only. While both tariffs expired on September 28, 2018, with the filing of KU's application to adjust electric rates (Case No. 2018-00294), both are still reflected in the Company's current Commission approved tariffs.

Tariff Sheet	Tariff	Current Base Rate	Current Base Fuel Rate	Current Base Rate Excluding Fuel	Proposed Base Fuel Rate	Proposed Base Rate Including Fuel	% Decrease in Base Rate
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
				(3) - (4)		(5) + (6)	((7) - (3)) / (3)
5	RS	\$ 0.09047	\$ 0.02609	\$ 0.06438	\$ 0.02452	\$ 0.08890	-1.74%
6	RTOD-Energy						
	<i>On Peak</i>	\$ 0.27615	\$ 0.02609	\$ 0.25006	\$ 0.02452	\$ 0.27458	-0.57%
	<i>Off Peak</i>	\$ 0.05892	\$ 0.02609	\$ 0.03283	\$ 0.02452	\$ 0.05735	-2.66%
7	RTOD - Demand	\$ 0.04478	\$ 0.02609	\$ 0.01869	\$ 0.02452	\$ 0.04321	-3.51%
9	VFD	\$ 0.09047	\$ 0.02609	\$ 0.06438	\$ 0.02452	\$ 0.08890	-1.74%
10	GS	\$ 0.10490	\$ 0.02609	\$ 0.07881	\$ 0.02452	\$ 0.10333	-1.50%
12	AES	\$ 0.08244	\$ 0.02609	\$ 0.05635	\$ 0.02452	\$ 0.08087	-1.90%
15	PS						
	<i>Secondary</i>	\$ 0.03270	\$ 0.02609	\$ 0.00661	\$ 0.02452	\$ 0.03113	-4.80%
	<i>Primary</i>	\$ 0.03171	\$ 0.02609	\$ 0.00562	\$ 0.02452	\$ 0.03014	-4.95%
20	TODS	\$ 0.03229	\$ 0.02609	\$ 0.00620	\$ 0.02452	\$ 0.03072	-4.86%
22	TODP	\$ 0.03136	\$ 0.02609	\$ 0.00527	\$ 0.02452	\$ 0.02979	-5.01%
25	RTS	\$ 0.03058	\$ 0.02609	\$ 0.00449	\$ 0.02452	\$ 0.02901	-5.13%
30	FLS						
	<i>Primary</i>	\$ 0.03136	\$ 0.02609	\$ 0.00527	\$ 0.02452	\$ 0.02979	-5.01%
	<i>Transmission</i>	\$ 0.03036	\$ 0.02609	\$ 0.00427	\$ 0.02452	\$ 0.02879	-5.17%
37	LE	\$ 0.07264	\$ 0.02609	\$ 0.04655	\$ 0.02452	\$ 0.07107	-2.16%
38	TE	\$ 0.08955	\$ 0.02609	\$ 0.06346	\$ 0.02452	\$ 0.08798	-1.75%
79	SPS	\$ 0.03289	\$ 0.02609	\$ 0.00680	\$ 0.02452	\$ 0.03132	-4.77%
80	STOD	\$ 0.03244	\$ 0.02609	\$ 0.00635	\$ 0.02452	\$ 0.03087	-4.84%
81	OSL						
	<i>Secondary</i>	\$ 0.03288	\$ 0.02609	\$ 0.00679	\$ 0.02452	\$ 0.03131	-4.77%
	<i>Primary</i>	\$ 0.03189	\$ 0.02609	\$ 0.00580	\$ 0.02452	\$ 0.03032	-4.92%

Proposed changes to Tariff Sheet Nos. 79 (School Power Service) and 80 (School Time of Day Service) are being provided for illustrative purposes only. While both tariffs expired on September 28, 2018 with the filing of KU's application to adjust electric rates (Case No. 2018-00294), both are still reflected in the Company's current Commission approved tariffs.

Tariff Sheet	Tariff	Service Type	Bulb Type	Rate Code	Fixture Type	Approximate Lumens	kW Per Light	kWh per Year*	Fuel Factor Decrease \$/kWh**	Annual Decrease	Monthly Decrease	Monthly Charge											
												Existing Fixture Only Monthly Charge	Proposed Fixture Only Monthly Charge	% Decrease	Existing Ornamental Monthly Charge	Proposed Ornamental Monthly Charge	% Decrease	Existing Decorative Smooth Monthly Charge	Proposed Decorative Smooth Monthly Charge	% Decrease	Existing Historic Fluted Monthly Charge	Proposed Historic Fluted Monthly Charge	% Decrease
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
35	LS	Overhead	High Pressure Sodium					(8)*4,000	\$(0.00157)	(9)*(10)	(11)/12 mos		(12)/(13)	(12)/(13)		(12)/(16)	(12)/(16)		(12)/(19)	(12)/(19)		(12)/(122)	(12)/(122)
				462	Cobra Head	5,800	\$ 0.083	332	\$(0.00157)	\$(0.52)	\$(0.04)	\$ 10.10	\$ 10.06	-0.43%	\$ 13.77	\$ 13.73	-0.32%						
				472	Cobra Head	5,800	\$ 0.083	332	\$(0.00157)	\$(0.52)	\$(0.04)	\$ 10.10	\$ 10.06	-0.43%	\$ 13.77	\$ 13.73	-0.32%						
				463	Cobra Head	9,500	\$ 0.117	468	\$(0.00157)	\$(0.73)	\$(0.06)	\$ 10.49	\$ 10.43	-0.58%	\$ 14.36	\$ 14.30	-0.43%						
				473	Cobra Head	9,500	\$ 0.117	468	\$(0.00157)	\$(0.73)	\$(0.06)	\$ 10.49	\$ 10.43	-0.58%	\$ 14.36	\$ 14.30	-0.43%						
				464	Cobra Head	22,000	\$ 0.242	968	\$(0.00157)	\$(1.52)	\$(0.13)	\$ 16.28	\$ 16.15	-0.78%	\$ 20.43	\$ 20.30	-0.62%						
				474	Cobra Head	22,000	\$ 0.242	968	\$(0.00157)	\$(1.52)	\$(0.13)	\$ 16.28	\$ 16.15	-0.78%	\$ 20.43	\$ 20.30	-0.62%						
				465	Cobra Head	50,000	\$ 0.471	1,884	\$(0.00157)	\$(2.96)	\$(0.25)	\$ 25.75	\$ 25.50	-0.96%	\$ 28.53	\$ 28.28	-0.86%						
				475	Cobra Head	50,000	\$ 0.471	1,884	\$(0.00157)	\$(2.96)	\$(0.25)	\$ 25.75	\$ 25.50	-0.96%	\$ 28.53	\$ 28.28	-0.86%						
				487	Directional	9,500	\$ 0.117	468	\$(0.00157)	\$(0.73)	\$(0.06)	\$ 10.33	\$ 10.27	-0.59%									
				488	Directional	22,000	\$ 0.242	968	\$(0.00157)	\$(1.52)	\$(0.13)	\$ 15.62	\$ 15.49	-0.81%									
				489	Directional	50,000	\$ 0.471	1,884	\$(0.00157)	\$(2.96)	\$(0.25)	\$ 22.09	\$ 21.84	-1.12%									
				428	Open Bottom	9,500	\$ 0.117	468	\$(0.00157)	\$(0.73)	\$(0.06)	\$ 9.01	\$ 8.95	-0.68%									
			Metal Halide	451	Directional	32,000	\$ 0.350	1,400	\$(0.00157)	\$(2.20)	\$(0.18)	\$ 23.07	\$ 22.89	-0.79%									
			Light Emitting Diode (LED)	390	Cobra Head	8,179	\$ 0.080	320	\$(0.00157)	\$(0.50)	\$(0.04)	\$ 15.88	\$ 15.84	-0.26%									
				391	Cobra Head	14,166	\$ 0.134	536	\$(0.00157)	\$(0.84)	\$(0.07)	\$ 18.60	\$ 18.53	-0.38%									
				392	Cobra Head	23,214	\$ 0.228	912	\$(0.00157)	\$(1.43)	\$(0.12)	\$ 27.95	\$ 27.83	-0.43%									
				393	Open Bottom	5,007	\$ 0.050	200	\$(0.00157)	\$(0.31)	\$(0.03)	\$ 10.71	\$ 10.68	-0.24%									
35.1	LS	Underground	High Pressure Sodium																				
				467	Colonial	5,800	\$ 0.083	332	\$(0.00157)	\$(0.52)	\$(0.04)							\$ 12.84	\$ 12.80	-0.34%			
				468	Colonial	9,500	\$ 0.117	468	\$(0.00157)	\$(0.73)	\$(0.06)							\$ 13.07	\$ 13.01	-0.47%			
				401	Acorn	5,800	\$ 0.083	332	\$(0.00157)	\$(0.52)	\$(0.04)							\$ 17.43	\$ 17.39	-0.25%	\$ 24.76	\$ 24.72	-0.18%
				411	Acorn	5,800	\$ 0.083	332	\$(0.00157)	\$(0.52)	\$(0.04)							\$ 17.43	\$ 17.39	-0.25%	\$ 24.76	\$ 24.72	-0.18%
				420	Acorn	9,500	\$ 0.117	468	\$(0.00157)	\$(0.73)	\$(0.06)							\$ 17.79	\$ 17.73	-0.34%	\$ 25.25	\$ 25.19	-0.24%
				430	Acorn	9,500	\$ 0.117	468	\$(0.00157)	\$(0.73)	\$(0.06)							\$ 17.79	\$ 17.73	-0.34%	\$ 25.25	\$ 25.19	-0.24%
				414	Victorian	5,800	\$ 0.083	332	\$(0.00157)	\$(0.52)	\$(0.04)										\$ 34.32	\$ 34.28	-0.13%
				415	Victorian	9,500	\$ 0.117	468	\$(0.00157)	\$(0.73)	\$(0.06)										\$ 34.53	\$ 34.47	-0.18%
				492	Contemporary	5,800	\$ 0.083	332	\$(0.00157)	\$(0.52)	\$(0.04)	\$ 17.36	\$ 17.32	-0.25%				\$ 19.60	\$ 19.56	-0.22%			
				476	Contemporary	5,800	\$ 0.083	332	\$(0.00157)	\$(0.52)	\$(0.04)	\$ 17.36	\$ 17.32	-0.25%				\$ 19.60	\$ 19.56	-0.22%			
				497	Contemporary	9,500	\$ 0.117	468	\$(0.00157)	\$(0.73)	\$(0.06)	\$ 17.14	\$ 17.08	-0.36%				\$ 24.09	\$ 24.03	-0.25%			
				477	Contemporary	9,500	\$ 0.117	468	\$(0.00157)	\$(0.73)	\$(0.06)	\$ 17.14	\$ 17.08	-0.36%				\$ 24.09	\$ 24.03	-0.25%			
				498	Contemporary	22,000	\$ 0.242	968	\$(0.00157)	\$(1.52)	\$(0.13)	\$ 20.04	\$ 19.91	-0.63%				\$ 31.05	\$ 30.92	-0.41%			
				478	Contemporary	22,000	\$ 0.242	968	\$(0.00157)	\$(1.52)	\$(0.13)	\$ 20.04	\$ 19.91	-0.63%				\$ 31.05	\$ 30.92	-0.41%			
				499	Contemporary	50,000	\$ 0.471	1,884	\$(0.00157)	\$(2.96)	\$(0.25)	\$ 24.29	\$ 24.04	-1.01%				\$ 38.26	\$ 38.01	-0.64%			
				479	Contemporary	50,000	\$ 0.471	1,884	\$(0.00157)	\$(2.96)	\$(0.25)	\$ 24.29	\$ 24.04	-1.01%				\$ 38.26	\$ 38.01	-0.64%			
				300	Dark Sky	4,000	\$ 0.060	240	\$(0.00157)	\$(0.38)	\$(0.03)							\$ 25.05	\$ 25.02	-0.13%			
				301	Dark Sky	9,500	\$ 0.117	468	\$(0.00157)	\$(0.73)	\$(0.06)							\$ 26.13	\$ 26.07	-0.23%			
35.2	LS		Metal Halide	491	Contemporary	32,000	\$ 0.350	1,400	\$(0.00157)	\$(2.20)	\$(0.18)	\$ 24.95	\$ 24.77	-0.73%	\$ 39.14	\$ 38.96	-0.47%						
				495	Contemporary	32,000	\$ 0.350	1,400	\$(0.00157)	\$(2.20)	\$(0.18)	\$ 24.95	\$ 24.77	-0.73%	\$ 39.14	\$ 38.96	-0.47%						
			Light Emitting Diode (LED)	396	Cobra Head	8,179	\$ 0.080	320	\$(0.00157)	\$(0.50)	\$(0.04)							\$ 36.40	\$ 36.36	-0.12%			
				397	Cobra Head	14,166	\$ 0.134	536	\$(0.00157)	\$(0.84)	\$(0.07)							\$ 39.12	\$ 39.05	-0.18%			
				398	Cobra Head	23,214	\$ 0.228	912	\$(0.00157)	\$(1.43)	\$(0.12)							\$ 48.46	\$ 48.34	-0.25%			
				399	Colonial, 4-Sided	5,665	\$ 0.068	272	\$(0.00157)	\$(0.43)	\$(0.04)							\$ 38.22	\$ 38.18	-0.09%			

* Per KU's Tariff Sheet No. 67, kWh consumed by lighting units are based on 4,000 hours of use per year.

Current Fuel Base	Proposed Fuel Base	Difference
\$ 0.02609	\$ 0.02452	\$(0.00157)

Tariff Sheet	Tariff	Service Type	Bulb Type	Rate Code	Fixture Type	Approximate Lumens	kW Per Light	kWh per Year*	Fuel Factor Decrease \$/kWh**	Annual Decrease	Monthly Decrease	Monthly Charge											
												Existing Fixture Only Monthly Charge	Proposed Fixture Only Monthly Charge	% Decrease	Existing Fixture & Pole Monthly Charge	Proposed Fixture & Pole Monthly Charge	% Decrease	Existing Decorative Smooth Monthly Charge	Proposed Decorative Smooth Monthly Charge	% Decrease	Existing Historic Fluted Monthly Charge	Proposed Historic Fluted Monthly Charge	% Decrease
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
36	RLS	Overhead						(8) * 4,000	\$ (0.00157)	(9) * (10)	(11) / (12 mos.)		(12) + (13)	(12) / (13)		(12) + (16)	(12) / (16)		(12) + (19)	(12) / (19)		(12) + (22)	(12) / (22)
			High Pressure Sodium																				
				461	Cobra Head	4,000	\$ 0.060	240	\$ (0.00157)	\$ (0.38)	\$ (0.03)	\$ 9.03	\$ 9.00	-0.35%	\$ 12.35	\$ 12.32	-0.25%						
				471	Cobra Head	4,000	\$ 0.060	240	\$ (0.00157)	\$ (0.38)	\$ (0.03)	\$ 9.03	\$ 9.00	-0.35%	\$ 12.35	\$ 12.32	-0.25%						
				409	Cobra Head	50,000	\$ 0.471	1,884	\$ (0.00157)	\$ (2.96)	\$ (0.25)	\$ 14.21	\$ 13.96	-1.73%									
				426	Open Bottom	5,800	\$ 0.083	332	\$ (0.00157)	\$ (0.52)	\$ (0.04)	\$ 8.78	\$ 8.74	-0.49%									
			Metal Halide																				
				450	Directional	12,000	\$ 0.150	600	\$ (0.00157)	\$ (0.94)	\$ (0.08)	\$ 16.47	\$ 16.39	-0.48%	\$ 21.23	\$ 21.15	-0.37%						
				454	Directional	12,000	\$ 0.150	600	\$ (0.00157)	\$ (0.94)	\$ (0.08)	\$ 16.47	\$ 16.39	-0.48%	\$ 21.23	\$ 21.15	-0.37%						
				455	Directional	32,000	\$ 0.350	1,400	\$ (0.00157)	\$ (2.20)	\$ (0.18)	\$ 27.83	\$ 27.65	-0.66%									
				452	Directional	107,800	\$ 1.080	4,320	\$ (0.00157)	\$ (6.78)	\$ (0.57)	\$ 48.09	\$ 47.52	-1.18%	\$ 52.84	\$ 52.27	-1.07%						
				459	Directional	107,800	\$ 1.080	4,320	\$ (0.00157)	\$ (6.78)	\$ (0.57)	\$ 48.09	\$ 47.52	-1.18%	\$ 52.84	\$ 52.27	-1.07%						
			Mercury Vapor																				
				446	Directional	7,000	\$ 0.207	828	\$ (0.00157)	\$ (1.30)	\$ (0.11)	\$ 10.93	\$ 10.82	-0.99%	\$ 13.43	\$ 13.32	-0.81%						
				456	Directional	7,000	\$ 0.207	828	\$ (0.00157)	\$ (1.30)	\$ (0.11)	\$ 10.93	\$ 10.82	-0.99%	\$ 13.43	\$ 13.32	-0.81%						
				447	Directional	10,000	\$ 0.294	1,176	\$ (0.00157)	\$ (1.85)	\$ (0.15)	\$ 12.90	\$ 12.75	-1.19%	\$ 15.12	\$ 14.97	-1.02%						
				457	Directional	10,000	\$ 0.294	1,176	\$ (0.00157)	\$ (1.85)	\$ (0.15)	\$ 12.90	\$ 12.75	-1.19%	\$ 15.12	\$ 14.97	-1.02%						
				448	Directional	20,000	\$ 0.453	1,812	\$ (0.00157)	\$ (2.84)	\$ (0.24)	\$ 14.56	\$ 14.32	-1.63%	\$ 17.04	\$ 16.80	-1.39%						
				458	Directional	20,000	\$ 0.453	1,812	\$ (0.00157)	\$ (2.84)	\$ (0.24)	\$ 14.56	\$ 14.32	-1.63%	\$ 17.04	\$ 16.80	-1.39%						
				404	Open Bottom	7,000	\$ 0.207	828	\$ (0.00157)	\$ (1.30)	\$ (0.11)	\$ 11.96	\$ 11.85	-0.91%									
36.1	RLS		Incandescent																				
				421	Tear Drop	1,000	\$ 0.102	408	\$ (0.00157)	\$ (0.64)	\$ (0.05)	\$ 3.81	\$ 3.76	-1.40%									
				422	Tear Drop	2,500	\$ 0.201	804	\$ (0.00157)	\$ (1.26)	\$ (0.11)	\$ 5.05	\$ 4.94	-2.08%									
				424	Tear Drop	4,000	\$ 0.327	1,308	\$ (0.00157)	\$ (2.05)	\$ (0.17)	\$ 7.51	\$ 7.34	-2.28%									
				425	Tear Drop	6,000	\$ 0.447	1,788	\$ (0.00157)	\$ (2.81)	\$ (0.23)	\$ 10.02	\$ 9.79	-2.33%									
			Underground																				
			Metal Halide																				
				460	Directional	12,000	\$ 0.150	600	\$ (0.00157)	\$ (0.94)	\$ (0.08)							\$ 31.57	\$ 31.49	-0.25%			
				469	Directional	32,000	\$ 0.350	1,400	\$ (0.00157)	\$ (2.20)	\$ (0.18)							\$ 37.27	\$ 37.09	-0.49%			
				470	Directional	107,800	\$ 1.080	4,320	\$ (0.00157)	\$ (6.78)	\$ (0.57)							\$ 62.05	\$ 61.48	-0.91%			
				490	Contemporary	12,000	\$ 0.150	600	\$ (0.00157)	\$ (0.94)	\$ (0.08)	\$ 17.79	\$ 17.71	-0.44%				\$ 31.76	\$ 31.68	-0.25%			
				494	Contemporary	12,000	\$ 0.150	600	\$ (0.00157)	\$ (0.94)	\$ (0.08)	\$ 17.79	\$ 17.71	-0.44%				\$ 31.76	\$ 31.68	-0.25%			
				493	Contemporary	107,800	\$ 1.080	4,320	\$ (0.00157)	\$ (6.78)	\$ (0.57)	\$ 51.71	\$ 51.14	-1.09%				\$ 65.67	\$ 65.10	-0.86%			
				496	Contemporary	107,800	\$ 1.080	4,320	\$ (0.00157)	\$ (6.78)	\$ (0.57)	\$ 51.71	\$ 51.14	-1.09%				\$ 65.67	\$ 65.10	-0.86%			
			High Pressure Sodium																				
				440	Acom	4,000	\$ 0.060	240	\$ (0.00157)	\$ (0.38)	\$ (0.03)							\$ 15.88	\$ 15.85	-0.20%	\$ 23.33	\$ 23.30	-0.13%
				410	Acom	4,000	\$ 0.060	240	\$ (0.00157)	\$ (0.38)	\$ (0.03)							\$ 15.88	\$ 15.85	-0.20%	\$ 23.33	\$ 23.30	-0.13%
				466	Colonial	4,000	\$ 0.060	240	\$ (0.00157)	\$ (0.38)	\$ (0.03)							\$ 11.37	\$ 11.34	-0.28%			
				412	Coach	5,800	\$ 0.083	332	\$ (0.00157)	\$ (0.52)	\$ (0.04)							\$ 34.31	\$ 34.27	-0.13%			
				413	Coach	9,500	\$ 0.117	468	\$ (0.00157)	\$ (0.73)	\$ (0.06)							\$ 34.54	\$ 34.48	-0.18%			
				360	Granville	16,000	\$ 0.181	724	\$ (0.00157)	\$ (1.14)	\$ (0.09)							\$ 63.76	\$ 63.67	-0.15%			

* Per KU's Tariff Sheet No. 67, kWh consumed by lighting units are based on 4,000 hours of use per year.

Current Fuel Base	Proposed Fuel Base	Difference
\$ 0.02609	\$ 0.02452	\$ (0.00157)

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 27

Responding Witness: Derek A. Rahn

Q-27. Provide a copy of the current tariff showing by cross-outs and inserts all proposed changes in rates.

A-27. See attached. Note, current tariffs are subject to change with the pending Application of KU for an adjustment of its Electric Rates (Case No. 2018-00294).

Proposed changes to Tariff Sheet Nos. 79 (School Power Service) and 80 (School Time of Day Service) are being provided for illustrative purposes only. While both tariffs expired on September 28, 2018, with the filing of KU's application to adjust electric rates (Case No. 2018-00294), both are still reflected in the Company's current Commission approved tariffs.

Kentucky Utilities Company

P.S.C. No. 18, ~~Third~~ **Fourth** Revision of Original Sheet No. 5
Canceling P.S.C. No. 18, ~~Second~~ **Third** Revision of Original Sheet No. 5

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Standard Rate

RS

RESIDENTIAL SERVICE

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

Available for single-phase secondary delivery to single family residential service subject to the terms and conditions on Sheet No. 100 of this Tariff. Three phase service under this rate schedule is restricted to those customers being billed on this rate schedule as of July 1, 2004.

RATE

Basic Service Charge per month: \$12.25

Plus an Energy Charge per kWh: \$ 0.088909047

R

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

Fuel Adjustment Clause	Sheet No. 85
Off-System Sales Adjustment Clause	Sheet No. 88
Demand Side Management Cost Recovery Mechanism	Sheet No. 86
Tax Cuts and Jobs Act Surcredit	Sheet No. 89
Environmental Cost Recovery Surcharge	Sheet No. 87
Franchise Fee Rider	Sheet No. 90
School Tax	Sheet No. 91
Home Energy Assistance Program	Sheet No. 92

N

MINIMUM CHARGE

The Basic Service Charge shall be the minimum charge.

DUE DATE OF BILL

Customer's payment will be due within sixteen (16) business days (no less than twenty-two (22) calendar days) from the date of the bill.

LATE PAYMENT CHARGE

If full payment is not received by the due date of the bill, a 3% late payment charge will be assessed on the current month's charges. Beginning October 1, 2010, residential customers who receive a pledge for or notice of low income energy assistance from an authorized agency will not be assessed or required to pay a late payment charge for the bill for which the pledge or notice is received, nor will they be assessed or required to pay a late payment charge in any of the eleven (11) months following receipt of such pledge or notice.

TERMS AND CONDITIONS

Service will be furnished under Company's Terms and Conditions applicable hereto.

DATE OF ISSUE: ~~April 5, 2018~~ February 25, 2019

DATE EFFECTIVE: ~~April 1, 2018~~ September 1, 2019

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

**Issued by Authority of an Order of the
Public Service Commission in Case No.**

2019-00004 dated XXXX

2018-00034 dated March 20, 2018 and modified March 28, 2018

Kentucky Utilities Company

P.S.C. No. 18, ~~Third~~Fourth Revision of Original Sheet No. 6
Canceling P.S.C. No. 18, ~~Second-Third~~ Revision of Original Sheet No. 6

Standard Rate **RTOD-Energy**
Residential Time-of-Day Energy Service

APPLICABLE

In the territory served.

AVAILABILITY OF SERVICE

RTOD-Energy shall be available as an option to customers otherwise served under rate schedule RS.

- 1) Service under this rate schedule is limited to a maximum of five hundred (500) customers taking service on RTOD-Energy and RTOD-Demand combined that are eligible for Rate RS. Company will accept customers on a first-come-first-served basis.
- 2) This service is also available to customers on rate schedule GS (where the GS service is used in conjunction with an RS service to provide service to a detached garage and energy usage is no more than 300 kWh per month) who demonstrate power delivered to such detached garage is consumed, in part, for the powering of low emission vehicles licensed for operation on public streets or highways. Such vehicles include:
 - a) battery electric vehicles or plug-in hybrid electric vehicles recharged through a charging outlet at Customer's premises,
 - b) natural gas vehicles refueled through an electric-powered refueling appliance at Customer's premises.
- 3) A customer electing to take service under this rate schedule who subsequently elects to take service under the standard Rate RS may not be allowed to return to this optional rate for 12 months from the date of exiting this rate schedule.

RATE

Basic Service Charge per month: \$12.25

Plus an Energy Charge per kWh:

Off-Peak Hours: \$ 0.057355892
On-Peak Hours: \$ 0.2764527458

R
R

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

Fuel Adjustment Clause	Sheet No. 85
Off-System Sales Adjustment Clause	Sheet No. 88
Demand Side Management Cost Recovery Mechanism	Sheet No. 86
Tax Cuts and Jobs Act Surcredit	Sheet No. 89
Environmental Cost Recovery Surcharge	Sheet No. 87
Franchise Fee Rider	Sheet No. 90
School Tax	Sheet No. 91
Home Energy Assistance Program	Sheet No. 92

N

DATE OF ISSUE: ~~February 25, 2019~~April 5, 2018

DATE EFFECTIVE: ~~September 1, 2019~~April 1, 2018

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

**Issued by Authority of an Order of the
Public Service Commission in Case No.**

~~2019-00004 dated XXXX~~
~~2018-00034 dated March 20, 2018 and modified March 28, 2018~~

Kentucky Utilities Company

P.S.C. No. 18, ~~Third~~ Fourth Revision of Original Sheet No. 9
Canceling P.S.C. No. 18, ~~Second-Third~~ Revision of Original Sheet No. 9

Standard Rate

VFD

VOLUNTEER FIRE DEPARTMENT SERVICE

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

Available for single-phase delivery, in accordance with the provisions of KRS 278.172, to any volunteer fire department qualifying for aid under KRS 95A.262. Service under this rate schedule is at the option of the customer with the customer determining whether service will be provided under this schedule or any other schedule applicable to this load.

DEFINITION

To be eligible for this rate a volunteer fire department is defined as:

- 1) having at least 12 members and a chief;
- 2) having at least one firefighting apparatus; and
- 3) half the members must be volunteers.

RATE

Basic Service Charge per month: \$12.25
Plus an Energy Charge per kWh: \$ 0.0904708890

R

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with:

Fuel Adjustment Clause	Sheet No. 85
Off-System Sales Adjustment Clause	Sheet No. 88
Demand-Side Management Cost Recovery Mechanism	Sheet No. 86
Tax Cuts and Jobs Act Surcredit	Sheet No. 89
Environmental Cost Recovery Surcharge	Sheet No. 87
Franchise Fee Rider	Sheet No. 90
School Tax	Sheet No. 91

N

MINIMUM CHARGE

The Basic Service Charge shall be the minimum charge.

DUE DATE OF BILL

Customer's payment will be due within sixteen (16) business days (no less than twenty-two (22) calendar days) from the date of the bill.

LATE PAYMENT CHARGE

If full payment is not received by the due date of the bill, a 3% late payment charge will be assessed on the current month's charges.

TERMS AND CONDITIONS

Service will be furnished under Company's Terms and Conditions applicable hereto.

DATE OF ISSUE: ~~February 25, 2019~~ April 5, 2018

DATE EFFECTIVE: ~~September 1, 2019~~ April 1, 2018

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.
2019-00004 dated XXXX

Kentucky Utilities Company

P.S.C. No. 18, ~~Third~~ Fourth Revision of Original Sheet No. 10
Canceling P.S.C. No. 18, ~~Second~~ Third Revision of Original Sheet No. 10

Standard Rate

GS
GENERAL SERVICE RATE

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

To general lighting and small power loads for secondary service.

Service under this schedule will be limited to customers whose 12-month-average monthly maximum loads do not exceed 50 kW. Existing customers with 12-month-average maximum monthly loads exceeding 50 kW who are receiving service under P.S.C. 13, Fourth Revision of Original Sheet No. 10 as of February 6, 2009, will continue to be served under this rate at their option. If Customer is taking service under this rate schedule and subsequently elects to take service under another rate schedule, Customer may not again take service under this rate schedule unless and until Customer meets the Availability requirements that would apply to a new customer.

RATE

Basic Service Charge per month: \$31.50 single-phase service
 \$50.40 three-phase service

Plus an Energy Charge per kWh: ~~\$0.10490~~ 10333

R

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

Fuel Adjustment Clause	Sheet No. 85
Off-System Sales Adjustment Clause	Sheet No. 88
Demand-Side Management Cost Recovery Mechanism	Sheet No. 86
Tax Cuts and Jobs Act Surcredit	Sheet No. 89
Environmental Cost Recovery Surcharge	Sheet No. 87
Franchise Fee Rider	Sheet No. 90
School Tax	Sheet No. 91

N

DETERMINATION OF LOAD

Service hereunder will be metered except when, by mutual agreement of Company and Customer, an unmetered installation will be more satisfactory from the standpoint of both parties. In the case of unmetered service, billing will be based on a calculated consumption taking into account the types of equipment served.

DATE OF ISSUE: ~~February 25, 2019~~ April 5, 2018

DATE EFFECTIVE: ~~September 1, 2019~~ April 1, 2018

ISSUED BY: /s/ Robert M. Conroy, Vice President
 State Regulation and Rates
 Lexington, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.

~~2019-00004 dated XXXX~~

~~2018-00034 dated March 20, 2018 and modified March 28, 2018~~

Kentucky Utilities Company

P.S.C. No. 18, ~~Second-Third~~ Revision of Original Sheet No. 12
Canceling P.S.C. No. 18, ~~First-Second~~ Revision of Original Sheet No. 12

Standard Rate **AES**
ALL ELECTRIC SCHOOL

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

Service under this rate is available for secondary and primary service to:

- (1) a complex of school buildings on a central campus;
- (2) an individual school building; or
- (3) an addition to an existing school building.

School buildings, as referred to herein, shall be defined as buildings used as classrooms, laboratories, gymnasiums, libraries, cafeterias, school related offices or for other bona fide school purposes by duly constituted school authorities of Kentucky. Served electrically by Kentucky Utilities Company, such energy requirements include, but are not limited to, lighting, heating, cooling, and water heating. School buildings not receiving every energy requirement electrically shall be separately metered from the above defined service and served under the applicable rate. Other fuels may be used as incidental to and for instructional laboratory and other miscellaneous purposes without affecting the availability of this rate.

At those locations where the school owns its distribution system and makes the service connections to the various buildings and/or load centers, Company shall be given the option of providing service by use of the existing Customer-owned distribution system, or of constructing its own facilities in accordance with the Company's Overhead Construction Standards. In any event, Company's investment in the facilities it provides may be limited to an amount not exceeding twice the estimated annual revenue from Customer's service. Should Company's investment in the facilities required to provide service to Customer exceed twice the revenue anticipated from the service to Customer and at Customer's option, Customer may make a contribution for the difference in the investment required in facilities necessary to provide service and twice the anticipated revenue, so as to receive service under this schedule.

This Rate Schedule is not available to privately operated kindergartens or daycare centers and is restricted to those customers who were qualified for and being served on Rate AES as of July 1, 2011. Because this rate schedule is closed to new customers, if Customer is taking service under this rate schedule and subsequently elects to take service under another rate schedule, Customer may not again take service under this rate schedule.

RATE

Basic Service Charge per meter per month: \$ 85.00 single-phase service
\$140.00 three-phase service

Plus an Energy Charge per kWh: \$ 0.08~~2448087~~ IR

DATE OF ISSUE: ~~February 25, 2019~~ ~~January 8, 2018~~

DATE EFFECTIVE: ~~September 1, 2019~~ ~~January 30, 2018~~

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.

~~2019-00004 dated XXXX~~

~~2017-00266 dated December 19, 2017~~

Kentucky Utilities Company

P.S.C. No. 18, ~~Second-Third~~ Revision of Original Sheet No. 15
Canceling P.S.C. No. 18, ~~First-Second~~ Revision of Original Sheet No. 15

Standard Rate **PS**
POWER SERVICE

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

This rate schedule is available for secondary or primary service.

Service under this schedule will be limited to customers whose 12-month-average monthly minimum secondary loads exceed 50 kW and whose 12-month-average monthly maximum loads do not exceed 250 kW. Secondary or primary customers receiving service under PSC 13, Fourth Revision of Original Sheet No. 20, Large Power Service, or Fourth Revision of Original Sheet No. 30, Mine Power Service, as of February 6, 2009, with loads not meeting these criteria will continue to be served under this rate at their option. If Customer is taking service under this rate schedule and subsequently elects to take service under another rate schedule, Customer may not again take service under this rate schedule unless and until Customer meets the Availability requirements that would apply to a new customer.

RATE	Secondary	Primary	
Basic Service Charge per month:	\$90.00	\$240.00	
Plus an Energy Charge per kWh:	\$ 0.03270-03113	\$ 0.0347403014	R
Plus a Demand Charge per kW:			
Summer Rate:			
(Five Billing Periods of May through September)	\$21.03	\$ 21.21	†
Winter Rate:			
(All other months)	\$18.81	\$ 19.02	†

Where the monthly billing demand is the greater of:

- a) the maximum measured load in the current billing period but not less than 50 kW for secondary service or 25 kW for primary service, or
- b) a minimum of 50% of the highest measured load in the preceding eleven (11) monthly billing periods, or
- c) if applicable, a minimum of 60% of the contract capacity based on the maximum expected load on the system or on facilities specified by Customer.

DATE OF ISSUE: ~~February 25, 2019~~ January 8, 2018

DATE EFFECTIVE: ~~September 1, 2019~~ January 30, 2018

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

**Issued by Authority of an Order of the
Public Service Commission in Case No.
2019-00004 dated XXXX
2017-00266 dated December 19, 2017**

Kentucky Utilities Company

P.S.C. No. 18, ~~Third~~ Fourth Revision of Original Sheet No. 20
Canceling P.S.C. No. 18, ~~Second~~ Third Revision of Original Sheet No. 20

Standard Rate

TODS

TIME-OF-DAY SECONDARY SERVICE

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

This schedule is available for secondary service. Service under this schedule will be limited to customers whose 12-month-average monthly minimum loads exceed 250 kW and whose 12-month-average monthly maximum loads do not exceed 5,000 kW.

RATE

Basic Service Charge per month: \$200.00

Plus an Energy Charge per kWh: \$ 0.0322903072

R

Plus a Maximum Load Charge per kW:

Peak Demand Period: \$ 8.09

Intermediate Demand Period: \$ 6.41

Base Demand Period: \$ 3.03

Where:

the monthly billing demand for the Peak and Intermediate Demand Periods is the greater of:

- a) the maximum measured load in the current billing period, or
- b) a minimum of 50% of the highest measured load in the preceding eleven (11) monthly billing periods, and

the monthly billing demand for the Base Demand Period is the greater of:

- a) the maximum measured load in the current billing period but not less than 250 kW, or
- b) the highest measured load in the preceding eleven (11) monthly billing periods, or
- c) the contract capacity based on the maximum load expected on the system or on facilities specified by Customer.

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

Fuel Adjustment Clause	Sheet No. 85
Off-System Sales Adjustment Clause	Sheet No. 88
Demand-Side Management Cost Recovery Mechanism	Sheet No. 86
Environmental Cost Recovery Surcharge	Sheet No. 87
Tax Cuts and Jobs Act Surcredit	Sheet No. 89
Franchise Fee Rider	Sheet No. 90
School Tax	Sheet No. 91

N

DATE OF ISSUE: ~~February 25, 2019~~ April 5, 2018

DATE EFFECTIVE: ~~September 1, 2019~~ April 1, 2018

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.

~~2019-00004 dated XXXX~~

~~2018-00034 dated March 20, 2018 and modified March 28, 2018~~

Kentucky Utilities Company

P.S.C. No. 18, ~~Third~~ Fourth Revision of Original Sheet No. 22
Canceling P.S.C. No. 18, ~~Second~~ Third Revision of Original Sheet No. 22

Standard Rate **TODP**
TIME-OF-DAY PRIMARY SERVICE

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

This schedule is available for primary service to any customer: (1) who has a 12-month-average monthly minimum demand exceeding 250 kVA; and (2) whose new or additional load receives any required approval of Company's transmission operator.

RATE

Basic Service Charge per month:	\$330.00	
Plus an Energy Charge per kWh:	\$ 0.0343602979	R
Plus a Maximum Load Charge per kVA:		
Peak Demand Period:	\$ 6.71	
Intermediate Demand Period:	\$ 5.31	
Base Demand Period:	\$ 3.03	

Where:

- the monthly billing demand for the Peak and Intermediate Demand Periods is the greater of:
- a) the maximum measured load in the current billing period, or
 - b) a minimum of 50% of the highest measured load in the preceding eleven (11) monthly billing periods, and
- the monthly billing demand for the Base Demand Period is the greater of:
- a) the maximum measured load in the current billing period but not less than 250 kVA, or
 - b) the highest measured load in the preceding eleven (11) monthly billing periods, or
 - c) the contract capacity based on the maximum load expected on the system or on facilities specified by Customer.

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

Fuel Adjustment Clause	Sheet No. 85	
Off-System Sales Adjustment Clause	Sheet No. 88	
Demand-Side Management Cost Recovery Mechanism	Sheet No. 86	
Environmental Cost Recovery Surcharge	Sheet No. 87	
Tax Cuts and Jobs Act Surcredit	Sheet No. 89	N
Franchise Fee Rider	Sheet No. 90	
School Tax	Sheet No. 91	

DATE OF ISSUE: ~~February 25, 2019~~ April 5, 2018

DATE EFFECTIVE: ~~September 1, 2019~~ April 1, 2018

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

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Public Service Commission in Case No.
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2018-00034 dated March 20, 2018 and modified March 28, 2018

Kentucky Utilities Company

P.S.C. No. 18, ~~Third-Fourth~~ Revision of Original Sheet No. 25
Canceling P.S.C. No. 18, ~~Second-Third~~ Revision of Original Sheet No. 25

Standard Rate

RTS

RETAIL TRANSMISSION SERVICE

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

This schedule is available for transmission service to any customer: (1) who has a 12-month-average monthly minimum demand exceeding 250 kVA; and (2) whose new or additional load receives any required approval of Company's transmission operator.

RATE

Basic Service Charge per month: \$1,500.00

Plus an Energy Charge per kWh: \$ 0.03058-02901

Plus a Maximum Load Charge per kVA:

Peak Demand Period: \$ 6.55

Intermediate Demand Period: \$ 5.18

Base Demand Period: \$ 2.23

Where:

the monthly billing demand for the Peak and Intermediate Demand Periods is the greater of:

- a) the maximum measured load in the current billing period, or
- b) a minimum of 50% of the highest measured load in the preceding eleven (11) monthly billing periods, and

the monthly billing demand for the Base Demand Period is the greater of:

- a) the maximum measured load in the current billing period but not less than 250 kVA, or
- b) the highest measured load in the preceding eleven (11) monthly billing periods, or
- c) the contract capacity based on the maximum load expected on the system or on facilities specified by Customer.

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

Fuel Adjustment Clause	Sheet No. 85
Off-System Sales Adjustment Clause	Sheet No. 88
Demand-Side Management Cost Recovery Mechanism	Sheet No. 86
Environmental Cost Recovery Surcharge	Sheet No. 87
Tax Cuts and Jobs Act Surcredit	Sheet No. 89
Franchise Fee Rider	Sheet No. 90
School Tax	Sheet No. 91

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State Regulation and Rates
Lexington, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.

~~2019-00004 dated XXXX~~

2018-00034 dated March 20, 2018 and modified March 28, 2018

Kentucky Utilities Company

P.S.C. No. 18, ~~Second Third~~ Revision of Original Sheet No. 30
Canceling P.S.C. No. 18, ~~First Second~~ Revision of Original Sheet No. 30

Standard Rate **FLS**
Fluctuating Load Service

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

Available for primary or transmission service to customers up to an aggregate of two hundred (200) MVA for all customers taking service under this schedule and under the Fluctuating Load Service Rate FLS schedule of Louisville Gas and Electric Company. This schedule is restricted to individual customers whose monthly demand is twenty (20) MVA or greater. A customer is defined as a fluctuating load if that customer's load either increases or decreases twenty (20) MVA or more per minute or seventy (70) MVA or more in ten (10) minutes when such increases or decreases exceed one (1) occurrence per hour during any hour of the billing month.

Subject to the above aggregate limit of two hundred (200) MVA, this schedule is mandatory for all customers whose load is defined as fluctuating and not served on another standard rate schedule as of July 1, 2004.

BASE RATE

	<u>Primary</u>	<u>Transmission</u>	
Basic Service Charge per month:	\$330.00	\$1,500.00	
Plus an Energy Charge per kWh:	\$ 0.0343602979	\$ 0.0303602879	<u>R</u>
Plus a Maximum Load Charge per kVA:			
Peak Demand Period:	\$ 6.03	\$ 3.37	†
Intermediate Demand Period:	\$ 4.60	\$ 2.41	†
Base Demand Period:	\$ 2.57	\$ 1.65	†

Where:

the monthly billing demand for the Peak and Intermediate Demand Periods is the greater of:

- a) the maximum measured load in the current billing period, or
- b) a minimum of 50% of the highest measured load in the preceding eleven (11) monthly billing periods, and

the monthly billing demand for the Base Demand Period is the greater of:

- a) the maximum measured load in the current billing period but not less than 20,000 kVA, or
- b) the highest measured load in the preceding eleven (11) monthly billing periods, or
- c) the contract capacity based on the maximum load expected on the system or on facilities specified by Customer.

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Kentucky Utilities Company

P.S.C. No. 18, ~~Second Third~~ Revision of Original Sheet No. 35
Canceling P.S.C. No. 18, ~~First Second~~ Revision of Original Sheet No. 35

Standard Rate **LS**
Lighting Service

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

Service under this rate schedule is offered, under the conditions set out hereinafter, for lighting applications such as, but not limited to, the illumination of street, driveways, yards, lots, and other outdoor areas where secondary voltage of 120/240 is available.

Service will be provided under written contract, signed by customer prior to service commencing, when additional facilities are required.

Units marked with an asterisk (*) are not available for use in residential neighborhoods except by municipal authorities.

OVERHEAD SERVICE

Based on Customer's lighting choice, Company will furnish, own, install, and maintain the lighting unit. A basic overhead service includes lamp, fixture, photoelectric control, mast arm, and, if needed, up to 150 feet of conductor per fixture on existing wood poles (fixture only). Company will, upon request, furnish ornamental poles of Company's choosing, together with overhead wiring and all other equipment mentioned for basic overhead service.

RATE

Rate Code	Type of Fixture	Approximate Lumens	kW Per Light	Monthly Charge	
				Fixture Only	Ornamental
High Pressure Sodium					
462/472	Cobra Head	5,800	0.083	\$ 10.0610	\$13. 7377
463/473	Cobra Head	9,500	0.117	10. 439	14. 306
464/474	Cobra Head	22,000*	0.242	16. 1528	20. 3043
465/475	Cobra Head	50,000*	0.471	25. 5075	28. 2853
487	Directional	9,500	0.117	\$10. 2733	
488	Directional	22,000*	0.242	15. 4962	
489	Directional	50,000*	0.471	21. 842.09	
428	Open Bottom	9,500	0.117	\$ 8.959.01	
Metal Halide					
451	Directional	32,000*	0.350	\$22. 893.07	
Light Emitting Diode (LED)					
390	Cobra Head	8,179	0.080	\$15. 848	
391	Cobra Head	14,166*	0.134	18. 5360	
392	Cobra Head	23,214*	0.228	27. 8395	

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Kentucky Utilities Company

P.S.C. No. 18, ~~Second~~ Third Revision of Original Sheet No. 35.1
Canceling P.S.C. No. 18, ~~First~~ Second Revision of Original Sheet No. 35.1

Standard Rate

**LS
Lighting Service**

OVERHEAD SERVICE (continued)

RATE

Rate Code	Type of Fixture	Approximate Lumens	kW Per Light	Monthly Charge Fixture Only
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LED (continued)

393	Open Bottom	5,007	0.050	\$10. 687 <u>4</u>
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Should Customer request underground service, Customer shall make a non-refundable cash contribution prior to the time of installation, or, at the option of company, make a work contribution to Company for the difference in the installed cost of the system requested and the cost of the overhead lighting system.

Where the location of existing poles is not suitable or where there are no existing poles for mounting of lights, and Customer requests service under these conditions, Company may furnish the requested facilities at an additional charge to be determined under the Excess Facilities Rider.

UNDERGROUND SERVICE

Based on Customer's lighting choice, Company will furnish, own, install, and maintain poles, fixtures, and any necessary circuitry up to 200 feet. All poles and fixtures furnished by Company will be standard stocked materials. Company may decline to install equipment and provide service thereto in locations deemed by Company as unsuitable for underground installation.

RATE

Rate Code	Type of Fixture	Approximate Lumens	kW Per Light	Monthly Charge		
				Fixture Only	Decorative Smooth	Historic Fluted

High Pressure Sodium

467	Colonial	5,800	0.083		\$12. 80 <u>4</u>	
468	Colonial	9,500	0.117		13. 01 <u>7</u>	
401/411	Acorn	5,800	0.083		\$17. 39 <u>43</u>	\$24. 72 <u>6</u>
420/430	Acorn	9,500	0.117		17. 73 <u>9</u>	25. 19 <u>25</u>
414	Victorian	5,800	0.083			\$34. 28 <u>32</u>
415	Victorian	9,500	0.117			34. 47 <u>53</u>
492/476	Contemporary	5,800	0.083	\$17. 32 <u>6</u>	\$19. 56 <u>60</u>	
497/477	Contemporary	9,500	0.117	17. 08 <u>14</u>	24. 03 <u>9</u>	
498/478	Contemporary	22,000*	0.242	19.91 <u>20.04</u>	30.92 <u>1.05</u>	
499/479	Contemporary	50,000*	0.471	24. 04 <u>29</u>	38. 01 <u>26</u>	
300	Dark Sky	4,000	0.060		\$25. 02 <u>5</u>	
301	Dark Sky	9,500	0.117		26. 07 <u>43</u>	

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Lexington, Kentucky

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Kentucky Utilities Company

P.S.C. No. 18, ~~Third~~ Fourth Revision of Original Sheet No. 35.2
Canceling P.S.C. No. 18, ~~Second~~ Third Revision of Original Sheet No. 35.2

Standard Rate **LS**
Lighting Service

UNDERGROUND SERVICE (continued)

RATE	Type of Fixture	Approximate Lumens	kW Per Light	Monthly Charge	
				Fixture Only	Decorative Smooth
Metal Halide					
491/495	Contemporary	32,000*	0.350	\$24.7795	\$38.969-14
Light Emitting Diode (LED)					
396	Cobra Head	8,179	0.080		\$36.3640
397	Cobra Head	14,166*	0.134		39.0542
398	Cobra Head	23,214*	0.228		48.3446
399	Colonial, 4-Sided	5,665	0.068		\$38.1822

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Customer shall make a non-refundable cash contribution prior to the time of installation, or, at the option of Company, make a work contribution to Company for the difference in the installed cost of the system requested and the cost of the conventional overhead lighting system.

Where Customer's location would require the installation of additional facilities, Company may furnish, own, and maintain the requested facilities at an additional charge per month to be determined under the Excess Facilities Rider.

DUE DATE OF BILL

Customer's payment will be due within sixteen (16) business days (no less than twenty-two (22) calendar days) from the date of the bill. Billing for this service to be made a part of bill rendered for other electric service.

DETERMINATION OF ENERGY CONSUMPTION

The kilowatt-hours will be determined as set forth on Sheet No. 67 of this Tariff.

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

Fuel Adjustment Clause	Sheet No. 85
Off-System Sales Adjustment Clause	Sheet No. 88
Environmental Cost Recovery Surcharge	Sheet No. 87
Tax Cuts and Jobs Act Surcredit	Sheet No. 89
Franchise Fee Rider	Sheet No. 90
School Tax	Sheet No. 91

N

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Lexington, Kentucky

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20198-000034 dated ~~March 20, 2018~~ and modified ~~March 28, 2018~~ XXXX

Kentucky Utilities Company

P.S.C. No. 18, ~~Second Third~~ Revision of Original Sheet No. 36
Canceling P.S.C. No. 18, ~~First Second~~ Revision of Original Sheet No. 36

Standard Rate **RLS**
Restricted Lighting Service

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

Service under this rate schedule is restricted to those lighting fixtures/poles in service as of January 1, 2013, except where a spot replacement maintains the continuity of multiple fixtures/poles comprising a neighborhood lighting system or continuity is desired for a subdivision being developed in phases. Spot placement of restricted fixtures/poles is contingent on the restricted fixtures/poles being available from manufacturers. Spot replacement of restricted units will be made under the terms and conditions provided for under non-restricted Lighting Service Rate LS. Spot replacements will not be available for Mercury Vapor and Incandescent rate codes.

In the event restricted fixtures/poles fail and replacements are unavailable, Customer will be given the choice of having Company remove the failed fixture/pole or replacing the failed fixture/pole with other available fixture/pole.

Units marked with an asterisk (*) are not available for use in residential neighborhoods except by municipal authorities.

OVERHEAD SERVICE

Based on Customer's lighting choice, Company has furnished, installed, and maintained the lighting unit complete with lamp, fixture, photoelectric control, mast arm, and, if needed, up to 150 feet of conductor per fixture on existing wood poles (fixture only). Company has, upon request, furnished poles, of Company's choosing, together with overhead wiring and all other equipment mentioned for overhead service.

RATE	Rate Code	Type of Fixture	Approximate Lumens	kW Per Light	Monthly Charge	
					Fixture Only	Fixture and Pole
High Pressure Sodium						
	461/471	Cobra Head	4,000	0.060	\$ 9.030	\$12.325
	409	Cobra Head	50,000	0.471	13.964.24	
	426	Open Bottom	5,800	0.083	8.748	
Metal Halide						
	450/454	Directional	12,000*	0.150	\$16.3947	\$21.1523
	455	Directional	32,000*	0.350		27.6583
	452/459	Directional	107,800*	1.080	47.8.0952	52.8427
Mercury Vapor						
	446/456	Cobra Head	7,000	0.207	\$10.8293	\$13.3243
	447/457	Cobra Head	10,000	0.294	12.7590	14.975.12
	448/458	Cobra Head	20,000	0.453	14.3256	16.807.04
	404	Open Bottom	7,000	0.207	11.8596	

IR ↓

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Kentucky Utilities Company

P.S.C. No. 18, ~~Second-Third~~ Revision of Original Sheet No. 36.1
Canceling P.S.C. No. 18, ~~First-Second~~ Revision of Original Sheet No. 36.1

Standard Rate **RLS**
Restricted Lighting Service

OVERHEAD SERVICE (continued)

RATE		Approximate Lumens	kW Per Light	Monthly Charge	
Rate Code	Type of Fixture			Fixture Only	
Incandescent					
421	Tear Drop	1,000	0.102	\$ 3. 7684	
422	Tear Drop	2,500	0.201	4.945.05	
424	Tear Drop	4,000	0.327	7.3454	
425	Tear Drop	6,000	0.447	9.7940.02	

~~HR~~

Where the location of existing poles was not suitable, or where there were no existing poles for mounting of lights, and Customer requested service under these conditions, Company may have furnished the requested facilities at an additional charge determined under the Excess Facilities Rider.

UNDERGROUND SERVICE

Based on Customer's lighting choice, Company has furnished, installed, and maintained the lighting unit complete with lamp, fixture, photoelectric control, mast arm, and, if needed, up to 200 feet of conductor per fixture on appropriate poles.

RATE		Approximate Lumens	kW Per Light	Monthly Charge		
Rate Code	Type of Fixture			Fixture Only	Decorative Smooth	Historic Fluted
Metal Halide						
460	Directional	12,000	0.150	\$31. 4957		
469	Directional	32,000	0.350	37.0927		
470	Directional	107,800*	1.080	61.482.05		
490/494	Contemporary	12,000*	0.150	\$17. 7179	\$31. 6876	
493/496	Contemporary	107,800*	1.080	51.1474	65.1067	
High Pressure Sodium						
440/410	Acorn	4,000	0.060	\$15. 858		\$23. 303
466	Colonial	4,000	0.060	\$11. 347		
412	Coach	5,800	0.083	\$34. 2734		
413	Coach	9,500	0.117	34.4854		

~~HR~~

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State Regulation and Rates
Lexington, Kentucky

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2017-00266 dated December 19, 2017**

Kentucky Utilities Company

P.S.C. No. 18, ~~Third~~ Fourth Revision of Original Sheet No. 36.2
Canceling P.S.C. No. 18, ~~Second~~ Third Revision of Original Sheet No. 36.2

Standard Rate RLS
Restricted Lighting Service

UNDERGROUND SERVICE (continued)

RATE	Type of Fixture	Approximate Lumens	kW Per Light	Monthly Charge
				Decorative Smooth
360	Granville	16,000	0.181	\$63.6776

Granville units are restricted to installations for the City of London.

DUE DATE OF BILL

Payment is due within sixteen (16) business days (no less than twenty-two (22) calendar days) from the date of the bill. Billing for this service to be made a part of the bill rendered for other electric service.

DETERMINATION OF ENERGY CONSUMPTION

The kilowatt-hours will be determined as set forth on Sheet No. 67 of this Tariff.

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

Fuel Adjustment Clause	Sheet No. 85
Off-System Sales Adjustment Clause	Sheet No. 88
Environmental Cost Recovery Surcharge	Sheet No. 87
Tax Cuts and Jobs Act Surcredit	Sheet No. 89
Franchise Fee Rider	Sheet No. 90
School Tax	Sheet No. 91

TERM OF CONTRACT

For a fixed term of not less than five (5) years and for such time thereafter until terminated by either party giving thirty (30) days prior written notice to the other when additional facilities are required. Cancellation by Customer prior to the initial five-year term will require Customer to pay to Company a lump sum equal to the monthly charge times the number of months remaining on the original five (5) year term.

TERMS AND CONDITIONS

1. Service shall be furnished under Company's Terms and Conditions, except as set out herein.
2. All service and maintenance will be performed only during regular scheduled working hours of Company. Customer will be responsible for reporting outages and other operating faults, and the Company shall initiate service corrections within two (2) business days after such notification by Customer.

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State Regulation and Rates
Lexington, Kentucky

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2019-00004 dated XXXX
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Kentucky Utilities Company

P.S.C. No. 18, ~~Third-Fourth~~ Revision of Original Sheet No. 37
Canceling P.S.C. No. 18, ~~Second-Third~~ Revision of Original Sheet No. 37

Standard Rate

LE

Lighting Energy Service

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

Available to municipalities, county governments, divisions or agencies of the state or Federal governments, civic associations, and other public or quasi-public agencies for service to public street and highway lighting systems, where the municipality or other agency owns and maintains all street lighting equipment and other facilities on its side of the point of delivery of the energy supplied hereunder.

RATE

\$0.~~07264-07107~~ per kWh

R

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

Fuel Adjustment Clause	Sheet No. 85
Off-System Sales Adjustment Clause	Sheet No. 88
Environmental Cost Recovery Surcharge	Sheet No. 87
Tax Cuts and Jobs Act Surcredit	Sheet No. 89
Franchise Fee Rider	Sheet No. 90
School Tax	Sheet No. 91

N

DUE DATE OF BILL

Customer's payment will be due within sixteen (16) business days (no less than twenty-two (22) calendar days) from the date of the bill.

CONDITIONS OF DELIVERY

1. Service hereunder will be metered except when, by mutual agreement of Company and customer, an unmetered installation will be more satisfactory from the standpoint of both parties. In the case of unmetered service, billing will be based on a calculated consumption taking into account the types of equipment served.
2. The location of the point of delivery of the energy supplied hereunder and the voltage at which such delivery is effected shall be mutually agreed upon by Company and the customer in consideration of the type and size of customer's street lighting system and the voltage which Company has available for delivery.

TERMS AND CONDITIONS

Service will be furnished under Company's Terms and Conditions applicable hereto.

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Lexington, Kentucky

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Kentucky Utilities Company

P.S.C. No. 18, ~~Third~~ Fourth Revision of Original Sheet No. 38
Canceling P.S.C. No. 18, ~~Second~~ Third Revision of Original Sheet No. 38

Standard Rate

TE
Traffic Energy Service

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

Available to municipalities, county governments, divisions of the state or Federal governments or any other governmental agency for service on a 24-hour all-day every-day basis, where the governmental agency owns and maintains all equipment on its side of the point of delivery of the energy supplied hereunder. In the application of this rate each point of delivery will be considered as a separate customer.

This service is limited to traffic control devices including, but not limited to, signals, cameras, or other traffic lights, electronic communication devices, and emergency sirens.

RATE

Basic Service Charge per month: \$4.00 per delivery point

Plus an Energy Charge per kWh: ~~\$0.08955~~ 08798

R

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

Fuel Adjustment Clause	Sheet No. 85
Off-System Sales Adjustment Clause	Sheet No. 88
Environmental Cost Recovery Surcharge	Sheet No. 87
Tax Cuts and Jobs Act Surcredit	Sheet No. 89
Franchise Fee Rider	Sheet No. 90
School Tax	Sheet No. 91

N

MINIMUM CHARGE

The Basic Service Charge shall be the minimum charge.

DUE DATE OF BILL

Customer's payment will be due within sixteen (16) business days (no less than twenty-two (22) calendar days) from the date of the bill.

CONDITIONS OF SERVICE

1. Service hereunder will be metered except when, by mutual agreement of Company and customer, an unmetered installation will be more satisfactory from the standpoint of both parties. In the case of unmetered service, billing will be based on a calculated consumption, taking into account the size and characteristics of the load, or on meter readings obtained from a similar installation.

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Lexington, Kentucky

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Kentucky Utilities Company

P.S.C. No. 18, ~~Second Third~~ Revision of Original Sheet No. 79
Canceling P.S.C. No. 18, ~~First Second~~ Revision of Original Sheet No. 79

Standard Rate **SPS**
SCHOOL POWER SERVICE

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

This rate schedule is available as an option for secondary service P-12 schools whose 12-month-average monthly minimum secondary loads exceed 50 kW and whose 12-month-average monthly maximum loads do not exceed 250 kW.

Service under this rate schedule is limited until the total projected revenue impact for customers taking service under SPS and STOD combined is \$750,000 annually compared to the projected annual revenues for the participating schools under the rates under which the schools would otherwise be served; wherein such projected impacts shall be calculated on billing data for the most recent 12-month period available to the Companies. The Kentucky School Boards Association ("KSBA") will be responsible for proposing schools for participation in this optional rate and the order in which such schools are proposed. KU will calculate and provide to KSBA the projected revenue impact of each proposed school.

A customer electing to take service under this rate schedule who subsequently elects to take service under another rate schedule, may not be allowed to return to this optional rate for 12 months from the date of exiting this rate schedule.

This rate schedule will expire on July 1, 2020 or when KU files its next base rate case, whichever is earlier. Customers on this rate schedule will be transferred at that time to the rate schedule under which they were formerly served.

RATE	Secondary	
Basic Service Charge per month:	\$90.00	
Plus an Energy Charge per kWh:	\$ 0.03289 <u>0.03132</u>	<u>R</u>
Plus a Demand Charge per kW:		
Summer Rate:		
(Five Billing Periods of May through September)	\$18.75	↓
Winter Rate:		
(All other months)	\$16.78	↓

- Where the monthly billing demand is the greater of:
- a) the maximum measured load in the current billing period but not less than 50 kW, or
 - b) a minimum of 50% of the highest measured load in the preceding eleven (11) monthly billing periods, or
 - c) if applicable, a minimum of 60% of the contract capacity based on the maximum expected load on the system or on facilities specified by Customer.

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Lexington, Kentucky

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~~2019-00004 dated XXXX~~
~~2017-00266 dated December 19, 2017~~

Note, proposed changes to Tariff Sheet Nos. 79 (School Power Service) and 80 (School Time of Day Service) are being provided for illustrative purposes only. While both tariffs expired on September 28, 2018 with the filing of KU's base rate case (Case No. 2018-00294), both are still reflected in the Company's current Commission approved tariffs.

Kentucky Utilities Company

P.S.C. No. 18, ~~Second Third~~ Revision of Original Sheet No. 80
Canceling P.S.C. No. 18, ~~First Second~~ Revision of Original Sheet No. 80

Standard Rate **STOD**
SCHOOL TIME-OF-DAY SERVICE

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

This rate schedule is available as an option for secondary service P-12 schools whose 12-month-average monthly minimum loads exceed 250 kW.

Service under this rate schedule is limited until the total projected revenue impact for customers taking service under SPS and STOD combined is \$750,000 annually compared to the projected annual revenues for the participating schools under the rates under which the schools would otherwise be served; wherein such projected impacts shall be calculated on billing data for the most recent 12-month period available to the Companies. The Kentucky School Boards Association ("KSBA") will be responsible for proposing schools for participation in this optional rate and the order in which such schools are proposed. KU will calculate and provide to KSBA the projected revenue impact of each proposed school.

A customer electing to take service under this rate schedule who subsequently elects to take service under another rate schedule, may not be allowed to return to this optional rate for 12 months from the date of exiting this rate schedule.

This rate schedule will expire on July 1, 2020 or when KU files its next base rate case, whichever is earlier. Customers on this rate schedule will be transferred at that time to the rate schedule under which they were formerly served.

RATE

	<u>Secondary</u>	
Basic Service Charge per month:	\$200.00	
Plus an Energy Charge per kWh:	\$ 0.0324403087	<u>R</u>
Plus a Maximum Load Charge per kW:		
Peak Demand Period:	\$ 6.06	↓
Intermediate Demand Period:	\$ 4.55	↓
Base Demand Period:	\$ 5.13	↓

Where:

- the monthly billing demand for the Peak and Intermediate Demand Periods is the greater of:
- a) the maximum measured load in the current billing period, or
 - b) a minimum of 50% of the highest measured load in the preceding eleven (11) monthly billing periods, and
- the monthly billing demand for the Base Demand Period is the greater of:
- a) the maximum measured load in the current billing period but not less than 250 kW, or
 - b) the highest measured load in the preceding eleven (11) monthly billing periods, or
 - c) the contract capacity based on the maximum load expected on the system or on facilities specified by Customer.

DATE OF ISSUE: ~~February 25, 2019~~ ~~January 8, 2018~~

DATE EFFECTIVE: ~~September 1, 2019~~ ~~January 30, 2018~~

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.
~~2019-00004 dated XXXX~~
~~2017-00266 dated December 19, 2017~~

Note, proposed changes to Tariff Sheet Nos. 79 (School Power Service) and 80 (School Time of Day Service) are being provided for illustrative purposes only. While both tariffs expired on September 28, 2018 with the filing of KU's base rate case (Case No. 2018-00294), both are still reflected in the Company's current Commission approved tariffs.

Kentucky Utilities Company

P.S.C. No. 18, ~~Third~~~~Fourth~~ Revision of Original Sheet No. 81
Canceling P.S.C. No. 18, ~~Second~~~~Third~~ Revision of Original Sheet No. 81

Standard Rate OSL
OUTDOOR SPORTS LIGHTING SERVICE

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

This rate schedule is available as an optional pilot program for secondary and primary service used by a customer for lighting specifically designed for outdoor fields which are normally used for organized competitive sports. Service under this rate schedule is limited to a maximum of twenty customers. Company will accept customers on a first-come-first-served basis.

RATE

	Secondary	Primary
Basic Service Charge per month:	\$90.00	\$240.00
Plus an Energy Charge per kWh of:	\$ 0.03288-03131	\$ 0.0348903032R
Plus a Maximum Load Charge per kW of:		
Peak Demand Period	\$ 16.75	\$ 16.88
Base Demand Period	\$ 3.03	\$ 3.03

Where:

- the monthly billing demand for the Peak Demand Period is the greater of:
 - a) the maximum measured load in the billing period, or
 - b) a minimum of 50% of the highest billing demand in the preceding eleven (11) monthly billing periods.
- the monthly billing demand for the Base Demand Period is the greater of:
 - a) the maximum measured load in the billing period, or
 - b) the highest measured load in the preceding eleven (11) monthly billing periods, or
 - c) if applicable, the contract capacity based on the maximum load expected on the system or on facilities specified by Customer.

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

Fuel Adjustment Clause	Sheet No. 85
Off-System Sales Adjustment Clause	Sheet No. 88
Demand-Side Management Cost Recovery Mechanism	Sheet No. 86
Environmental Cost Recovery Surcharge	Sheet No. 87
Tax Cuts and Jobs Act Surcredit	Sheet No. 89
Franchise Fee Rider	Sheet No. 90
School Tax	Sheet No. 91

DATE OF ISSUE: ~~February 25, 2019~~April 5, 2018

DATE EFFECTIVE: ~~September 1, 2019~~April 1, 2018

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.
2019-00004 dated XXXX
2018-00034 dated March 20, 2018 and modified March 28, 2018

Kentucky Utilities Company

P.S.C. No. 18, ~~First~~Second Revision of Original Sheet No. 85.1
Canceling P.S.C. No. 18, ~~First~~Revision of Original Sheet No. 85.1

Adjustment Clause

FAC

Fuel Adjustment Clause

- (3) Forced outages are all non-scheduled losses of generation or transmission which require substitute power for a continuous period in excess of six (6) hours. Where forced outages are not as a result of faulty equipment, faulty manufacture, faulty design, faulty installations, faulty operation, or faulty maintenance, but are Acts of God, riot, insurrection or acts of the public enemy, then the utility may, upon proper showing, with the approval of the Commission, include the fuel cost of substitute energy in the adjustment. Until such approval is obtained, in making the calculations of fuel cost (F) in subsection (2)(a) and (b) above, the forced outage costs to be subtracted shall be no less than the fuel cost related to the lost generation.
- (4) Sales (S) shall be all kWh sold, excluding inter-system sales. Where, for any reason, billed system sales cannot be coordinated with fuel costs for the billing period, sales may be equated to the sum of (i) generation, (ii) purchases, (iii) interchange in, less (iv) energy associated with pumped storage operations, less (v) inter-system sales referred to in subsection (2)(d) above, less (vi) total system losses. Utility used energy shall not be excluded in the determination of sales (S).
- (5) The cost of fossil fuel shall include no items other than the invoice price of fuel less any cash or other discounts. The invoice price of fuel includes the cost of the fuel itself and necessary charges for transportation of the fuel from the point of acquisition to the unloading point, as listed in Account 151 of FERC Uniform System of Accounts for Public Utilities and Licensees.
- (6) Base (b) period shall be ~~August-December 2015~~7, and the base fuel factor is \$0.02~~452609~~ T/R per kWh.
- (7) Current (m) period shall be the second month preceding the month in which the Fuel Clause Adjustment Factor is billed. D

DATE OF ISSUE: ~~August 4, 2017~~February 25, 2019

DATE EFFECTIVE: September 1, 201~~7~~

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.
2017~~9~~-0000~~43~~ dated ~~XXXX~~July 31, 2017

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 28

Responding Witness: Stuart A. Wilson

Q-28. For the years ending October 31, 2017, and October 31, 2018, provide:

- a. Maximum annual system demand; and
- b. Average annual demand.

A-28.

- a. Maximum annual system demand:

<u>Year Ending</u>	<u>Peak Demand (MW)</u>
October 31, 2017	4,016
October 31, 2018	4,790

- b. Average annual system demand:

<u>Year Ending</u>	<u>Average Demand (MW)*</u>
October 31, 2017	2,430
October 31, 2018	2,574

*Average demand is calculated as the year ending energy divided by the hours per year.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 29

Responding Witness: Derek A. Rahn

Q-29.

- a. Provide a schedule of the calculation of the 12-month average line loss by month for November 2016 through October 2018.
- b. Describe the actions that KU has taken to reduce line loss during this period.

A-29.

- a. See attached.
- b. KU's transmission and distribution system is constantly being expanded and upgraded to provide reliable electric service. All enhancements contribute to a system that will operate with potentially fewer line losses. New line construction and transformer additions provide facilities which may reduce the current in existing facilities, thus allowing power the path of least resistance. Replacing existing conductors with larger conductors or replacing existing transformers with larger transformers also reduce the resistance. Adding capacitors near the load reduces system reactive power (VAR) requirements and line and transformer currents. Any reduction in current and/or resistance results in reduced losses. The Company's planning and design objective is to provide a reliable transmission and distribution system at a reasonable cost. For Transmission and Distribution, the cost for losses are evaluated as outlined below.

Transmission:

The cost of transmission line losses is included in the economic analysis when evaluating the cost of alternative projects. The costs of core and copper losses are incorporated into the selection of all transmission transformers.

Distribution:

Losses are evaluated in the selection of standard line materials (cables, wires, distribution transformers, etc.) and distribution substation transformers. Total ownership cost, which includes the cost of no-load, load and auxiliary losses, is incorporated into the selection of distribution and substation transformers.

Kentucky Utilities Company

**12 Month Average Line Loss
November 2016 to October 2018**

Line	Month	Current Month kWh Sources	Current Month KU Losses	12 Months to Date kWh Sources	12 Months to Date Overall System Losses	12 Months End Percent Losses
(a)	(b)	(f)		(c)	(d)	(e) (d) / (c)
1	Nov-16	1,657,549,000	89,611,820	22,550,403,000	1,271,529,009	5.638609%
2	Dec-16	2,024,824,000	113,895,423	22,757,114,000	1,294,152,558	5.686804%
3	Jan-17	2,011,270,000	114,748,450	22,564,285,000	1,267,478,201	5.617188%
4	Feb-17	1,637,138,000	104,056,079	22,288,188,000	1,278,104,112	5.734446%
5	Mar-17	1,798,403,000	102,118,893	22,350,894,000	1,265,544,546	5.662165%
6	Apr-17	1,608,924,000	99,617,631	22,342,102,000	1,274,278,379	5.703485%
7	May-17	1,715,392,000	84,303,188	22,369,710,000	1,266,348,916	5.660998%
8	Jun-17	1,836,433,000	113,689,196	22,243,175,000	1,274,811,290	5.731247%
9	Jul-17	2,044,219,000	121,037,685	22,186,706,000	1,267,746,178	5.713990%
10	Aug-17	1,932,231,000	101,483,360	21,911,756,000	1,258,885,827	5.745253%
11	Sep-17	1,714,638,000	98,505,158	21,721,426,000	1,237,298,431	5.696212%
12	Oct-17	1,661,226,000	99,131,698	21,642,247,000	1,242,198,581	5.739693%
13	Nov-17	1,778,983,000	93,393,563	21,763,681,000	1,245,980,324	5.725044%
14	Dec-17	2,031,828,000	123,879,279	21,770,685,000	1,255,964,180	5.769061%
15	Jan-18	2,524,897,000	154,890,498	22,284,312,000	1,296,106,228	5.816227%
16	Feb-18	1,731,838,000	126,588,705	22,379,012,000	1,318,638,854	5.892301%
17	Mar-18	1,846,309,000	90,859,834	22,426,918,000	1,307,379,795	5.829512%
18	Apr-18	1,641,546,000	120,934,090	22,459,540,000	1,328,696,254	5.915955%
19	May-18	1,856,941,000	70,581,761	22,601,089,000	1,314,974,827	5.818192%
20	Jun-18	1,929,456,000	129,850,050	22,694,112,000	1,331,135,681	5.865555%
21	Jul-18	2,031,797,000	131,967,167	22,681,690,000	1,342,065,163	5.916954%
22	Aug-18	2,029,157,000	109,608,857	22,778,616,000	1,350,190,660	5.927448%
23	Sep-18	1,852,534,000	128,786,772	22,916,512,000	1,380,472,274	6.023920%
24	Oct-18	1,781,868,000	90,653,810	23,037,154,000	1,371,994,386	5.955572%

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 30

Responding Witness: Delbert Billiter / Stuart Wilson

Q-30. Provide the most recent projected fuel requirements for the years 2019 and 2020 in tons for coal, MMBtu for natural gas, and dollars.

A-30. Coal purchases in 2019 Business Plan:

	<u>Tons</u>	<u>Dollars</u>
2019 Projected Coal Purchases	6,786,927	\$321,284,703
2020 Projected Coal Purchases	6,791,604	\$319,781,924

Natural gas purchases in 2019 Business Plan:

	<u>MMBtu</u>	<u>Dollars</u>
2019 Projected Natural Gas Purchases	39,349,458	\$131,412,449
2020 Projected Natural Gas Purchases	36,292,742	\$124,307,937

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 31

Responding Witness: Derek A. Rahn

Q-31. Provide the most recent sales projections for the years 2019 and 2020 in kWh and dollars.

A-31. KU's most recent sales projections for 2019 and 2020 are:

	<u>Sales (kWh)</u>	<u>Dollars</u>
2019 Ultimate Consumers	17,867,864,917	\$1,546,738,320
2020 Ultimate Consumers	17,866,242,798	\$1,590,225,719

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 32

Responding Witness: Stuart A. Wilson

- Q-32. Provide the planned maintenance schedule for each of the generating units for the years 2019 and 2020.
- A-32. The information requested is being provided pursuant to a Petition for Confidential Treatment. See attached.

2019
 KU Weekly Maintenance Detail

MAINT	Br1	Br2	Br3	Gh1	Gh2	Gh3	Gh4	TC2	CR7	Br5	Br6	Br7	Br8	Br9	Br10	Br11	PR13	TC5	TC6	TC7	TC8	TC9	TC10	
WEEK	107	167	411	475	484	482	476	560	691	120	157	157	118	118	118	118	161	169	169	169	169	169	169	
1/7																								
1/14																								
1/21																								
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Notes: * Jointly owned units between LG&E/KU
 ■ BR1, BR2 retiring as of 2/28/2019

2020
 KU Weekly Maintenance Detail

MAINT WEEK	Br1	Br2	Br3	Gh1	Gh2	Gh3	Gh4	TC2	CR7	Br5	Br6	Br7	Br8	Br9	Br10	Br11	PR13	TC5	TC6	TC7	TC8	TC9	TC10
1/7	107	167	411	475	484	482	476	560	691	120	157	157	118	118	118	118	161	169	169	169	169	169	169
1/14																							
1/21																							
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Notes: * Jointly owned units between LG&E/KU
 ■ BR1, BR2 retiring as of 2/28/2019

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's First Request for Information
Dated February 11, 2019**

Case No. 2019-00004

Question No. 33

Responding Witness: Delbert Billiter / Charles R. Schram

- Q-33. Identify any issues that could affect fuel costs for the two-year period that remain unresolved or unsettled. Include in the response any issues related to billings from a regional transmission operator. Consider this a continuing request to inform the Commission if KU becomes aware of any issues during the course of this proceeding.
- A-33. The Company has no unresolved or unsettled issues to report.