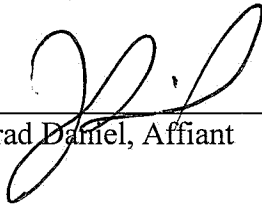


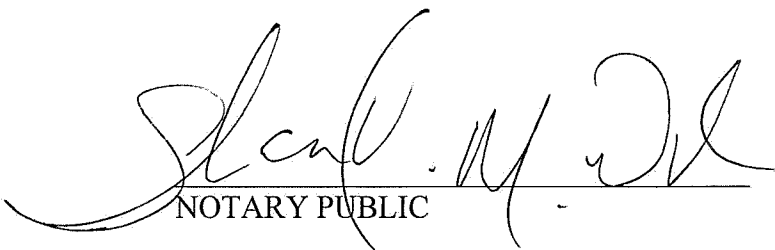
**VERIFICATION**

**STATE OF NORTH CAROLINA        )**  
**)**       **SS:**  
**COUNTY OF MECKLENBURG        )**

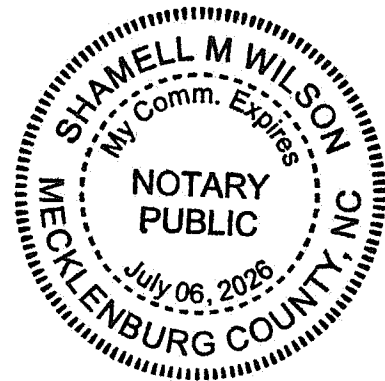
The undersigned, Brad Daniel, Director, Generation Dispatch and Operations, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.

  
\_\_\_\_\_  
Brad Daniel, Affiant

Subscribed and sworn to before me by Brad Daniel on this 12 day of September, 2023.

  
\_\_\_\_\_  
NOTARY PUBLIC

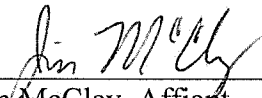
My Commission Expires:



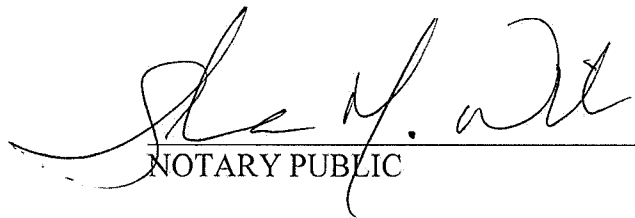
VERIFICATION

STATE OF NORTH CAROLINA        )  
  )       SS:  
COUNTY OF MECKLENBURG        )

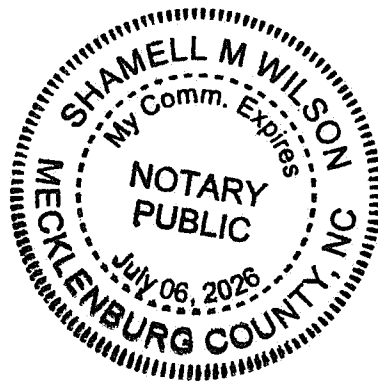
The undersigned, Jim McClay, Manager Director Natural Gas Trading, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.

  
\_\_\_\_\_  
Jim McClay, Affiant

Subscribed and sworn to before me by Jim McClay on this 20<sup>th</sup> day of September  
2023.

  
\_\_\_\_\_  
NOTARY PUBLIC

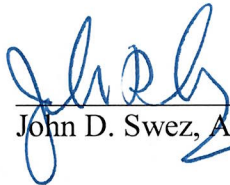
My Commission Expires:



VERIFICATION

STATE OF NORTH CAROLINA      )  
  )    SS:  
COUNTY OF MECKLENBURG    )

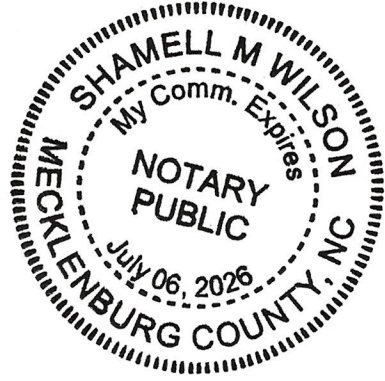
The undersigned, John D. Swez, Managing Director, Trading and Dispatch, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.

  
\_\_\_\_\_  
John D. Swez, Affiant

Subscribed and sworn to before me by John D. Swez on this 12<sup>th</sup> day of September, 2023.

  
\_\_\_\_\_  
NOTARY PUBLIC

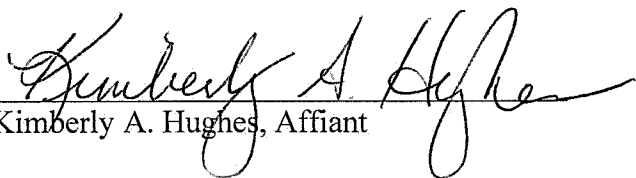
My Commission Expires:



**VERIFICATION**

**STATE OF NORTH CAROLINA**        )  
  )  
**COUNTY OF MECKLENBURG**        )        **SS:**

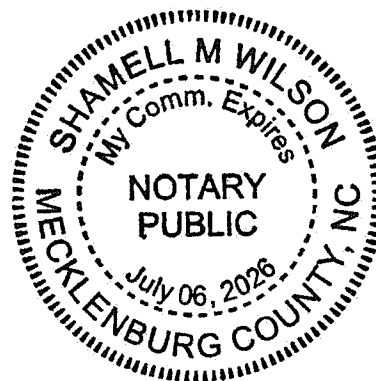
The undersigned, Kimberly A. Hughes, Director, Coal Origination, being duly sworn, deposes and says that she has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of her knowledge, information and belief.

  
\_\_\_\_\_  
Kimberly A. Hughes, Affiant

Subscribed and sworn to before me by Kimberly A. Hughes on this 19<sup>th</sup> day of September, 2023.

  
\_\_\_\_\_  
NOTARY PUBLIC

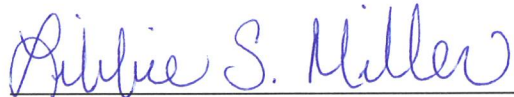
My Commission Expires:



VERIFICATION

STATE OF OHIO                            )  
  )  
COUNTY OF HAMILTON                 )       SS:


The undersigned, Libbie S. Miller, Rates & Regulatory Strategy Manager, being duly sworn, deposes and says that she has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of her knowledge, information and belief.

  
\_\_\_\_\_  
Libbie S. Miller Affiant

Subscribed and sworn to before me by Libbie S. Miller on this 19<sup>th</sup> day of SEPTEMBER, 2023.



ADELE M. FRISCH  
Notary Public, State of Ohio  
My Commission Expires 01-05-2024

  
\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: 1/5/2024

VERIFICATION

STATE OF NORTH CAROLINA )  
 ) SS:  
COUNTY OF MECKLENBURG )

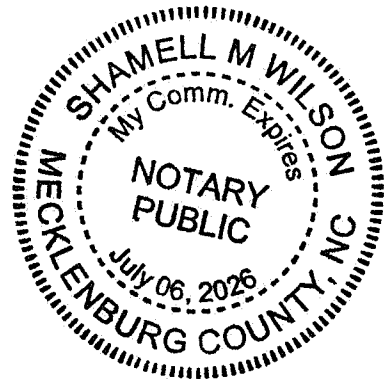
The undersigned, Scott Burnside, Director - Unit Commitment and Post Analysis, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests are true and correct to the best of his knowledge, information and belief.

*Scott Burnside*  
\_\_\_\_\_  
Scott Burnside, Affiant

Subscribed and sworn to before me by Scott Burnside on this 21<sup>st</sup> day of September, 2023.

*Shamell M. Wilson*  
\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires:



**KyPSC Case No. 2023-00012**  
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**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-001**

**REQUEST:**

For the period from May 1, 2022, to October 31, 2022 (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.

**RESPONSE:**

For the period under review from May 1, 2022 through October 31, 2022, please see STAFF-DR-01-001 Attachment.

**PERSON RESPONSIBLE:** Kimberly Hughes

**Duke Energy Kentucky**  
**Case No. 2023-00012- Staff First Set Data Requests**  
**Coal purchased May 1, 2022 - October 31, 2022**

<u>Vendor</u>	<u>Purchase Tonnage</u>	<u>Purchase Type</u>	<u>Contract #</u>	<u>Filed with Commission</u>	<u>If no, Explain why</u>
Alliance Coal LLC	162,395	Contract	DEK 34704	3/8/2022	
Central Coal Co	57,825	Contract	DEK 34495	6/4/2021	
Central Coal Co	20,286	Contract	DEK 34725	3/8/2022	
Alliance Coal LLC	263,998	Contract	DEK 34466	6/4/2021	
Case Coal Sales LLC	1,543	Contract	DEK 35111	4/4/2023	
Iron Coal Sales	3,224	Spot	DEK 34716	3/8/2022	
Alliance Coal LLC	39,594	Spot	DEK 35085	4/4/2023	
Foresight Coal Sales	19,315	Spot	DEK 35005	4/27/2022	
Total	<u><b>568,179</b></u>				
	<b>89%</b>	<b>Contract</b>			
	<b>11%</b>	<b>Spot</b>			
	<b>100%</b>	<b>Total</b>			

**Duke Energy Kentucky**  
**Case No. 2023-00012**  
**STAFF First Set of Data Requests**  
**Date Received: September 6, 2023**

**STAFF-DR-01-002**

**REQUEST:**

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 the following:

- 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, or other);
- e. The actual quantity received during the review period; and
- f. Current price paid per ton.

**RESPONSE:**

- a. 35111
- b. Case Coal Sales, LLC.
- c. Central Appalachian Steam Coal Sources
- d. Barge
- e. 1,543
- f. \$118.00

- a. 34495
- b. Central Coal Company as agent for Knight Hawk Coal, LLC
- c. Knight Hawk's Prairie Eagle Mine, IL
- d. Barge
- e. 57,825
- f. \$33.90

- a. 34725
- b. Central Coal Company as agent for Knight Hawk Coal, LLC
- c. Knight Hawk's Prairie Eagle Mine, IL
- d. Barge
- e. 20,286
- f. \$44.00

- a. 34704
- b. Alliance Coal, LLC
- c. Tunnel Ridge, Ohio County, WV
- d. Barge
- e. 162,395
- f. \$55.00

- a. 34466
- b. Alliance Coal, LLC
- c. Tunnel Ridge, Ohio County, WV
- d. Barge
- e. 263,998
- f. \$39.00

**PERSON RESPONSIBLE:** Kimberly Hughes

**Duke Energy Kentucky**  
**Case No. 2023-00012**  
**STAFF First Set of Data Requests**  
**Date Received: September 6, 2023**

**STAFF-DR-01-003**

**REQUEST:**

- 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.
  - (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.

**RESPONSE:**

- a. Duke Energy Kentucky's total aggregate inventory across the system as of October 31, 2022 was 277,366 tons, or 43 days. This total inventory is for East Bend Station, which is the only coal-fired generating station in the Duke Energy Kentucky fleet.
- b. The number of days' supply is computed by dividing the ending coal inventory number stated in tons by the Full Load Burn figure of 6,500 tons per day.

- c. The target goal inventory is an annual average of 45 days compared to the actual inventory amount of 43 days on October 31, 2022, for East Bend Station which is the only coal-fired generating station in the Duke Energy Kentucky fleet.
- d. Duke Energy Kentucky's coal inventory did not exceed the inventory target by ten days of supply.
  - (1) Duke Energy Kentucky does not expect any significant changes in its current coal inventory target within the next 12 months.
  - (2) N/A

**PERSON RESPONSIBLE:** Kimberly Hughes



**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**PUBLIC STAFF-DR-01-004  
(As to Attachment only)**

**REQUEST:**

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 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.

**RESPONSE:**

**CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachment only)**

- a. Duke Energy issued one written term solicitation, in May 2022 requesting proposals for coal to be delivered from 2022 through 2024. The quantity and quality in the solicitation were not limited as the Company requested proposals for the full amounts of available coal the vendors can offer which enabled the

Company to make decisions regarding the amounts to be purchased after evaluations were completed. Finally, the coal was requested for East Bend Unit 2.

- b. The May 2022 coal solicitation was sent to 56 vendors with 6 vendors providing 7 bids, with 1 bid selected for term purchase. Please see STAFF-DR-01-004 Confidential Attachment containing the proposal evaluation rankings.

**PERSON RESPONSIBLE:** Kimberly Hughes

**CONFIDENTIAL PROPRIETARY TRADE  
SECRET**

**STAFF-DR-01-004  
CONFIDENTIAL ATTACHMENT**

**FILED UNDER SEAL**

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**PUBLIC STAFF-DR-01-005  
(As to Attachment only)**

**REQUEST:**

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 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.

**RESPONSE:**

**CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachment only)**

- a. Duke Energy Kentucky issued one oral coal supply solicitation during May 2022 requesting proposals for coal to be delivered beginning in the summer of 2022. The solicitation was a phone solicitation due to higher than expected coal burns that occurred during the spring of 2022. The quantity and quality in the solicitation were not limited as the Company requested proposals for the full

amounts of available coal the vendors can offer which enabled the Company to make decisions regarding the amounts to be purchased after evaluations were completed.

- b. The May 2022 oral coal solicitation was a phone solicitation to 20 vendors with 2 vendors providing 4 bids and 2 bids selected for spot purchase by Duke Energy Kentucky. Please see STAFF-DR-01-005 Confidential Attachment containing the proposal evaluation rankings.

**PERSON RESPONSIBLE:** Kimberly Hughes

**CONFIDENTIAL PROPRIETARY TRADE  
SECRET**

**STAFF-DR-01-005  
CONFIDENTIAL ATTACHMENT**

**FILED UNDER SEAL**

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-006**

**REQUEST:**

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.

**RESPONSE:**

Please see STAFF-DR-01-006 Attachment which lists each vendor from whom natural gas was purchased for the period of May 1, 2022 to October 31, 2022.

**PERSON RESPONSIBLE:** Jim McClay

**Duke Energy Kentucky - Physical Natural Gas Purchases**  
**May 1, 2022 -October 31, 2022**

Spot/Contract	Counterpart	Start Date	End Date	Buy/Sell	Qty
Spot	TENASKA MARKETING VE	6/13/2022	6/13/2022	Buy	40000
Spot	TENASKA MARKETING VE	6/14/2022	6/14/2022	Buy	35000
Spot	TENASKA MARKETING VE	6/15/2022	6/15/2022	Buy	15000
Spot	TENASKA MARKETING VE	6/30/2022	6/30/2022	Buy	20000
Spot	TENASKA MARKETING VE	7/1/2022	7/1/2022	Buy	21000
Spot	TENASKA MARKETING VE	7/5/2022	7/5/2022	Buy	20000
Spot	Vitol Inc.	7/7/2022	7/7/2022	Buy	40000
Spot	TENASKA MARKETING VE	7/8/2022	7/8/2022	Buy	30000
Spot	Vitol Inc.	7/14/2022	7/14/2022	Buy	19990
Spot	Eco Energy Nat Gas	7/15/2022	7/15/2022	Buy	10000
Spot	Vitol Inc.	7/15/2022	7/15/2022	Buy	10000
Spot	Eco Energy Nat Gas	7/18/2022	7/18/2022	Buy	10000
Spot	Vitol Inc.	7/19/2022	7/19/2022	Buy	20000
Spot	Eco Energy Nat Gas	7/20/2022	7/20/2022	Buy	15000
Spot	Eco Energy Nat Gas	7/21/2022	7/21/2022	Buy	7000
Spot	TENASKA MARKETING VE	7/21/2022	7/21/2022	Buy	30000
Spot	Twin Eagle Resource Management, LLC	7/21/2022	7/21/2022	Buy	21000
Spot	TENASKA MARKETING VE	7/22/2022	7/22/2022	Buy	10000
Spot	Vitol Inc.	7/28/2022	7/28/2022	Buy	20000
Spot	Vitol Inc.	8/4/2022	8/4/2022	Buy	21000
Spot	TENASKA MARKETING VE	8/6/2022	8/6/2022	Buy	5000
Spot	TENASKA MARKETING VE	8/7/2022	8/7/2022	Buy	7000
Spot	TENASKA MARKETING VE	8/9/2022	8/9/2022	Buy	50000
Spot	TENASKA MARKETING VE	8/10/2022	8/10/2022	Buy	11000
Spot	Vitol Inc.	8/10/2022	8/10/2022	Buy	11000
Spot	Eco Energy Nat Gas	8/23/2022	8/23/2022	Buy	10000
Spot	TENASKA MARKETING VE	8/28/2022	8/28/2022	Buy	10000
Spot	TENASKA MARKETING VE	8/30/2022	8/30/2022	Buy	8000
Spot	Vitol Inc.	8/30/2022	8/30/2022	Buy	8000
Spot	Eco Energy Nat Gas	8/31/2022	8/31/2022	Buy	15000
Spot	Vitol Inc.	9/8/2022	9/8/2022	Buy	11000
Spot	TENASKA MARKETING VE	9/19/2022	9/19/2022	Buy	4000
Spot	TENASKA MARKETING VE	9/22/2022	9/22/2022	Buy	15000
Spot	Vitol Inc.	10/11/2022	10/11/2022	Buy	6000
Spot	Vitol Inc.	10/17/2022	10/17/2022	Buy	13000
Spot	TENASKA MARKETING VE	10/19/2022	10/19/2022	Buy	15000
Spot	Vitol Inc.	10/20/2022	10/20/2022	Buy	13000



Spot	Vitol Inc.	10/21/2022	10/21/2022	Buy	10000
Spot	Vitol Inc.	10/24/2022	10/24/2022	Buy	10000
Spot	Vitol Inc.	10/25/2022	10/25/2022	Buy	9000
Spot	NRG BusMrktg	10/26/2022	10/26/2022	Buy	20000
Spot	Vitol Inc.	10/31/2022	10/31/2022	Buy	7461

**Duke Energy Kentucky**  
**Case No. 2023-00012**  
**STAFF First Set of Data Requests**  
**Date Received: September 6, 2023**

**STAFF-DR-01-007**

**REQUEST:**

For the last six months of the period under review, state whether 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.

**RESPONSE:**

For the period under review, there were no 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. There were also no issues during the period with pipeline gas pressure that caused Woodsdale units to be removed from service. On July 4, 2022, TETCO pipeline pressure issues impacted gas delivery to the Company's gas delivery point. Woodsdale units were not impacted as the units were not dispatched this day and the Company's offer to PJM remained economic on natural gas. The units were dispatched the following day and were not impacted by any pipeline pressure issues or other constraints. Furthermore, because of Woodsdale station's dual fuel capability, if Woodsdale encounters pipeline constraints or unavailability of natural gas, the station is not prevented from operating unless the units are unavailable to be dispatched on oil during those times.

**PERSON RESPONSIBLE:** Brad Daniel

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-008**

**REQUEST:**

For the last six months of the period under review, state whether there have been any changes to hedging activities for coal or natural gas purchases used for generation since the previous Fuel Adjustment Clause (FAC) review proceeding. If so, describe the changes in detail.

**RESPONSE:**

**Coal:**

Duke Energy Kentucky did not engage in financial hedging transactions with respect to coal purchases. Duke Energy Kentucky contracts for physical deliveries of coal through fixed term coal transactions within a balanced portfolio of purchases. The Company also maintains a portfolio with multiple suppliers to mitigate potential supply interruption risk.

**Natural Gas:**

Duke Energy Kentucky did not engage in any financial hedging activity for natural gas purchases used for generation.

**PERSON RESPONSIBLE:** Kimberly Hughes  
Jim McClay

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-009**

**REQUEST:**

- a. State whether Duke Kentucky 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 Duke Kentucky took as a result of the audit.

**RESPONSE:**

**Coal**

Duke Energy Kentucky has not audited any of its coal or coal transportation contracts during the period of May 1, 2022 through October 31, 2022.

**Natural Gas, Natural Gas Transportation, and Fuel Oil**

Duke Energy Kentucky has not audited any of its fuel or transportation contracts during the period of May 1, 2022 through October 31, 2022.

**PERSON RESPONSIBLE:** Kimberly Hughes  
Jim McClay

**Duke Energy Kentucky**  
**Case No. 2023-00012**  
**STAFF First Set of Data Requests**  
**Date Received: September 6, 2023**

**STAFF-DR-01-010**

**REQUEST:**

- a. State whether Duke Kentucky 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 Duke Kentucky;
  - (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.

**RESPONSE:**

- a. Duke Energy Kentucky is not currently involved in any litigation with its current or former fuel suppliers or transportation vendors.
- b. N/A
- c. N/A

**PERSON RESPONSIBLE:** Kimberly Hughes  
Jim McClay

**Duke Energy Kentucky**  
**Case No. 2023-00012**  
**STAFF First Set of Data Requests**  
**Date Received: September 6, 2023**

**STAFF-DR-01-011**

**REQUEST:**

- a. For the last six months of the period under review, state whether there have been any changes to Duke Kentucky'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 Duke Kentucky'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.

**RESPONSE:**

**Coal, Natural Gas, and Fuel Oil**

- a. There were no changes to the Duke Energy Kentucky's written policies and procedures regarding its fuel procurement.
- b. There were no changes to The **Regulated Electric Risk Limits**. The Regulated Electric Risk Limits document was updated and approved on January 20, 2022.

“The Regulated Electric Risk Limits” document was submitted with the Company’s responses to Staff’s requests for information in Case No. 2022-00267.

There were no changes to the **Regulated Utilities Risk Management Control Manual**. The Regulated Utilities Risk Management Control Manual was updated and approved on January 7, 2021. The “Regulated Utilities Risk Management Control Manual” document was submitted with the Company’s responses to Staff’s requests for information in Case No. 2021-00296.

### **Coal**

- a. The procedures in response to (b) below remained unchanged during the period under review.
- b. There were no changes to the **Coal and Reagents Procedure**. The Coal and Reagents Procedure was updated on March 1, 2021. This document was submitted with the Company’s responses to Commission Staff’s First Request for Information in Case No. 2021-00296.

### **Natural Gas & Fuel Oil**

- a. The procedures in response to (b) below remained unchanged during the period under review.
- b. The Fuels and System Optimization (FSO) DEK Emissions Trading Process & Procedure Check List,” and the “Fuel Oil Emergency Procedure” were updated in May 2015, and June 2015, respectively. These two documents were submitted with the Company’s responses to Commission Staff’s First Requests for Information in Case No. 2017-00005. The “DEI and DEK Gas Trading Procedure for Off-Premise Transactions” was updated in June 2019 and it was submitted with the Company’s

responses to Commission Staff's First Requests for Information in Case No. 2020-00008.

**PERSON RESPONSIBLE:** Kimberly Hughes  
Jim McClay



**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-012**

**REQUEST:**

For the last six months of the period under review and for the years 2021 and 2022, list all firm power commitments for Duke Kentucky 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, etc.).

**RESPONSE:**

Duke Energy Kentucky had no firm power commitments during this period.

**PERSON RESPONSIBLE:** Jim McClay  
Brad Daniel

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-013**

**REQUEST:**

Provide a monthly billing summary of sales to all electric utilities for the last six months of the period under review.

**RESPONSE:**

Please see STAFF-DR-01-013 Attachment.

**PERSON RESPONSIBLE:** Libbie S. Miller

**DUKE ENERGY KENTUCKY  
 POWER TRANSACTION SCHEDULE**

Supplier/Buyer	Transaction Type	kWh	Charges (\$)			
			Demand	Fuel	Other	Total
<b>Month Ended May 31,2022</b>						
PJM Interconnection, LLC	Economy Sales	36,340,220	0	812,951	1,869,235	2,682,186
	Total Sales	<u>36,340,220</u>	<u>0</u>	<u>812,951</u>	<u>1,869,235</u>	<u>2,682,186</u>
<b>Month Ended June 30,2022</b>						
PJM Interconnection, LLC	Economy Sales	28,820,740		931,632	2,666,722	3,598,354
	Total Sales	<u>28,820,740</u>	<u>0</u>	<u>931,632</u>	<u>2,666,722</u>	<u>3,598,354</u>
<b>Month Ended July 31,2022</b>						
PJM Interconnection, LLC	Economy Sales	8,496,560		542,363	440,227	982,590
	Total Sales	<u>8,496,560</u>	<u>0</u>	<u>542,363</u>	<u>440,227</u>	<u>982,590</u>
<b>Month Ended August 31,2022</b>						
PJM Interconnection, LLC	Economy Sales	5,204,330		362,354	537,156	899,510
	Total Sales	<u>5,204,330</u>	<u>0</u>	<u>362,354</u>	<u>537,156</u>	<u>899,510</u>
<b>Month Ended September 30,2022</b>						
PJM Interconnection, LLC	Economy Sales	5,742,130 <sup>(a)</sup>		215,311	145,520	360,831
	Total Sales	<u>5,742,130</u>	<u>0</u>	<u>215,311</u>	<u>145,520</u>	<u>360,831</u>
<b>Month Ended October 31,2022</b>						
PJM Interconnection, LLC	Economy Sales	0 <sup>(b)</sup>		0	0	0
	Total Sales	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Notes:

<sup>(a)</sup> Revised September 2022 kwh during the review of the fuel adjustment clause in Case No 2023-00012 from 6,510,510 kWh to 5,742,130 kWh. A correction will be made

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-014**

**REQUEST:**

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.

**RESPONSE:**

Please see STAFF-DR-01-014 Attachment.

**PERSON RESPONSIBLE:** Brad Daniel

Unit	Primary Fuel Type	Event Start	Event End	Event Type	Event Description	Event Duration Hours
East Bend Steam-2	Coal	4/20/22 5:34 AM	5/7/22 4:16 AM	MO	Spring Maintenance Outage- Secondary Air Heater baskets and FGD duct work/ misc.	406.7
East Bend Steam-2	Coal	5/7/22 4:20 AM	5/7/22 6:00 AM	U1	PA fan vibration	1.67
East Bend Steam-2	Coal	5/8/22 3:24 AM	5/9/22 5:28 PM	U1	Unit Trip-Boiler Feed Pump recirc line repairs	38.07
East Bend Steam-2	Coal	5/31/22 2:16 AM	6/1/22 6:33 AM	U1	Voltage regulator	28.28
East Bend Steam-2	Coal	6/1/22 7:16 AM	6/2/22 8:34 AM	U1	2-2 BFPT Trip - Unit trip on Low Drum Level	25.3
East Bend Steam-2	Coal	7/29/22 11:12 AM	7/31/22 5:50 AM	MO	Reheat boiler tube leak Maintenance Outage	42.63
East Bend Steam-2	Coal	8/5/22 5:58 PM	8/6/22 3:36 AM	U1	Station air compressor tripped due to damaged seal air piping.	9.63
East Bend Steam-2	Coal	8/6/22 3:41 AM	8/6/22 4:55 AM	U1	Drum Level trip	1.23
East Bend Steam-2	Coal	8/7/22 12:21 AM	8/7/22 10:22 AM	U1	DCS Drop 25 Failure - MFT	10.02
East Bend Steam-2	Coal	8/7/22 10:28 AM	8/7/22 12:01 PM	U1	Drum Level trip	1.55
East Bend Steam-2	Coal	8/12/22 4:50 AM	8/22/22 5:01 AM	MO	Generator Vibration balance	240.18
East Bend Steam-2	Coal	8/29/22 4:01 AM	9/6/22 12:10 PM	MO	IDBF 2-1 and 2-3 VIVs won't stroke 100%	200.15
East Bend Steam-2	Coal	9/24/22 4:00 AM	11/3/22 4:17 AM	PO	Planned Fall 2022 Outage - Critical path SAH Basket replacement	960.28
Woodsdale CT-1	Natural Gas	5/1/22 9:50 PM	5/2/22 7:47 PM	U1	CT1 not reading Line Voltage.	21.95
Woodsdale CT-1	Natural Gas	5/20/22 10:00 AM	5/25/22 1:20 PM	PO	Inspect Turbine Blades	123.33
Woodsdale CT-1	Natural Gas	6/18/22 10:35 PM	6/18/22 11:10 PM	MO	Unavailable to switch to BOP to charge CB1504.	0.58
Woodsdale CT-1	Natural Gas	9/17/22 10:00 AM	9/23/22 6:50 PM	PO	Replace Natural Gas Valves.	152.83
Woodsdale CT-2	Natural Gas	5/13/22 7:22 PM	5/13/22 10:02 PM	SF	Starting Breaker Failure.	2.67
Woodsdale CT-2	Natural Gas	6/18/22 10:35 PM	6/18/22 11:40 PM	MO	Unavailable to switch to BOP to charge CB1504.	1.08
Woodsdale CT-2	Natural Gas	9/17/22 10:00 AM	9/23/22 8:20 PM	PO	Replace Natural Gas Valves.	154.33
Woodsdale CT-3	Natural Gas	3/18/22 10:00 AM	6/1/22 4:00 AM	PO	Generator Field Rewind	1794
Woodsdale CT-3	Natural Gas	6/1/22 4:00 AM	7/25/23 12:21 PM	U1	Generator Rewind -span Peek Maintenance	10064.35
Woodsdale CT-4	Natural Gas	5/13/22 11:00 AM	5/13/22 9:20 PM	PO	Crane outage, for GT3 Gen Rotor.	10.33
Woodsdale CT-4	Natural Gas	6/6/22 2:05 PM	6/6/22 9:50 PM	PO	Crane outage, for GT3 Gen Rotor	7.75
Woodsdale CT-4	Natural Gas	6/18/22 10:35 PM	6/19/22 3:48 AM	MO	Recharging CB1504 with SF6 Gas.	5.22
Woodsdale CT-4	Natural Gas	10/1/22 10:00 AM	10/6/22 7:37 PM	PO	Replace Natural Gas Valves.	129.62
Woodsdale CT-5	Natural Gas	6/13/22 2:55 PM	6/13/22 8:13 PM	U1	TRIP; Variable Inlet Guide Vanes Problem.	5.3
Woodsdale CT-5	Natural Gas	6/15/22 3:44 PM	6/16/22 2:29 PM	SF	TRIP during start up; Variable Inlet Guide Vanes Problem.	22.75
Woodsdale CT-5	Natural Gas	6/22/22 7:49 PM	6/23/22 10:30 PM	U1	Fire Prot. tripped unit, enclosure heat detectors. CO2 discharged.	26.68
Woodsdale CT-5	Natural Gas	7/22/22 6:01 PM	7/26/22 3:11 PM	U1	Fire Protection CO2 Trip, dumped CO2.	93.17
Woodsdale CT-5	Natural Gas	10/8/22 10:00 AM	10/13/22 7:14 PM	PO	Replace Natural Gas Valves.	129.23
Woodsdale CT-5	Natural Gas	10/13/22 11:06 PM	10/14/22 12:23 AM	SF	Flame out due to bad Thermocouple.	1.28
Woodsdale CT-6	Natural Gas	6/15/22 4:54 PM	6/15/22 5:32 PM	U1	TRIP; UPS for Communications Drop Failed	0.63
Woodsdale CT-6	Natural Gas	8/8/22 3:22 PM	8/8/22 4:07 PM	U1	TRIP; Flame Scanner Failure.	0.75
Woodsdale CT-6	Natural Gas	10/8/22 10:00 AM	10/13/22 7:17 PM	PO	Replace Natural Gas Valves.	129.28
Woodsdale CT-6	Natural Gas	10/31/22 9:00 AM	10/31/22 4:49 PM	PO	Natural Gas Flowmeter Calibration	7.82

**Event Type Key**

MO	Maintenance Outage
PO	Planned Outage
SF	Startup Failure
U1	Unplanned (Forced) Outage - Immediate

**Duke Energy Kentucky**  
**Case No. 2023-00012**  
**STAFF First Set of Data Requests**  
**Date Received: September 6, 2023**

**STAFF-DR-01-015**

**REQUEST:**

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

**RESPONSE:**

**East Bend**

<u>Month</u>	<u>Net MWH</u>	<u>Period Hours</u>	<u>MW Rating</u>	<u>MW Hours</u>	<u>Net Capacity Factor</u>
May-22	262,484	744	600	446,400	58.80%
June-22	355,385	720	600	432,000	82.27%
July-22	295,724	744	600	446,400	66.25%
August-22	110,473	744	600	446,400	24.75%
September-22	166,980	720	600	432,000	38.65%
October-22	<u>(4,685)</u>	<u>744</u>	<u>600</u>	<u>446,400</u>	<u>-1.05%</u>
<b>Total</b>	<b>1,186,361</b>	<b>4,416</b>	<b>600</b>	<b>2,649,600</b>	<b>44.78%</b>

**Total Period - Woodsdale**

<u>Woodsdale Station</u>	<u>Net MWH</u>	<u>Period Hours</u>	<u>MW Rating</u>	<u>MW Hours</u>	<u>Net Capacity Factor</u>
Unit 1	11,452	4,416	80.67	356,352	3.21%
Unit 2	10,749	4,416	82.00	362,208	2.97%
Unit 3	(402)	4,416	82.00	362,208	-0.11%
Unit 4	10,886	4,416	80.67	356,352	3.05%
Unit 5	9,740	4,416	82.00	362,208	2.69%
Unit 6	<u>10,987</u>	<u>4,416</u>	<u>82.00</u>	<u>362,208</u>	<u>3.03%</u>
<b>Total</b>	<b>53,412</b>	<b>26,496</b>	<b>81.56</b>	<b>2,161,536</b>	<b>2.47%</b>

### May-22

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	1,224	744	86	63,984	1.91%
Unit 2	920	744	86	63,984	1.44%
Unit 3	(65)	744	86	63,984	-0.10%
Unit 4	542	744	86	63,984	0.85%
Unit 5	1,144	744	86	63,984	1.79%
Unit 6	<u>1,132</u>	<u>744</u>	86	<u>63,984</u>	<u>1.77%</u>
Total	4,897	4,464	86	383,904	1.28%

### Jun-22

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	2,919	720	78	56,160	5.20%
Unit 2	2,992	720	80	57,600	5.19%
Unit 3	(72)	720	80	57,600	-0.13%
Unit 4	3,024	720	78	56,160	5.38%
Unit 5	2,155	720	80	57,600	3.74%
Unit 6	<u>2,588</u>	<u>720</u>	80	<u>57,600</u>	<u>4.49%</u>
Total	13,606	4,320	79	342,720	3.97%

### Jul-22

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	3,228	744	78	58,032	5.56%
Unit 2	3,215	744	80	59,520	5.40%
Unit 3	(67)	744	80	59,520	-0.11%
Unit 4	3,297	744	78	58,032	5.68%
Unit 5	2,990	744	80	59,520	5.02%
Unit 6	<u>3,274</u>	<u>744</u>	80	<u>59,520</u>	<u>5.50%</u>
Total	15,937	4,464	79	354,144	4.50%

**Aug-22**

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	2,298	744	78	58,032	3.96%
Unit 2	1,892	744	80	59,520	3.18%
Unit 3	(62)	744	80	59,520	-0.10%
Unit 4	1,974	744	78	58,032	3.40%
Unit 5	1,869	744	80	59,520	3.14%
Unit 6	<u>2,351</u>	<u>744</u>	80	<u>59,520</u>	<u>3.95%</u>
Total	10,322	4,464	79	354,144	2.91%

**Sep-22**

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	(38)	720	78	56,160	-0.07%
Unit 2	(31)	720	80	57,600	-0.05%
Unit 3	(64)	720	80	57,600	-0.11%
Unit 4	356	720	78	56,160	0.63%
Unit 5	311	720	80	57,600	0.54%
Unit 6	<u>392</u>	<u>720</u>	80	<u>57,600</u>	<u>0.68%</u>
Total	926	4,320	79	342,720	0.27%

**Oct-22**

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	1,821	744	86	63,984	2.85%
Unit 2	1,761	744	86	63,984	2.75%
Unit 3	(72)	744	86	63,984	-0.11%
Unit 4	1,693	744	86	63,984	2.65%
Unit 5	1,271	744	86	63,984	1.99%
Unit 6	<u>1,250</u>	<u>744</u>	86	<u>63,984</u>	<u>1.95%</u>
Total	7,724	4,464	86	383,904	2.01%

**PERSON RESPONSIBLE:**

Brad Daniel  
Libbie S. Miller



**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-016**

**REQUEST:**

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

**RESPONSE:**

During the period under review, there have been no changes to maintenance and operation practices or completions of any specific generation efficiency improvements that affect fuel usage at Duke Energy Kentucky's generation facilities.

**PERSON RESPONSIBLE:** Brad Daniel

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**PUBLIC STAFF-DR-01-017  
(As to Attachment only)**

**REQUEST:**

For the last six months of the period under review provide the hour by hour availability of each generating unit availability, how the unit had been bid into the day ahead market, whether the unit was operating, and if operating the minimum (economic or operational) and maximum capacity of the unit.

**RESPONSE:**

**CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachment only)**

Please see STAFF-DR-01-017 Confidential Attachment which shows hour by hour availability of each generating unit, how the unit had been bid into the day ahead market, whether the unit was operating, and if operating the economic and emergency minimum and economic and emergency maximum capacity of the unit. Note that for unit offers into the market, the offered status of the unit represents a combination of the Day Ahead offered status of the unit and any real time updated offer of the unit. For offers into PJM's system, the Company makes Day Ahead offers in normal course of business. Should there be any changes to the status of the unit in Real Time then the unit's status will be updated in PJM's system. In the unit offers part of this response, if there are no changes to the unit status in real time then the response reflects the day ahead offer. When the real time status of the offer changes from the day ahead offer then the response reflects the real time updated offer.

**PERSON RESPONSIBLE:** Brad Daniel

**CONFIDENTIAL PROPRIETARY TRADE  
SECRET**

**STAFF-DR-01-017  
CONFIDENTIAL ATTACHMENT**

**FILED UNDER SEAL**

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-018**

**REQUEST:**

State whether Duke Kentucky 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.

**RESPONSE:**

Duke Energy Kentucky is not aware of any violations of its policies and procedures regarding fuel procurement that occurred prior to or during the period under review.

**PERSON RESPONSIBLE:** Kimberly Hughes  
Jim McClay

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-019**

**REQUEST:**

State whether Duke Kentucky 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.

**RESPONSE:**

Duke Energy Kentucky is not aware of any instances where it may have violated 807 KAR 5:056 during the last six months of the period under review. Prior to the last six month period under review and pursuant to the March 24, 2022, Order of the Public Service Commission of the Commonwealth of Kentucky (Commission) in Case No. 2021-00296, Duke Energy Kentucky updated its Fuel Adjustment Clause (FAC) tariff on April 1, 2022, with an effective date of April 4, 2022, to implement the revisions ordered by the Commission. Duke Energy Kentucky followed this updated tariff language in its FAC calculation prior to and during the period under review even though the tariff sheet was updated only effective April 4, 2022. Except insofar as Duke Energy Kentucky needed to update the tariff language, Duke Kentucky is not aware of any violation of 807 KAR 5:056 that occurred prior to or during the period under review.

**PERSON RESPONSIBLE:** Libbie S. Miller

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-020**

**REQUEST:**

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.

**RESPONSE:**

- a. Duke Energy Kentucky did not have any intersystem sales during the review period.
- b. N/A

**PERSON RESPONSIBLE:**

Brad Daniel  
Libbie S. Miller

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-021**

**REQUEST:**

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.

**RESPONSE:**

**Coal:**

All contracts for long-term and short-term (spot) coal and transportation agreements have been filed with the Commission.

**Natural Gas:**

All contracts for natural gas and gas transportation contracts have been filed with the Commission.

**Fuel Oil:**

All contracts for fuel oil and fuel oil transportation contracts have been filed with the Commission.

**PERSON RESPONSIBLE:** Kimberly Hughes  
Jim McClay

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-022**

**REQUEST:**

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

**RESPONSE:**

Barge transportation is the single method of coal delivery to Duke Energy Kentucky's East Bend Generating Station, which is the only coal-fired generating station in the Duke Energy Kentucky Fleet.

**PERSON RESPONSIBLE:** Kimberly Hughes



**Duke Energy Kentucky**  
**Case No. 2023-00012**  
**STAFF First Set of Data Requests**  
**Date Received: September 6, 2023**

**STAFF-DR-01-023**

**REQUEST:**

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) Duke Kentucky believes the current base period fuel cost should remain unchanged.

**RESPONSE:**

February 2022 was selected to be the base period because the resulting fuel rate for this period was near both the average and median actual fuel rates for the 24 months of the audit review period. The fuel rate for February 2022 is \$0.033780/kWh based on final reported fuel costs. The cost per kWh during the proposed base month of February 2022 is calculated as follows:

$$\begin{array}{r} \text{Fuel (b) (February 2022)} \\ \text{Sales (b) (February 2022)} \end{array} \begin{array}{r} \$10,714,050 \\ 317,173,784 \end{array} = \$0.033780$$

**PERSON RESPONSIBLE:** Libbie S. Miller

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-024**

**REQUEST:**

Provide a calculation of the fossil fuel costs F(b) that Duke Kentucky 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 Duke Kentucky.

**RESPONSE:**

As stated in response to STAFF-DR-01-023, Duke Energy Kentucky proposes a base fuel cost F(b) of \$10,714,050. Please see STAFF-DR-01-024 Attachment for the fuel cost schedule for February 2022, which shows the components of F(b) as defined by 807 KAR 5:056.

**PERSON RESPONSIBLE:** Libbie S. Miller

**DUKE ENERGY KENTUCKY  
FINAL FUEL COST SCHEDULE**

**Expense Month: February 2022**

		<b><u>Dollars (\$)</u></b>
<b>A. Company Generation</b>		
Coal Burned	(+)	\$ 6,414,479.82
Oil Burned	(+)	371,895.47
Gas Burned	(+)	25,500.00
Net Fuel Related RTO Billing Line Items	(-)	(488,166.83)
Fuel (assigned cost during Forced Outage <sup>(a)</sup> )	(+)	271,590.96
Fuel (substitute cost during Forced Outage <sup>(a)</sup> )	(-)	4,970.62
<u>Sub-Total</u>		<u>\$ 7,566,662.46</u>
<b>B. Purchases</b>		
Economy Purchases	(+)	\$ 4,128,979.51
Other Purchases	(+)	-
Other Purchases (substitute for Forced Outage <sup>(a)</sup> )	(-)	649,303.60
Less purchases above highest cost units	(-)	-
<u>Sub-Total</u>		<u>\$ 3,479,675.91</u>
<b>C. Non-Native Sales Fuel Costs</b>		<b>\$ 332,288.61</b>
<b>D. Total Fuel Costs (A + B - C)</b>		<b><u>\$ 10,714,049.76</u></b>

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Note: <sup>(a)</sup> Forced Outage as defined in 807 KAR 5:056.

**Duke Energy Kentucky**  
**Case No. 2023-00012**  
**STAFF First Set of Data Requests**  
**Date Received: September 6, 2023**

**STAFF-DR-01-025**

**REQUEST:**

Provide a schedule showing each component of sales as defined by 807 KAR 5:056 in the selected base period (b). Explain why Duke Kentucky believes that the sales in the selected base period (b) are representative of the level of kWh sales that Duke Kentucky 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.

**RESPONSE:**

Please see STAFF-DR-01-025 Attachment for the Sales Schedule for February 2022, which shows the components of sales as defined by 807 KAR 5:056.

As stated in response to STAFF-DR-01-023, Duke Energy Kentucky proposes base sales (b) of 317,173,784 kWh sales.

- a. Please see STAFF-DR-01-025 Attachment, Section A, for the power purchases used in the calculation of sales.
- b. Duke Energy Kentucky did not have any intersystem sales during the review period. Also stated in response to STAFF-DR-01-020.

**PERSON RESPONSIBLE:** Libbie S. Miller

**DUKE ENERGY KENTUCKY  
 SALES SCHEDULE**

**Expense Month: February 2022**

		<b><u>Kilowatt-Hours Current Month</u></b>
A. Generation (Net)	(+)	272,467,500
<u>Purchases Including Interchange-In</u>	(+)	<u>77,618,700</u>
Sub-Total		<u>350,086,200</u>
 B. Pumped Storage Energy	(+)	-
Non-Native Sales Including Interchange Out	(+)	15,867,250
<u>    System Losses (300,201,898 KWH times 5.8% <sup>(a)</sup>)</u>	(+)	<u>17,045,166</u>
Sub-Total		<u>32,912,416</u>
 C. Total Sales (A - B)		<u><u>317,173,784</u></u>

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Note: <sup>(a)</sup> Average of prior 12 months.

**Duke Energy Kentucky**  
**Case No. 2023-00012**  
**STAFF First Set of Data Requests**  
**Date Received: September 6, 2023**

**STAFF-DR-01-026**

**REQUEST:**

Provide a schedule showing the calculation of Duke Kentucky’s proposed increase or decrease in its base fuel cost per kWh to be incorporated into its base rate.

**RESPONSE:**

Current Base Rate	\$0.025401
Proposed Based Rate	<u>\$0.033780</u>
Increase in Base Rate	<u><u>\$0.008379</u></u>

**PERSON RESPONSIBLE:** Libbie S. Miller

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-027**

**REQUEST:**

Provide a schedule of the present and proposed rates that Duke Kentucky seeks to change pursuant to 807 KAR 5:056, shown in comparative form.

**RESPONSE:**

Please see STAFF-DR-01-027 Attachment for a schedule of the present and proposed rates.

**PERSON RESPONSIBLE:** Libbie S. Miller

DUKE ENERGY KENTUCKY

Sheet				Current	Proposed	Diff. in			Increase	Current	New
No.	Fixture	Lumens	Description	Base Fuel	Base Fuel	Base Fuel	Annual kWh	Per Mo.	Change per Mth.	Rate/Unit	Rate/Unit
68	Standard MV	7,000		0.025401	0.033780	0.008379	803	66.92	0.5607	4.71	5.27
68	Standard MV	10,000		0.025401	0.033780	0.008379	1144	95.33	0.7988	6.02	6.82
68	Standard MV	21,000		0.025401	0.033780	0.008379	1789	149.08	1.2492	8.37	9.62
68	Standard MH	14,000		0.025401	0.033780	0.008379	803	66.92	0.5607	4.71	5.27
68	Standard MH	20,500		0.025401	0.033780	0.008379	1144	95.33	0.7988	6.02	6.82
68	Standard MH	36,000		0.025401	0.033780	0.008379	1789	149.08	1.2492	8.37	9.62
68	Standard SV	9,500		0.025401	0.033780	0.008379	487	40.58	0.3400	5.60	5.94
68	Standard SV	16,000		0.025401	0.033780	0.008379	711	59.25	0.4965	6.27	6.77
68	Standard SV	22,000		0.025401	0.033780	0.008379	948	79.00	0.6619	6.91	7.57
68	Standard SV	27,500		0.025401	0.033780	0.008379	948	79.00	0.6619	6.91	7.57
68	Standard SV	50,000		0.025401	0.033780	0.008379	1959	163.25	1.3679	9.45	10.82
68	Decorative MV	7,000	Holophane	0.025401	0.033780	0.008379	874	72.83	0.6103	5.97	6.58
68	Decorative MV	7,000	Town & Country	0.025401	0.033780	0.008379	853	71.08	0.5956	5.91	6.51
68	Decorative MV	7,000	Gas Replica	0.025401	0.033780	0.008379	874	72.83	0.6103	5.97	6.58
68	Decorative MV	7,000	Aspen	0.025401	0.033780	0.008379	874	72.83	0.6103	5.97	6.58
68	Decorative MH	14,000	Traditionaire	0.025401	0.033780	0.008379	853	71.08	0.5956	5.91	6.51
68	Decorative MH	14,000	Granville Acorn	0.025401	0.033780	0.008379	874	72.83	0.6103	5.97	6.58
68	Decorative MH	14,000	Gas Replica	0.025401	0.033780	0.008379	874	72.83	0.6103	5.97	6.58
68	Decorative SV	9,500	Town & Country	0.025401	0.033780	0.008379	487	40.58	0.3400	5.52	5.86
68	Decorative SV	9,500	Traditionaire	0.025401	0.033780	0.008379	487	40.58	0.3400	5.52	5.86
68	Decorative SV	9,500	Granville Acorn	0.025401	0.033780	0.008379	532	44.33	0.3715	5.76	6.13
68	Decorative SV	9,500	Rectilinear	0.025401	0.033780	0.008379	487	40.58	0.3400	5.52	5.86
68	Decorative SV	9,500	Aspen	0.025401	0.033780	0.008379	532	44.33	0.3715	5.76	6.13
68	Decorative SV	9,500	Holophane	0.025401	0.033780	0.008379	532	44.33	0.3715	5.76	6.13
68	Decorative SV	9,500	Gas Replica	0.025401	0.033780	0.008379	532	44.33	0.3715	5.76	6.13
68	Decorative SV	22,000	Rectilinear	0.025401	0.033780	0.008379	1023	85.25	0.7143	7.32	8.03
68	Decorative SV	50,000	Rectilinear	0.025401	0.033780	0.008379	1959	163.25	1.3679	9.77	11.14



**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-028**

**REQUEST:**

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

**RESPONSE:**

Please see STAFF-DR-01-028 Attachment for the redline tariffs.

**PERSON RESPONSIBLE:** Libbie S. Miller

No. 30  
Duke Energy Kentucky, Inc.  
1262 Cox Road  
30  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Thirteenth~~—~~Fourteenth~~ Revised Sheet  
Cancels and Supersedes  
~~Twelfth~~—~~Thirteenth~~ Revised Sheet No.  
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## RATE RS

### RESIDENTIAL SERVICE

#### APPLICABILITY

Applicable to electric service other than three phase service, for all domestic purposes in private residences, single occupancy apartments and separately metered common use areas of multi-occupancy buildings in the entire territory of the Company where distribution lines are adjacent to the premises to be served.

Residences where not more than two rooms are used for rental purposes will also be included. Where all dwelling units in a multi-occupancy building are served through one meter and the common use area is metered separately, the kilowatt-hour rate will be applied on a "per residence" or "per apartment" basis, however, the customer charge will be based on the number of installed meters.

Where a portion of a residential service is used for purposes of a commercial or public character, Rate DS, Service At Distribution Voltage, is applicable to all service. However, if the wiring is so arranged that the service for residential purposes can be metered separately, this Rate will be applied to the residential service, if the service qualifies hereunder.

#### TYPE OF SERVICE

Alternating current 60 Hz, single phase at Company's standard secondary voltage.

#### NET MONTHLY BILL

Computed in accordance with the following charges:

1. Base Rate
  - (a) Customer Charge \$12.60 per month
  - (b) Energy Charge  
All kilowatt hours ~~\$0.0809950~~ 0.089374 per kWh (1)

2. Applicable Riders

The following riders are applicable pursuant to the specific terms contained within each rider:

Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider

Sheet No. 78, Rider DSMR, Demand Side Management Rider

Sheet No. 80, Rider FAC, Fuel Adjustment Clause

Sheet No. 82, Rider PSM, Profit Sharing Mechanism

The minimum charge shall be the Customer Charge as shown above.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated January 25, 2022 in Case No. ~~2021-~~  
~~00490~~ 2023-00012.

Issued: February 3, 2022

Effective: February 3, 2022

Issued by Amy B. Spiller, President /s/ Amy B. Spiller

No. 30  
Duke Energy Kentucky, Inc.  
1262 Cox Road  
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Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
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~~Twelfth~~—~~Thirteenth~~ Revised Sheet No.  
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**LATE PAYMENT CHARGE**

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill, which is the Net Monthly Bill plus 5%, is due and payable. Customers who receive a pledge for or notice of low income assistance from an authorized agency, or another public or charitable source, will not be assessed or required to pay a late payment charge for the current bill for which the pledge or notice is received. An authorized agency is an organization in Kentucky that administers federal Low-Income Home Energy Assistance Programs and/or the Home Energy Assistance Programs offered by Duke Energy Kentucky.

~~(N)~~  
~~(N)~~  
~~(N)~~  
~~(N)~~  
~~(N)~~

**TERMS AND CONDITIONS**

This rate is available upon application in accordance with the Company's Service Regulations.

The supplying of, and billing for, service and all conditions applying thereto, are subject to the jurisdiction of the Kentucky Public Service Commission, and to Company's Service Regulations currently in effect, as filed with the Kentucky Public Service Commission, as provided by law.

Issued by authority of an Order of the Kentucky Public Service Commission dated        ~~January 25, 2022~~ in Case No. ~~2021-00490~~ 2023-00012.

Issued: ~~February 3, 2022~~  
Effective: ~~February 3, 2022~~

Issued by Amy B. Spiller, President /s/ Amy B. Spiller

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Duke Energy Kentucky, Inc.  
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## RATE DS

### SERVICE AT SECONDARY DISTRIBUTION VOLTAGE

#### APPLICABILITY

Applicable to electric service for usual customer load requirements where the Company specifies service at the standard secondary system voltage and the Company determines that facilities of adequate capacity are available adjacent to the premises to be served, and the customer's average monthly demand is determined by the Company to be less than 500 kilowatts. Electric service must be supplied at one point of delivery and is not applicable for resale service.

#### TYPE OF SERVICE

Alternating current 60 Hz, single phase or three phase at the Company's standard distribution voltage of 34,500 volts or lower.

#### NET MONTHLY BILL

Computed in accordance with the following charges provided, however, that the maximum monthly rate, excluding the customer charge, and all applicable riders, shall not exceed \$0.258792 per kilowatt-hour (kilowatt of demand is abbreviated as kW and kilowatt-hours are abbreviated as kWh):

1. Base Rate
  - (a) Customer Charge per month

Single Phase Service	\$ 15.00	per month	
Three Phase Service	\$ 30.00	per month	
  - (b) Demand Charge

First 15 kilowatts	\$ 0.00	per kW	
Additional kilowatts	\$ 9.00	per kW	
  - (c) Energy Charge

First 6,000 kWh	<del>\$0.0891700</del> <u>0.097549</u>	per kWh	( I )
Next 300 kWh/kW	<del>\$0.0553420</del> <u>0.063721</u>	per kWh	( I )
Additional kWh	<del>\$0.0456040</del> <u>0.053983</u>	per kWh	( I )

2. Applicable Riders

The following riders are applicable pursuant to the specific terms contained within each rider:

- Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider
- Sheet No. 78, Rider DSMR, Demand Side Management Rider
- Sheet No. 80, Rider FAC, Fuel Adjustment Clause
- Sheet No. 82, Rider PSM, Profit Sharing Mechanism

The minimum charge shall be the Customer Charge shown above.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated August 2, 2021 in Case No. ~~2021-~~  
~~000572023-00012~~.

Issued: August 13, 2021

Effective: August 15, 2021

Issued by Amy B. Spiller, President /s/ Amy B. Spiller

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**NET MONTHLY BILL (Contd.)**

For customers receiving service under the provisions of former Rate C, Optional Rate for Churches, as of June 25, 1981, the maximum monthly rate per kilowatt-hour shall not exceed \$0.158876 per kilowatt-hour plus all applicable riders.

When both single and three phase secondary voltage services are required by a customer, the monthly kilowatt-hour usage and kilowatt demands shall be the respective arithmetical sums of both services.

**METERING**

The Company may meter at secondary or primary voltage as circumstances warrant. If the Company elects to meter at primary voltage, the kilowatt-hours registered on the Company's meter will be reduced one and one-half percent (1.5%) for billing purposes.

**DEMAND**

The demand shall be the kilowatts derived from the Company's demand meter for the fifteen-minute period of customer's greatest use during the billing period, as determined by the Company, adjusted for power factor, as provided herein. At its option, the Company may not install a demand meter if the nature of the load clearly indicates the load will have a constant demand, in which case the demand will be the calculated demand.

In no event will the billing demand be taken as less than the higher of the following:

- a) 85% of the highest monthly kilowatt demand established in the summer period and effective for the next succeeding eleven (11) months; or
- b) One (1) kilowatt for single phase secondary voltage service and five (5) kilowatts for three phase secondary voltage service.

If a customer requests reconnection of an account within twelve (12) months of a disconnection order, the customer's demand record for the period of disconnection will be re-established for purposes of billing and administration of the preceding clause.

For purposes of administration of the above clause, the summer period is defined as that period represented by the Company's billing for the four (4) revenue months of June through September. The winter period is defined as that period represented by the Company's billing for the eight (8) revenue months of January through May and October through December.

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#### POWER FACTOR ADJUSTMENT

The power factor to be maintained shall be not less than 90% lagging. If the Company determines customer's power factor to be less than 90%, the billing demand will be the number of kilowatts equal to the kilovolt amperes multiplied by 0.90.

At the Company's option, power factor may be determined by the following methods:

- a. Continuous measurement
  - the power factor, as determined during the interval in which the maximum kW demand is established, will be used for billing purposes; or
- b. Testing
  - the power factor, as determined during a period in which the customer's measured kW demand is not less than 90% of the measured maximum kW demand of the preceding billing period, will be used for billing purposes until superseded by a power factor determined by a subsequent test made at the direction of Company or request of customer.

#### LATE PAYMENT CHARGE

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill, which is the Net Monthly Bill plus 5%, is due and payable.

#### TERMS AND CONDITIONS

The initial term of contract shall be for a minimum period of three (3) years terminable thereafter by a minimum notice of either the customer or the Company as prescribed by the Company's Service Regulations.

The Company is not obligated to extend, expand or rearrange its transmission system voltage if it determines that existing distribution and/or transmission facilities are of adequate capacity to serve the customer's load.

If the Company offers to provide the necessary facilities for transmission service, in accordance with its Service Regulations, an annual facilities charge, applicable to such additional facilities, is established at twenty (20) percent of actual cost. The annual facilities charge shall be billed in twelve monthly installments to be added to the demand charge.

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Commission dated August 2, 2021 in Case No. ~~2021-~~  
~~000572023-00012~~.

Issued: August 13, 2021

Effective: August 15, 2021

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**TERMS AND CONDITIONS (Contd.)**

For purposes of administration of this rate, the Company will determine the customer's average monthly demand based upon the twelve months ending December of each year after the applicable term of service has been fulfilled by the customer. If the customer's monthly demand exceeds 500 kilowatts and the Company expects the customer's demand to remain in excess of 500 kilowatts, then the Company will notify the customer prior to May of the succeeding year that the provisions of Rate DT, Time-of-Day Rate for Distribution Service shall be applicable beginning with the June revenue month billing and shall continue until the term of service of that rate has been fulfilled. In the case where a customer's average demand is estimated by the Company to be significantly less than 500 kilowatts, the Company may, at its discretion, waive the twelve month demand history requirement in the determination of the applicability of this rate.

The supplying of, and billing for, service and all conditions applying thereto, are subject to the jurisdiction of the Kentucky Public Service Commission, and to the Company's Service Regulations currently in effect, as filed with the Kentucky Public Service Commission, as provided by law.

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Commission dated August 2, 2021 in Case No. ~~2021-~~  
~~000572023-00012~~.

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Duke Energy Kentucky, Inc.  
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**RATE DT**

**TIME-OF-DAY RATE FOR SERVICE AT DISTRIBUTION VOLTAGE**

**APPLICABILITY**

Applicable to electric service for customers with an average monthly demand of 500 kilowatts or greater where the Company specifies service at a nominal distribution system voltage of 34,500 volts or lower, and the Company determines that facilities of adequate capacity are available and adjacent to the premises to be served. Electric service must be supplied at one point of delivery and is not applicable for resale service.

**TYPE OF SERVICE**

Alternating current 60 Hz, single phase or three phase at Company's standard distribution voltage of 34,500 volts or lower.

**NET MONTHLY BILL**

Computed in accordance with the following charges (kilowatt of demand abbreviated as kW and kilowatt-hours are abbreviated as kWh):

1. Base Rate

(a) Customer Charge

Single Phase	\$ 63.50	per month
Three Phase	\$127.00	per month
Primary Voltage Service	\$138.00	per month

(b) Demand Charge

Summer		
On Peak kW	\$ 14.85	per kW
Off Peak kW	\$ 1.34	per kW

Winter		
On Peak kW	\$ 14.05	per kW
Off Peak kW	\$ 1.34	per kW

(c) Energy Charge

Summer On Peak kWh	<del>\$0.0483890</del> <u>\$0.056768</u>	per kWh	(I)
Winter On Peak kWh	<del>\$0.0462620</del> <u>\$0.054641</u>	per kWh	(I)
Off Peak kWh	<del>\$0.0399090</del> <u>\$0.048288</u>	per kWh	(I)

Issued by authority of an Order of the Kentucky Public Service  
 Commission dated ~~August 2, 2021~~ \_\_\_\_\_ in Case No. ~~2021-~~  
~~000572023-00012~~.

Issued: ~~August 13, 2021~~

Effective: ~~August 15, 2021~~

Issued by Amy B. Spiller, President /s/ Amy B. Spiller

Duke Energy Kentucky, Inc.  
1262 Cox Road  
Erlanger, Kentucky 41018

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### NET MONTHLY BILL (Contd.)

#### 2. Applicable Riders

The following riders are applicable pursuant to the specific terms contained within each rider:  
Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider  
Sheet No. 78, Rider DSMR, Demand Side Management Rider  
Sheet No. 80, Rider FAC, Fuel Adjustment Clause  
Sheet No. 82, Rider PSM, Profit Sharing Mechanism

The minimum charge shall be the Customer Charge, as stated above.

When both single and three phase secondary voltage services are required by a customer, the monthly kilowatt-hour usage and kilowatt demands shall be the respective arithmetical sums of both services.

For purposes of administration of the above Base Rate charges, the summer period is defined as that period represented by the Company's billing for the four (4) revenue months of June through September. The winter period is defined as that period represented by the Company's billing for the eight (8) revenue months of January through May and October through December.

### RATING PERIODS

The rating periods applicable to the demand charge shall be as follows:

- a) On Peak Period  
Summer - 11 a.m. to 8 p.m. Monday through Friday, excluding holidays.  
Winter - 9 a.m. to 2 p.m. and 5 p.m. to 9 p.m., Monday through Friday, excluding holidays.
- b) Off Peak Period - All hours Monday through Friday not included above plus all day Saturday and Sunday, as well as New Year's Day, President's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day and Christmas Day on the day nationally designated to be celebrated as such.

### METERING

The company may meter at secondary or primary voltage as circumstances warrant. If the Company elects to meter at primary voltage, kilowatt hours registered on the Company's meter will be reduced one and one-half percent (1.5%) for billing purposes.

If the customer furnishes primary voltage transformers and appurtenances, in accordance with the Company's specified design and maintenance criteria, the Demand Charge, as stated above, shall be reduced as follows:

First 1,000 kW of On Peak billing demand at \$0.75 per kW.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~August 2, 2021~~ \_\_\_\_\_ in Case No. ~~2021-~~  
~~000572023-00012~~.

Issued: ~~August 13, 2021~~

Effective: ~~August 15, 2021~~

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Additional kW of On Peak billing demand at \$0.58 per kW.

#### DEMAND

The On Peak billing demand shall be the kilowatts derived from the Company's demand meter for the fifteen minute period of greatest use in the on peak rating period adjusted for power factor as provided herein. The Off Peak billing demand shall be the kilowatts derived from the Company's demand meter for the fifteen minute period of greatest use in the off peak rating period adjusted for power factor minus the On Peak billing demand. In no case shall the Off Peak billing demand be less than zero.

#### POWER FACTOR ADJUSTMENT

The power factor to be maintained shall be not less than 90% lagging. If the Company determines the customer's power factor to be less than 90%, the on peak and off peak billing demands will be the number of kilowatts equal to the respective on peak and off peak kilovolt amperes multiplied by 0.90.

The power factor, as determined by continuous measurement, will be derived from the intervals in which the maximum on peak and off peak kW demands are established.

#### LATE PAYMENT CHARGE

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill, which is the Net Monthly Bill plus 5%, is due and payable.

#### TERMS AND CONDITIONS

The initial term of contract shall be for a period of three (3) years for secondary voltage service and five (5) years for primary voltage service terminable thereafter by a minimum notice of either the customer or the Company as follows:

- (1) For secondary voltage service customers, as prescribed by the Company's Service Regulations.
- (2) For primary voltage service customers with a most recent twelve month average demand of less than 10,000 kVA or greater than 10,000 kVA, written notice of thirty (30) days or twelve (12) months respectively, after receipt of the written notice.

The Company is not obligated to extend, expand or rearrange its transmission system if it determines that existing distribution and/or transmission facilities are of adequate capacity to serve the customer's load.

If the Company offers to provide the necessary facilities for transmission service, in accordance with its Service Regulations, an annual facilities charge, applicable to such additional facilities, is established at twenty (20) percent of actual cost. The annual facilities charge shall be billed in twelve monthly installments to be added to the demand charge.

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Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~August 2, 2021~~ \_\_\_\_\_ in Case No. ~~2021-~~  
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Issued: ~~August 13, 2021~~

Effective: ~~August 15, 2021~~

Issued by Amy B. Spiller, President /s/ Amy B. Spiller

Duke Energy Kentucky, Inc.  
1262 Cox Road  
Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Twelfth-Thirteenth~~ Revised Sheet No. 41  
Cancels and Supersedes  
~~Eleventh-Twelfth~~ Revised Sheet No. 41  
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**TERMS AND CONDITIONS (Contd.)**

For purposes of the administration of this rate, the Company will determine the customer's average monthly demand based upon the twelve months ending December of each year after the applicable term of service has been fulfilled by the customer. If the customer's demand is less than 500 kilowatts and the Company expects the customer's demand to remain below 500 kilowatts, then the Company will notify the customer prior to May of the succeeding year that the provisions of Rate DS, Service at Secondary Distribution Voltage or Rate DP, Service at Primary Distribution Voltage shall be applicable initiating with the June revenue month billing and shall continue until the term of service of that rate is fulfilled. In the case where a customer's average demand is estimated by the Company to be significantly greater than 500 kilowatts, the Company may, at its discretion, waive the twelve month demand history requirement in the determination of the applicability of this rate.

The supplying of, and billing for, service and all conditions applying thereto, are subject to the jurisdiction of the Kentucky Public Service Commission, and to Company's Service Regulations currently in effect, as filed with the Kentucky Public Service Commission, as provided by law.

Issued by authority of an Order of the Kentucky Public Service  
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Duke Energy Kentucky, Inc.  
1262 Cox Road  
Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Eleventh-Twelfth~~ Revised Sheet No. 42  
Cancels and Supersedes  
~~Tenth-Eleventh~~ Revised Sheet No. 42  
Page 1 of 2

## RATE EH

### OPTIONAL RATE FOR ELECTRIC SPACE HEATING

#### APPLICABILITY

Applicable to electric service for heating when customer's wiring is so arranged that heating service can be furnished at one point of delivery and can be metered separately from all other types of service or to any public school, parochial school, private school, or church when supplied at one point of delivery, provided permanently connected and regularly used electrical equipment is installed in compliance with the Company specifications as the primary source of heating or heating and cooling the atmosphere to temperatures of human comfort; and provided all other electrical energy requirements are purchased from the Company. No single water heating unit shall be wired that the demand established by it can exceed 5.5 kilowatts unless approved by the Company.

#### TYPE OF SERVICE

Alternating current 60 Hz, single or three phase at Company's standard distribution voltage of 34,500 volts or lower.

#### NET MONTHLY BILL

Computed in accordance with the following charges (kilowatts of demand are abbreviated as kW and kilowatt-hours are abbreviated as kWh):

##### A. Winter Period

###### 1. Base Rate

###### (a) Customer Charge

Single Phase Service	\$ 15.00 per month
Three Phase Service	\$ 30.00 per month
Primary Voltage Service	\$ 117.00 per month

###### (b) Energy Charge

All kWh ~~\$0.0692680~~ \$0.077647 per kWh (I)

###### 2. Applicable Riders

The following riders are applicable pursuant to the specific terms contained within each rider:

Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider

Sheet No. 78, Rider DSMR, Demand Side Management Rider

Sheet No. 80, Rider FAC, Fuel Adjustment Clause

Sheet No. 82, Rider PSM, Profit Sharing Mechanism

The minimum charge shall be the Customer Charge stated above.

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Erlanger, Kentucky 41018

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~~Eleventh~~Twelfth Revised Sheet No. 42  
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**NET MONTHLY BILL (Contd.)**

B. Summer Billing Period

For energy used during the summer period, the kilowatt demand and kilowatt-hour use shall be billed in accordance with the provisions of the applicable Rate DS or Rate DP.

For purposes of administration of the above charges, the summer period is defined as that period represented by the Company's billing for the four (4) revenue months of June through September. The winter period is defined as that period represented by the Company's billing for the eight (8) revenue months of January through May and October through December.

**DEMAND**

Customer's Demand will be the kilowatts as determined from Company's meter for the fifteen-minute period of customer's greatest use during the month or as calculated by the Company, but not less than five (5) kilowatts.

**LATE PAYMENT CHARGE**

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill, which is the Net Monthly Bill plus 5%, is due and payable.

**TERMS AND CONDITIONS**

The term of contract shall be for a minimum period of one (1) year terminable thereafter on thirty (30) days written notice by either the customer or the Company.

The supplying of, and billing for, service and all conditions applying thereto, are subject to the jurisdiction of the Kentucky Public Service Commission, and to Company's Service Regulations currently in effect, as filed with the Kentucky Public Service Commission, as provided by law.

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Duke Energy Kentucky, Inc.  
1262 Cox Road  
Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Eleventh-Twelfth~~ Revised Sheet No. 43  
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~~Tenth-Eleventh~~ Revised Sheet No. 43  
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## RATE SP

### SEASONAL SPORTS SERVICE

#### APPLICABILITY

Applicable to electric service required for sports installations, such as football and baseball fields, swimming pools, tennis courts, and recreational areas, promoted, operated and maintained by non-profit organizations, such as schools, churches, civic clubs, service clubs, community groups, and municipalities, where such service is separately metered and supplied at one point of delivery, except, not applicable to private sports installations which are not open to the general public.

#### TYPE OF SERVICE

Alternating current 60 Hz, single or three phase at the Company's standard secondary voltage.

#### NET MONTHLY BILL

Computed in accordance with the following charges (kilowatt hours are abbreviated as kWh):

1. Base Rate
  - (a) Customer Charge \$15.00 per month
  - (b) Energy Charge ~~\$0.1079650~~ 0.116344 per kWh (I)
2. Applicable Riders

The following riders are applicable pursuant to the specific terms contained within each rider:  
Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider  
Sheet No. 78, Rider DSMR, Demand Side Management Rider  
Sheet No. 80, Rider FAC, Fuel Adjustment Clause  
Sheet No. 82, Rider PSM, Profit Sharing Mechanism

The minimum charge shall be a sum equal to 1.5% of the Company's installed cost of transformers and metering equipment required to supply and measure service, but not less than the customer charge whether service is on or disconnected.

#### RECONNECTION CHARGE

A charge per Sheet No. 91, Charge for Reconnection of Service is applicable to each season to cover in part the cost of reconnection of service.

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Duke Energy Kentucky, Inc.  
1262 Cox Road  
Erlanger, Kentucky 41018

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~~Eleventh-Twelfth~~ Revised Sheet No. 43  
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~~Tenth-Eleventh~~ Revised Sheet No. 43  
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**LATE PAYMENT CHARGE**

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill, which is the Net Monthly Bill plus 5%, is due and payable.

**TERMS AND CONDITIONS**

The term of contract shall be for a minimum period of one (1) year terminable thereafter on thirty (30) days written notice by either the customer or the Company.

The supplying of, and billing for, service and all conditions applying thereto, are subject to the jurisdiction of the Kentucky Public Service Commission, and to the Company's Service Regulations currently in effect, as filed with the Kentucky Public Service Commission, as provided by law.

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Duke Energy Kentucky, Inc.  
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Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eleventh-Twelfth~~ Revised Sheet No. 44  
Cancels and Supersedes  
~~Tenth-Eleventh~~ Revised Sheet No. 44  
Page 1 of 2

**RATE GS-FL**

**OPTIONAL UNMETERED GENERAL SERVICE RATE FOR SMALL FIXED LOADS**

**APPLICABILITY**

Applicable to electric service in the Company's entire territory for small fixed, electric load which can be served by a standard service drop from the Company's existing secondary distribution system where it is considered by the Company to be impractical to meter, such as service locations for bus shelters, telephone booths, navigation lights and beacons, and cable television power supplies.

**TYPE OF SERVICE**

Alternating current 60 Hz, at nominal voltages of 120, 120/240 or 120/208 volts, single phase, unmetered. Service of other characteristics, where available, may be furnished at the option of the Company.

**NET MONTHLY BILL**

Computed in accordance with the following charges and based upon calculated energy use determined by the rated capacity of the connected equipment:

1. Base Rate

- (a) For loads based on a range of 540 to 720 hours use per month of the rated capacity of the connected equipment \$~~0.0910690~~0.099448 per kWh (I)
- (b) For loads of less than 540 hours use per month of the rated capacity of the connected equipment \$~~0.1046990~~0.113078 per kWh (I)

2. Applicable Riders

The following riders are applicable pursuant to the specific terms contained within each rider:

- Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider
- Sheet No. 78, Rider DSMR, Demand Side Management Rider
- Sheet No. 80, Rider FAC, Fuel Adjustment Clause
- Sheet No. 82, Rider PSM, Profit Sharing Mechanism

Minimum: \$3.23 per Fixed Load Location per month.

**LATE PAYMENT CHARGE**

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill, which is the Net Monthly Bill plus 5%, is due and payable.

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Duke Energy Kentucky, Inc.  
1262 Cox Road  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eleventh-Twelfth~~ Revised Sheet No. 44  
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~~Tenth-Eleventh~~ Revised Sheet No. 44  
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### SERVICE PROVISIONS

- (1) Each separate point of delivery of service shall be considered a Fixed Load Location.
- (2) Only one supply service will be provided to a customer under this Schedule as one Fixed Load Location.
- (3) The customer shall furnish switching equipment satisfactory to the Company.
- (4) The calculated energy use per month shall be determined by the Company taking into consideration the size and operating characteristics of the load.
- (5) The customer shall notify the Company in advance of every change in connected load or operating characteristics, and the Company reserves the right to inspect the customer's equipment at any time to verify the actual load. In the event of the customer's failure to notify the Company of any such changes, the Company reserves the right to refuse to serve the Fixed Load thereafter under this Schedule, and shall be entitled to bill the customer retroactively on the basis of the changed load and operating characteristics for the full period such load was connected.

### TERM OF SERVICE

One (1) year, terminable thereafter on thirty (30) days written notice by either the customer or the Company.

### SERVICE REGULATIONS

The supplying of, and billing for, service and all conditions applying thereto, are subject to the jurisdiction of the Kentucky Public Service Commission, and to the Company's Service Regulations currently in effect, as filed with the Kentucky Public Service Commission, as provided by law.

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Duke Energy Kentucky, Inc.  
1262 Cox Road  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eleventh-Twelfth~~ Revised Sheet No. 45  
Cancels and Supersedes  
~~Tenth-Eleventh~~ Revised Sheet No. 45  
Page 1 of 3

**RATE DP**

**SERVICE AT PRIMARY DISTRIBUTION VOLTAGE**

**APPLICABILITY**

Applicable to electric service for usual customer load requirements where the Company specifies service at nominal primary distribution system voltages of 12,500 volts or 34,500 volts, and the Company determines that facilities of adequate capacity are available and adjacent to the premises to be served, and the customer's average monthly demand is determined by the Company to be less than 500 kilowatts. Electric service must be supplied at one point of delivery and is not applicable for resale service.

When both single and three phase secondary voltage services are required by a customer, the monthly kilowatt-hour usage and kilowatt demands shall be the respective arithmetical sums of both services.

**TYPE OF SERVICE**

Alternating current 60 Hz, single phase or three phase at Company's standard distribution voltage of 34,500 volts or lower.

**NET MONTHLY BILL**

Computed in accordance with the following charges provided, however, that the maximum monthly rate, excluding the customer charge, and all applicable riders shall not exceed \$0.262020 per kilowatt-hour (Kilowatt of demand is abbreviated as kW and kilowatt-hours are abbreviated as kWh):

1. Base Rate

(a) Customer Charge				
Primary Voltage Service (12.5 or 34.5 kV)	\$	117.00	per month	
(b) Demand Charge				
All kilowatts	\$	8.60	per kW	
(c) Energy Charge				
First 300 kWh/kW	\$	<del>0.0570530</del> 0.065432	per kWh	(I)
Additional kWh	\$	<del>0.048484</del> 0.056860	per kWh	(I)

2. Applicable Riders

The following riders are applicable pursuant to the specific terms contained within each rider:

- Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider
- Sheet No. 78, Rider DSMR, Demand Side Management Rider
- Sheet No. 80, Rider FAC, Fuel Adjustment Clause
- Sheet No. 82, Rider PSM, Profit Sharing Mechanism

The minimum charge shall be the Customer Charge shown above.

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Duke Energy Kentucky, Inc.  
1262 Cox Road  
Erlanger, KY 41018

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~~Eleventh-Twelfth~~ Revised Sheet No. 45  
Cancels and Supersedes  
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### PRIMARY VOLTAGE METERING DISCOUNT

The Company may meter at secondary or primary voltage as circumstances warrant. If the Company elects to meter at primary voltage, the kilowatt-hours registered on the Company's meter will be reduced one and one-half percent (1.5%) for billing purposes.

### DEMAND

The demand shall be the kilowatts derived from the Company's demand meter for the fifteen-minute period of customer's greatest use during the billing period, as determined by the Company, adjusted for power factor, as provided herein. At its option, the Company may not install a demand meter if the nature of the load clearly indicates the load will have a constant demand, in which case the demand will be the calculated demand.

In no event will the billing demand be taken as less than 85% of the highest monthly kilowatt demand established in the summer period and effective for the next succeeding eleven (11) months.

If a customer requests reconnection of an account within twelve (12) months of a disconnection order, the customer's demand record for the period of disconnection will be re-established for purposes of billing and administration of the preceding clause.

For purposes of administration of the above clause, the summer period is defined as that period represented by the Company's billing for the four (4) revenue months of June through September. The winter period is defined as that period represented by the Company's billing for the eight (8) revenue months of January through May and October through December.

### POWER FACTOR ADJUSTMENT

The power factor to be maintained shall be not less than 90% lagging. If the Company determines customer's power factor to be less than 90%, the billing demand will be the number of kilowatts equal to the kilovolt amperes multiplied by 0.90.

At the Company's option, power factor may be determined by the following methods:

a. Continuous measurement

- the power factor, as determined during the interval in which the maximum kW demand is established, will be used for billing purposes; or

b. Testing

- the power factor, as determined during a period in which the customer's measured kW demand is not less than 90% of the measured maximum kW demand of the preceding billing period, will be used for billing purposes until superseded by a power factor determined by a subsequent test made at the direction of Company or request of customer.

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Duke Energy Kentucky, Inc.  
1262 Cox Road  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eleventh-Twelfth~~ Revised Sheet No. 45  
Cancels and Supersedes  
~~Tenth-Eleventh~~ Revised Sheet No. 45  
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#### LATE PAYMENT CHARGE

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill, which is the Net Monthly Bill plus 5%, is due and payable.

#### TERMS AND CONDITIONS

The initial term of contract shall be for a minimum period of five (5) years terminable thereafter as prescribed by the Company's Service Regulations.

- (1) For customers with a most recent twelve month average demand of less than 10,000 kVA, thirty days written notice.
- (2) For customers with a most recent twelve month average demand of 10,000 kVA or greater, written notice twelve months in advance of the desired termination date.

The Company is not obligated to extend, expand or rearrange its transmission system voltage if it determines that existing distribution and/or transmission facilities are of adequate capacity to serve the customer's load.

If the Company offers to provide the necessary facilities for transmission service, in accordance with its Service Regulations, an annual facilities charge, applicable to such additional facilities, is established at twenty (20) percent of actual cost. The annual facilities charge shall be billed in twelve monthly installments to be added to the demand charge.

For purposes of administration of this rate, the Company will determine the customer's average monthly demand based upon the twelve months ending December of each year after the applicable term of service has been fulfilled by the customer. If the customer's monthly demand exceeds 500 kilowatts and the Company expects the customer's demand to remain in excess of 500 kilowatts, then the Company will notify the customer prior to May of the succeeding year that the provisions of Rate DT, Time-of-Day Rate for Distribution Service shall be applicable beginning with the June revenue month billing and shall continue until the term of service of that rate has been fulfilled. In the case where a customer's average demand is estimated by the Company to be significantly less than 500 kilowatts, the Company may, at its discretion, waive the twelve month demand history requirement in the determination of the applicability of this rate.

The supplying of, and billing for, service and all conditions applying thereto, are subject to the jurisdiction of the Kentucky Public Service Commission, and to Company's Service Regulations currently in effect, as filed with the Kentucky Public Service Commission, as provided by law.

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KY.P.S.C. Electric No. 2  
~~Twelfth-Thirteenth~~ Revised Sheet No.

51  
 Duke Energy Kentucky, Inc.  
 1262 Cox Road  
 Erlanger, KY 41018

Cancels and Supersedes  
~~Eleventh-Twelfth~~ Revised Sheet No. 51  
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**RATE TT**

**TIME-OF-DAY RATE FOR SERVICE AT TRANSMISSION VOLTAGE**

**APPLICABILITY**

Applicable to electric service for usual customer load requirements where the Company specifies service at a nominal transmission system voltage of 69,000 volts or higher, and the Company determines that facilities of adequate capacity are available and adjacent to the premises to be served. Electric service must be supplied at one point of delivery and the customer furnishes and maintains all transformation equipment and appurtenances necessary to utilize the service.

Service is applicable for ultimate use by the customer and is not applicable for standby, supplemental, emergency or resale service.

**TYPE OF SERVICE**

Alternating current 60 Hz, three phase at Company's standard transmission voltage of 69,000 volts or higher.

**NET MONTHLY BILL**

Computed in accordance with the following charges (kilowatts of demand are abbreviated as kW and kilowatt-hours are abbreviated as kWh):

1.	Base Rate		
	(a) Customer Charge	\$ 500.00	per month
	(b) Demand Charge		
	Summer		
	On Peak kW	\$ 8.51	per kW
	Off Peak kW	\$ 1.29	per kW
	Winter		
	On Peak kW	\$ 6.98	per kW
	Off Peak kW	\$ 1.29	per kW
	(c) Energy Charge		
	Summer		
	On Peak kWh	\$ 0. <del>053306</del> <u>061685</u>	per kWh (I)
	Off Peak kWh	\$ 0. <del>043936</del> <u>052315</u>	per kWh (I)
	Winter		
	On Peak kWh	\$ 0. <del>050959</del> <u>059338</u>	per kWh (I)
	Off Peak kWh	\$ 0. <del>043936</del> <u>052315</u>	per kWh (I)

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KY.P.S.C. Electric No. 2  
~~Twelfth-Thirteenth~~ Revised Sheet No.

51  
Duke Energy Kentucky, Inc.  
1262 Cox Road  
Erlanger, KY 41018

Cancels and Supersedes  
~~Eleventh-Twelfth~~ Revised Sheet No. 51  
Page 2 of 3

### NET MONTHLY BILL (Contd.)

#### 2. Applicable Riders

The following riders are applicable pursuant to the specific terms contained within each rider:

Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider

Sheet No. 78, Rider DSMR, Demand Side Management Rider

Sheet No. 80, Rider FAC, Fuel Adjustment Clause

Sheet No. 82, Rider PSM, Profit Sharing Mechanism

The minimum charge shall be not less than fifty percent (50%) of the highest demand charge established during the preceding eleven (11) months.

For purposes of administration of the above charges, the summer is defined as that period represented by the Company's billing for the four (4) revenue months of June through September. The winter period is defined as that period represented by the Company's billing for the eight (8) revenue months of January through May and October through December.

### RATING PERIODS

The rating periods applicable to the demand charge shall be as follows:

- a) On Peak Period  
Summer - 11 a.m. to 8 p.m. Monday through Friday, excluding holidays.  
Winter - 9 a.m. to 2 p.m. and 5 p.m. to 9 p.m., Monday through Friday, excluding holidays.
- b) Off Peak Period - all hours Monday through Friday not included above plus all day Saturday and Sunday as well as New Year's Day, President's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day, and Christmas Day on the day nationally designated to be celebrated as such.

### METERING

The Company may meter at secondary or primary voltage as circumstances warrant. If the Company elects to meter at secondary voltage, the kilowatt-hours registered on the Company's meter will be increased one and one-half percent (1.5%) for billing purposes.

### DEMAND

The On Peak billing demand shall be the kilowatts derived from the Company's demand meter for the fifteen minute period of greatest use in the on peak rating period adjusted for power factor as provided herein. The Off Peak billing demand shall be the kilowatts derived from the Company's demand meter for the fifteen minute period of greatest use in the off peak rating period adjusted for power factor minus the On Peak billing demand. In no case shall the Off Peak billing demand be less than zero.

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51  
Duke Energy Kentucky, Inc.  
1262 Cox Road  
Erlanger, KY 41018

Cancels and Supersedes  
~~Eleventh-Twelfth~~ Revised Sheet No. 51  
Page 3 of 3

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#### **POWER FACTOR ADJUSTMENT**

The power factor to be maintained shall be not less than 90% lagging. If the Company determines the customer's power factor to be less than 90%, the on peak and off peak billing demands will be the number of kilowatts equal to the respective on peak and off peak kilovolt amperes multiplied by 0.90.

The power factor, as determined by continuous measurement, will be derived from the intervals in which the maximum on peak and off peak kW demands are established.

#### **LATE PAYMENT CHARGE**

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill, which is the Net Monthly Bill plus 5%, is due and payable.

#### **TERMS AND CONDITIONS**

The initial term of contract shall be for a minimum period of five (5) years terminable thereafter by either the customer or the Company as follows:

- (1) Thirty (30) days after receipt of written notice for customers with a most recent twelve (12) months average on peak demand of less than 10,000 kW.
- (2) Twelve (12) months after receipt of written notice for customers with a most recent twelve (12) months average on peak demand of greater than 10,000 kW.

The Company is not obligated to extend, expand or rearrange its transmission system if it determines that existing distribution and/or transmission facilities are of adequate capacity to serve the customer's load.

If the Company offers to provide the necessary facilities for transmission voltage, in accordance with its Service Regulations, an annual facilities charge, applicable to such additional facilities, is established at twenty (20) percent of actual cost. The annual facilities charge shall be billed in twelve monthly installments to be added to the demand charge.

The supplying of, and billing for, service and all conditions applying thereto, are subject to the jurisdiction of the Kentucky Public Service Commission, and to Company's Service Regulations currently in effect, as filed with the Kentucky Public Service Commission, as provided by law.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~August 2, 2021~~ \_\_\_\_\_ in Case No. ~~2021-~~  
~~00057~~2023-00012.

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Issued: ~~August 13, 2021~~

Effective: ~~August 15, 2021~~

Issued by Amy B. Spiller, President /s/ Amy B. Spiller



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Duke Energy Kentucky, Inc.  
1262 Cox Road  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
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**RATE SL**

**STREET LIGHTING SERVICE**

**APPLICABILITY**

Applicable to municipal, county, state and Federal governments, including divisions thereof, and incorporated homeowners associations, for the lighting of public streets and roads with Company-owned lighting fixtures.

Mercury Vapor lighting fixtures will not be installed by the Company after June 1, 2003. As currently installed Mercury Vapor fixtures are retired and/or replaced, they may be replaced with either Metal Halide or Sodium Vapor fixtures as the customer chooses.

This rate schedule is no longer available after December 31, 2006. Potential lighting customers wanting a lighting system installed and maintained by Company can do so via the Outdoor Lighting Equipment agreement (OLE). Potential customers should contact a Company account representative for further information concerning OLE options. This rate schedule terminates December 31, 2026. Customers currently being provided service under this rate schedule can continue being provided service under this rate schedule for the remaining useful life of the facilities, or this rate schedule terminates, whichever occurs first.

**TYPE OF SERVICE**

All equipment owned by the Company will be installed and maintained by the Company. All lamps will burn from dusk to dawn, approximately 4,160 hours per annum. The Company will endeavor to replace burned-out lamps within 48 hours after notification by the customer. The Company does not guarantee continuous lighting or electric service and shall not be liable to the customer or anyone else for any damage, loss or injury due to any cause.

**NET MONTHLY BILL**

The following monthly charge for each unit with lamp and luminaire, controlled automatically, will be assessed:

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**NET MONTHLY BILL (Contd.)**

1. Base Rate

<u>OVERHEAD DISTRIBUTION AREA</u>		Lamp		Annual	
Fixture Description		Watt	kW/Unit	kWh	Rate/Unit
Standard Fixture (Cobra Head)					
Mercury Vapor					
7,000 lumen		175	0.193	803	\$ <del>7,928.48</del> (I)
7,000 lumen (Open Refractor)		175	0.205	853	\$ <del>6,647.24</del> (I)
10,000 lumen		250	0.275	1,144	\$ <del>9,489.98</del> (I)
21,000 lumen		400	0.430	1,789	\$ <del>12,3213.57</del> (I)
Metal Halide					
14,000 lumen		175	0.193	803	\$ <del>7,928.48</del> (I)
20,500 lumen		250	0.275	1,144	\$ <del>9,489.98</del> (I)
36,000 lumen		400	0.430	1,789	\$ <del>12,3213.57</del> (I)
Sodium Vapor					
9,500 lumen		100	0.117	487	\$ <del>8,749.05</del> (I)
9,500 lumen (Open Refractor)		100	0.117	487	\$ <del>6,566.90</del> (I)
16,000 lumen		150	0.171	711	\$ <del>9,5310.03</del> (I)
22,000 lumen		200	0.228	948	\$ <del>12,3613.02</del> (I)
27,500 lumen		250	0.275	948	\$ <del>12,3613.02</del> (I)
50,000 lumen		400	0.471	1,959	\$ <del>16,7418.08</del> (I)
Decorative Fixtures					
Sodium Vapor					
9,500 lumen (Rectilinear)		100	0.117	487	\$ <del>10,8211.16</del> (I)
22,000 lumen (Rectilinear)		200	0.246	1,023	\$ <del>13,4314.14</del> (I)
50,000 lumen (Rectilinear)		400	0.471	1,959	\$ <del>17,8619.23</del> (I)
50,000 lumen (Setback)		400	0.471	1,959	\$ <del>26,4327.80</del> (I)

Where a street lighting fixture served overhead is to be installed on another utility's pole on which the Company does not have a contact, a monthly pole charge will be assessed.

Spans of Secondary Wiring:

For each increment of 50 feet of secondary wiring beyond the first 150 feet from the pole, the following price per month shall be added to the price per month per street lighting unit: \$0.57.

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KY.P.S.C. Electric No. 2  
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**NET MONTHLY BILL (Contd.)**

<u>UNDERGROUND DISTRIBUTION AREA</u>	<u>Lamp Watt</u>	<u>kW/Unit</u>	<u>Annual kWh</u>	<u>Rate/Unit</u>	
Fixture Description					
Standard Fixture (Cobra Head)					
Mercury Vapor					
7,000 lumen	175	0.210	874	\$ <del>8,078.68</del>	(I)
7,000 lumen (Open Refractor)	175	0.205	853	\$ <del>6,647.24</del>	(I)
10,000 lumen	250	0.292	1,215	\$ <del>9,3510.20</del>	(I)
21,000 lumen	400	0.460	1,914	\$ <del>12,6313.97</del>	(I)
Metal Halide					
14,000 lumen	175	0.210	874	\$ <del>8,078.68</del>	(I)
20,500 lumen	250	0.292	1,215	\$ <del>9,3510.20</del>	(I)
36,000 lumen	400	0.460	1,914	\$ <del>12,6313.97</del>	(I)
Sodium Vapor					
9,500 lumen	100	0.117	487	\$ <del>8,749.05</del>	(I)
9,500 lumen (Open Refractor)	100	0.117	487	\$ <del>6,656.99</del>	(I)
16,000 lumen	150	0.171	711	\$ <del>9,5010.00</del>	(I)
22,000 lumen	200	0.228	948	\$ <del>12,3613.02</del>	(I)
27,500 lumen	250	0.318	1,323	\$ <del>12,4413.33</del>	(I)
50,000 lumen	400	0.471	1,959	\$ <del>16,7418.08</del>	(I)
Decorative Fixtures					
Mercury Vapor					
7,000 lumen (Town & Country)	175	0.205	853	\$ <del>8,348.94</del>	(I)
7,000 lumen (Holophane)	175	0.210	874	\$ <del>10,4511.06</del>	(I)
7,000 lumen (Gas Replica)	175	0.210	874	\$ <del>23,7524.36</del>	(I)
7,000 lumen (Granville)	175	0.205	853	\$ <del>8,439.03</del>	(I)
7,000 lumen (Aspen)	175	0.210	874	\$ <del>15,0815.69</del>	(I)
Metal Halide					
14,000 lumen (Traditionaire)	175	0.205	853	\$ <del>8,338.93</del>	(I)
14,000 lumen (Granville Acorn)	175	0.210	874	\$ <del>15,0815.69</del>	(I)
14,000 lumen (Gas Replica)	175	0.210	874	\$ <del>23,8324.44</del>	(I)
14,500 lumen (Gas Replica)	175	0.207	861	\$ <del>23,8324.43</del>	(I)
Sodium Vapor					
9,500 lumen (Town & Country)	100	0.117	487	\$ <del>12,0812.42</del>	(I)
9,500 lumen (Holophane)	100	0.128	532	\$ <del>13,0913.46</del>	(I)
9,500 lumen (Rectilinear)	100	0.117	487	\$ <del>9,7710.11</del>	(I)
9,500 lumen (Gas Replica)	100	0.128	532	\$ <del>24,5624.93</del>	(I)
9,500 lumen (Aspen)	100	0.128	532	\$ <del>15,2415.61</del>	(I)
9,500 lumen (Traditionaire)	100	0.117	487	\$ <del>12,0812.42</del>	(I)
9,500 lumen (Granville Acorn)	100	0.128	532	\$ <del>15,2415.61</del>	(I)

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**NET MONTHLY BILL (Contd.)**

<u>UNDERGROUND DISTRIBUTION AREA</u> (Contd.)	<u>Lamp Watt</u>	<u>kW/Unit</u>	<u>Annual kWh</u>	<u>Rate/Unit</u>	
Fixture Description					
Decorative Fixtures (Contd.)					
Sodium Vapor (Contd.)					
22,000 lumen (Rectilinear)	200	0.246	1,023	<del>\$13.50</del> 14.21	(I)
50,000 lumen (Rectilinear)	400	0.471	1,959	<del>\$17.92</del> 19.29	(I)
50,000 lumen (Setback)	400	0.471	1,959	<del>\$26.43</del> 27.80	(I)

**POLE CHARGES**

<u>Pole Description</u>	<u>Pole Type</u>	<u>Rate/Pole</u>
Wood		
17 foot (Wood Laminated) (a)	W17	\$ 4.84
30 foot	W30	\$ 4.78
35 foot	W35	\$ 4.84
40 foot	W40	\$ 5.80
Aluminum		
12 foot (decorative)	A12	\$13.16
28 foot	A28	\$ 7.63
28 foot (heavy duty)	A28H	\$ 7.71
30 foot (anchor base)	A30	\$15.24
Fiberglass		
17 foot	F17	\$ 4.84
12 foot (decorative)	F12	\$14.15
30 foot (bronze)	F30	\$ 9.21
35 foot (bronze)	F35	\$ 9.46
Steel		
27 foot (11 gauge)	S27	\$12.44
27 foot (3 gauge)	S27H	\$18.76

Spans of Secondary Wiring:

For each increment of 25 feet of secondary wiring beyond the first 25 feet from the pole, the following price per month shall be added to the price per month per street lighting unit: \$0.83.

Additional facilities, other than specified above, if required, will be billed at the time of installation.

(a) Note: New or replacement poles no longer available.

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2. Base Fuel Cost

The rates per unit shown above include a charge of \$~~0.025404~~0.033780 per kilowatt-hour reflecting the base (I) cost of fuel.

3. Applicable Riders

The following riders are applicable pursuant to the specific terms contained within each rider:

Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider

Sheet No. 80, Rider FAC, Fuel Adjustment Clause

Sheet No. 82, Rider PSM, Profit Sharing Mechanism

**LATE PAYMENT CHARGE**

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill, which is the Net Monthly Bill plus 5%, is due and payable.

**TERM OF SERVICE**

The street lighting units are installed for the life of the unit, and then its terminable on one hundred twenty (120) days written notice by either customer or Company subject to Paragraph 4 or 6 under General Conditions.

**GENERAL CONDITIONS**

- (1) If the customer requires the installation of a unit at a location which requires the extension, relocation, or rearrangement of the Company's distribution system, the customer shall, in addition to the monthly charge, pay the Company on a time and material basis, plus overhead charges, the cost of such extension, relocation, or rearrangement, unless in the judgment of the Company no charge should be made. An estimate of the cost will be submitted for approval before work is carried out.
- (2) Installation of street lighting units will be predicated on the ability of the Company to obtain, without cost to itself or the payment or other consideration, all easements and rights-of-way which, in the opinion of the Company, are necessary for the construction, maintenance and operation of the street lights, standards, anchors and/or service wires. If such easements and rights-of-way cannot be so obtained, the Company shall have no obligation hereunder to install such units.
- (3) The time within which the Company will be able to commence or to complete the services to be performed is dependent on the Company's ability to secure the materials required, and the Company shall not be responsible for failure to install these street light units for such reason.

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**GENERAL CONDITIONS (Contd.)**

- (4) If an installed street lighting unit is required to be relocated, removed, or replaced with another unit of the same or less rated lamp wattage, the ordering Authority shall pay the Company the sacrifice value of the unit, plus labor and overhead charges, unless in the judgment of the Company no charge should be made. An estimate of the cost will be submitted for approval before work is carried out.
- (5) Lamps and refractors which are maintained by the Company shall be kept in good operating condition by and at the expense of the Company.

In cases of vandalism, the Company will repair the damaged property and the customer shall pay for such repair on a time and material basis, plus overhead charges, unless in the judgment of the Company no charge should be made. An estimate of the cost will be submitted for approval before work is carried out.

- (6) When a street lighting unit reaches end of life or becomes obsolete and parts cannot be reasonably obtained, the Company can remove the unit at no expense to the customer after notifying the customer. The customer shall be given the opportunity to arrange for another type lighting unit provided by the Company.

**SERVICE REGULATIONS**

The supplying of, and billing for, service and all conditions applying thereto, are subject to the jurisdiction of the Kentucky Public Service Commission, and to Company's Service Regulations currently in effect, as filed with the Kentucky Public Service Commission, as provided by law.

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## RATE TL

### TRAFFIC LIGHTING SERVICE

#### APPLICABILITY

Applicable to the supplying of energy for traffic signals or other traffic control lighting on public streets and roads. After April 2, 1990, this tariff schedule shall only be applicable to municipal, county, state and local governments. In the application of this tariff, each point of delivery shall be considered as a separate customer.

#### TYPE OF SERVICE

Alternating current 60 Hz, single phase at the Company's standard secondary voltage.

#### NET MONTHLY BILL

Computed in accordance with the following charges:

1. Base Rate

- (a) Where the Company supplies energy only, all kilowatt-hours shall be billed at ~~\$0.0434370~~ 0.051816 (I)  
per kilowatt-hour;
- (b) Where the Company supplies energy from a separately metered source and the Company has agreed to provide limited maintenance for traffic signal equipment, all kilowatt-hours shall be billed at \$0.023187 per kilowatt-hour.
- (c) Where the Company supplies energy and has agreed to provide limited maintenance for traffic signal equipment, all kilowatt-hours shall be billed at ~~\$0.0666240~~ 0.075003 per kilowatt-hour. (I)

2. Applicable Riders

The following riders are applicable pursuant to the specific terms contained within each rider:  
Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider  
Sheet No. 80, Rider FAC, Fuel Adjustment Clause  
Sheet No. 82, Rider PSM, Profit Sharing Mechanism

#### LATE PAYMENT CHARGE

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill, which is the Net Monthly Bill plus 5%, is due and payable.

#### TERM OF SERVICE

One year, terminable thereafter on thirty (30) days written notice by either customer or Company.

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### GENERAL CONDITIONS

- (1) Billing will be based on the calculated kilowatt-hour consumption taking into consideration the size and characteristics of the load.
- (2) Where the average monthly usage is less than 110 kWh per point of delivery, the customer shall pay the Company, in addition to the monthly charge, the cost of providing the electric service on the basis of time and material plus overhead charges. An estimate of the cost will be submitted for approval before the work is carried out.
- (3) The location of each point of delivery shall be mutually agreed upon by the Company and the customer. In overhead distribution areas, the point of delivery shall be within 150 feet of existing secondary wiring. In underground distribution areas, the point of delivery shall be at an existing secondary wiring service point.
- (4) If the customer requires a point of delivery which requires the extension, relocation, or rearrangement of Company's distribution system, the customer shall pay the Company, in addition to the monthly charge, the cost of such extension, relocation, or rearrangement on the basis of time and material plus overhead charges unless, in the judgment of the Company, no payment shall be made. An estimate of the cost will be submitted for approval before work is carried out.

### LIMITED MAINTENANCE

Limited maintenance for traffic signals is defined as cleaning and replacing lamps, and repairing connections in wiring which are of a minor nature. Limited maintenance for traffic controllers is defined as cleaning, oiling, adjusting and replacing contacts which are provided by customer, time-setting when requested, and minor repairs to defective wiring.

### SERVICE REGULATIONS

The supplying of, and billing for, service and all conditions applying thereto, are subject to the jurisdiction of the Kentucky Public Service Commission, and to Company's Service Regulations currently in effect, as filed with the Kentucky Public Service Commission, as provided by law.

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## RATE UOLS

### UNMETERED OUTDOOR LIGHTING ELECTRIC SERVICE

#### APPLICABILITY

Applicable for electric energy usage only for any street or outdoor area lighting system (System), operating during the dusk to dawn time period, on private or public property and owned by the customer or the Company. The customer must be adjacent to an electric power line of the Company that is adequate and suitable for supplying the necessary electric service.

Service under this tariff schedule shall require a written agreement between the customer and the Company specifying the calculated lighting kilowatt-hours. The System shall comply with the connection requirements in the Company's Electric Service Regulations, Section III, Customer's and Company's Installations.

#### CONTRACT FOR SERVICE

The customer will enter into an Agreement for Electric Service for Outdoor Lighting for a minimum of one year and renewable annually, automatically, thereafter.

The Company will provide unmetered electric service based on the calculated annual energy usage for each luminaire's lamp wattage plus ballast usage (impact wattage). The System kilowatt-hour usage shall be determined by the number of lamps and other System particulars as defined in the written agreement between the customer and Company. The monthly kilowatt-hour amount will be billed at the rate contained in the NET MONTHLY BILL section below.

#### LIGHTING HOURS

The unmetered lighting System will be operated automatically by either individual photoelectric controllers or System controller(s) set to operate on either dusk-to-dawn lighting levels or on pre-set timers for any hours between dusk-to-dawn. The hours of operation will be agreed upon between the customer and the Company and set out in the Agreement. Dusk-to-dawn lighting typically turns on and off approximately one-half (1/2) hour after sunset and one-half (1/2) hour before sunrise which is approximately 4160 hours annually.

#### NET MONTHLY BILL

Computed in accordance with the following charge:

- |    |                      |   |     |
|----|----------------------|---|-----|
| 1. | Base Rate<br>All kWh | \$ <del>0.0427930</del> . <u>051172</u> per kWh | (I) |
|----|----------------------|---|-----|

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KY. P.S.C. Electric No. 2  
~~Eleventh-Twelfth~~ Revised Sheet No. 62  
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**NET MONTHLY BILL (Contd.)**

2. Applicable Riders  
The following riders are applicable pursuant to the specific terms contained within each rider:  
Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider  
Sheet No. 80, Rider FAC, Fuel Adjustment Clause  
Sheet No. 82, Rider PSM, Profit Sharing Mechanism

**LATE PAYMENT CHARGE**

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill which is the Net Monthly Bill plus 5%, is due and payable.

**OWNERSHIP OF SERVICE LINES**

Company will provide, install, own, operate and maintain the necessary facilities for furnishing electric service to the System defined in the agreement. If the customer requires the installation of a System at a location which requires the extension, relocation, or rearrangement of the Company's distribution system, the customer shall, in addition to the monthly charge, pay the Company on a time and material basis, plus overhead charges, the cost of such extension, relocation, or rearrangement, unless in the judgment of the Company no charge should be made. An estimate of the cost will be submitted for approval before work is carried out.

The Company shall erect the service lines necessary to supply electric energy to the System within the limits of the public streets and highways or on private property as mutually agreed upon by the Company and the customer. The customer shall assist the Company, if necessary, in obtaining adequate written easements covering permission to install and maintain any service lines required to serve the System.

The Company shall not be required to pay for obtaining permission to trim or re-trim trees where such trees interfere with lighting output or with service lines or wires of the Company used for supplying electric energy to the System. The customer shall assist the Company, if necessary, in obtaining permission to trim trees where the Company is unable to obtain such permission through its own best efforts.

**SERVICE REGULATIONS**

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## RATE LED

### LED OUTDOOR LIGHTING ELECTRIC SERVICE

#### APPLICABILITY

To any customer seeking unmetered roadway or other unmetered outdoor illumination from Company owned LED technology. Customer must be adjacent to an electric power line of Company that is adequate and suitable for supplying the necessary electric service. Specific program technologies, services, pricing, and requirements are addressed below. Service hereunder is provided for the sole and exclusive benefit of the customer, and nothing herein or in the contract executed hereunder is intended to benefit any third party or to impose any obligation on the Company to any such third party.

Service under this tariff schedule shall require a written agreement between the customer and the Company specifying the calculated lighting kilowatt-hours. The LED System shall comply with the connection requirements in the Company's Electric Service Regulations, Section III and Section IV, Customer's and Company's Installations respectively.

#### CHARACTER OF SERVICE

The Company will provide automatically controlled unmetered lighting service, alternating current, 60 cycle, single phase, at the Company's standard voltage available. This service may include "smart" lighting technologies.

The Company will provide unmetered electric service based on the calculated annual energy usage for each luminaire's lamp wattage plus ballast usage (impact wattage). The LED System kilowatt-hour usage shall be determined by the number of lamps and other LED System particulars as defined in the written agreement between the customer and Company. The monthly kilowatt-hour amount will be billed at the rate contained in the NET MONTHLY BILL section below.

#### LIGHTING HOURS

All unmetered lighting systems, under this rate schedule, will be operated automatically. Annual estimated operating hours for dusk-to-dawn levels will be based on regional National Weather Service hours for sunrise and sunset times. Dusk-to-dawn lighting typically turns on and off approximately one-half (1/2) hour after sunset and one-half (1/2) hour before sunrise which is approximately 4160 hours annually.

#### NET MONTHLY BILL

Computed in accordance with the following charges:

1. Base Rate  
All kWh \$~~0.0427930~~.051172 per kWh (I)

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Issued by: Amy B. Spiller, President /s/ Amy B. Spiller

Duke Energy Kentucky, Inc.  
 1262 Cox Road  
 Erlanger, KY 41018

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**NET MONTHLY BILL (Contd.)**

Energy charge based on the following calculation:

- a. Lamp watts plus ballast wattage equals impact watts
- b. Watts times estimated annual burn hours as set in agreement equals annual watt hours
- c. Annual watt hours divided by 1000 hours equals annual kilowatt hours (kWh)
- d. Annual kWh divided by twelve (12) months equals monthly kWh
- e. Monthly kWh times current rate per kWh = monthly dollar amount per luminaire

The rate shown above includes a charge of \$0.025401 per kilowatt-hour reflecting the base cost of fuel. (I)

2. Applicable Riders

The following riders are applicable pursuant to the specific terms contained within each rider:

- Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider
- Sheet No. 80, Rider FAC, Fuel Adjustment Clause
- Sheet No. 82, Rider PSM, Profit Sharing Mechanism

3. Monthly Maintenance, Fixture, Pole, Pole Foundation, Brackets, and Wire Equipment Charges:

I. Fixtures				Per Unit Per Month		
Billing Type	Description	Initial Lumens	Lamp Wattage	Monthly kWh	Fixture	Maintenance
LED NB 50	50W Neighborhood	5,000	50	17	\$4.32	\$4.56
LED NBL 50	50W Neighborhood with Lens	5,000	50	17	\$4.50	\$4.56
LED RDW 50	50W Standard LED	4,521	50	17	\$5.31	\$4.56
LED RDW 70	70W Standard LED	6,261	70	24	\$5.30	\$4.56
LED RDW 110	110W Standard LED	9,336	110	38	\$6.01	\$4.56
LED RDW 150	150W Standard LED	12,642	150	52	\$7.95	\$4.56
LED RDW 220	220W Standard LED	18,642	220	76	\$9.02	\$5.56
LED RDW 280	280W Standard LED	24,191	280	97	\$11.10	\$5.56
LED ACS 50	50W Acorn LED	5,147	50	17	\$13.95	\$4.56
LED DA 50	50W Deluxe Acorn LED	5,147	50	17	\$15.48	\$4.56
LED ODA 70	70W LED Open Deluxe Acorn	6,500	70	24	\$15.09	\$4.56
LED TR 50	50W Traditional LED	3,303	50	17	\$10.11	\$4.56
LED OT 50	50W Open Traditional LED	3,230	50	17	\$10.11	\$4.56
LED MB 50	50W Mini Bell LED	4,500	50	17	\$13.15	\$4.56
LED EN 50	50W Enterprise LED	3,880	50	17	\$13.58	\$4.56
LED SAN 70	70W Sanibel LED	5,508	70	24	\$16.75	\$4.56

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I. Fixtures (Contd.)				Per Unit Per Month		
Billing Type	Description	Initial Lumens	Lamp Wattage	Monthly kWh	Fixture	Maintenance
LED SAN 150	150W Sanibel LED	12,500	150	52	\$16.75	\$4.56
LED LD 150	150W LED Teardrop	12,500	150	52	\$20.27	\$4.56
LED LDP 50	50W LED Teardrop Pedestrian	4,500	50	17	\$16.45	\$4.56
LED SBX 220	220W LED Shoebox	18,500	220	76	\$14.04	\$5.56
LED SBX 420	420W LED Shoebox	39,078	420	146	\$20.95	\$5.56
LSBX530	530W LED Shoebox	57,000	530	184	\$26.34	\$5.56
LCLE150	150W Clermont LED	12,500	150	52	\$25.00	\$4.56
LFL130	130W Flood LED	14,715	130	45	\$8.58	\$4.56
LFL260	260W Flood LED	32,779	260	90	\$13.50	\$5.56
LMON050	50W Monticello LED	4,157	50	17	\$16.69	\$4.56
LMT050	50W Mitchell Finial	5,678	50	17	\$15.83	\$4.56
LMTR050	50W Mitchell Ribs, Bands, and Medallions LED	5,678	50	17	\$17.44	\$4.56
LMTT050	50W Mitchell Top Hat LED	5,678	50	17	\$15.83	\$4.56
LMTL050	50W Mitchell Top Hat with Ribs, Bands, and Medallions LED	5,678	50	17	\$17.44	\$4.56
LOMO050	50W Open Monticello LED	4,157	50	17	\$16.62	\$4.56

II. Poles		
Billing Type	Description	Charge per Month per Unit
A12A	Style A 12 Ft Long Anchor Base Top Tenon Aluminum	\$6.07
A15D	Style A 15 Ft Long Direct Buried Top Tenon Aluminum	\$5.20
A15A	Style A 15 Ft Long Anchor Base Top Tenon Aluminum	\$6.24
A18D	Style A 18 Ft Long Direct Buried Top Tenon Aluminum	\$5.40
A17A	Style A 17 Ft Long Anchor Base Top Tenon Aluminum	\$6.54
A25D	Style A 25 Ft Long Direct Buried Top Tenon Aluminum	\$10.03
A22A	Style A 22 Ft Long Anchor Base Top Tenon Aluminum	\$7.76
A30D	Style A 30 Ft Long Direct Buried Top Tenon Aluminum	\$11.18
A27A	Style A 27 Ft Long Anchor Base Top Tenon Aluminum	\$9.17

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II. Poles (Contd.)			
Billing Type	Description	Charge per Month per Unit	
A35D	Style A 35 Ft Long Direct Buried Top Tenon Aluminum	\$12.44	⊕
A32A	Style A 32 Ft Long Anchor Base Top Tenon Aluminum	\$10.59	⊕
A41D	Style A 41 Ft Long Direct Buried Top Tenon Aluminum	\$13.44	⊕
A12B	Style B 12 Ft Long Anchor Base Post Top Aluminum	\$7.39	⊕
A12C	Style C 12 Ft Long Anchor Base Post Top Aluminum	\$10.01	⊕
S12V	Style C 12 Ft Long Anchor Base Davit Steel	\$10.01	⊕
S14C	Style C 14 Ft Long Anchor Base Top Tenon Steel	\$10.73	⊕
S21V	Style C 21 Ft Long Anchor Base Davit Steel	\$26.33	⊕
S23C	Style C 23 Ft Long Anchor Base Boston Harbor Steel	\$26.62	⊕
A12R	Style D 12 Ft Long Anchor Base Breakaway Aluminum	\$9.91	⊕
A12E	Style E 12 Ft Long Anchor Base Post Top Aluminum	\$10.01	⊕
A12I	Style F 12 Ft Long Anchor Base Post Top Aluminum	\$10.72	⊕
A39T	Legacy Style 39 Ft Direct Buried Single or Twin Side Mount Aluminum Satin Finish	\$16.94	⊕
A27S	Legacy Style 27 Ft Long Anchor Base Side Mount Aluminum Pole Satin Finish Breakaway	\$13.06	⊕
A33S	Legacy Style 33 Ft Long Anchor Base Side Mount Aluminum Pole Satin Finish Breakaway	\$12.70	⊕
A37S	Legacy Style 37 Ft Long Anchor Base Side Mount Aluminum Pole Satin Finish	\$15.70	⊕
W30	30' Class 7 Wood Pole	\$6.21	⊕
W35	35' Class 5 Wood Pole	\$6.75	⊕
W40	40' Class 4 Wood Pole	\$10.16	⊕
W45	45' Class 4 Wood Pole	\$10.54	⊕
A15J	15' Style A - Fluted - for Shroud - Aluminum Direct Buried Pole	\$5.03	
A20J	20' Style A - Fluted - for Shroud - Aluminum Direct Buried Pole	\$5.61	
A15K	15' Style A - Smooth - for Shroud - Aluminum Direct Buried Pole	\$3.32	
A20K	20' Style A - Smooth - for Shroud - Aluminum Direct Buried Pole	\$5.17	
A Pole Shroud	Shroud - Standard Style for anchor base poles	\$2.42	
B Pole Shroud	Shroud - Style B Pole for smooth and fluted poles	\$2.28	
C Pole Shroud	Shroud - Style C Pole for smooth and fluted poles	\$2.19	
D Pole Shroud	Shroud - Style D Pole for smooth and fluted poles	\$2.35	

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III. Pole Foundations		
Billing Type	Description	Charge per Month per Unit
FND-Flush-A	Flush - Pre-fabricated - Style A Pole	\$10.23
FND-Flush-B	Flush - Pre-fabricated - Style B Pole	\$9.22
FND-Flush-C	Flush - Pre-fabricated - Style C Pole	\$10.84
FND-Flush-D	Flush - Pre-fabricated - Style E Pole	\$10.23
FND-Flush-E	Flush - Pre-fabricated - Style F Pole	\$9.22
FND-Flush-F	Flush - Pre-fabricated - Style D Pole	\$8.98
FND-Reveal-A	Reveal - Pre-fabricated - Style A Pole	\$10.87
FND-Reveal-B	Reveal - Pre-fabricated - Style B Pole	\$11.61
FND-Reveal-C	Reveal - Pre-fabricated - Style C Pole	\$11.61
FND-Reveal-D	Reveal - Pre-fabricated - Style D Pole	\$11.61
FND-Reveal-E	Reveal - Pre-fabricated - Style E Pole	\$11.61
FND-Reveal-F	Reveal - Pre-fabricated - Style F Pole	\$10.14
FND-Screw-in	Screw-in Foundation	\$5.70

IV. Brackets		
Billing Type	Description	Charge per Month per Unit
BKT-Wood-14in	14 inch bracket - wood pole - side mount	\$1.36
BKT-Wood-4ft	4 foot bracket - wood pole - side mount	\$1.47
BKT-Wood-6ft	6 foot bracket - wood pole - side mount	\$1.34
BKT-Wood-8ft	8 foot bracket - wood pole - side mount	\$2.17
BKT-Wood-10ft	10 foot bracket - wood pole - side mount	\$4.49
BKT-Wood-12ft	12 foot bracket - wood pole - side mount	\$3.56
BKT-Wood-15ft	15 foot bracket - wood pole - side mount	\$4.33
BKT-Side-4ft	4 foot bracket - metal pole - side mount	\$5.22
BKT-Side-6ft	6 foot bracket - metal pole - side mount	\$5.58
BKT-Side-8ft	8 foot bracket - metal pole - side mount	\$5.62
BKT-Side-10ft	10 foot bracket - metal pole - side mount	\$5.92
BKT-Side-12ft	12 foot bracket - metal pole - side mount	\$6.73

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IV. Brackets (Contd.)		
Billing Type	Description	Charge per Month per Unit
BKT-Side-15FT	15 foot bracket - metal pole - side mount	\$6.88
BKT-Tenon-18in-DBL	18 inch bracket - metal pole - double Flood Mount - top mount	\$2.24
BKT-Tenon-14in	14 inch bracket - metal pole - single mount - top tenon	\$1.61
BKT-Tenon-14in DBL	14 inch bracket - metal pole - double mount - top tenon	\$1.99
BKT-Tenon-14in TPL	14 inch bracket - metal pole - triple mount - top tenon	\$2.46
BKT-Tenon-14in Quad	14 inch bracket - metal pole - quad mount - top tenon	\$2.29
BKT-Tenon-6ft	6 foot - metal pole - single - top tenon	\$2.42
BKT-Tenon-6ft DBL	6 foot - metal pole - double - top tenon	\$3.86
BKT-Tenon-4ft BH	4 foot - Boston Harbor - top tenon	\$7.87
BKT-Tenon-6ft BH	6 foot - Boston Harbor - top tenon	\$8.61
BKT-Tenon-12t BH	12 foot - Boston Harbor Style C pole double mount - top tenon	\$15.51
BKT-Tenon-4ft Davit	4 foot - Davit arm - top tenon	\$8.36
BKT-Wood-18in-CH	18 inch - Cobrahead fixture for wood pole	\$1.19
BKT-Wood-18in-FL	18 inch - Flood light for wood pole	\$1.34

V. Wiring Equipment		
Billing Type	Description	Charge per Month per Unit
MISC-Sec-PED	Secondary Pedestal (cost per unit)	\$2.05
MISC-Handhole	Handhole (cost per unit)	\$1.70
CABLE-6AL-Trench	6AL DUPLEX and Trench (cost per foot)	\$0.91
CABLE-6AL-Trench-Conduit	6AL DUPLEX and Trench with conduit (cost per foot)	\$0.95
CABLE-6AL-Existing Conduit	6AL DUPLEX with existing conduit (cost per foot)	\$0.88
CABLE-6AL-Bore-Conduit	6AL DUPLEX and Bore with conduit (cost per foot)	\$1.09
WIRE-6AL	6AL DUPLEX OH wire (cost per foot)	\$0.87

**LATE PAYMENT CHARGE**

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill, which is the Net Monthly Bill plus 5%, is due and payable.

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#### OWNERSHIP OF SERVICE LINES

Company will provide, install, own, operate and maintain the necessary facilities for furnishing electric service to the System defined in the agreement. If the customer requires the installation of a System at a location which requires the extension, relocation, or rearrangement of the Company's distribution system, the customer shall, in addition to the monthly charge, pay the Company on a time and material basis, plus overhead charges, the cost of such extension, relocation, or rearrangement, unless in the judgment of the Company no charge should be made. Customer may also pay monthly for such extension, relocation, or rearrangement as described below under Terms of Service. An estimate of the cost will be submitted for approval before work is carried out.

The Company shall erect the service lines necessary to supply electric energy to the System within the limits of the streets and highways or on property as mutually agreed upon by the Company and the customer. The customer shall assist the Company, if necessary, in obtaining adequate written easements covering permission to install and maintain any service lines required to serve the System.

The Company shall not be required to pay for obtaining permission to trim or re-trim trees where such trees interfere with supplying electric energy to the System. The Customer shall assist the Company, if necessary, in obtaining permission to trim trees where the Company is unable to obtain such permission through its own best efforts.

#### TERMS OF SERVICE

1. Service under this rate schedule shall be for a minimum initial term of ten (10) years from the commencement of service and shall continue thereafter until terminated by either party by sixty (60) days written notice or to termination. Upon early termination of service under this schedule, the customer shall pay an amount equal to the remaining monthly lease amount for the term of contract and removal cost of the facilities.
2. Where the Company provides a LED fixture, pole type or equipment other than those listed above, the monthly charges, as applicable shall be computed as follows:
  - I. Fixture
    - a. Fixture Charge: Based on the Company's average installed cost including overhead/loadings, applicable property tax, applicable income tax, depreciation and rate of return.
    - b. Maintenance Charge: Based on the Company's average cost of performing maintenance on lighting equipment.
  - II. Pole
    - a. Pole Charge: Based on the Company's average installed cost including overhead/loadings, applicable property tax, applicable income tax, depreciation and rate of return.

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III. Other Equipment

- a. Equipment Charge: Based on the Company's average installed cost including overhead/loadings, applicable property tax, applicable income tax, depreciation and rate of return.
3. The customer shall be responsible for the cost incurred to repair or replace any fixture or pole which has been willfully damaged. The Company shall not be required to make such repair or replacement or to make payment to the customer for damage.
4. KWh consumption for Company-owned fixtures shall be estimated in lieu of installing meters. Monthly kWh estimates will be made using the following formula:  
$$\text{kWh} = \text{Unit Wattage} \times (4160 \text{ hours per year} / 12 \text{ months}) / 1,000.$$
5. No Pole Charge shall be applicable for a fixture installed on a company-owned pole which is utilized for other general electrical distribution purposes.
6. The Company will repair or replace malfunctioning lighting fixtures maintained by the Company.
7. For a fixture type restricted to existing installations and requiring major renovation or replacement, the fixture shall be replaced by an available similar non-restricted LED fixture of the customer's choosing and the customer shall commence being billed at its appropriate rate.
8. The customer will be responsible for trimming trees and other vegetation that obstruct the light output from fixture(s) or maintenance access to the facilities.
9. All new leased LED lighting shall be installed on poles owned by the Company.
10. Alterations to leased LED lighting facilities requested by the customer after date of installation (i.e. redirect, install shields, etc.), will be billed to the customer in accordance with the Company's policy.
11. Service for street or area lighting is normally provided from existing distribution facilities. Where suitable distribution facilities do not exist, it will be the customer's responsibility to pay for necessary additional facilities either at cost upfront or monthly as described below.

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12. The Company will normally install service in accordance with the Electric Service Regulations for the facilities required to supply electric service to the customer. For Lighting installations requiring investments exceeding the Company's standards and where additional facilities are required as discussed above, lighting customer must pay the cost of the additional facility investment upfront or 1.0017% of the cost of the additional facility investment amount monthly. The Customer may make a partial up-front payment that will be applied against the cost of the additional facility investment and will thereby reduce the monthly charge.
  
13. For available LEDs, the customer may opt to make an initial, one-time payment of 50% of the installed cost of fixtures rated greater than 200 Watts and poles other than standard wood poles, to reduce the Company's installed cost, therefore reducing their monthly rental rates for such fixtures and poles. If a customer chooses this option, the monthly fixture and/or pole charge shall be computed as the reduced installed cost times the corresponding monthly percentage in 2.I.(a) and/or 2.II above.

#### **SERVICE REGULATIONS**

The supplying of, and billing for, service and all conditions applying thereto, are subject to the jurisdiction of the Kentucky Public Service Commission, and to the Company's Service Regulations currently in effect, as filed with the Kentucky Public Service Commission, as provided by law.

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## RATE NSU

### STREET LIGHTING SERVICE NON-STANDARD UNITS

#### APPLICABILITY

Applicable to municipal, county, state and Federal governments, including divisions thereof, hereinafter referred to as customer for the lighting of public streets and roads with existing Company and Customer owned lighting fixtures. This service is not available for units installed after January 1, 1985.

Mercury Vapor lighting fixtures will not be installed by the Company after June 1, 2003. As currently installed Mercury Vapor fixtures are retired and/or replaced, they may be replaced with either Metal Halide or Sodium Vapor fixtures as the customer chooses.

This rate schedule is no longer available after December 31, 2006. Potential lighting customers wanting a lighting system installed and maintained by Company can do so via the Outdoor Lighting Equipment agreement (OLE). Potential customers should contact a Company account representative for further information concerning OLE options. This rate schedule terminates December 31, 2026. Customers currently being provided service under this rate schedule can continue being provided service under this rate schedule for the remaining useful life of the facilities or this rate schedule terminates, whichever occurs first.

#### TYPE OF SERVICE

All equipment owned by the Company will be maintained by the Company. All lamps will burn from dusk to dawn, approximately 4,160 hours per annum. The Company will endeavor to replace burned-out lamps maintained by the Company within 48 hours after notification by the customer. The Company does not guarantee continuous lighting or electric service and shall not be liable to the customer or anyone else for any damage, loss or injury due to any cause.

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**NET MONTHLY BILL**

The following monthly charge for each unit with lamp and luminaire, controlled automatically, will be assessed.

1. Base Rate

A. Company owned

	Lamp Watt	kW/Unit	Annual kWh	Rate/Unit	
1. Boulevard units served underground					
a. 2,500 lumen Incandescent – Series	148	0.148	616	<del>\$10,2210.65</del>	(I)
b. 2,500 lumen Incandescent – Multiple	189	0.189	786	<del>\$7,988.53</del>	(I)
2. Holophane Decorative fixture on 17 foot fiberglass pole served underground with direct buried cable					
a. 10,000 lumen Mercury Vapor	250	0.292	1,215	<del>\$18,6319.48</del>	(I)

The cable span charge of \$0.81 per each increment of 25 feet of secondary wiring shall be added to the Rate/unit charge for each increment of secondary wiring beyond the first 25 feet from the pole base.

	Lamp Watt	kW/Unit	Annual kWh	Rate/Unit	
3. Street light units served overhead distribution					
a. 2,500 lumen Incandescent	189	0.189	786	<del>\$7,918.46</del>	(I)
b. 2,500 lumen Mercury Vapor	100	0.109	453	<del>\$7,457.77</del>	(I)
c. 21,000 lumen Mercury Vapor	400	0.460	1,914	<del>\$11,9713.31</del>	(I)

B. Customer owned

	Lamp Watt	kW/Unit	Annual kWh	Rate/Unit	
1. Steel boulevard units served underground with limited maintenance by Company					
a. 2,500 lumen Incandescent – Series	148	0.148	616	<del>\$6,066.49</del>	(I)
b. 2,500 lumen Incandescent – Multiple	189	0.189	786	<del>\$7,718.26</del>	(I)

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**NET MONTHLY BILL (Contd.)**

2. Base Fuel Cost

The rates per unit shown above include \$~~0.025404~~0.033780 per kilowatt-hour reflecting the base cost (I) of fuel.

3. Applicable Riders

The following riders are applicable pursuant to the specific terms contained within each rider:

- Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider
- Sheet No. 80, Rider FAC, Fuel Adjustment Clause
- Sheet No. 82, Rider PSM, Profit Sharing Mechanism

**LATE PAYMENT CHARGE**

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill, which is the Net Monthly Bill plus 5%, is due and payable.

**TERM OF SERVICE**

The street lighting units are installed for the life of the unit, terminable on one hundred twenty (120) days written notice by either customer or Company subject to Paragraph 1 or 3 under General Conditions.

**GENERAL CONDITIONS**

- (1) If an installed street lighting unit is required to be relocated, removed, or replaced with another unit of the same or less rated lamp wattage, the ordering Authority shall pay the Company the sacrifice value of the unit, plus labor and overhead charges, unless in the judgment of the Company no charge should be made. An estimate of the cost will be submitted for approval before work is carried out.
- (2) Lamps and refractors which are maintained by the Company shall be kept in good operating condition by, and at the expense of, the Company. In case of vandalism, the Company will repair the damaged property and the customer shall pay for such repair on a time and material basis, plus overhead charges, unless in the judgment of the Company no charge should be made. An estimate of the cost will be submitted for approval before work is carried out.
- (3) When a Company owned street lighting unit reaches end of life or becomes obsolete and parts cannot be reasonably obtained, the Company can remove the unit at no expense to the customer after notifying the customer. The customer shall be given the opportunity to arrange for another type lighting unit provided by the Company.
- (4) When a customer owned lighting unit becomes inoperative, the cost of repair or replacement of the unit will be at the customer's expense. The replacement unit shall be an approved Company fixture.
- (5) Limited maintenance by the Company includes only fixture cleaning, relamping, and glassware and photo cell replacement.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~August 2, 2021~~ \_\_\_\_\_ in Case No. ~~2021-~~  
~~000572023-00012~~.

Issued: ~~August 13, 2021~~  
Effective: ~~August 15, 2021~~

Issued by Amy B. Spiller, President /s/ Amy B. Spiller

Duke Energy Kentucky, Inc.  
1262 Cox Road  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eleventh-Twelfth~~ Revised Sheet No. 66  
Cancels and Supersedes  
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**SERVICE REGULATIONS**

The supplying of, and billing for, service and all conditions applying thereto, are subject to the jurisdiction of the Kentucky Public Service Commission, and to Company's Service Regulations currently in effect, as filed with the Kentucky Public Service Commission, as provided by law.

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Commission dated ~~August 2, 2021~~ \_\_\_\_\_ in Case No. ~~2021-~~  
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Duke Energy Kentucky, Inc.  
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 Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
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**RATE SC**

**STREET LIGHTING SERVICE - CUSTOMER OWNED**

**APPLICABILITY**

Applicable to municipal, county, state and Federal governments, including divisions thereof, and incorporated homeowner's associations for the lighting of public streets and roads when the total investment and installation costs of the fixtures are borne by the customer. The fixture shall be a Company approved unit used in overhead and underground distribution areas.

Mercury Vapor lighting fixtures will not be installed by the Company after June 1, 2003. As currently installed Mercury Vapor fixtures are retired and/or replaced, they may be replaced with either Metal Halide or Sodium Vapor fixtures as the customer chooses.

This rate schedule is no longer available after December 31, 2006. Potential lighting customers wanting a lighting system installed and maintained by Company can do so via the Outdoor Lighting Equipment agreement (OLE). Potential customers should contact a Company account representative for further information concerning OLE options. This rate schedule terminates December 31, 2026. Customers currently being provided service under this rate schedule can continue being provided service under this rate schedule for the remaining useful life of the facilities or this rate schedule terminates, whichever occurs first.

**TYPE OF SERVICE**

All equipment will be owned by the customer but may be installed by customer or Company with limited maintenance performed by the Company. Limited maintenance includes only fixture cleaning, relamping, and glassware and photo cell replacement. All lamps will burn from dusk to dawn, approximately 4,160 hours per annum. The Company will endeavor to replace burned-out lamps within 48 hours after notification by the customer. The Company does not guarantee continuous lighting and shall not be liable to the customer or anyone else for any damage, loss or injury due to any cause.

**NET MONTHLY BILL**

The following monthly charge for each lamp with luminaire, controlled automatically, will be assessed:

	Lamp		Annual		
1. Base Rate	<u>Watts</u>	<u>kW/Unit</u>	<u>kWh</u>	<u>Rate/Unit</u>	
Fixture Description					
Standard Fixture (Cobra Head)					
Mercury Vapor					
7,000 lumen	175	0.193	803	\$ <del>4.74</del> <u>5.27</u>	( I )
10,000 lumen	250	0.275	1,144	\$ <del>6.02</del> <u>6.82</u>	( I )
21,000 lumen	400	0.430	1,789	\$ <del>8.37</del> <u>9.62</u>	( I )

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 Commission dated ~~August 2, 2021~~ \_\_\_\_\_ in Case No. ~~2021-~~  
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**NET MONTHLY BILL (Contd.)**

	Lamp Watt	kW/Unit	Annual kWh	Rate/Unit	
Metal Halide					
14,000 lumen	175	0.193	803	\$ <del>4.745.27</del>	(I)
20,500 lumen	250	0.275	1,144	\$ <del>6.026.82</del>	(I)
36,000 lumen	400	0.430	1,789	\$ <del>8.379.62</del>	(I)
Sodium Vapor					
9,500 lumen	100	0.117	487	\$ <del>5.605.94</del>	(I)
16,000 lumen	150	0.171	711	\$ <del>6.276.77</del>	(I)
22,000 lumen	200	0.228	948	\$ <del>6.947.57</del>	(I)
27,500 lumen	250	0.228	948	\$ <del>6.947.57</del>	(I)
50,000 lumen	400	0.471	1,959	\$ <del>9.4510.82</del>	(I)
Decorative Fixture					
Mercury Vapor					
7,000 lumen (Holophane)	175	0.210	874	\$ <del>5.976.58</del>	(I)
7,000 lumen (Town & Country)	175	0.205	853	\$ <del>5.946.51</del>	(I)
7,000 lumen (Gas Replica)	175	0.210	874	\$ <del>5.976.58</del>	(I)
7,000 lumen (Aspen)	175	0.210	874	\$ <del>5.976.58</del>	(I)
Metal Halide					
14,000 lumen (Traditionaire)	175	0.205	853	\$ <del>5.946.51</del>	(I)
14,000 lumen (Granville Acorn)	175	0.210	874	\$ <del>5.976.58</del>	(I)
14,000 lumen (Gas Replica)	175	0.210	874	\$ <del>5.976.58</del>	(I)
Sodium Vapor					
9,500 lumen (Town & Country)	100	0.117	487	\$ <del>5.525.86</del>	(I)
9,500 lumen (Traditionaire)	100	0.117	487	\$ <del>5.525.86</del>	(I)
9,500 lumen (Granville Acorn)	100	0.128	532	\$ <del>5.766.13</del>	(I)
9,500 lumen (Rectilinear)	100	0.117	487	\$ <del>5.525.86</del>	(I)
9,500 lumen (Aspen)	100	0.128	532	\$ <del>5.766.13</del>	(I)
9,500 lumen (Holophane)	100	0.128	532	\$ <del>5.766.13</del>	(I)
9,500 lumen (Gas Replica)	100	0.128	532	\$ <del>5.766.13</del>	(I)
22,000 lumen (Rectilinear)	200	0.246	1,023	\$ <del>7.328.03</del>	(I)
50,000 lumen (Rectilinear)	400	0.471	1,959	\$ <del>9.7711.14</del>	(I)

Where a street lighting fixture served overhead is to be installed on another utility's pole on which the Company does not have a contact, a monthly pole charge will be assessed.

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Duke Energy Kentucky, Inc.  
1262 Cox Road  
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**NET MONTHLY BILL (Contd.)**

<u>Pole Description</u>	<u>Pole Type</u>	<u>Rate/Pole</u>
Wood		
30 foot	W30	\$ 4.78
35 foot	W35	\$ 4.84
40 foot	W40	\$ 5.80

**Customer Owned and Maintained Units**

The rate for energy used for this type street lighting will be \$~~0.0427930~~0.051172 per kilowatt-hour which includes the base fuel cost rate stated below. The monthly kilowatt-hour usage will be mutually agreed upon between the Company and the customer. Where the average monthly usage is less than 150 kWh per point of delivery, the customer shall pay the Company, in addition to the monthly charge, the cost of providing electric service on the basis of time and material plus overhead charges. An estimate of the cost will be submitted for approval before work is carried out. (I)

**2. Base Fuel Cost**

The rates per unit shown above include \$~~0.0254040~~0.033780 per kilowatt-hour reflecting the base cost of fuel. (I)

**3. Applicable Riders**

The following riders are applicable to the specific terms contained within each rider:  
Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider  
Sheet No. 80, Rider FAC, Fuel Adjustment Clause  
Sheet No. 82, Rider PSM, Profit Sharing Mechanism

**LATE PAYMENT CHARGE**

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill, which is the Net Monthly Bill plus 5%, is due and payable.

**TERM OF SERVICE**

The street lighting units are installed for the life of the unit, terminable on one hundred twenty (120) days written notice by either customer or Company subject to Paragraph 4 or 6 under General Conditions.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~August 2, 2021~~ \_\_\_\_\_ in Case No. ~~2021-~~  
~~000572023-00012~~.

Issued: ~~August 13, 2021~~

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Erlanger, KY 41018

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### GENERAL CONDITIONS

- (1) If the customer requires the installation of a unit at a location which requires the extension, relocation, or rearrangement of the Company's distribution system, the customer shall, in addition to the monthly charge, pay the Company on a time and material basis, plus overhead charges, the cost of such extension, relocation, or rearrangement, unless in the judgment of the Company no charge should be made. An estimate of the cost will be submitted for approval before work is carried out.
- (2) Installation of street lighting units will be predicated on the ability of the Company to obtain, without cost to itself or the payment or other consideration, all easements and rights-of-way which, in the opinion of the Company, are necessary for the construction, maintenance and operation of the street lights, standards, anchors and/or service wires. If such easements and rights-of-way cannot be so obtained, the Company shall have no obligation hereunder to install such units.
- (3) The time within which the Company will be able to commence or to complete the services to be performed is dependent on the Company's ability to secure the materials required, and the Company shall not be responsible for failure to install these street light units for such reason.
- (4) If an installed street lighting unit is required to be relocated, removed, or replaced by the Company, the ordering Authority shall pay the Company the cost agreed upon under a separate contract.
- (5) Lamps and refractors which are maintained by the Company shall be kept in good operating condition by and at the expense of the Company.

In cases of vandalism, the Company will repair the damaged property and the customer shall pay for such repair on a time and material basis, plus overhead charges, unless in the judgment of the Company no charge should be made. An estimate of the cost will be submitted for approval before work is carried out.

- (6) When a customer owned lighting unit becomes inoperative the cost of repair, replacement or removal of the unit will be at the customer's expense.
- (7) All lights installed on an overhead distribution system will be installed by Company under a separate contract with customer.

### SERVICE REGULATIONS

The supplying of, and billing for, service and all conditions applying thereto, are subject to the jurisdiction of the Kentucky Public Service Commission, and to Company's Service Regulations currently in effect, as filed with the Kentucky Public Service Commission, as provided by law.

Issued by authority of an Order of the Kentucky Public Service  
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KY.P.S.C. Electric No. 2  
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## RATE SE

### STREET LIGHTING SERVICE - OVERHEAD EQUIVALENT

#### APPLICABILITY

Applicable to municipal, county, state and Federal governments, including divisions thereof and incorporated homeowners associations for the lighting of public streets and roads with Company lighting fixtures in underground distribution areas, where the customer elects to make a contribution for the installation of the fixture, mounting, pole and secondary wiring to obtain the rate/unit for the same size standard fixture (cobra head) in an overhead distribution area.

Mercury Vapor lighting fixtures will not be installed by the Company after June 1, 2003. As currently installed Mercury Vapor fixtures are retired and/or replaced, they may be replaced with either Metal Halide or Sodium Vapor fixtures as the customer chooses.

This rate schedule is no longer available after December 31, 2006. Potential lighting customers wanting a lighting system installed and maintained by Company can do so via the Outdoor Lighting Equipment agreement (OLE). Potential customers should contact a Company account representative for further information concerning OLE options. This rate schedule terminates December 31, 2026. Customers currently being provided service under this rate schedule can continue being provided service under this rate schedule for the remaining useful life of the facilities or this rate schedule terminates, whichever occurs first.

#### TYPE OF SERVICE

All equipment will be installed, owned and maintained by the Company. All lamps will burn from dusk to dawn, approximately 4,160 hours per annum. The Company will endeavor to replace burned-out lamps within 48 hours after notification by the customer. The Company does not guarantee continuous lighting and shall not be liable to the customer or anyone else for any damage, loss or injury due to any cause.

#### NET MONTHLY BILL

The following monthly charge for each lamp with luminaire, controlled automatically, will be assessed:

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~August 2, 2021~~ \_\_\_\_\_ in Case No. ~~2021-~~  
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Issued: August 13, 2021

Effective: August 15, 2021

Issued by Amy B. Spiller, President /s/ Amy B. Spiller

KY.P.S.C. Electric No. 2  
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**NET MONTHLY BILL (Contd.)**

1. Base Rate

Fixture Description	Lamp Watt	kW/Unit	Annual kWh	Rate/Unit	
<b>Decorative Fixtures</b>					
<u>Mercury Vapor</u>					
7,000 lumen (Town & Country)	175	0.205	853	\$ <del>8.138.73</del>	(I)
7,000 lumen (Holophane)	175	0.210	874	\$ <del>8.168.77</del>	(I)
7,000 lumen (Gas Replica)	175	0.210	874	\$ <del>8.168.77</del>	(I)
7,000 lumen (Aspen)	175	0.210	874	\$ <del>8.168.77</del>	(I)
<u>Metal Halide</u>					
14,000 lumen (Traditionaire)	175	0.205	853	\$ <del>8.138.73</del>	(I)
14,000 lumen (Granville Acorn)	175	0.210	874	\$ <del>8.168.77</del>	(I)
14,000 lumen (Gas Replica)	175	0.210	874	\$ <del>8.168.77</del>	(I)
<u>Sodium Vapor</u>					
9,500 lumen (Town & Country)	100	0.117	487	\$ <del>8.809.14</del>	(I)
9,500 lumen (Holophane)	100	0.128	532	\$ <del>8.939.30</del>	(I)
9,500 lumen (Rectilinear)	100	0.117	487	\$ <del>8.809.14</del>	(I)
9,500 lumen (Gas Replica)	100	0.128	532	\$ <del>8.929.29</del>	(I)
9,500 lumen (Aspen)	100	0.128	532	\$ <del>8.929.29</del>	(I)
9,500 lumen (Traditionaire)	100	0.117	487	\$ <del>8.809.14</del>	(I)
9,500 lumen (Granville Acorn)	100	0.128	532	\$ <del>8.929.29</del>	(I)
22,000 lumen (Rectilinear)	200	0.246	1,023	\$ <del>12.6913.40</del>	(I)
50,000 lumen (Rectilinear)	400	0.471	1,959	\$ <del>16.8818.25</del>	(I)
50,000 lumen (Setback)	400	0.471	1,959	\$ <del>16.8818.25</del>	(I)

Additional facilities, other than specified above, if required, will be billed at the time of installation.

2. Base Fuel Cost

The rates per unit shown above include \$~~0.0254040.033780~~ per kilowatt-hour reflecting the base cost (I) of fuel.

3. Applicable Riders

The following riders are applicable pursuant to the specific terms contained within each rider:  
 Sheet No. 76, Rider ESM, Environmental Surcharge Mechanism Rider  
 Sheet No. 80, Rider FAC, Fuel Adjustment Clause  
 Sheet No. 82, Rider PSM, Profit Sharing Mechanism

**LATE PAYMENT CHARGE**

Payment of the Net Monthly Bill must be received in the Company's office within twenty-one (21) days from the date the bill is mailed by the Company. When not so paid, the Gross Monthly Bill, which is the Net Monthly Bill plus 5%, is due and payable.

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### TERM OF SERVICE

The street lighting units are installed for the life of the unit, terminable on one hundred twenty (120) days written notice by either customer or Company subject to Paragraph 4 or 6 under General Conditions.

### GENERAL CONDITIONS

- (1) If the customer requires the installation of a unit at a location which requires the extension, relocation, or rearrangement of the Company's distribution system, the customer shall, in addition to the monthly charge, pay the Company on a time and material basis, plus overhead charges, the cost of such extension, relocation, or rearrangement, unless in the judgment of the Company no charge should be made. An estimate of the cost will be submitted for approval before work is carried out.
- (2) Installation of street lighting units will be predicated on the ability of the Company to obtain, without cost to itself or the payment or other consideration, all easements and rights-of-way which, in the opinion of the Company, are necessary for the construction, maintenance and operation of the street lights, standards, anchors and/or service wires. If such easements and rights-of-way cannot be so obtained, the Company shall have no obligation hereunder to install such units.
- (3) The time within which the Company will be able to commence or to complete the services to be performed is dependent on the Company's ability to secure the materials required, and the Company shall not be responsible for failure to install these street light units for such reason.
- (4) If an installed street lighting unit is required to be relocated, removed, or replaced with another unit of the same or less rated lamp wattage, the ordering Authority shall pay the Company the sacrifice value of the unit, plus labor and overhead charges, unless in the judgment of the Company no charge should be made. An estimate of the cost will be submitted for approval before work is carried out.
- (5) Lamps and refractors which are maintained by the Company shall be kept in good operating condition by and at the expense of the Company.

In cases of vandalism, the Company will repair the damaged property and the customer shall pay for such repair on a time and material basis, plus overhead charges, unless in the judgment of the Company no charge should be made. An estimate of the cost will be submitted for approval before work is carried out.

- (6) When a street lighting unit reaches end of life or becomes obsolete and parts cannot be reasonably obtained, the Company can remove the unit at no expense to the customer after notifying the customer. The customer shall be given the opportunity to arrange for another type lighting unit provided by the Company.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~August 2, 2021~~ \_\_\_\_\_ in Case No. ~~2021-~~  
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Issued: August 13, 2021

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KY.P.S.C. Electric No. 2  
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**GENERAL CONDITIONS (Contd.)**

- (7) The contribution only provides for replacement of these facilities due to occasional damage or premature malfunction. It does not cover replacement at end of life.

**SERVICE REGULATIONS**

The supplying of, and billing for, service and all conditions applying thereto, are subject to the jurisdiction of the Kentucky Public Service Commission, and to Company's Service Regulations currently in effect, as filed with the Kentucky Public Service Commission, as provided by law.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~August 2, 2021~~ \_\_\_\_\_ in Case No. ~~2021-~~  
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KY. P.S.C. Electric No. 2  
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Duke Energy Kentucky  
1262 Cox Road  
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## RIDER FAC

### FUEL ADJUSTMENT CLAUSE

#### APPLICABLE

In all territory service.

#### AVAILABILITY OF SERVICE

This schedule is a mandatory rider to all electric rate schedules.

- (1) The monthly amount computed under each of the rate schedules to which this fuel clause is applicable shall be increased or (decreased) at a rate per kilowatt-hour of monthly consumption in accordance with the following formula:

$$FuelCostAdjustment = \frac{F(m)}{S(m)} - \$0.0254010.033780 \text{ per kWh}$$

Where F is the expense of fuel in the second preceding month and S is the sales in the second preceding month, as defined below:

- (2) Fuel costs (F) shall be the cost of:
- (a) Fossil fuel consumed in the Company's plants plus the cost of fuel which would have been used in plants suffering forced generation or transmission outages, but less the cost of fuel related to substitute generation, plus
  - (b) The actual identifiable fossil and nuclear fuel costs associated with energy purchased for reasons other than identified in paragraph (c) of this subsection, but excluding the cost of fuel related to purchases to substitute for the forced outages; plus
  - (c) The net energy cost of energy purchases, exclusive of capacity or demand charges (irrespective of the designation assigned to such transaction) when such energy is purchased on an economic dispatch basis. Included therein are such costs as the charges for economy energy purchases and the charges as a result of scheduled outage, all such kinds of energy being purchased by the Company to substitute for its own higher cost energy, and less
  - (d) The cost of fossil fuel recovered through inter-system sales including the fuel costs related to economy energy sales and other energy sold on an economic dispatch basis.

Issued: ~~April 1, 2022~~

Effective: ~~April 4, 2022~~

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KY. P.S.C. Electric No. 2  
~~Eleventh-Twelfth~~ Revised Sheet No.

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**AVAILABILITY OF SERVICE (Contd.)**

(e) The native portion of fuel-related costs charged to the Company by PJM Interconnection LLC includes those costs identified in the following Billing Line Items, as may be amended from time to time by PJM Interconnection LLC: Billing Line Items 1210, 2210, 1215, 1218, 2217, 2218, 1230, 1250, 1260, 2260, 1370, 2370, 1375, 2375, 1400, 1410, 1420, 1430, 1478, 1340, 2340, 1460, 1350, 2350, 1360, 2360, 1470, 1377, 2377, 1480, 1378, 2378, 1490, 1500, 2420, 2220, 1200, 1205, 1220, 1225, 2500, 2510, 1930, 2211, 2215, 2415 and 2930. (⊕)

(f) All fuel costs shall be based on a weighted-average inventory costing. In making the calculations of fuel cost, the forced outage costs to be subtracted shall be no less than the fuel cost related to the lost generation until approval is obtained. 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 fuel itself and necessary charges for transportation of fuel from the point of acquisition to the unloading point, as listed in Account 151 of the FERC Uniform System of Accounts for Public Utilities and Licensees. (⊕)  
(⊕)  
(⊕)

(g) As used herein, the term "forced outages" means 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 Company may, upon proper showing, with the approval of the Commission, include the fuel cost of substitute energy in the adjustment.

(3) Sales (S) shall be determined in kilowatt-hours as follows:

Add:

- (a) net generation
- (b) purchases
- (c) interchange in

Subtract:

- (d) inter-system sales including economy energy and other energy sold on an economic dispatch basis.
- (e) total system losses

Issued: ~~April 1, 2022~~

Effective: ~~April 4, 2022~~

Issued by Amy B. Spiller, President /s/ Amy B. Spiller

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-029**

**REQUEST:**

For the years ending October 31, 2021, and October 31, 2022, provide:

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

**RESPONSE:**

November 1, 2020 to October 31, 2021

- a. Maximum annual system demand = 814 MW on 8/12/2021 at HE 16:00 EST
- b. Average annual demand = 469 MW

November 1, 2021 to October 31, 2022

- a. Maximum annual system demand = 797 MW on 6/14/2022 at HE 17:00 EST
- b. Average annual demand = 472 MW

**PERSON RESPONSIBLE:** Brad Daniel

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-030**

**REQUEST:**

- a. Provide a schedule of the calculation of the 12-month average line loss by month for November 2020 through October 2022.
- b. Describe the actions that Duke Kentucky has taken to reduce line loss during this period.

**RESPONSE:**

- a. Please see STAFF-DR-01-030 Attachment for the 12-month average line loss.
- b. Changes to the Duke Energy Kentucky transmission and distribution systems are based on meeting planning criteria, which are intended to provide reliable system performance in a cost-effective manner. Loss reduction is a secondary goal, which may be considered, when appropriate, in deciding between various alternatives that serve the primary purpose of maintaining system performance. Typical system reinforcement projects do often result in reduced system losses. System projects completed by Duke Energy Kentucky from November 2020 through October 2022 that could have had a loss reduction impact include the following:

Transmission system improvements:

- 1) Woodspoint Substation, new substation to tap the Buffington to Donaldson 138 kV line.
- 2) Woodspoint to Aero 138 kV circuit

- 3) Aero to Oakbrook 138 kV circuit
- 4) Oakbrook 138-69 kV transformer

Distribution system improvements:

- 1) Aero Substation, new substation, four 22.4 MVA transformers, eight new distribution circuits
- 2) Crescent 46 new distribution circuit
- 3) Longbranch Substation, existing substation, added new 22.4 MVA transformer, two new distribution circuits
- 4) Dry Ridge Substation, existing substation, added new 10.5 MVA transformer and new distribution circuit

**PERSON RESPONSIBLE:**

Libbie S. Miller  
Brad Daniel

Duke Energy Kentucky  
 12 Month Average Line Loss  
 November 2020 - October 2022

(1)	(2)	(3)	(4)	(5)	(6)
Month	Total kWh Sources 12 Months Ended Current Month	Total kWh System Losses 12 Months Ended Current Month	12 Months End % Losses	Total kWh Sources Current Month	Current Month Calculated System Losses (kWh)
			(3) / (2)		(4) x (5)
Nov-20	4,092,895,470	259,430,178	6.30%	294,107,270	18,528,758
Dec-20	4,049,238,630	198,162,685	4.90%	352,643,060	17,279,510
Jan-21	4,055,568,630	204,371,401	5.00%	364,608,230	18,230,412
Feb-21	4,060,949,460	195,571,241	4.80%	350,170,990	16,808,208
Mar-21	4,060,310,870	198,791,941	4.90%	320,650,590	15,711,879
Apr-21	4,083,302,760	196,210,339	4.80%	289,143,570	13,878,891
May-21	4,106,556,230	198,895,997	4.80%	316,723,520	15,202,729
Jun-21	4,118,672,520	198,574,847	4.80%	375,505,310	18,024,255
Jul-21	4,091,076,650	195,881,480	4.80%	406,142,520	19,494,841
Aug-21	4,116,230,200	192,500,323	4.70%	418,253,320	19,657,906
Sep-21	4,128,447,060	182,308,980	4.40%	344,509,500	15,158,418
Oct-21	4,142,483,100	180,115,906	4.30%	310,025,220	13,331,084
Nov-21	4,161,886,290	188,070,474	4.50%	313,510,460	14,107,971
Dec-21	4,142,959,670	196,145,250	4.70%	333,716,440	15,684,673
Jan-22	4,174,165,470	204,845,303	4.90%	395,814,030	19,394,887
Feb-22	4,159,016,860	207,006,831	5.00%	335,022,380	16,751,119
Mar-22	4,178,073,020	231,412,725	5.50%	339,706,750	18,683,871
Apr-22	4,189,377,290	244,991,007	5.80%	300,447,840	17,425,975
May-22	4,211,256,980	291,677,760	6.90%	338,603,210	23,363,621
Jun-22	4,215,016,030	377,711,502	9.00%	379,264,360	34,133,792
Jul-22	4,242,179,360	300,885,856	7.10%	433,305,850	30,764,715
Aug-22	4,225,666,720	254,727,974	6.00%	401,740,680	24,104,441
Sep-22	4,227,561,660	233,048,481	5.50%	346,404,440	19,052,244
Oct-22	4,216,607,640	262,387,463	6.20%	299,071,200	18,542,414

**Duke Energy Kentucky**  
**Case No. 2023-00012**  
**STAFF First Set of Data Requests**  
**Date Received: September 6, 2023**

**STAFF-DR-01-0031**

**REQUEST:**

Describe in detail any hedging or hedging related activities that Duke Kentucky uses in relation to power purchases. Include an explanation as to whether the Commission approved the hedging activities or the utility implemented hedging pursuant to internal company policies. If the hedging was pursuant to internal policies, provide a copy of the policy and an explanation of how long the hedging activity has been ongoing.

**RESPONSE:**

During the review period Duke Energy Kentucky executed 14 monthly and daily trades totaling 124,272 MWhrs for May 2022 delivery, buying power hedges for an East bend planned outage. During this period the Commission approved Back-up Power Supply Order hedging plan was in place. As of June 1, 2022 Duke Energy Kentucky's Back-up Power Plan expired and was not renewed by the Commission. Duke Energy Kentucky filed a new financial hedge plan in James McClay's testimony in Case Number 2022-00372 dated December 1, 2022, proposing to incorporate forced outages, planned outages and economic hedges to mitigate volatile power price exposure for the customers.

**PERSON RESPONSIBLE:** Jim McClay

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**PUBLIC STAFF-DR-01-032  
(As to Attachment only)**

**REQUEST:**

Provide the most recent projected fuel requirements for the years 2023 and 2024 in tons for coal, MMBtu for natural gas, and dollars.

**RESPONSE:**

**CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachment only)**

Please see STAFF-DR-01-032 Confidential Attachment for the coal and natural gas forecast.

**PERSON RESPONSIBLE:** Libbie S. Miller

**CONFIDENTIAL PROPRIETARY TRADE  
SECRET**

**STAFF-DR-01-032  
CONFIDENTIAL ATTACHMENT**

**FILED UNDER SEAL**



**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**PUBLIC STAFF-DR-01-033  
(As to Attachment only)**

**REQUEST:**

Provide the most recent sales projections for the years 2023 and 2024 in kWh and dollars.

**RESPONSE:**

**CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachment only)**

Please see STAFF-DR-01-033 Confidential Attachment for the sales projections.

**PERSON RESPONSIBLE:** Libbie S. Miller

**CONFIDENTIAL PROPRIETARY TRADE  
SECRET**

**STAFF-DR-01-033  
CONFIDENTIAL ATTACHMENT**

**FILED UNDER SEAL**

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**PUBLIC STAFF-DR-01-034  
(As to Attachment only)**

**REQUEST:**

Provide the planned maintenance schedule for each of the generating units for the years 2023 and 2024.

**RESPONSE:**

**CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachment only)**

Please see STAFF-DR-01-034 Confidential Attachment.

**PERSON RESPONSIBLE:** Brad Daniel

**CONFIDENTIAL PROPRIETARY TRADE  
SECRET**

**STAFF-DR-01-034  
CONFIDENTIAL ATTACHMENT**

**FILED UNDER SEAL**

**Duke Energy Kentucky**  
**Case No. 2023-00012**  
**STAFF First Set of Data Requests**  
**Date Received: September 6, 2023**

**STAFF-DR-01-035**

**REQUEST:**

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 Duke Kentucky becomes aware of any issues during the course of this proceeding.

**RESPONSE:**

PJM implemented Reserve Price formation changes on October 1, 2022. The main impact of the reserve market changes, which consolidated Tier 1 and Tier 2 Synchronized Reserve products and aligned reserve procurement in PJM's Day-Ahead and Real-Time markets.

As a result of these changes to the PJM Reserve Market, PJM began flowing through new Billing Line Items (BLIs) for both charges and credits on the monthly invoices to Duke Energy Kentucky. These new BLIs have not been charged or credited to the customer through the FAC, as the Commission does not allow Duke Energy Kentucky to pass through unlisted items through the FAC rate without first gaining Commission approval. The new BLIs that are appropriate to include in the FAC will not be included unless and until Commission approval is received. This would only be done on a prospective basis and will not impact the two year period under review in this proceeding.

**PERSON RESPONSIBLE:** Brad Daniel  
Libbie S. Miller

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-036**

**REQUEST:**

Provide the number of Duke Kentucky's coal purchase contracts that included transportation costs and those that did not from November 1, 2020, through October 31, 2022.

- a. Explain how it is determined whether transportation costs will be included in the coal purchase contract.
- b. When transportation is contracted for separately from the coal contract, explain whether Duke Kentucky issues requests for proposals (RFP) for this service.
  - (1) If yes, state how often this occurs, how many vendors are included in the RFP, and how is it determined which vendors will receive the RFP.
  - (2) State whether Duke Kentucky uses or contracts with any related parties for transportation of its coal purchases. If yes, provide the name of the related party and nature of the relationship, the period it has contracted with the party, and copies of any contracts with the related party if not previously filed with the Commission.
- c. Explain in detail Duke Kentucky's policies and procedures for entering into transportation contracts.

**RESPONSE:**

From November 1, 2020, through October 31, 2022, Duke Energy Kentucky's coal purchase contracts did not include transportation costs.

- a. With respect to the procurement of coal purchase contracts, Duke Energy Kentucky issues a written or oral solicitation/request for coal supply proposals. The Company also separately issues a similar request either written or oral for barge transportation.
- b. As stated above, Duke Energy Kentucky issues separate request for proposals (RFP) for coal and barge transportation.

(1) Yes, Duke Energy Kentucky issued a transportation request for proposal in September 2021 for barge transportation. The contract term was for two years (January 1, 2022 - December 31, 2023) with the option to extend for a year. The request for proposal was sent to all known potential transportation suppliers and printed in industry publications to ensure all potential respondents are aware.

(2) No, Duke Kentucky does not use or contract with any related parties for transportation of its coal purchases.

- c. Duke Energy's Coal and Reagent Origination Procedure covers coal transportation origination. As laid out in the Procedure, all transportation contracts are entered into after a request for proposal has been evaluated and an award has been issued to a transportation company. Under no circumstances shall Duke Energy Kentucky authorize shipments prior to the execution of a contract. Prior to execution, transportation contracts are reviewed and meet the requirements of the Credit Risk Management group and the Legal Department.

**PERSON RESPONSIBLE:** Kimberly Hughes

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**PUBLIC STAFF-DR-01-037  
(As to Attachment only)**

**REQUEST:**

Explain how purchase power costs are accounted for in the calculation of the FAC when Duke Kentucky experiences a planned generation outage and purchases power to meet load (i.e., whether the entire amount of the purchase power recorded in the calculation, or there is a limit as to the amount recorded). If there is a limit, explain the basis for the limitation and how it is calculated. If there is no limit, explain the basis for including 100 percent of the purchase power costs.

**RESPONSE:**

**CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachment only)**

The cost of purchased power included in the FAC when Duke Energy Kentucky experiences a planned generation outage is subject to a benchmark test.

The benchmark test compares the hourly \$/MWh price of purchased power to the average of the \$/MWh fuel cost of the Woodsdale station at minimum and maximum loads. If the purchased power cost in an hour exceeds the monthly benchmark price, then the cost of purchased power in that hour above the benchmark price is excluded from the FAC. The amount above the benchmark is removed in the monthly FAC filing on Schedules 2, 4, and 6 in Section B-Purchases, line description "Less purchases above highest cost units".



Please see STAFF-DR-01-037 Confidential Attachment for an example of the benchmark calculation.

**PERSON RESPONSIBLE:** Scott Burnside

**CONFIDENTIAL PROPRIETARY TRADE  
SECRET**

**STAFF-DR-01-037  
CONFIDENTIAL ATTACHMENT**

**FILED UNDER SEAL**

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-038**

**REQUEST:**

Explain how purchase power costs are accounted for in the calculation of the FAC when Duke Kentucky is not experiencing a generation outage but must purchase power in order to meet demand (i.e., whether the entire amount of the purchase power recorded in the calculation, or there is a limit as to the amount recorded). If there is a limit, explain the basis for the limitation and how it is calculated. If there is no limit, explain the basis for including 100 percent of the purchase power costs.

**RESPONSE:**

The cost of purchased power included in the FAC when Duke Energy Kentucky is not experiencing a generation outage but must purchase power in order to meet customer demand is subject to the same benchmark test described in STAFF-DR-01-037.

The benchmark test compares the hourly \$/MWh price of purchased power to the average of the \$/MWh fuel cost of the Woodsdale station at minimum and maximum loads. If the purchased power cost in an hour exceeds the benchmark price, then cost of purchased power in that hour above the benchmark price is excluded from the FAC. The amount above the benchmark is removed in the monthly FAC filing on Schedules 2, 4, and 6 in Section B-Purchases, line description "Less purchases above highest cost units".

Please see previously provided STAFF-DR-01-037 Confidential Attachment for an example of the benchmark calculation.

**PERSON RESPONSIBLE:** Scott Burnside

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-039**

**REQUEST:**

Provide the amount, by month, of costs excluded from recovery from the FAC related to non-economy purchases.

- a. State whether Duke Kentucky otherwise recovers the excluded costs.
- b. If Duke Kentucky does recover the excluded costs, explain in detail how those costs are recovered.
- c. Provide the amount excluded from recovery during the review period that, if applicable, will otherwise recovered.

**RESPONSE:**

The amount and month of costs excluded from recovery in the FAC related to non-economy purchases benchmarked against Duke Energy Kentucky’s highest cost unit calculation described in STAFF-DR-01-037 and STAFF-DR-01-038 occurred in one month out of the 24 months in this 2-year review period and is shown as follows:

<u>Month</u>	<u>Amount</u>
June 2022	\$5,919

- a. Duke Energy Kentucky does not recover the non-economy purchases that are excluded from the FAC.
- b. N/A
- c. N/A

**PERSON RESPONSIBLE:** Libbie S. Miller

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-040**

**REQUEST:**

Provide the amount of current FAC fuel procurement or purchase power costs that is included in Duke Kentucky's base rates.

**RESPONSE:**

The amount of FAC fuel procurement or purchased power costs included in Duke Energy Kentucky's base rates was approved in Case No. 2021-0057 and includes \$5.4 million for fuel procurement and \$1.8 million for purchase power costs.

**PERSON RESPONSIBLE:** Libbie S. Miller

**Duke Energy Kentucky  
Case No. 2023-00012  
STAFF First Set of Data Requests  
Date Received: September 6, 2023**

**STAFF-DR-01-041**

**REQUEST:**

Provide the amount of non-FAC fuel procurement or purchase power costs that are otherwise recovered in Duke Kentucky's base rates.

**RESPONSE:**

Duke Energy Kentucky's non-FAC fuel procurement is for non-native sales and is not recovered in base rates. These costs are shared with the customers in the Profit Sharing Mechanism (PSM) along with the proceeds from the non-native sales.

Duke Energy Kentucky's base rates include \$1.6 million for forced outage purchase power costs not recovered in the FAC. Actual forced outage purchased power costs in a calendar 12-month period over or under the \$1.6 million in base rates is deferred. As stated in the response to STAFF-DR-01-039, non-economy purchase power is not recovered in base rates.

**PERSON RESPONSIBLE:** Libbie S. Miller