

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

ELECTRONIC EXAMINATION OF THE )  
APPLICATION OF THE FUEL ADJUSTMENT )  
CLAUSE OF DUKE ENERGY KENTUCKY, ) Case No. 2019-00006  
INC. FROM NOVEMBER 1, 2016 THROUGH )  
OCTOBER 31, 2018 )

---

**PETITION OF DUKE ENERGY KENTUCKY, INC.**  
**FOR CONFIDENTIAL TREATMENT OF INFORMATION**  
**CONTAINED IN ITS RESPONSES TO COMMISSION STAFF'S**  
**FIRST SET OF DATA REQUESTS ISSUED FEBRUARY 11, 2019**

---

Duke Energy Kentucky, Inc. (Duke Energy Kentucky or Company), pursuant to 807 KAR 5:001, Section 13, respectfully requests the Commission to classify and protect certain information provided by Duke Energy Kentucky in its responses to Data Request Nos. 4, 22, 30, 31, and 32, as requested by Commission Staff (Staff) in this case on February 11, 2019. The information that Staff seeks through discovery and for which Duke Energy Kentucky now seeks confidential treatment (Confidential Information), shows: written solicitations for coal supplies;<sup>1</sup> the Company's projected fuel requirements both in times and dollars;<sup>2</sup> the projected total kilowatt hours (kWh) used to calculate base fuel costs;<sup>3</sup> and sales forecasts in both kWh and dollars;<sup>4</sup> and planned future outages and maintenance schedules by plant.<sup>5</sup>

---

<sup>1</sup> See Data Request No. 4.

<sup>2</sup> See Data Request No. 22.

<sup>3</sup> See Data Request No. 30.

<sup>4</sup> See Data Request No. 31.

<sup>5</sup> See Data Request No. 32.

The responses in Data Request Nos. 4, 22, 30, 31, and 32, contain sensitive information, the disclosure of which would injure Duke Energy Kentucky and its competitive position and business interests. The Company's response to No. 4 includes information describing the Company's written solicitations for coal supplies and responses thereto and its strategies for procuring fuel. If publicly disclosed, this information would give Duke Energy Kentucky's vendors a commercial advantage in responding to future solicitations. Similarly, the list of projected outages and costs, as contained in responses to No. 32, will grant vendors a distinct advantage in that they would be able to anticipate Duke Energy Kentucky's maintenance schedules. If Duke Energy Kentucky's contractors and vendors have access to the number, duration, and causes of outages, it would again give them a distinct advantage in anticipating maintenance schedules. The response to No. 22 provides Duke Energy Kentucky's anticipated future fuel requirements and costs. Duke Energy Kentucky's response to No. 30 provides a forecast of projected fuel consumption over the next two years. In response to Data Request No. 31, the Company provides a list of projected sales by customer class, including anticipated revenue assuming specific total KWH sales projections as part of its answer. Together, these three responses could provide power marketing competitors and fuel vendors with knowledge regarding Duke Energy Kentucky's operating costs and commodity positions. This would allow them to potentially manipulate the marketplace so as to unnecessarily cause consumers to pay more for electricity than they otherwise would.

In support of this Petition, Duke Energy Kentucky states:

1. The Kentucky Open Records Act exempts from disclosure certain commercial information. KRS 61.878(1)(c). To qualify for this exemption and, therefore,

maintain the confidentiality of the information, a party must establish that disclosure of the commercial information would permit an unfair advantage to competitors of that party. Public disclosure of the information identified herein would, in fact, prompt such a result for the reasons set forth below.

2. The Commission's first request asks Duke Energy Kentucky to submit copies of written solicitations for coal suppliers, that include a summary of the responses received in the Company selection criteria (response No. 4). The response also includes documentation of the responses selected as part of the solicitation and describes the Company's strategy for procuring fuel. Public disclosure of this information would reveal commercially valuable information about the manner in which Duke Energy Kentucky conducts solicitations for coal supplies and would reveal bid data gathered from a high percentage of companies in the coal industry. This information, if disclosed, would have the potential to cause market manipulations in the future and may impair the Company's ability to conduct further solicitations by chilling the response from potential suppliers.

3. Likewise, public disclosure of information regarding Duke Energy Kentucky's plant maintenance schedules (response No. 32) would provide critical "downtime" information that would necessarily impair Duke Energy Kentucky's ability to negotiate with prospective contractors and vendors. If Duke Energy Kentucky's prospective contractors and vendors have access to the number, duration, and timing of such outages, it would give them a distinct advantage in anticipating maintenance schedules and plant condition and operating characteristics. This would very likely impair Duke Energy Kentucky's ability to negotiate with prospective contractors and vendors.

4. Public disclosure of projected fuel requirements (response No. 22) would also afford Duke Energy Kentucky's competitors and vendors a distinct competitive advantage in any contractual negotiations. Vendors and competitors would know Duke Energy Kentucky's projected monthly fuel requirements for the next two years. This information could be used against Duke Energy Kentucky as it negotiates to satisfy its projected requirements.

5. Similarly, public disclosure of projected forecast demand and sales revenue (response No. 30) would afford Duke Energy Kentucky's competitors a distinct competitive advantage in bidding for and securing new bulk power loads, and would give an obvious advantage to Duke Energy Kentucky's wholesale power purchasers and sellers in any contractual negotiations.

6. The final request is for any proposed changes in base fuel rates. While this information is not confidential, Duke Energy Kentucky's response discloses sensitive and proprietary kWh sales projections for the calendar years 2019 and 2020 (response No. 31). The sales projections should be afforded confidential protections as they are internally-derived figures that would give competitors, marketers and vendors a competitive advantage in any existing or prospective commercial relationship involving Duke Energy Kentucky. Maintaining the confidentiality of the projected kWh sales is necessary to protect the interests of both the Company and its customers. As afforded in similar proceedings, Duke Energy Kentucky is only seeking confidential protection for the information beginning in paragraph two of the response.<sup>6</sup>

---

<sup>6</sup> See *In the Matter of An Examination of the Application of the Fuel Adjustment Clause of Duke Energy Kentucky, Inc. from November 1, 2010 through October 31, 2012, Case No 2012-00554 (Order)* (Ky.P.S.C. August 27, 2013).

7. The Confidential Information in response to Nos. 4, 22, 30, 31, and 32 was developed internally by Duke Energy Corporation and Duke Energy Kentucky personnel, is not on file with any public agency, and is not available from any commercial or other source outside of Duke Energy Kentucky. The aforementioned Confidential Information, in all six responses, is distributed within Duke Energy Kentucky, only to those who must have access for business reasons, and is generally recognized as confidential and proprietary in the energy industry.

8. The Confidential Information for which Duke Energy Kentucky is seeking confidential treatment is not known outside of Duke Energy Corporation.

9. The Commission has treated the same information described herein as confidential in prior responses to the same data requests provided by Duke Energy Kentucky (Case No. 2012-00554).<sup>7</sup>

10. Duke Energy Kentucky does not object to limited disclosure of the confidential information described herein, pursuant to an acceptable protective agreement, with the Attorney General or other intervenors with a legitimate interest in reviewing the same for the purpose of participating in this case.

11. This information was, and remains, integral to Duke Energy Kentucky's effective execution of business decisions. And such information is generally regarded as confidential or proprietary. Indeed, as the Kentucky Supreme Court has found, "information concerning the inner workings of a corporation is 'generally accepted as confidential or proprietary.'" *Hoy v. Kentucky Industrial Revitalization Authority*, 904 S.W.2d 766, 768 (Ky. 1995).

---

<sup>7</sup> *Id.*

12. In accordance with the provisions of 807 KAR 5:001, Section 13(3), the Company is filing one copy of the Confidential Information separately under seal, and one copy without the confidential information included.

13. Duke Energy Kentucky respectfully requests that the Confidential Information be withheld from public disclosure for a period of ten years. This will assure that the Confidential Information – if disclosed after that time – will no longer be commercially sensitive so as to likely impair the interests of the Company or its customers if publicly disclosed.

14. To the extent the Confidential information becomes generally available to the public, whether through filings required by other agencies or otherwise, Duke Energy Kentucky will notify the Commission and have its confidential status removed, pursuant to 807 KAR 5:001 Section 13(10)(a).

WHEREFORE, Duke Energy Kentucky, Inc., respectfully requests that the Commission classify and protect as confidential the specific information described herein.

Respectfully submitted,

DUKE ENERGY KENTUCKY, INC.

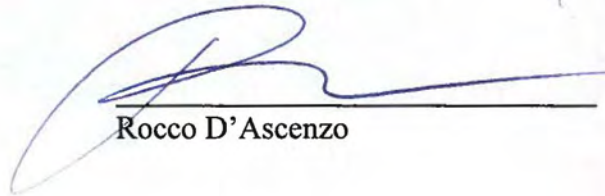


~~Rocco O. D'Ascenzo~~  
Deputy General Counsel  
Duke Energy Business Services LLC  
139 East Fourth Street, 1303-Main  
Cincinnati, Ohio 45201-0960  
Phone: (513) 287-4359  
Fax: (513) 287-4385  
E-mail: [rocco.d'ascenzo@duke-energy.com](mailto:rocco.d'ascenzo@duke-energy.com)  
*Counsel for Duke Energy Kentucky, Inc.*

**CERTIFICATE OF SERVICE**

I hereby certify that a copy of the foregoing filing was served on the following via  
overnight mail, this 25<sup>th</sup> day of February 2019:

Rebecca W. Goodman  
The Office of the Attorney General  
Utility Intervention and Rate Division  
700 Capital Avenue, Suite 20  
Frankfort, Kentucky 40601



Rocco D'Ascenzo

VERIFICATION

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

The undersigned, Brett Phipps, Managing Direct – Fuel Procurement, 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.

  
Brett Phipps, Affiant

Subscribed and sworn to before me by Brett Phipps on this 25<sup>th</sup> day of February, 2019.

  
NOTARY PUBLIC

My Commission Expires:

MARY B VICKNAIR  
NOTARY PUBLIC  
Davie County  
North Carolina  
My Commission Expires Sept. 21, 2022



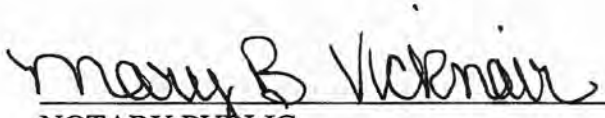
**VERIFICATION**

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

The undersigned, John D. Swez, Director of General Dispatch & Operations, Power 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 18 day of February, 2019.

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

My Commission Expires:

**MARY B VICKNAIR  
NOTARY PUBLIC  
Davie County  
North Carolina  
My Commission Expires Sept. 21, 2022**

**VERIFICATION**

STATE OF OHIO                    )  
  )  
COUNTY OF HAMILTON        )        **SS:**

The undersigned, Theodore H. Czupik, Jr., Rates & Regulatory Strategy Manager, 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.

Theodore H. Czupik Jr.  
Theodore H. Czupik, Jr., Affiant

Subscribed and sworn to before me by Theodore H. Czupik, Jr., on this 25<sup>th</sup> day of February, 2019.



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

Adele M. Frisch  
NOTARY PUBLIC

My Commission Expires: 1/5/2024

**KyPSC Case No. 2019-00006**  
**TABLE OF CONTENTS**

| <b><u>DATA REQUEST</u></b> | <b><u>WITNESS</u></b>           | <b><u>TAB NO.</u></b> |
|----------------------------|---------------------------------|-----------------------|
| STAFF-DR-01-001            | Brett Phipps .....              | 1                     |
| STAFF-DR-01-002            | Brett Phipps .....              | 2                     |
| STAFF-DR-01-003            | Brett Phipps .....              | 3                     |
| STAFF-DR-01-004            | Brett Phipps .....              | 4                     |
| STAFF-DR-01-005            | Brett Phipps .....              | 5                     |
| STAFF-DR-01-006            | Brett Phipps .....              | 6                     |
| STAFF-DR-01-007            | John Swez<br>Brett Phipps ..... | 7                     |
| STAFF-DR-01-008            | Brett Phipps .....              | 8                     |
| STAFF-DR-01-009            | Brett Phipps .....              | 9                     |
| STAFF-DR-01-010            | Brett Phipps .....              | 10                    |
| STAFF-DR-01-011            | Brett Phipps .....              | 11                    |
| STAFF-DR-01-012            | John Swez .....                 | 12                    |
| STAFF-DR-01-013            | Ted Czupik .....                | 13                    |
| STAFF-DR-01-014            | Ted Czupik<br>John Swez .....   | 14                    |
| STAFF-DR-01-015            | John Swez .....                 | 15                    |

|                 |                               |    |
|-----------------|-------------------------------|----|
| STAFF-DR-01-016 | Ted Czupik<br>John Swez ..... | 16 |
| STAFF-DR-01-017 | John Swez .....               | 17 |
| STAFF-DR-01-018 | Brett Phipps .....            | 18 |
| STAFF-DR-01-019 | Brett Phipps .....            | 19 |
| STAFF-DR-01-020 | Brett Phipps .....            | 20 |
| STAFF-DR-01-021 | Brett Phipps .....            | 21 |
| STAFF-DR-01-022 | Ted Czupik .....              | 22 |
| STAFF-DR-01-023 | Ted Czupik .....              | 23 |
| STAFF-DR-01-024 | Ted Czupik .....              | 24 |
| STAFF-DR-01-025 | Ted Czupik .....              | 25 |
| STAFF-DR-01-026 | Ted Czupik .....              | 26 |
| STAFF-DR-01-027 | Ted Czupik .....              | 27 |
| STAFF-DR-01-028 | John Swez .....               | 28 |
| STAFF-DR-01-029 | Ted Czupik<br>John Swez ..... | 29 |
| STAFF-DR-01-030 | Ted Czupik .....              | 30 |
| STAFF-DR-01-031 | Ted Czupik .....              | 31 |
| STAFF-DR-01-032 | John Swez .....               | 32 |
| STAFF-DR-01-033 | John Swez .....               | 33 |

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**STAFF-DR-01-001**

**REQUEST:**

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

**RESPONSE:**

For the period under review from May 1, 2018 through October 31, 2018, please see STAFF-DR-01-001 Attachment.

**PERSON RESPONSIBLE:**           Brett Phipps

**Duke Energy Kentucky**  
**Case No. 2019-00006 - Staff First Set Data Requests**  
**Coal purchased May 1, 2018 - November 30, 2018**

| <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> |
|---------------------------------|-------------------------|----------------------|-------------------|------------------------------|---------------------------|
| Alpha/Contura Coal Sales        | 17,419                  | Contract             | DEK 30810         | 2/12/2016                    |                           |
| Central Coal                    | 111,224                 | Contract             | DEK 31641         | 3/28/2017                    |                           |
| Oxford Mining                   | 81,571                  | Contract             | DEK 31741         | 6/8/2017                     |                           |
| Western KY (formerly Armstrong) | 72,346                  | Contract             | DEK32687          | 1/23/2018                    |                           |
| Alliance Coal LLC               | 367,980                 | Contract             | DEK32250          | 1/22/2018                    |                           |
| <b>Total</b>                    | <b><u>650,540</u></b>   |                      |                   |                              |                           |
|                                 | <b>100%</b>             | <b>Contract</b>      |                   |                              |                           |
|                                 | <b>0%</b>               | <b>Spot</b>          |                   |                              |                           |
|                                 | <b>100%</b>             | <b>Total</b>         |                   |                              |                           |

**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:

- a. Contract or purchase order number;
- b. The supplier's name;
- c. The location(s) of production facilities from which the coal is sourced;
- d. The method of delivery, (i.e., barge, truck, rail, other);
- e. The actual quantity received during the review period; and
- f. Current price paid per ton.

**RESPONSE:**

- a. 32250
- b. Alliance Coal, LLC
- c. Tunnel Ridge, Ohio County, WV
- d. Barge
- e. 367,980
- f. \$43.00

- a. 30810
- b. Contura Coal Sales, LLC
- c. Cumberland Mine, Waynesburg, PA
- d. Barge
- e. 17,420
- f. \$42.50

- a. 31641
- b. Central Coal Company as agent Knight Hawk Coal LLC
- c. Knight Hawk's Prairie Eagle Mine, IL
- d. Barge
- e. 111,224
- f. 5/1/2018-6/30/2018=\$36.28, 7/1/18-9/30/18=\$36.45, 10/1/18-10/31/18=\$36.50

- a. 31741
- b. Oxford Mining Company, LLC
- c. Sexton Mine, Harrison County, OH
- d. Barge
- e. 81,571
- f. \$36.00



- a. 32687
- b. Western Kentucky (formerly Armstrong)
- c. Midway Mine, Beaver Dam, KY
- d. Barge
- e. 72,346
- f. \$40.25

**PERSON RESPONSIBLE:**        Brett Phipps

**Duke Energy Kentucky**  
**Case No. 2019-00006**  
**STAFF First Set Data Requests**  
**Date Received: February 11, 2019**

**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.
- e. (1) State whether any significant changes in the current coal inventory target are expected within the next 12 months.  
(2) If so, state the expected change, and the reasons for this change.

**RESPONSE:**

- a. Duke Energy Kentucky's total aggregate inventory across the system as of October 31, 2018 was 272,939 tons, or 42 days.
- b. The number of days' supply is computed by dividing the ending coal inventory number stated in tons by the full load burn of 6,500 tons per day.
- c. The target coal inventory level is an annual average of 45 days 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.
- e. (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:** Brett Phipps

**REQUEST:**

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

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

**RESPONSE:**

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

- a. Duke Energy issued a written solicitation during September of 2018 requesting proposals for coal to be delivered during years 2019 - 2021. The quantity in the solicitation was not limited as the Company requested proposals for the full amounts the vendors can offer which enabled the Company to make decisions regarding the amounts to be purchased after evaluations were completed.

- b. The September 2018 coal solicitation was sent to 26 vendors with 26 vendors providing 195 bids and 4 bids selected for purchase by Duke Energy Kentucky. Please see STAFF-DR-01-004 Confidential Attachment containing the proposal evaluation rankings.

**PERSON RESPONSIBLE:**        Brett Phipps

**CONFIDENTIAL PROPRIETARY TRADE  
SECRET**

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

**FILED UNDER SEAL**

**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 time period over which deliveries were requested, and the generating unit(s) for which the coal was intended.
- b. For each solicitation, identify all vendors solicited and the vendor(s) selected. Provide the bid tabulation sheet or other document that ranks the proposals. (This document shall identify all vendors who made offers.) State the reasons for each selection. For each lowest-cost bid not selected, explain why the bid was not selected.

**RESPONSE:**

- a. Duke Energy Kentucky did not issue an oral coal supply solicitation during May 1, 2018 through November 30, 2018.
- b. N/A

**PERSON RESPONSIBLE:** Brett Phipps

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**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, 2018 to October 31, 2018.

**PERSON RESPONSIBLE:**        Brett Phipps



| Spot/Contract | Trade Number | Trade Date | Counterpart          | Delivery Period | Start Date | End Date   | Buy/Sell | Qty    | Qty UOM | Fixed Price | Ext Amount   |
|---------------|--------------|------------|----------------------|-----------------|------------|------------|----------|--------|---------|-------------|--------------|
| <b>May-18</b> |              |            |                      |                 |            |            |          |        |         |             |              |
| Spot          | 3572956      | 05/02/2018 | Eco-Energy LLC       | May 2018        | 05/02/2018 | 05/02/2018 | Buy      | 15,000 | MMBtu   | \$ 2.80     | \$ 42,000.00 |
| Spot          | 3572959      | 05/02/2018 | Spotlight Energy     | May 2018        | 05/02/2018 | 05/02/2018 | Buy      | 10,000 | MMBtu   | \$ 2.75     | \$ 27,500.00 |
| Spot          | 3572969      | 05/02/2018 | NJR Energy Serv G    | May 2018        | 05/02/2018 | 05/02/2018 | Buy      | 3,013  | MMBtu   | \$ 3.50     | \$ 10,545.50 |
| Spot          | 3576620      | 05/15/2018 | Spotlight Energy     | May 2018        | 05/15/2018 | 05/15/2018 | Buy      | 10,000 | MMBtu   | \$ 2.88     | \$ 28,800.00 |
| Spot          | 3576800      | 05/15/2018 | NJR Energy Serv G    | May 2018        | 05/15/2018 | 05/15/2018 | Buy      | 12,000 | MMBtu   | \$ 3.38     | \$ 40,560.00 |
| Spot          | 3579067      | 05/24/2018 | Eco-Energy LLC       | May 2018        | 05/24/2018 | 05/24/2018 | Buy      | 20,000 | MMBtu   | \$ 3.05     | \$ 61,000.00 |
| Spot          | 3579426      | 05/25/2018 | Eco-Energy LLC       | May 2018        | 05/25/2018 | 05/25/2018 | Buy      | 8,000  | MMBtu   | \$ 3.02     | \$ 24,160.00 |
| Spot          | 3579752      | 05/26/2018 | NJR Energy Serv G    | May 2018        | 05/25/2018 | 05/25/2018 | Buy      | 3,000  | MMBtu   | \$ 3.55     | \$ 10,650.00 |
| Spot          | 3579889      | 05/27/2018 | Spotlight Energy     | May 2018        | 05/27/2018 | 05/27/2018 | Buy      | 15,000 | MMBtu   | \$ 3.05     | \$ 45,750.00 |
| Spot          | 3579930      | 05/27/2018 | Eco-Energy LLC       | May 2018        | 05/27/2018 | 05/27/2018 | Buy      | 25,000 | MMBtu   | \$ 3.02     | \$ 75,500.00 |
| Spot          | 3580346      | 05/29/2018 | Spotlight Energy     | May 2018        | 05/29/2018 | 05/29/2018 | Buy      | 10,000 | MMBtu   | \$ 2.95     | \$ 29,500.00 |
| Spot          | 3580458      | 05/29/2018 | Spotlight Energy     | May 2018        | 05/29/2018 | 05/29/2018 | Buy      | 10,000 | MMBtu   | \$ 2.95     | \$ 29,500.00 |
| Spot          | 3580826      | 05/30/2018 | Spotlight Energy     | May 2018        | 05/30/2018 | 05/30/2018 | Buy      | 10,000 | MMBtu   | \$ 2.95     | \$ 29,500.00 |
| Spot          | 3580833      | 05/30/2018 | Eco-Energy LLC       | May 2018        | 05/30/2018 | 05/30/2018 | Buy      | 10,000 | MMBtu   | \$ 2.90     | \$ 29,000.00 |
| Spot          | 3580835      | 05/30/2018 | Spotlight Energy     | May 2018        | 05/30/2018 | 05/30/2018 | Buy      | 5,000  | MMBtu   | \$ 3.00     | \$ 15,000.00 |
| Spot          | 3580836      | 05/30/2018 | Eco-Energy LLC       | May 2018        | 05/30/2018 | 05/30/2018 | Buy      | 10,000 | MMBtu   | \$ 3.00     | \$ 30,000.00 |
| Spot          | 3581095      | 05/31/2018 | Eco-Energy LLC       | May 2018        | 05/31/2018 | 05/31/2018 | Buy      | 30,000 | MMBtu   | \$ 3.10     | \$ 93,000.00 |
| <b>Jun-18</b> |              |            |                      |                 |            |            |          |        |         |             |              |
| Spot          | 3582072      | 06/02/2018 | NJR Energy Serv G    | Jun 2018        | 06/02/2018 | 06/02/2018 | Buy      | 5,000  | MMBtu   | \$ 3.50     | \$ 17,500.00 |
| Spot          | 3582075      | 06/02/2018 | Eco-Energy LLC       | Jun 2018        | 06/02/2018 | 06/02/2018 | Buy      | 10,000 | MMBtu   | \$ 3.05     | \$ 30,500.00 |
| Spot          | 3582077      | 06/02/2018 | Spotlight Energy     | Jun 2018        | 06/02/2018 | 06/02/2018 | Buy      | 25,000 | MMBtu   | \$ 3.08     | \$ 77,000.00 |
| Spot          | 3582598      | 06/05/2018 | Eco-Energy LLC       | Jun 2018        | 06/05/2018 | 06/05/2018 | Buy      | 5,000  | MMBtu   | \$ 2.95     | \$ 14,750.00 |
| Spot          | 3582702      | 06/05/2018 | Spotlight Energy     | Jun 2018        | 06/05/2018 | 06/05/2018 | Buy      | 10,000 | MMBtu   | \$ 3.05     | \$ 30,500.00 |
| Spot          | 3583027      | 06/06/2018 | Eco-Energy LLC       | Jun 2018        | 06/06/2018 | 06/06/2018 | Buy      | 10,000 | MMBtu   | \$ 3.05     | \$ 30,500.00 |
| Spot          | 3583222      | 06/07/2018 | Spotlight Energy     | Jun 2018        | 06/07/2018 | 06/07/2018 | Buy      | 10,000 | MMBtu   | \$ 3.03     | \$ 30,300.00 |
| Spot          | 3583341      | 06/07/2018 | Eco-Energy LLC       | Jun 2018        | 06/07/2018 | 06/07/2018 | Buy      | 15,000 | MMBtu   | \$ 3.05     | \$ 45,750.00 |
| Spot          | 3583345      | 06/07/2018 | Spotlight Energy     | Jun 2018        | 06/07/2018 | 06/07/2018 | Buy      | 10,000 | MMBtu   | \$ 3.01     | \$ 30,100.00 |
| Spot          | 3583357      | 06/07/2018 | NJR Energy Serv G    | Jun 2018        | 06/07/2018 | 06/07/2018 | Buy      | 7,000  | MMBtu   | \$ 3.38     | \$ 23,660.00 |
| Spot          | 3583621      | 06/08/2018 | Eco-Energy LLC       | Jun 2018        | 06/08/2018 | 06/08/2018 | Buy      | 15,000 | MMBtu   | \$ 3.05     | \$ 45,750.00 |
| Spot          | 3583622      | 06/08/2018 | Spotlight Energy     | Jun 2018        | 06/08/2018 | 06/08/2018 | Buy      | 15,000 | MMBtu   | \$ 3.04     | \$ 45,600.00 |
| Spot          | 3583844      | 06/09/2018 | Eco-Energy LLC       | Jun 2018        | 06/09/2018 | 06/09/2018 | Buy      | 20,000 | MMBtu   | \$ 3.10     | \$ 62,000.00 |
| Spot          | 3583847      | 06/09/2018 | Spotlight Energy     | Jun 2018        | 06/09/2018 | 06/09/2018 | Buy      | 15,000 | MMBtu   | \$ 3.13     | \$ 46,950.00 |
| Spot          | 3584834      | 06/13/2018 | Eco-Energy LLC       | Jun 2018        | 06/13/2018 | 06/13/2018 | Buy      | 10,000 | MMBtu   | \$ 3.10     | \$ 31,000.00 |
| Spot          | 3585698      | 06/16/2018 | Spotlight Energy     | Jun 2018        | 06/16/2018 | 06/16/2018 | Buy      | 15,000 | MMBtu   | \$ 3.22     | \$ 48,300.00 |
| Spot          | 3585700      | 06/16/2018 | Eco-Energy LLC       | Jun 2018        | 06/16/2018 | 06/16/2018 | Buy      | 15,000 | MMBtu   | \$ 3.15     | \$ 47,250.00 |
| Spot          | 3585960      | 06/17/2018 | NJR Energy Serv G    | Jun 2018        | 06/17/2018 | 06/17/2018 | Buy      | 10,000 | MMBtu   | \$ 3.70     | \$ 37,000.00 |
| Spot          | 3585961      | 06/17/2018 | NJR Energy Serv G    | Jun 2018        | 06/18/2018 | 06/18/2018 | Buy      | 10,000 | MMBtu   | \$ 3.70     | \$ 37,000.00 |
| Spot          | 3585962      | 06/17/2018 | Spotlight Energy     | Jun 2018        | 06/17/2018 | 06/17/2018 | Buy      | 10,000 | MMBtu   | \$ 3.22     | \$ 32,200.00 |
| Spot          | 3586184      | 06/18/2018 | Spotlight Energy     | Jun 2018        | 06/18/2018 | 06/18/2018 | Buy      | 30,000 | MMBtu   | \$ 3.19     | \$ 95,700.00 |
| Spot          | 3586185      | 06/18/2018 | Eco-Energy LLC       | Jun 2018        | 06/18/2018 | 06/18/2018 | Buy      | 15,000 | MMBtu   | \$ 3.15     | \$ 47,250.00 |
| Spot          | 3586509      | 06/19/2018 | NJR Energy Serv G    | Jun 2018        | 06/19/2018 | 06/19/2018 | Buy      | 15,000 | MMBtu   | \$ 3.70     | \$ 55,500.00 |
| Spot          | 3589193      | 06/28/2018 | SEQUENT ENERGY       | Jun 2018        | 06/29/2018 | 06/29/2018 | Buy      | 10,000 | MMBtu   | \$ 3.20     | \$ 32,000.00 |
| Spot          | 3589195      | 06/28/2018 | TENASKA MARKETING VE | Jun 2018        | 06/29/2018 | 06/29/2018 | Buy      | 10,000 | MMBtu   | \$ 3.15     | \$ 31,500.00 |
| Spot          | 3589536      | 06/29/2018 | SEQUENT ENERGY       | Jun 2018        | 06/29/2018 | 06/29/2018 | Buy      | 10,000 | MMBtu   | \$ 3.30     | \$ 33,000.00 |
| Spot          | 3590115      | 07/01/2018 | SEQUENT ENERGY       | Jun 2018        | 06/30/2018 | 06/30/2018 | Buy      | 15,000 | MMBtu   | \$ 3.35     | \$ 50,250.00 |
| Spot          | 3590126      | 07/01/2018 | NJR Energy Serv G    | Jun 2018        | 06/30/2018 | 06/30/2018 | Buy      | 15,000 | MMBtu   | \$ 3.70     | \$ 55,500.00 |
| Spot          | 3590117      | 07/01/2018 | Eco-Energy LLC       | Jun 2018        | 06/30/2018 | 06/30/2018 | Buy      | 15,000 | MMBtu   | \$ 3.15     | \$ 47,250.00 |
| <b>Jul-18</b> |              |            |                      |                 |            |            |          |        |         |             |              |
| Spot          | 3590129      | 07/01/2018 | NJR Energy Serv G    | Jul 2018        | 07/01/2018 | 07/01/2018 | Buy      | 15,000 | MMBtu   | \$ 3.70     | \$ 55,500.00 |
| Spot          | 3590130      | 07/01/2018 | SEQUENT ENERGY       | Jul 2018        | 07/01/2018 | 07/01/2018 | Buy      | 20,000 | MMBtu   | \$ 3.55     | \$ 71,000.00 |
| Spot          | 3590131      | 07/01/2018 | TENASKA MARKETING VE | Jul 2018        | 07/01/2018 | 07/01/2018 | Buy      | 20,000 | MMBtu   | \$ 3.20     | \$ 64,000.00 |
| Spot          | 3590132      | 07/01/2018 | Eco-Energy LLC       | Jul 2018        | 07/01/2018 | 07/01/2018 | Buy      | 20,000 | MMBtu   | \$ 3.20     | \$ 64,000.00 |
| Spot          | 3590232      | 07/02/2018 | Eco-Energy LLC       | Jul 2018        | 07/02/2018 | 07/02/2018 | Buy      | 20,000 | MMBtu   | \$ 3.10     | \$ 62,000.00 |
| Spot          | 3590467      | 07/02/2018 | SEQUENT ENERGY       | Jul 2018        | 07/02/2018 | 07/02/2018 | Buy      | 25,000 | MMBtu   | \$ 3.35     | \$ 83,750.00 |
| Spot          | 3590469      | 07/02/2018 | TENASKA MARKETING VE | Jul 2018        | 07/02/2018 | 07/02/2018 | Buy      | 10,000 | MMBtu   | \$ 3.15     | \$ 31,500.00 |
| Spot          | 3590477      | 07/02/2018 | Eco-Energy LLC       | Jul 2018        | 07/02/2018 | 07/02/2018 | Buy      | 10,000 | MMBtu   | \$ 3.10     | \$ 31,000.00 |
| Spot          | 3590480      | 07/02/2018 | SEQUENT ENERGY       | Jul 2018        | 07/02/2018 | 07/02/2018 | Buy      | 10,000 | MMBtu   | \$ 3.65     | \$ 36,500.00 |
| Spot          | 3590745      | 07/03/2018 | TENASKA MARKETING VE | Jul 2018        | 07/03/2018 | 07/03/2018 | Buy      | 20,000 | MMBtu   | \$ 3.17     | \$ 63,400.00 |
| Spot          | 3590807      | 07/03/2018 | SEQUENT ENERGY       | Jul 2018        | 07/03/2018 | 07/03/2018 | Buy      | 20,000 | MMBtu   | \$ 3.40     | \$ 68,000.00 |
| Spot          | 3590808      | 07/03/2018 | Spotlight Energy     | Jul 2018        | 07/03/2018 | 07/03/2018 | Buy      | 10,000 | MMBtu   | \$ 3.15     | \$ 31,500.00 |
| Spot          | 3590987      | 07/04/2018 | Spotlight Energy     | Jul 2018        | 07/04/2018 | 07/04/2018 | Buy      | 20,000 | MMBtu   | \$ 3.17     | \$ 63,400.00 |
| Spot          | 3591435      | 07/05/2018 | Eco-Energy LLC       | Jul 2018        | 07/05/2018 | 07/05/2018 | Buy      | 20,000 | MMBtu   | \$ 3.10     | \$ 62,000.00 |
| Spot          | 3591436      | 07/05/2018 | SEQUENT ENERGY       | Jul 2018        | 07/05/2018 | 07/05/2018 | Buy      | 20,000 | MMBtu   | \$ 3.15     | \$ 63,000.00 |
| Spot          | 3591683      | 07/05/2018 | Spotlight Energy     | Jul 2018        | 07/05/2018 | 07/05/2018 | Buy      | 8,000  | MMBtu   | \$ 3.10     | \$ 24,800.00 |
| Spot          | 3591688      | 07/05/2018 | NJR Energy Serv G    | Jul 2018        | 07/05/2018 | 07/05/2018 | Buy      | 20,000 | MMBtu   | \$ 3.70     | \$ 74,000.00 |
| Spot          | 3593421      | 07/11/2018 | Spotlight Energy     | Jul 2018        | 07/11/2018 | 07/11/2018 | Buy      | 10,000 | MMBtu   | \$ 2.98     | \$ 29,800.00 |
| Spot          | 3594200      | 07/13/2018 | SEQUENT ENERGY       | Jul 2018        | 07/13/2018 | 07/13/2018 | Buy      | 15,000 | MMBtu   | \$ 3.35     | \$ 50,250.00 |
| Spot          | 3594201      | 07/13/2018 | Spotlight Energy     | Jul 2018        | 07/13/2018 | 07/13/2018 | Buy      | 15,000 | MMBtu   | \$ 3.15     | \$ 47,250.00 |
| Spot          | 3595107      | 07/16/2018 | Eco-Energy LLC       | Jul 2018        | 07/16/2018 | 07/16/2018 | Buy      | 10,000 | MMBtu   | \$ 2.95     | \$ 29,500.00 |
| Spot          | 3595115      | 07/16/2018 | SEQUENT ENERGY       | Jul 2018        | 07/16/2018 | 07/16/2018 | Buy      | 10,000 | MMBtu   | \$ 3.20     | \$ 32,000.00 |
| Spot          | 3595406      | 07/17/2018 | SEQUENT ENERGY       | Jul 2018        | 07/17/2018 | 07/17/2018 | Buy      | 15,000 | MMBtu   | \$ 3.25     | \$ 48,750.00 |
| Spot          | 3595499      | 07/17/2018 | Spotlight Energy     | Jul 2018        | 07/17/2018 | 07/17/2018 | Buy      | 7,000  | MMBtu   | \$ 2.89     | \$ 20,230.00 |
| Spot          | 3595506      | 07/17/2018 | Eco-Energy LLC       | Jul 2018        | 07/17/2018 | 07/17/2018 | Buy      | 15,000 | MMBtu   | \$ 2.95     | \$ 44,250.00 |
| Spot          | 3596384      | 07/19/2018 | Eco-Energy LLC       | Jul 2018        | 07/19/2018 | 07/19/2018 | Buy      | 8,000  | MMBtu   | \$ 2.95     | \$ 23,600.00 |
| Spot          | 3596389      | 07/19/2018 | NJR Energy Serv G    | Jul 2018        | 07/19/2018 | 07/19/2018 | Buy      | 10,000 | MMBtu   | \$ 3.48     | \$ 34,800.00 |

|               |         |            |                      |          |            |            |     |        |       |         |               |
|---------------|---------|------------|----------------------|----------|------------|------------|-----|--------|-------|---------|---------------|
| Spot          | 3597963 | 07/23/2018 | Spotlight Energy     | Jul 2018 | 07/23/2018 | 07/23/2018 | Buy | 5,000  | MMBtu | \$ 2.88 | \$ 14,400.00  |
| Spot          | 3598890 | 07/25/2018 | Eco-Energy LLC       | Jul 2018 | 07/25/2018 | 07/25/2018 | Buy | 5,000  | MMBtu | \$ 2.90 | \$ 14,500.00  |
| Spot          | 3598896 | 07/25/2018 | Spotlight Energy     | Jul 2018 | 07/25/2018 | 07/25/2018 | Buy | 6,000  | MMBtu | \$ 3.00 | \$ 18,000.00  |
| Spot          | 3598897 | 07/25/2018 | NJR Energy Servic G  | Jul 2018 | 07/25/2018 | 07/25/2018 | Buy | 10,000 | MMBtu | \$ 3.60 | \$ 36,000.00  |
| Spot          | 3599164 | 07/26/2018 | SEQUENT ENERGY       | Jul 2018 | 07/26/2018 | 07/26/2018 | Buy | 10,000 | MMBtu | \$ 3.05 | \$ 30,500.00  |
| Spot          | 3599215 | 07/26/2018 | Eco-Energy LLC       | Jul 2018 | 07/26/2018 | 07/26/2018 | Buy | 15,000 | MMBtu | \$ 2.95 | \$ 44,250.00  |
| Spot          | 3599224 | 07/26/2018 | Spotlight Energy     | Jul 2018 | 07/26/2018 | 07/26/2018 | Buy | 5,000  | MMBtu | \$ 2.94 | \$ 14,700.00  |
| Spot          | 3599512 | 07/27/2018 | Eco-Energy LLC       | Jul 2018 | 07/27/2018 | 07/27/2018 | Buy | 10,000 | MMBtu | \$ 2.90 | \$ 29,000.00  |
| <b>Aug-18</b> |         |            |                      |          |            |            |     |        |       |         |               |
| Spot          | 3601824 | 08/06/2018 | Eco-Energy LLC       | Aug 2018 | 08/06/2018 | 08/06/2018 | Buy | 10,000 | MMBtu | \$ 3.35 | \$ 33,500.00  |
| Spot          | 3601893 | 08/06/2018 | Spotlight Energy     | Aug 2018 | 08/06/2018 | 08/06/2018 | Buy | 10,000 | MMBtu | \$ 3.10 | \$ 31,000.00  |
| Spot          | 3602699 | 08/09/2018 | NJR Energy Servic G  | Aug 2018 | 08/09/2018 | 08/09/2018 | Buy | 15,000 | MMBtu | \$ 3.65 | \$ 54,750.00  |
| Spot          | 3604063 | 08/14/2018 | NJR Energy Servic G  | Aug 2018 | 08/31/2018 | 08/31/2018 | Buy | 5,000  | MMBtu | \$ 3.65 | \$ 18,250.00  |
| Spot          | 3607840 | 08/27/2018 | SEQUENT ENERGY       | Aug 2018 | 08/27/2018 | 08/27/2018 | Buy | 15,000 | MMBtu | \$ 3.15 | \$ 47,250.00  |
| Spot          | 3607846 | 08/27/2018 | SEQUENT ENERGY       | Aug 2018 | 08/27/2018 | 08/27/2018 | Buy | 20,000 | MMBtu | \$ 3.30 | \$ 66,000.00  |
| Spot          | 3608018 | 08/27/2018 | Eco-Energy LLC       | Aug 2018 | 08/27/2018 | 08/27/2018 | Buy | 12,000 | MMBtu | \$ 3.00 | \$ 36,000.00  |
| Spot          | 3608107 | 08/28/2018 | NJR Energy Servic G  | Aug 2018 | 08/28/2018 | 08/28/2018 | Buy | 20,000 | MMBtu | \$ 3.50 | \$ 70,000.00  |
| Spot          | 3608108 | 08/28/2018 | TENASKA MARKETING VE | Aug 2018 | 08/28/2018 | 08/28/2018 | Buy | 20,000 | MMBtu | \$ 3.30 | \$ 66,000.00  |
| Spot          | 3608109 | 08/28/2018 | Eco-Energy LLC       | Aug 2018 | 08/28/2018 | 08/28/2018 | Buy | 10,000 | MMBtu | \$ 2.98 | \$ 29,800.00  |
| Spot          | 3608113 | 08/28/2018 | SEQUENT ENERGY       | Aug 2018 | 08/28/2018 | 08/28/2018 | Buy | 20,000 | MMBtu | \$ 3.45 | \$ 69,000.00  |
| Spot          | 3608535 | 08/29/2018 | TENASKA MARKETING VE | Aug 2018 | 08/29/2018 | 08/29/2018 | Buy | 15,000 | MMBtu | \$ 3.18 | \$ 47,700.00  |
| Spot          | 3608536 | 08/29/2018 | SEQUENT ENERGY       | Aug 2018 | 08/29/2018 | 08/29/2018 | Buy | 25,000 | MMBtu | \$ 3.30 | \$ 82,500.00  |
| <b>Sep-18</b> |         |            |                      |          |            |            |     |        |       |         |               |
| Spot          | 3610268 | 09/04/2018 | Spotlight Energy     | Sep 2018 | 09/04/2018 | 09/04/2018 | Buy | 20,000 | MMBtu | \$ 3.05 | \$ 61,000.00  |
| Spot          | 3610269 | 09/04/2018 | SEQUENT ENERGY       | Sep 2018 | 09/04/2018 | 09/04/2018 | Buy | 10,000 | MMBtu | \$ 3.50 | \$ 35,000.00  |
| Spot          | 3610270 | 09/04/2018 | NJR Energy Servic G  | Sep 2018 | 09/04/2018 | 09/04/2018 | Buy | 10,000 | MMBtu | \$ 3.50 | \$ 35,000.00  |
| Spot          | 3610558 | 09/05/2018 | TENASKA MARKETING VE | Sep 2018 | 09/05/2018 | 09/05/2018 | Buy | 20,000 | MMBtu | \$ 3.20 | \$ 64,000.00  |
| Spot          | 3615066 | 09/20/2018 | NJR Energy Servic G  | Sep 2018 | 09/20/2018 | 09/20/2018 | Buy | 22,500 | MMBtu | \$ 3.65 | \$ 82,125.00  |
| Spot          | 3615521 | 09/21/2018 | TENASKA MARKETING VE | Sep 2018 | 09/20/2018 | 09/20/2018 | Buy | 14,000 | MMBtu | \$ 3.35 | \$ 46,900.00  |
| Spot          | 3615525 | 09/21/2018 | TENASKA MARKETING VE | Sep 2018 | 09/21/2018 | 09/21/2018 | Buy | 25,000 | MMBtu | \$ 3.25 | \$ 81,250.00  |
| Spot          | 3615551 | 09/21/2018 | NJR Energy Servic G  | Sep 2018 | 09/21/2018 | 09/21/2018 | Buy | 6,000  | MMBtu | \$ 3.65 | \$ 21,900.00  |
| Spot          | 3615568 | 09/21/2018 | TENASKA MARKETING VE | Sep 2018 | 09/21/2018 | 09/21/2018 | Buy | 13,000 | MMBtu | \$ 3.25 | \$ 42,250.00  |
| <b>Oct-18</b> |         |            |                      |          |            |            |     |        |       |         |               |
| Spot          | 3619921 | 10/03/2018 | TENASKA MARKETING VE | Oct 2018 | 10/03/2018 | 10/03/2018 | Buy | 30,000 | MMBtu | \$ 3.60 | \$ 108,000.00 |
| Spot          | 3620257 | 10/04/2018 | TENASKA MARKETING VE | Oct 2018 | 10/04/2018 | 10/04/2018 | Buy | 20,000 | MMBtu | \$ 3.50 | \$ 70,000.00  |
| Spot          | 3621321 | 10/08/2018 | TENASKA MARKETING VE | Oct 2018 | 10/08/2018 | 10/08/2018 | Buy | 20,000 | MMBtu | \$ 3.80 | \$ 76,000.00  |
| Spot          | 3621664 | 10/09/2018 | TENASKA MARKETING VE | Oct 2018 | 10/09/2018 | 10/09/2018 | Buy | 14,000 | MMBtu | \$ 3.80 | \$ 53,200.00  |
| Spot          | 3626845 | 10/30/2018 | NJR Energy Servic G  | Oct 2018 | 10/29/2018 | 10/29/2018 | Buy | 7,000  | MMBtu | \$ 4.25 | \$ 29,750.00  |

**REQUEST:**

For the last six months of the period under review, state if there were any instances in which a natural gas generating unit could not be operated when it otherwise would have run, due to pipeline constraints or natural gas being unavailable.

**RESPONSE:**

During periods of higher winter or summer natural gas demand, which occur during colder or hotter weather, there can be infrequent instances of pressure changes on pipeline systems for short durations that may cause gas constraints or limit gas availability. These can be caused by factors such as, but not limited to, system imbalances between supply and demand, and specific issues on the pipeline, such as compression outages. A review of the Company's North American Electric Reliability Corporation (NERC) Generating Availability Data System (GADS) records and dispatcher logs for Woodsdale Station during this time period showed that Woodsdale Station experienced a period of low gas pressure and fuel restrictions late in the afternoon on September 4, 2018 that caused a short outage on unit 1 at 17:54 EDT and required the output of units 2-6 to be derated to half load starting at approximately 18:00 EDT, but were shortly thereafter shutdown by PJM between 18:54 EDT and 18:55 EDT. In reviewing weather data from these dates, Cincinnati experienced a much warmer than normal high temperature of 93° F on this date, 10° F above the normal temperature for this day.

Finally, the addition of back-up fuel oil infrastructure is targeted to be completed at Woodsdale in the spring of 2019. Once this is in service, the Woodsdale units will be able to switch to fuel oil during times of peak gas demand should there be any instances of gas curtailments.

**PERSON RESPONSIBLE:** John Swez  
Brett Phipps

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**STAFF-DR-01-008**

**REQUEST:**

State if there have been any changes to hedging activities for coal or natural gas purchases used for generation since the previous FAC review proceeding. If so, describe the changes in detail.

**RESPONSE:**

**Coal:**

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

**PERSON RESPONSIBLE:**           Brett Phipps

**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 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:**

Duke Energy Kentucky has not audited any of its fuel or transportation contracts during the period of May 1, 2018 through October 31, 2018.

**PERSON RESPONSIBLE:**       Brett Phipps

**Duke Energy Kentucky**  
**Case No. 2019-00006**  
**STAFF First Set Data Requests**  
**Date Received: February 11, 2019**

**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:**           Brett Phipps

**REQUEST:**

- a. For the last six months of the period under review, state if 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 changes;
  - 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:**

- a. No, there have not been any changes to Duke Energy Kentucky's written policies and procedures regarding its fuel procurement.
- b. N/A
- c. Please see the following:

The "Regulated Utilities Risk Management Control Manual" was updated January 2018 and "Regulated Utilities Risk Limits" documents were updated January of 2017. These two documents were submitted with FAC Case No. 2018-



00220 as STAFF-DR-01-011 Confidential Attachments 1 and 2. The “Commodity Risk Policy” was updated January of 2014. This document was submitted with the Company’s responses to FAC Case No. 2016-00005.

The “Coal and Emissions Reducing Chemicals Procurement Procedure” was updated December of 2016 and was filed on January 20, 2017.

The “DEI and DEK Gas Trading Procedure for Off-Premise Transactions”, “Fuel and System Optimization (FSO) DEK Emissions Trading Process & Procedure Check List”, and the “Fuel Oil Emergency Procedure” were updated in March 2016, May 2015, and June 2015, respectively. These three documents were submitted with the Company’s responses to FAC Case No. 2017-00005.

**PERSON RESPONSIBLE:**            Brett Phipps

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**STAFF-DR-01-012**

**REQUEST:**

For the last six months of the period under review and for the years 2019 and 2020, 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).

**RESPONSE:**

Duke Energy Kentucky has no firm power commitments during these periods.

**PERSON RESPONSIBLE:** John Swez

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**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:**

See STAFF-DR-01-013 Attachment.

**PERSON RESPONSIBLE:** Ted Czupik

**DUKE ENERGY KENTUCKY  
 POWER TRANSACTION SCHEDULE**

| Supplier/Buyer                        |             | Transaction Type | kWh        | Charges (\$) |         |         |           |
|---------------------------------------|-------------|------------------|------------|--------------|---------|---------|-----------|
|                                       |             |                  |            | Demand       | Fuel    | Other   | Total     |
| <b>Month Ended May 31, 2018</b>       |             |                  |            |              |         |         |           |
| PJM Interconnection, LLC              |             | Econ Sales       | 0          | 0            | 0       | 0       | 0         |
|                                       | Total Sales |                  | 0          | 0            | 0       | 0       | 0         |
| <b>Month Ended June 30, 2018</b>      |             |                  |            |              |         |         |           |
| PJM Interconnection, LLC              |             | Econ Sales       | 6,703,720  | 0            | 254,855 | 318,554 | 573,409   |
|                                       | Total Sales |                  | 6,703,720  | 0            | 254,855 | 318,554 | 573,409   |
| <b>Month Ended July 31, 2018</b>      |             |                  |            |              |         |         |           |
| PJM Interconnection, LLC              |             | Econ Sales       | 20,518,050 | 0            | 927,567 | 695,251 | 1,622,818 |
|                                       | Total Sales |                  | 20,518,050 | 0            | 927,567 | 695,251 | 1,622,818 |
| <b>Month Ended August 31, 2018</b>    |             |                  |            |              |         |         |           |
| PJM Interconnection, LLC              |             | Econ Sales       | 8,915,130  | 0            | 270,390 | 195,811 | 466,201   |
|                                       | Total Sales |                  | 8,915,130  | 0            | 270,390 | 195,811 | 466,201   |
| <b>Month Ended September 30, 2018</b> |             |                  |            |              |         |         |           |
| PJM Interconnection, LLC              |             | Econ Sales       | 17,170,490 | 0            | 460,389 | 241,796 | 702,185   |
|                                       | Total Sales |                  | 17,170,490 | 0            | 460,389 | 241,796 | 702,185   |
| <b>Month Ended October 31, 2018</b>   |             |                  |            |              |         |         |           |
| PJM Interconnection, LLC              |             | Econ Sales       | 36,480,230 | 0            | 826,013 | 423,427 | 1,249,440 |
|                                       | Total Sales |                  | 36,480,230 | 0            | 826,013 | 423,427 | 1,249,440 |

Legend  
 Econ Sales - Economy Sales

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**STAFF-DR-01-014**

**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:** Ted Czupik  
John Swez

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**STAFF-DR-01-015**

**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-01-015 Attachment.

**PERSON RESPONSIBLE:** John Swez

KY FAC Request  
 May-Oct 2018

| UnitName      | Event Type | Month | Scheduled Hours | Forced Hours | Actual Hours | Event Duration | Event Start       | Event End         | Description  |
|---------------|------------|-------|-----------------|--------------|--------------|----------------|-------------------|-------------------|--|
| East Bend 2   | PO         | MAR   | 2164.68         |              | 2164.68      | 2,164.68       | 3/2/18 7:19 PM    | 6/1/18 12:00 AM   | Planned Outage-ESP rebuild and Dry Bottom Ash Conversion                           |
| East Bend 2   | PE         | JUN   | 216.75          |              | 216.75       | 216.75         | 6/1/18 12:00 AM   | 6/10/18 12:45 AM  | Electrostatic Precipitator Problems-ESP Rebuild                                    |
| East Bend 2   | SF         | JUN   |                 | 2.75         | 2.75         | 2.75           | 6/10/18 12:45 AM  | 6/10/18 3:30 AM   | Feedwater Controls-Drum Level  |
| East Bend 2   | MO         | JUN   | 50.3            |              | 50.3         | 50.30          | 6/14/18 12:38 PM  | 6/16/18 2:56 PM   | Other High Pressure Turbine Problems-HPT BALANCE                                   |
| East Bend 2   | U1         | JUN   |                 | 4.33         | 4.33         | 4.33           | 6/21/18 12:16 AM  | 6/21/18 4:36 AM   | Generator Seal Oil System And Seal-SEAL OIL COOLER LEAK REPAIR                     |
| East Bend 2   | U1         | AUG   |                 | 7.33         | 7.33         | 7.33           | 8/28/18 12:21 PM  | 8/28/18 7:41 PM   | Other Switchyard Equipment-1585 C Phase breaker failure                            |
| East Bend 2   | MO         | SEP   | 133.53          |              | 133.53       | 133.53         | 9/7/18 1:20 AM    | 9/12/18 2:52 PM   | Other Induced Draft Fan Problems-ID Fan expansion joints and vibration             |
| East Bend 2   | U1         | SEP   |                 | 30.07        | 30.07        | 30.07          | 9/12/18 2:56 PM   | 9/13/18 9:00 PM   | Other Switchyard Equipment-Ring Bus CB 1585 and 1587 contact failure               |
| East Bend 2   | U1         | OCT   |                 | 79.38        | 79.38        | 79.38          | 10/3/18 12:45 AM  | 10/6/18 8:08 AM   | First Reheater Leaks-Boiler Tube Leak  |
| Woodsdale CT1 | MO         | MAY   | 100.58          |              | 100.58       | 100.58         | 5/7/18 6:00 AM    | 5/11/18 10:35 AM  | Gas Turbine - Boroscope Inspection-Spring outage - boroscope                       |
| Woodsdale CT1 | SF         | JUL   |                 | 0.63         | 0.63         | 0.63           | 7/19/18 3:52 PM   | 7/19/18 4:30 PM   | Gas Turbine - Starting System (Including Motor)-Starting Breaker Failure           |
| Woodsdale CT1 | SF         | JUL   |                 | 0.58         | 0.58         | 0.58           | 7/26/18 2:15 PM   | 7/26/18 2:50 PM   | Gas Turbine - Starting System (Including Motor)-Starting Breaker Failure           |
| Woodsdale CT1 | PO         | SEP   | 77.60           |              | 77.60        | 77.60          | 9/17/18 6:00 AM   | 9/20/18 11:36 AM  | Gas Turbine - Fuel Piping And Valves-Replace Main Natural Gas Valve NG001          |
| Woodsdale CT1 | U1         | OCT   |                 | 2.30         | 2.30         | 2.30           | 10/14/18 12:15 PM | 10/14/18 2:33 PM  | Switchyard Transformers -Transformer Breaker Tripped                               |
| Woodsdale CT2 | MO         | MAY   | 101.73          |              | 101.73       | 101.73         | 5/7/18 6:00 AM    | 5/11/18 11:44 AM  | Gas Turbine - Boroscope Inspection-Spring outage - boroscope                       |
| Woodsdale CT2 | PO         | SEP   | 77.98           |              | 77.98        | 77.98          | 9/17/18 6:00 AM   | 9/20/18 11:59 AM  | Gas Turbine - Fuel Piping And Valves-Replace Main Natural Gas Valve NG001          |
| Woodsdale CT2 | U1         | OCT   |                 | 2.30         | 2.30         | 2.30           | 10/14/18 12:15 PM | 10/14/18 2:33 PM  | Switchyard Transformers and Associated Cooling System-Transformer Blk Tripped      |
| Woodsdale CT2 | PO         | OCT   |                 | 5.08         | 5.08         | 5.08           | 10/19/18 7:30 AM  | 10/19/18 12:35 PM | Gas Turbine - Fuel Piping And Valves-Testing for fuel oil project                  |
| Woodsdale CT3 | MO         | MAY   | 100.40          |              | 100.40       | 100.40         | 5/14/18 6:00 AM   | 5/18/18 10:24 AM  | Gas Turbine - Boroscope Inspection-Spring outage - boroscope                       |
| Woodsdale CT3 | MO         | MAY   | 44.52           |              | 44.52        | 44.52          | 5/27/18 12:00 PM  | 5/29/18 8:31 AM   | Gas Turbine - Lube Oil Pumps-Replaced jacking oil pump                             |
| Woodsdale CT3 | PO         | SEP   | 78.02           |              | 78.02        | 78.02          | 9/17/18 6:00 AM   | 9/20/18 12:01 PM  | Gas Turbine - Fuel Piping And Valves-Replace Main Natural Gas Valve NG001          |
| Woodsdale CT3 | PO         | OCT   | 27.50           |              | 27.50        | 27.50          | 10/22/18 6:00 AM  | 10/23/18 9:30 AM  | Gas Turbine - Fire Detection And Extinguishing Sys-Out for fire protection testing |
| Woodsdale CT4 | MO         | MAY   | 99.13           |              | 99.13        | 99.13          | 5/14/18 6:00 AM   | 5/18/18 9:08 AM   | Gas Turbine - Boroscope Inspection-Spring outage - boroscope                       |
| Woodsdale CT4 | PO         | SEP   | 78.05           |              | 78.05        | 78.05          | 9/17/18 6:00 AM   | 9/20/18 12:03 PM  | Gas Turbine - Fuel Piping And Valves-Replace Main Natural Gas Valve NG001          |
| Woodsdale CT4 | PO         | OCT   | 10.67           |              | 10.67        | 10.67          | 10/22/18 6:00 AM  | 10/22/18 4:40 PM  | Gas Turbine - Fire Detection And Extinguishing Sys-Out for fire protection testing |
| Woodsdale CT5 | MO         | MAY   | 78.85           |              | 78.85        | 78.85          | 5/21/18 6:00 AM   | 5/24/18 12:51 PM  | Gas Turbine - Boroscope Inspection-Spring outage - boroscope                       |
| Woodsdale CT5 | U1         | JUL   |                 | 0.58         | 0.58         | 0.58           | 7/5/18 9:36 AM    | 7/5/18 10:11 AM   | Gas Turbine Auxiliary Sys Problems-Water injection, which caused flame out trip    |
| Woodsdale CT5 | PO         | SEP   | 77.98           |              | 77.98        | 77.98          | 9/17/18 6:00 AM   | 9/20/18 11:59 AM  | Gas Turbine - Fuel Piping And Valves-Replace Main Natural Gas Valve NG001          |
| Woodsdale CT5 | SF         | SEP   |                 | 1.42         | 1.42         | 1.42           | 9/20/18 11:59 AM  | 9/20/18 1:24 PM   | Gas Turbine - Fuel Piping And Valves-Gas Shut Off Valve Trouble                    |
| Woodsdale CT5 | PO         | OCT   | 12.00           |              | 12.00        | 12.00          | 10/19/18 6:00 AM  | 10/19/18 6:00 PM  | Gas Turbine - Fire Detection And Extinguishing Sys-Out for fire protection testing |
| Woodsdale CT6 | MO         | MAY   | 79.92           |              | 79.92        | 79.92          | 5/21/18 6:00 AM   | 5/24/18 1:55 PM   | Gas Turbine - Boroscope Inspection-Spring outage - boroscope                       |
| Woodsdale CT6 | PO         | SEP   | 78.07           |              | 78.07        | 78.07          | 9/17/18 6:00 AM   | 9/20/18 12:04 PM  | Gas Turbine - Fuel Piping And Valves-Replace Main Natural Gas Valve NG001          |
| Woodsdale CT6 | SF         | SEP   |                 | 4.38         | 4.38         | 4.38           | 9/20/18 12:04 PM  | 9/20/18 4:27 PM   | Other Exciter Problems-Exciter Trip  |
| Woodsdale CT6 | PO         | OCT   | 12.00           |              | 12.00        | 12.00          | 10/19/18 6:00 AM  | 10/19/18 6:00 PM  | Gas Turbine - Fire Detection And Extinguishing Sys-Out for fire protection testing |

Event Type Legend:

- PO Planned Outage
- PE Planned Outage Extension
- MO Maintenance Outage
- ME Maintenance Outage Extension
- U1 Unplanned (Forced) Outage - Immediate
- U2 Unplanned (Forced) Outage - Delayed
- U3 Unplanned (Forced) Outage - Postponed
- SF Startup Failure

**Duke Energy Kentucky**  
**Case No. 2019-00006**  
**STAFF First Set Data Requests**  
**Date Received: February 11, 2019**

**STAFF-DR-01-016**

**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**

| Month          | Net MWH   | Period Hours | MW Rating | MW Hours  | Net Capacity Factor |
|----------------|-----------|--------------|-----------|-----------|---------------------|
| May 2018       | (3,882)   | 744          | 600       | 446,400   | -0.87%              |
| June 2018      | 151,532   | 720          | 600       | 432,000   | 35.08%              |
| July 2018      | 367,337   | 744          | 600       | 446,400   | 82.29%              |
| August 2018    | 354,699   | 744          | 600       | 446,400   | 79.46%              |
| September 2018 | 268,337   | 720          | 600       | 432,000   | 62.12%              |
| October 2018   | 316,359   | 744          | 600       | 446,400   | 70.87%              |
| Total          | 1,454,382 | 4,416        | 600       | 2,649,600 | 54.89%              |

**Total Period**

| Woodsdale Station | Net MWH | Period Hours | MW Rating | MW Hours  | Net Capacity Factor |
|-------------------|---------|--------------|-----------|-----------|---------------------|
| Unit 1            | 13,051  | 4,416        | 81        | 356,352   | 3.66%               |
| Unit 2            | 15,515  | 4,416        | 82        | 362,208   | 4.28%               |
| Unit 3            | 14,842  | 4,416        | 82        | 362,208   | 4.10%               |
| Unit 4            | 14,096  | 4,416        | 81        | 356,352   | 3.96%               |
| Unit 5            | 14,871  | 4,416        | 82        | 362,208   | 4.11%               |
| Unit 6            | 15,670  | 4,416        | 82        | 362,208   | 4.33%               |
| Total             | 88,045  | 26,496       | 82        | 2,161,536 | 4.07%               |



**May 2018**

| Woodsdale Station | Net MWH | Period Hours | MW Rating | MW Hours | Net Capacity Factor |
|-------------------|---------|--------------|-----------|----------|---------------------|
| Unit 1            | 2,698   | 744          | 86        | 63,984   | 4.22%               |
| Unit 2            | 3,171   | 744          | 86        | 63,984   | 4.96%               |
| Unit 3            | 2,418   | 744          | 86        | 63,984   | 3.78%               |
| Unit 4            | 2,260   | 744          | 86        | 63,984   | 3.53%               |
| Unit 5            | 3,379   | 744          | 86        | 63,984   | 5.28%               |
| Unit 6            | 3,352   | 744          | 86        | 63,984   | 5.24%               |
| Total             | 17,278  | 4,464        | 86        | 383,904  | 4.50%               |

**June 2018**

| Woodsdale Station | Net MWH | Period Hours | MW Rating | MW Hours | Net Capacity Factor |
|-------------------|---------|--------------|-----------|----------|---------------------|
| Unit 1            | 3,063   | 720          | 78        | 56,160   | 5.45%               |
| Unit 2            | 4,065   | 720          | 80        | 57,600   | 7.06%               |
| Unit 3            | 4,179   | 720          | 80        | 57,600   | 7.26%               |
| Unit 4            | 3,771   | 720          | 78        | 56,160   | 6.71%               |
| Unit 5            | 3,758   | 720          | 80        | 57,600   | 6.52%               |
| Unit 6            | 4,040   | 720          | 80        | 57,600   | 7.01%               |
| Total             | 22,876  | 4,320        | 79        | 342,720  | 6.67%               |

**July 2018**

| Woodsdale Station | Net MWH | Period Hours | MW Rating | MW Hours | Net Capacity Factor |
|-------------------|---------|--------------|-----------|----------|---------------------|
| Unit 1            | 3,616   | 744          | 78        | 58,032   | 6.23%               |
| Unit 2            | 4,286   | 744          | 80        | 59,520   | 7.20%               |
| Unit 3            | 4,423   | 744          | 80        | 59,520   | 7.43%               |
| Unit 4            | 4,355   | 744          | 78        | 58,032   | 7.50%               |
| Unit 5            | 4,162   | 744          | 80        | 59,520   | 6.99%               |
| Unit 6            | 4,549   | 744          | 80        | 59,520   | 7.64%               |
| Total             | 25,391  | 4,464        | 79        | 354,144  | 7.17%               |

**August 2018**

| Woodsdale Station | Net MWH | Period Hours | MW Rating | MW Hours | Net Capacity Factor |
|-------------------|---------|--------------|-----------|----------|---------------------|
| Unit 1            | 1,836   | 744          | 78        | 58,032   | 3.16%               |
| Unit 2            | 2,010   | 744          | 80        | 59,520   | 3.38%               |
| Unit 3            | 1,980   | 744          | 80        | 59,520   | 3.33%               |
| Unit 4            | 2,080   | 744          | 78        | 58,032   | 3.58%               |
| Unit 5            | 2,096   | 744          | 80        | 59,520   | 3.52%               |
| Unit 6            | 2,400   | 744          | 80        | 59,520   | 4.03%               |
| Total             | 12,402  | 4,464        | 79        | 354,144  | 3.50%               |

**September 2018**

| Woodsdale Station | Net MWH | Period Hours | MW Rating | MW Hours | Net Capacity Factor |
|-------------------|---------|--------------|-----------|----------|---------------------|
| Unit 1            | 1,132   | 720          | 78        | 56,160   | 2.02%               |
| Unit 2            | 1,203   | 720          | 80        | 57,600   | 2.09%               |
| Unit 3            | 1,189   | 720          | 80        | 57,600   | 2.06%               |
| Unit 4            | 1,131   | 720          | 78        | 56,160   | 2.01%               |
| Unit 5            | 1,146   | 720          | 80        | 57,600   | 1.99%               |
| Unit 6            | 1,077   | 720          | 80        | 57,600   | 1.87%               |
| Total             | 6,878   | 4,320        | 79        | 342,720  | 2.01%               |

**October 2018**

| Woodsdale Station | Net MWH | Period Hours | MW Rating | MW Hours | Net Capacity Factor |
|-------------------|---------|--------------|-----------|----------|---------------------|
| Unit 1            | 706     | 744          | 86        | 63,984   | 1.10%               |
| Unit 2            | 780     | 744          | 86        | 63,984   | 1.22%               |
| Unit 3            | 653     | 744          | 86        | 63,984   | 1.02%               |
| Unit 4            | 499     | 744          | 86        | 63,984   | 0.78%               |
| Unit 5            | 330     | 744          | 86        | 63,984   | 0.52%               |
| Unit 6            | 252     | 744          | 86        | 63,984   | 0.39%               |
| Total             | 3,220   | 4,464        | 86        | 383,904  | 0.84%               |

**PERSON RESPONSIBLE:**John Swez  
Ted Czupik

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**STAFF-DR-01-017**

**REQUEST:**

- a. For the last six months of the period under review, explain if 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:**

- a. Duke Kentucky made no changes during the period under review to its maintenance and operation practices or completed any specific generation efficiency improvements that affect fuel usage at Duke Kentucky's generation facilities. The East Bend station did undergo a major outage in the spring of 2018, but as previously reported, this outage will not materially change fuel usage at the unit.
- b. N/A

**PERSON RESPONSIBLE:** John Swez

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**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:**        Brett Phipps

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**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 either prior to or during the period under review.

**PERSON RESPONSIBLE:**           Brett Phipps

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**STAFF-DR-01-020**

**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 and Fuel Oil:**

All master agreements for physical suppliers and master long-term transportation agreements have been filed with the Commission. The Company also has filed its invoices for purchases under the master agreements monthly.

**PERSON RESPONSIBLE:**            Brett Phipps

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**STAFF-DR-01-021**

**REQUEST:**

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

**RESPONSE:**

Duke Energy Kentucky's East Bend Station coal delivery is served by barge transportation.

**PERSON RESPONSIBLE:**        Brett Phipps

**Duke Energy Kentucky**  
**Case No. 2019-00006**  
**STAFF First Set Data Requests**  
**Date Received: February 11, 2019**

**STAFF-DR-01-022**  
**PUBLIC**

**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:**

**CONFIDENTIAL PROPRIETARY TRADE SECRET**

October 2018 was selected to be the base period because it is reasonably close-in-time to the next two-year period and because the resulting fuel rate for this period was the closest to the expected fuel rate projected for the next two-year fuel adjustment period. The fuel rate for October 2018 was \$0.023241/kWh.

The most recent fuel cost projections are [REDACTED] for the calendar year 2019 and [REDACTED] for the calendar year 2020. Kilowatt-hour sales projected for those same periods are [REDACTED], respectively, providing a projected fuel cost per kilowatt-hour of [REDACTED]. The projected fuel cost per kilowatt-hour for the two-year period of 2019 and 2020 is [REDACTED].



The cost per kWh during the proposed base month of October 2018 was calculated

as follows:

|                                |                     |              |
|--------------------------------|---------------------|--------------|
| <u>Fuel (b) (October 2018)</u> | <u>\$ 7,402,226</u> |              |
| Sales (b) (October 2018)       | 318,493,683         | = \$0.023241 |

**PERSON RESPONSIBLE:** Ted Czupik

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**STAFF-DR-01-023**

**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 CONFIDENTIAL STAFF-DR-01-022, Duke Energy Kentucky proposes a base fossil fuel cost F(b) of \$7,402,226. Please see STAFF-DR-01-023 Attachment for a copy of the fuel cost schedule for October 2018, which shows the components of F(b) as defined by 807 KAR 5:056.

**PERSON RESPONSIBLE:** Ted Czupik

**DUKE ENERGY KENTUCKY  
 FINAL FUEL COST SCHEDULE**

**Expense Month: October 2018**

|  | <b><u>Dollars (\$)</u></b>    |
|--|-------------------------------|
| <b>A. Company Generation</b>                                   |                               |
| Coal Burned  | (+) \$ 6,170,880.97           |
| Oil Burned   | (+) 61,796.55                 |
| Gas Burned   | (+) 336,950.00                |
| Net Fuel Related RTO Billing Line Items                        | (-) (15,667.87)               |
| Fuel (assigned cost during Forced Outage <sup>(a)</sup> )      | (+) 936,187.19                |
| Fuel (substitute cost during Forced Outage <sup>(a)</sup> )    | (-) 169,363.57                |
| <u>Sub-Total</u>   | <u>\$ 7,352,119.01</u>        |
| <b>B. Purchases</b>  |                               |
| Economy Purchases  | (+) \$ 2,483,080.66           |
| Other Purchases  | (+) -                         |
| Other Purchases (substitute for Forced Outage <sup>(a)</sup> ) | (-) 1,606,960.62              |
| <u>Less purchases above highest cost units</u>                 | <u>(-) -</u>                  |
| <u>Sub-Total</u>   | <u>\$ 876,120.04</u>          |
| <b>C. Non-Native Sales Fuel Costs</b>                          | <b>\$ 826,012.98</b>          |
| <b>D. Total Fuel Costs (A + B - C)</b>                         | <b><u>\$ 7,402,226.07</u></b> |

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

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**STAFF-DR-01-024**

**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:**

As stated in response to CONFIDENTIAL STAFF-DR-01-022, the Duke Energy Kentucky proposes a base sales (b) of 318,493,683 kilowatt-hours. Please see STAFF-DR-01-024 Attachment for a copy of the Sales Schedule for October 2018, which shows the components of sales as defined by 807 KAR 5:056.

**PERSON RESPONSIBLE:** Ted Czupik

**DUKE ENERGY KENTUCKY  
SALES SCHEDULE**

**Expense Month: October 2018**

|  |     | <b><u>Kilowatt-Hours<br/>Current Month</u></b> |
|--|-----|--|
| A. Generation (Net)  | (+) | 320,607,000                                    |
| <u>Purchases Including Interchange-In</u>                        | (+) | <u>60,573,756</u>                              |
| Sub-Total  |     | <u>381,180,756</u>                             |
| <br>   |     |  |
| B. Pumped Storage Energy   | (+) | -  |
| Non-Native Sales Including Interchange Out                       | (+) | 34,991,970                                     |
| <u>System Losses (346,188,786 KWH times 8.0% <sup>(a)</sup>)</u> | (+) | <u>27,695,103</u>                              |
| Sub-Total  |     | <u>62,687,073</u>                              |
| <br>   |     |  |
| C. Total Sales (A - B)   |     | <u><u>318,493,683</u></u>                      |

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

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**STAFF-DR-01-025**

**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          | \$0.023837        |
| Proposed Base         | <u>\$0.023241</u> |
| Decrease in Base Rate | \$0.000596        |

**PERSON RESPONSIBLE:** Ted Czupik

**Duke Energy Kentucky**  
**Case No. 2019-00006**  
**STAFF First Set Data Requests**  
**Date Received: February 11, 2019**

**STAFF-DR-01-026**

**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:**

See STAFF-DR-01-026 Attachment.

**PERSON RESPONSIBLE:** Ted Czupik

## Duke Energy Kentucky Revised Tariffs

| Tariff    |                 | Existing      | Existing       | Existing  | Proposed      | Revised        |
|-----------|-----------------|---------------|----------------|-----------|---------------|----------------|
| Sheet No. | Rate Schedule   | Base Rate     | Fuel Component | Base Rate | Revised Fuel  | Base Rates     |
|           |                 | Energy & Fuel | of Base Rates  | Excluding | Component     | Including Fuel |
|           |                 |               |                | Base Fuel | of Base Rates |                |
| 30        | RS              | 0.071650      | 0.023837       | 0.047813  | 0.023241      | 0.071054       |
| 40        | DS              |               |                |           |               |                |
|           | First 6000 kWh  | 0.080200      | 0.023837       | 0.056363  | 0.023241      | 0.079604       |
|           | Next 300 kWh/kW | 0.049232      | 0.023837       | 0.025395  | 0.023241      | 0.048636       |
|           | Add'l kWh       | 0.040317      | 0.023837       | 0.016480  | 0.023241      | 0.039721       |
| 41        | DT              |               |                |           |               |                |
|           | Summer On Peak  | 0.043450      | 0.023837       | 0.019613  | 0.023241      | 0.042854       |
|           | Winter On Peak  | 0.041479      | 0.023837       | 0.017642  | 0.023241      | 0.040883       |
|           | Off Peak        | 0.035582      | 0.023837       | 0.011745  | 0.023241      | 0.034986       |
| 42        | EH              | 0.062202      | 0.023837       | 0.038365  | 0.023241      | 0.061606       |
| 43        | SP              | 0.096130      | 0.023837       | 0.072293  | 0.023241      | 0.095534       |
| 44        | GS-FL           |               |                |           |               |                |
|           | 540 to 720 hrs. | 0.082708      | 0.023837       | 0.058871  | 0.023241      | 0.082112       |
|           | < 540 hrs.      | 0.095240      | 0.023837       | 0.071403  | 0.023241      | 0.094644       |
| 45        | DP              |               |                |           |               |                |
|           | First 300 kWh   | 0.051092      | 0.023837       | 0.027255  | 0.023241      | 0.050496       |
|           | Add'l kWh       | 0.043219      | 0.023837       | 0.019382  | 0.023241      | 0.042623       |
| 51        | TT              |               |                |           |               |                |
|           | Summer On Peak  | 0.049051      | 0.023837       | 0.025214  | 0.023241      | 0.048455       |
|           | Summer Off Peak | 0.040168      | 0.023837       | 0.016331  | 0.023241      | 0.039572       |
|           | Winter On Peak  | 0.046826      | 0.023837       | 0.022989  | 0.023241      | 0.046230       |
|           | Winter Off Peak | 0.040168      | 0.023837       | 0.016331  | 0.023241      | 0.039572       |
| 60        | SL              |               | 0.023837       |           | 0.023241      | 0.023241       |
| 61        | TL              |               |                |           |               |                |
|           | Energy Only     | 0.038903      | 0.023837       | 0.015066  | 0.023241      | 0.038307       |
|           | w/Maintenance   | 0.021543      | 0.023837       | -0.002294 | 0.023241      | 0.020947       |
| 62        | UOLS            | 0.038305      | 0.023837       | 0.014468  | 0.023241      | 0.037709       |
| 64        | LED             | 0.038305      | 0.023837       | 0.014468  | 0.023241      | 0.037709       |
| 66        | NSU             |               | 0.023837       |           | 0.023241      | 0.023241       |
| 68        | SC              | 0.038305      | 0.023837       | 0.014468  | 0.023241      | 0.037709       |
| 69        | SE              |               | 0.023837       |           | 0.023241      | 0.023241       |
| 80        | Rider FAC       | 0.023837      | 0.023837       |           | 0.023241      | 0.023241       |



DUKE ENERGY KENTUCKY

| Sheet |     |               |        |                 | Current   | Proposed  | Diff. in  |            |         |                 | Increase  | Current   | New |
|-------|-----|---------------|--------|-----------------|-----------|-----------|-----------|------------|---------|-----------------|-----------|-----------|-----|
| No.   | Loc | Fixture       | Lumens | Description     | Base Fuel | Base Fuel | Base Fuel | Annual kWh | Per Mo. | Change per Mth. | Rate/Unit | Rate/Unit |     |
| 60    | OH  | Standard MV   | 7,000  |                 | 0.023837  | 0.023241  | -0.000596 | 803        | 66.92   | -0.0399         | 7.27      | 7.23      |     |
| 60    | OH  | Standard MV   | 7,000  | Open Refractor  | 0.023837  | 0.023241  | -0.000596 | 853        | 71.08   | -0.0424         | 6.07      | 6.03      |     |
| 60    | OH  | Standard MV   | 10,000 |                 | 0.023837  | 0.023241  | -0.000596 | 1144       | 95.33   | -0.0568         | 8.39      | 8.33      |     |
| 60    | OH  | Standard MV   | 21,000 |                 | 0.023837  | 0.023241  | -0.000596 | 1789       | 149.08  | -0.0889         | 11.23     | 11.14     |     |
| 60    | OH  | Standard MH   | 14,000 |                 | 0.023837  | 0.023241  | -0.000596 | 803        | 66.92   | -0.0399         | 7.27      | 7.23      |     |
| 60    | OH  | Standard MH   | 20,500 |                 | 0.023837  | 0.023241  | -0.000596 | 1144       | 95.33   | -0.0568         | 8.39      | 8.33      |     |
| 60    | OH  | Standard MH   | 36,000 |                 | 0.023837  | 0.023241  | -0.000596 | 1789       | 149.08  | -0.0889         | 11.23     | 11.14     |     |
| 60    | OH  | Standard SV   | 9,500  |                 | 0.023837  | 0.023241  | -0.000596 | 487        | 40.58   | -0.0242         | 8.04      | 8.02      |     |
| 60    | OH  | Standard SV   | 9,500  | Open Refractor  | 0.023837  | 0.023241  | -0.000596 | 487        | 40.58   | -0.0242         | 6.04      | 6.02      |     |
| 60    | OH  | Standard SV   | 16,000 |                 | 0.023837  | 0.023241  | -0.000596 | 711        | 59.25   | -0.0353         | 8.77      | 8.73      |     |
| 60    | OH  | Standard SV   | 22,000 |                 | 0.023837  | 0.023241  | -0.000596 | 948        | 79.00   | -0.0471         | 11.37     | 11.32     |     |
| 60    | OH  | Standard SV   | 27,500 |                 | 0.023837  | 0.023241  | -0.000596 | 948        | 79.00   | -0.0471         | 11.37     | 11.32     |     |
| 60    | OH  | Standard SV   | 50,000 |                 | 0.023837  | 0.023241  | -0.000596 | 1959       | 163.25  | -0.0973         | 15.28     | 15.18     |     |
| 60    | OH  | Decorative SV | 9,500  | Rectilinear     | 0.023837  | 0.023241  | -0.000596 | 487        | 40.58   | -0.0242         | 10.00     | 9.98      |     |
| 60    | OH  | Decorative SV | 22,000 | Rectilinear     | 0.023837  | 0.023241  | -0.000596 | 1023       | 85.25   | -0.0508         | 12.36     | 12.31     |     |
| 60    | OH  | Decorative SV | 50,000 | Rectilinear     | 0.023837  | 0.023241  | -0.000596 | 1959       | 163.25  | -0.0973         | 16.35     | 16.25     |     |
| 60    | OH  | Decorative SV | 50,000 | Setback         | 0.023837  | 0.023241  | -0.000596 | 1959       | 163.25  | -0.0973         | 24.31     | 24.21     |     |
| 60    | UG  | Standard MV   | 7,000  |                 | 0.023837  | 0.023241  | -0.000596 | 874        | 72.83   | -0.0434         | 7.40      | 7.36      |     |
| 60    | UG  | Standard MV   | 7,000  | Open Refractor  | 0.023837  | 0.023241  | -0.000596 | 853        | 71.08   | -0.0424         | 6.07      | 6.03      |     |
| 60    | UG  | Standard MV   | 10,000 |                 | 0.023837  | 0.023241  | -0.000596 | 1215       | 101.25  | -0.0603         | 8.54      | 8.48      |     |
| 60    | UG  | Standard MV   | 21,000 |                 | 0.023837  | 0.023241  | -0.000596 | 1914       | 159.50  | -0.0951         | 11.50     | 11.40     |     |
| 60    | UG  | Standard MH   | 14,000 |                 | 0.023837  | 0.023241  | -0.000596 | 874        | 72.83   | -0.0434         | 7.40      | 7.36      |     |
| 60    | UG  | Standard MH   | 20,500 |                 | 0.023837  | 0.023241  | -0.000596 | 1215       | 101.25  | -0.0603         | 8.54      | 8.48      |     |
| 60    | UG  | Standard MH   | 36,000 |                 | 0.023837  | 0.023241  | -0.000596 | 1914       | 159.50  | -0.0951         | 11.50     | 11.40     |     |
| 60    | UG  | Standard SV   | 9,500  |                 | 0.023837  | 0.023241  | -0.000596 | 487        | 40.58   | -0.0242         | 8.04      | 8.02      |     |
| 60    | UG  | Standard SV   | 9,500  | Open Refractor  | 0.023837  | 0.023241  | -0.000596 | 487        | 40.58   | -0.0242         | 6.12      | 6.10      |     |
| 60    | UG  | Standard SV   | 16,000 |                 | 0.023837  | 0.023241  | -0.000596 | 711        | 59.25   | -0.0353         | 8.74      | 8.70      |     |
| 60    | UG  | Standard SV   | 22,000 |                 | 0.023837  | 0.023241  | -0.000596 | 948        | 79.00   | -0.0471         | 11.37     | 11.32     |     |
| 60    | UG  | Standard SV   | 50,000 |                 | 0.023837  | 0.023241  | -0.000596 | 1959       | 163.25  | -0.0973         | 15.28     | 15.18     |     |
| 60    | UG  | Decorative MV | 7,000  | Town & Country  | 0.023837  | 0.023241  | -0.000596 | 853        | 71.08   | -0.0424         | 7.65      | 7.61      |     |
| 60    | UG  | Decorative MV | 7,000  | Holophane       | 0.023837  | 0.023241  | -0.000596 | 874        | 72.83   | -0.0434         | 9.61      | 9.57      |     |
| 60    | UG  | Decorative MV | 7,000  | Gas Replica     | 0.023837  | 0.023241  | -0.000596 | 874        | 72.83   | -0.0434         | 21.96     | 21.92     |     |
| 60    | UG  | Decorative MV | 7,000  | Granville       | 0.023837  | 0.023241  | -0.000596 | 853        | 71.08   | -0.0424         | 7.73      | 7.69      |     |
| 60    | UG  | Decorative MV | 7,000  | Aspen           | 0.023837  | 0.023241  | -0.000596 | 874        | 72.83   | -0.0434         | 13.91     | 13.87     |     |
| 60    | UG  | Decorative MH | 14,000 | Traditionaire   | 0.023837  | 0.023241  | -0.000596 | 853        | 71.08   | -0.0424         | 7.64      | 7.60      |     |
| 60    | UG  | Decorative MH | 14,000 | Granville Acorn | 0.023837  | 0.023241  | -0.000596 | 874        | 72.83   | -0.0434         | 13.91     | 13.87     |     |
| 60    | UG  | Decorative MH | 14,000 | Gas Replica     | 0.023837  | 0.023241  | -0.000596 | 874        | 72.83   | -0.0434         | 22.04     | 22.00     |     |
| 60    | UG  | Decorative SV | 9,500  | Town & Country  | 0.023837  | 0.023241  | -0.000596 | 487        | 40.58   | -0.0242         | 11.17     | 11.15     |     |
| 60    | UG  | Decorative SV | 9,500  | Holophane       | 0.023837  | 0.023241  | -0.000596 | 532        | 44.33   | -0.0264         | 12.10     | 12.07     |     |
| 60    | UG  | Decorative SV | 9,500  | Rectilinear     | 0.023837  | 0.023241  | -0.000596 | 487        | 40.58   | -0.0242         | 9.02      | 9.00      |     |
| 60    | UG  | Decorative SV | 9,500  | Gas Replica     | 0.023837  | 0.023241  | -0.000596 | 532        | 44.33   | -0.0264         | 22.75     | 22.72     |     |
| 60    | UG  | Decorative SV | 9,500  | Aspen           | 0.023837  | 0.023241  | -0.000596 | 532        | 44.33   | -0.0264         | 14.09     | 14.06     |     |
| 60    | UG  | Decorative SV | 9,500  | Traditionaire   | 0.023837  | 0.023241  | -0.000596 | 487        | 40.58   | -0.0242         | 11.17     | 11.15     |     |
| 60    | UG  | Decorative SV | 9,500  | Granville Acorn | 0.023837  | 0.023241  | -0.000596 | 532        | 44.33   | -0.0264         | 14.09     | 14.06     |     |
| 60    | UG  | Decorative SV | 22,000 | Rectilinear     | 0.023837  | 0.023241  | -0.000596 | 1023       | 85.25   | -0.0508         | 12.42     | 12.37     |     |
| 60    | UG  | Decorative SV | 50,000 | Rectilinear     | 0.023837  | 0.023241  | -0.000596 | 1959       | 163.25  | -0.0973         | 16.41     | 16.31     |     |
| 60    | UG  | Decorative SV | 50,000 | Setback         | 0.023837  | 0.023241  | -0.000596 | 1959       | 163.25  | -0.0973         | 24.31     | 24.21     |     |

DUKE ENERGY KENTUCKY

| Sheet |       |     |        | Current   | Proposed  | Diff. in  |            |         | Increase        | Current   | New       |
|-------|-------|-----|--------|-----------|-----------|-----------|------------|---------|-----------------|-----------|-----------|
| No.   | Owner | LOC | Lumens | Base Fuel | Base Fuel | Base Fuel | Annual kWh | Per Mo. | Change per Mth. | Rate/Unit | Rate/Unit |
| 66    | Comp  | UG  | 2500   | 0.023837  | 0.023241  | -0.000596 | 616        | 51.33   | -0.0306         | 9.42      | 9.39      |
| 66    | Comp  | UG  | 2500   | 0.023837  | 0.023241  | -0.000596 | 786        | 65.50   | -0.0390         | 7.32      | 7.28      |
| 66    | Comp  | UG  | 10000  | 0.023837  | 0.023241  | -0.000596 | 1215       | 101.25  | -0.0603         | 17.16     | 17.10     |
| 66    | Comp  | OH  | 2500   | 0.023837  | 0.023241  | -0.000596 | 786        | 65.50   | -0.0390         | 7.26      | 7.22      |
| 66    | Comp  | OH  | 2500   | 0.023837  | 0.023241  | -0.000596 | 453        | 37.75   | -0.0225         | 6.87      | 6.85      |
| 66    | Comp  | OH  | 21000  | 0.023837  | 0.023241  | -0.000596 | 1914       | 159.50  | -0.0951         | 10.89     | 10.79     |
| 66    | Cust  | UG  | 2500   | 0.023837  | 0.023241  | -0.000596 | 616        | 51.33   | -0.0306         | 5.56      | 5.53      |
| 66    | Cust  | UG  | 2500   | 0.023837  | 0.023241  | -0.000596 | 786        | 65.50   | -0.0390         | 7.07      | 7.03      |

DUKE ENERGY KENTUCKY

| Sheet No. | Fixture       | Lumens | Description     | Current Base Fuel | Proposed Base Fuel | Diff. in Base Fuel | Annual kWh | Per Mo. | Increase Change per Mth. | Current Rate/Unit | New Rate/Unit |
|-----------|---------------|--------|-----------------|-------------------|--------------------|--------------------|------------|---------|--------------------------|-------------------|---------------|
| 68        | Standard MV   | 7,000  |                 | 0.023837          | 0.023241           | -0.000596          | 803        | 66.92   | -0.0399                  | 4.28              | 4.24          |
| 68        | Standard MV   | 10,000 |                 | 0.023837          | 0.023241           | -0.000596          | 1144       | 95.33   | -0.0568                  | 5.45              | 5.39          |
| 68        | Standard MV   | 21,000 |                 | 0.023837          | 0.023241           | -0.000596          | 1789       | 149.08  | -0.0889                  | 7.56              | 7.47          |
| 68        | Standard MH   | 14,000 |                 | 0.023837          | 0.023241           | -0.000596          | 803        | 66.92   | -0.0399                  | 4.28              | 4.24          |
| 68        | Standard MH   | 20,500 |                 | 0.023837          | 0.023241           | -0.000596          | 1144       | 95.33   | -0.0568                  | 5.45              | 5.39          |
| 68        | Standard MH   | 36,000 |                 | 0.023837          | 0.023241           | -0.000596          | 1789       | 149.08  | -0.0889                  | 7.56              | 7.47          |
| 68        | Standard SV   | 9,500  |                 | 0.023837          | 0.023241           | -0.000596          | 487        | 40.58   | -0.0242                  | 5.15              | 5.13          |
| 68        | Standard SV   | 16,000 |                 | 0.023837          | 0.023241           | -0.000596          | 711        | 59.25   | -0.0353                  | 5.74              | 5.70          |
| 68        | Standard SV   | 22,000 |                 | 0.023837          | 0.023241           | -0.000596          | 948        | 79.00   | -0.0471                  | 6.31              | 6.26          |
| 68        | Standard SV   | 27,500 |                 | 0.023837          | 0.023241           | -0.000596          | 948        | 79.00   | -0.0471                  | 6.31              | 6.26          |
| 68        | Standard SV   | 50,000 |                 | 0.023837          | 0.023241           | -0.000596          | 1959       | 163.25  | -0.0973                  | 8.54              | 8.44          |
| 68        | Decorative MV | 7,000  | Holophane       | 0.023837          | 0.023241           | -0.000596          | 874        | 72.83   | -0.0434                  | 5.44              | 5.40          |
| 68        | Decorative MV | 7,000  | Town & Country  | 0.023837          | 0.023241           | -0.000596          | 853        | 71.08   | -0.0424                  | 5.39              | 5.35          |
| 68        | Decorative MV | 7,000  | Gas Replica     | 0.023837          | 0.023241           | -0.000596          | 874        | 72.83   | -0.0434                  | 5.44              | 5.40          |
| 68        | Decorative MV | 7,000  | Aspen           | 0.023837          | 0.023241           | -0.000596          | 874        | 72.83   | -0.0434                  | 5.44              | 5.40          |
| 68        | Decorative MH | 14,000 | Traditionaire   | 0.023837          | 0.023241           | -0.000596          | 853        | 71.08   | -0.0424                  | 5.39              | 5.35          |
| 68        | Decorative MH | 14,000 | Granville Acorn | 0.023837          | 0.023241           | -0.000596          | 874        | 72.83   | -0.0434                  | 5.44              | 5.40          |
| 68        | Decorative MH | 14,000 | Gas Replica     | 0.023837          | 0.023241           | -0.000596          | 874        | 72.83   | -0.0434                  | 5.44              | 5.40          |
| 68        | Decorative SV | 9,500  | Town & Country  | 0.023837          | 0.023241           | -0.000596          | 487        | 40.58   | -0.0242                  | 5.07              | 5.05          |
| 68        | Decorative SV | 9,500  | Traditionaire   | 0.023837          | 0.023241           | -0.000596          | 487        | 40.58   | -0.0242                  | 5.07              | 5.05          |
| 68        | Decorative SV | 9,500  | Granville Acorn | 0.023837          | 0.023241           | -0.000596          | 532        | 44.33   | -0.0264                  | 5.29              | 5.26          |
| 68        | Decorative SV | 9,500  | Rectilinear     | 0.023837          | 0.023241           | -0.000596          | 487        | 40.58   | -0.0242                  | 5.07              | 5.05          |
| 68        | Decorative SV | 9,500  | Aspen           | 0.023837          | 0.023241           | -0.000596          | 532        | 44.33   | -0.0264                  | 5.29              | 5.26          |
| 68        | Decorative SV | 9,500  | Holophane       | 0.023837          | 0.023241           | -0.000596          | 532        | 44.33   | -0.0264                  | 5.29              | 5.26          |
| 68        | Decorative SV | 9,500  | Gas Replica     | 0.023837          | 0.023241           | -0.000596          | 532        | 44.33   | -0.0264                  | 5.29              | 5.26          |
| 68        | Decorative SV | 22,000 | Rectilinear     | 0.023837          | 0.023241           | -0.000596          | 1023       | 85.25   | -0.0508                  | 6.68              | 6.63          |
| 68        | Decorative SV | 50,000 | Rectilinear     | 0.023837          | 0.023241           | -0.000596          | 1959       | 163.25  | -0.0973                  | 8.84              | 8.74          |

DUKE ENERGY KENTUCKY

| Sheet |               |        | Current   | Proposed  | Diff. in  | Increase   |         |                 | Current   | New       |
|-------|---------------|--------|-----------|-----------|-----------|------------|---------|-----------------|-----------|-----------|
| No.   | Fixture       | Lumens | Base Fuel | Base Fuel | Base Fuel | Annual kWh | Per Mo. | Change per Mth. | Rate/Unit | Rate/Unit |
| 69    | Decorative MV | 7,000  | 0.023837  | 0.023241  | -0.000596 | 853        | 71.08   | -0.0424         | 7.45      | 7.41      |
| 69    | Decorative MV | 7,000  | 0.023837  | 0.023241  | -0.000596 | 874        | 72.83   | -0.0434         | 7.48      | 7.44      |
| 69    | Decorative MV | 7,000  | 0.023837  | 0.023241  | -0.000596 | 874        | 72.83   | -0.0434         | 7.48      | 7.44      |
| 69    | Decorative MV | 7,000  | 0.023837  | 0.023241  | -0.000596 | 874        | 72.83   | -0.0434         | 7.48      | 7.44      |
| 69    | Decorative MH | 14,000 | 0.023837  | 0.023241  | -0.000596 | 853        | 71.08   | -0.0424         | 7.45      | 7.41      |
| 69    | Decorative MH | 14,000 | 0.023837  | 0.023241  | -0.000596 | 874        | 72.83   | -0.0434         | 7.48      | 7.44      |
| 69    | Decorative MH | 14,000 | 0.023837  | 0.023241  | -0.000596 | 874        | 72.83   | -0.0434         | 7.48      | 7.44      |
| 69    | Decorative SV | 9,500  | 0.023837  | 0.023241  | -0.000596 | 487        | 40.58   | -0.0242         | 8.12      | 8.10      |
| 69    | Decorative SV | 9,500  | 0.023837  | 0.023241  | -0.000596 | 532        | 44.33   | -0.0264         | 8.23      | 8.20      |
| 69    | Decorative SV | 9,500  | 0.023837  | 0.023241  | -0.000596 | 487        | 40.58   | -0.0242         | 8.12      | 8.10      |
| 69    | Decorative SV | 9,500  | 0.023837  | 0.023241  | -0.000596 | 532        | 44.33   | -0.0264         | 8.22      | 8.19      |
| 69    | Decorative SV | 9,500  | 0.023837  | 0.023241  | -0.000596 | 532        | 44.33   | -0.0264         | 8.22      | 8.19      |
| 69    | Decorative SV | 9,500  | 0.023837  | 0.023241  | -0.000596 | 487        | 40.58   | -0.0242         | 8.12      | 8.10      |
| 69    | Decorative SV | 9,500  | 0.023837  | 0.023241  | -0.000596 | 532        | 44.33   | -0.0264         | 8.22      | 8.19      |
| 69    | Decorative SV | 22,000 | 0.023837  | 0.023241  | -0.000596 | 1023       | 85.25   | -0.0508         | 11.67     | 11.62     |
| 69    | Decorative SV | 50,000 | 0.023837  | 0.023241  | -0.000596 | 1959       | 163.25  | -0.0973         | 15.44     | 15.34     |
| 69    | Decorative SV | 50,000 | 0.023837  | 0.023241  | -0.000596 | 1959       | 163.25  | -0.0973         | 15.44     | 15.34     |

**Duke Energy Kentucky**  
**Case No. 2019-00006**  
**STAFF First Set Data Requests**  
**Date Received: February 11, 2019**

**STAFF-DR-01-027**

**REQUEST:**

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

**RESPONSE:**

See STAFF-DR-01-027 Attachment.

**PERSON RESPONSIBLE:** Ted Czupik

Sheet No. 10  
 Duke Energy Kentucky, Inc.  
 4580 Olympic Blvd.  
 No. 10  
 Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Seventy-Sixth~~Seventy-Seventh Revised  
 Cancels and Supersedes  
~~Seventy-Fifth~~Seventy-Sixth Revised Sheet  
 Page 1 of 4

**INDEX TO APPLICABLE ELECTRIC TARIFF SCHEDULES AND COMMUNITIES SERVED**

|  | <u>Sheet No.</u> | <u>Effective Date</u> |     |
|--|------------------|-----------------------|-----|
| <b><u>SERVICE REGULATIONS</u></b>                                  |                  |                       |     |
| Service Agreements.....  | 20               | 04/14/18              |     |
| Supplying and Taking of Service.....                               | 21               | 04/14/18              |     |
| Customer's Installations.....                                      | 22               | 04/14/18              |     |
| Company's Installation.....  | 23               | 04/14/18              |     |
| Metering.....  | 24               | 04/14/18              |     |
| Billing and Payment.....   | 25               | 04/14/18              |     |
| Deposits.....  | 26               | 04/14/18              |     |
| Application of Service Regulations.....                            | 27               | 04/14/18              |     |
| Reserved for Future Use.....                                       | 28-29            |                       |     |
| <b><u>RESIDENTIAL SERVICE</u></b>                                  |                  |                       |     |
| Rate RS, Residential Service.....                                  | 30               | <del>10/02/18</del>   | (T) |
| Reserved for Future Use.....                                       | 31-39            |                       |     |
| <b><u>DISTRIBUTION VOLTAGE SERVICE</u></b>                         |                  |                       |     |
| Rate DS, Service at Secondary Distribution Voltage.....            | 40               | <del>10/02/18</del>   | (T) |
| Rate DT, Time-of-Day Rate For Service at Distribution Voltage..... | 41               | <del>10/02/18</del>   | (T) |
| Rate EH, Optional Rate for Electric Space Heating.....             | 42               | <del>04/14/18</del>   | (T) |
| Rate SP, Seasonal Sports Service.....                              | 43               | <del>04/14/18</del>   | (T) |
| Rate GS-FL, General Service Rate for Small Fixed Loads.....        | 44               | <del>04/14/18</del>   | (T) |
| Rate DP, Service at Primary Distribution Voltage.....              | 45               | <del>04/14/18</del>   | (T) |
| Reserved for Future Use.....                                       | 46-49            |                       |     |
| <b><u>TRANSMISSION VOLTAGE SERVICE</u></b>                         |                  |                       |     |
| Reserved for Future Use.....                                       | 50               |                       |     |
| Rate TT, Time-of-Day Rate for Service at Transmission Voltage..... | 51               | <del>10/02/18</del>   | (T) |
| Reserved for Future Use.....                                       | 52-57            |                       |     |
| Rider GSS, Generation Support Service.....                         | 58               | 04/14/18              |     |
| Rate RTP-M, Real Time Pricing – Market Based Pricing.....          | 59               | 04/14/18              |     |

Issued by authority of an Order by the Kentucky Public Service  
 Commission dated April 13, 2018 in Case No. 2017-003242019-00006

Issued: ~~January 30, 2019~~  
 Effective: ~~March 1, 2019~~  
 Issued by Amy B. Spiller, President /s/ Amy B. Spiller

KY.P.S.C. Electric No. 2  
~~Seventy-Sixth~~Seventy-Seventh Revised

Sheet No. 10  
 Duke Energy Kentucky, Inc.  
 4580 Olympic Blvd.  
 No. 10  
 Erlanger, Kentucky 41018

Cancels and Supersedes  
~~Seventy-Fifth~~Seventy-Sixth Revised Sheet

Page 2 of 4

**INDEX TO APPLICABLE ELECTRIC TARIFF SCHEDULES AND COMMUNITIES SERVED (Contd.)**

|  | <u>Sheet No.</u> | <u>Effective Date</u> |     |
|--|------------------|-----------------------|-----|
| <b><u>LIGHTING SERVICE</u></b>                                 |                  |                       |     |
| Rate SL, Street Lighting Service.....                          | 60               | <del>04/14/18</del>   | (T) |
| Rate TL, Traffic Lighting Service.....                         | 61               | <del>04/14/18</del>   | (T) |
| Rate UOLS, Unmetered Outdoor Lighting.....                     | 62               | <del>04/14/18</del>   | (T) |
| Rate OL-E, Outdoor Lighting Equipment Installation.....        | 63               | <del>04/14/18</del>   | (T) |
| Rate LED, Outdoor LED Lighting Service.....                    | 64               | <del>10/02/18</del>   | (T) |
| Rate OL, Outdoor Lighting Service.....                         | 65               | <del>04/14/18</del>   | (T) |
| Rate NSU, Street Lighting Service for Non-Standard Units.....  | 66               | <del>04/14/18</del>   | (T) |
| Rate NSP, Private Outdoor Lighting for Non-Standard Units..... | 67               | 04/14/18              |     |
| Rate SC, Street Lighting Service – Customer Owned.....         | 68               | <del>04/14/18</del>   | (T) |
| Rate SE, Street Lighting Service – Overhead Equivalent.....    | 69               | <del>04/14/18</del>   | (T) |
| <b><u>TARIFF RIDERS</u></b>                                    |                  |                       |     |
| Rider PPS, Premier Power Service.....                          | 70               | 04/14/18              |     |
| Rider TS, Temporary Service.....                               | 71               | 04/14/18              |     |
| Rider X, Line Extension.....                                   | 72               | 04/14/18              |     |
| Rider LM, Load Management Rider.....                           | 73               | 04/14/18              |     |
| Rider AMO, Advanced Meter Opt-out - Residential.....           | 74               | 04/14/18              |     |
| Rider DSM, Demand Side Management Cost Recovery Program...     | 75               | 09/30/10              |     |
| Rider ESM, Environmental Surcharge Mechanism .....             | 76               | 04/14/18              |     |
| <br>   |                  |                       |     |
| Rider PLM, Peak Load Management Program.....                   | 77               | 09/30/10              |     |
| Rider DSMR, Demand Side Management Rate.....                   | 78               | 10/01/18              |     |
| Rider BDP, Backup Delivery Point Capacity Rider .....          | 79               | 04/14/18              |     |
| <b><u>FUEL RIDERS</u></b>                                      |                  |                       |     |
| Rider FAC, Fuel Adjustment Clause.....                         | 80               | <del>04/14/18</del>   | (T) |
| Reserved for Future Use.....                                   | 81               |                       |     |
| Rider PSM, Off-System Sales Profit Sharing Mechanism.....      | 82               | 03/01/19              | (T) |
| Reserved for Future Use.....                                   | 83               |                       |     |
| Reserved for Future Use.....                                   | 84               |                       |     |
| Rider BR, Brownfield Redevelopment Rider.....                  | 85               | 04/14/18              |     |
| Rider DIR, Development Incentive Rider.....                    | 86               | 04/14/18              |     |
| Reserved for Future Use.....                                   | 87               |                       |     |
| Rider GP, Green Power Rider.....                               | 88               | 04/14/18              |     |
| Rider NM, Net Metering Rider.....                              | 89               | 04/14/18              |     |

Issued by authority of an Order by the Kentucky Public Service  
 Commission dated April 13, 2018 in Case No. 2017-003212019-00006

Issued: ~~January 30, 2019~~  
 Effective: ~~March 1, 2019~~  
 Issued by Amy B. Spiller, President /s/ Amy B. Spiller

KY.P.S.C. Electric No. 2  
~~Seventy-Sixth~~Seventy-Seventh Revised

Sheet No. 10  
 Duke Energy Kentucky, Inc.  
 4580 Olympic Blvd.  
 No. 10  
 Erlanger, Kentucky 41018

Cancels and Supersedes  
~~Seventy-Fifth~~Seventy-Sixth Revised Sheet

Page 3 of 4

**INDEX TO APPLICABLE ELECTRIC TARIFF SCHEDULES AND COMMUNITIES SERVED (Contd.)**

|   | <u>Sheet No.</u> | <u>Effective Date</u> |
|---|------------------|-----------------------|
| <b><u>MISCELLANEOUS</u></b>   |                  |                       |
| Bad Check Charge.....   | 90               | 04/14/18              |
| Charge for Reconnection of Service.....   | 91               | 04/14/18              |
| Rate DPA, Distribution Pole Attachments.....  | 92               | 04/14/18              |
| Cogeneration and Small Power Production Sale and<br>Purchase – 100 kW or Less.....      | 93               | 10/02/18              |
| Cogeneration And Small Power Production Sale and<br>Purchase – Greater Than 100 kW..... | 94               | 10/02/18              |
| Local Franchise Fee.....  | 95               | 04/14/18              |
| Rate UDP-R, Underground Residential Distribution Policy.....                            | 96               | 04/14/18              |
| Rate UDP-G, General Underground Distribution Policy.....                                | 97               | 04/14/18              |
| Electricity Emergency Procedures for Long Term Fuel<br>Shortages.....                   | 98               | 04/14/18              |
| Rate RTP, Real Time Pricing Program.....  | 99               | 04/14/18              |
| Emergency Electric Procedures.....  | 100              | 04/14/18              |
| Rate MDC, Meter Data Charges.....   | 101              | 04/14/18              |
| Appliance Recycling Program.....  | 102              | 10/01/18              |
| Energy Efficiency Education Program For Schools Program (EEEPS).                        | 103              | 10/01/18              |
| Residential Smart Saver.....  | 104              | 10/01/18              |
| Low Income Neighborhood Program.....  | 105              | 10/01/18              |
| Low Income Services Program.....  | 106              | 10/01/18              |
| My Home Energy Report Program.....  | 107              | 10/01/18              |
| Residential Direct Load Control – Power Manager Program.....                            | 108              | 10/01/18              |
| Residential Home Energy House Call.....   | 109              | 10/01/18              |
| Energy Star Products.....   | 110              | 10/01/18              |
| Smart \$aver Custom Program.....  | 111              | 10/01/18              |
| Smart \$aver Energy Assessments Program.....  | 112              | 10/01/18              |
| CI High Efficiency Incentive.....   | 113              | 10/01/18              |
| Energy Efficiency Website.....  | 114              | 10/01/18              |
| Personalized Energy Report (PER).....   | 115              | 10/01/18              |
| Smart \$aver Custom Program.....  | 116              | 10/01/18              |
| Payment Plus.....   | 117              | 10/01/18              |
| Small Business Energy Saver Program.....  | 118              | 10/01/18              |
| Non-Residential Pay For Performance Program.....  | 121              | 10/01/18              |

Issued by authority of an Order by the Kentucky Public Service  
 Commission dated April 13, 2018 in Case No. 2017-003212019-00006

Issued: ~~January 30, 2019~~  
 Effective: ~~March 1, 2019~~  
 Issued by Amy B. Spiller, President /s/ Amy B. Spiller



KY.P.S.C. Electric No. 2  
~~Seventy-Sixth~~Seventy-Seventh Revised

Sheet No. 10  
Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
No. 10  
Erlanger, Kentucky 41018

Cancels and Supersedes  
~~Seventy-Fifth~~Seventy-Sixth Revised Sheet

Page 4 of 4

**INDEX TO APPLICABLE ELECTRIC TARIFF SCHEDULES AND COMMUNITIES SERVED**

**COMMUNITIES SERVED:**

|                  |                  |
|------------------|------------------|
| Alexandria       | Highland Heights |
| Bellevue         | Independence     |
| Boone County     | Kenton County    |
| Bromley          | Kenton Vale      |
| Campbell County  | Lakeside Park    |
| Cold Spring      | Latonia Lakes    |
| Covington        | Ludlow           |
| Crescent Park    | Melbourne        |
| Crescent Springs | Newport          |
| Crestview        | Park Hills       |
| Crestview Hills  | Pendleton County |
| Crittenden       | Ryland Heights   |
| Dayton           | Silver Grove     |
| Dry Ridge        | Southgate        |
| Edgewood         | Taylor Mill      |
| Elsmere          | Union            |
| Erlanger         | Villa Hills      |
| Fairview         | Walton           |
| Florence         | Wilder           |
| Fort Mitchell    |                  |
| Fort Thomas      | Woodlawn         |
| Fort Wright      |                  |
| Grant County     |                  |

Issued by authority of an Order by the Kentucky Public Service  
Commission dated April 13, 2018 in Case No. 2017-00324-2019-00006

Issued: ~~January 30, 2019~~  
Effective: ~~March 1, 2019~~  
Issued by Amy B. Spiller, President /s/ Amy B. Spiller

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Ninth-Tenth~~ Revised Sheet No. 30  
Cancels and Supersedes  
~~Eighth-Ninth~~ Revised Sheet No. 30  
Page 1 of 2

## 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 \$11.00 per month
  - (b) Energy Charge  
All kilowatt hours ~~\$0.0716590~~ 0.071054 per kWh (±R)
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 ~~October 2, 2018~~ in Case No. ~~2017-~~  
~~003212019-00006~~.

Issued: ~~October 11, 2018~~

Effective: ~~October 2, 2018~~

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

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Ninth-Tenth~~ Revised Sheet No. 30  
Cancels and Supersedes  
~~Eighth-Ninth~~ Revised Sheet No. 30  
Page 2 of 2

---

**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**

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 ~~\_\_\_ October 2, 2018~~ in Case No. ~~2017-~~  
~~003212019-00006~~.

---

Issued: ~~October 11, 2018~~

Effective: ~~October 2, 2018~~

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

Duke Energy Kentucky, Inc.  
 4580 Olympic Blvd.  
 Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Ninth-Tenth~~ Revised Sheet No. 40  
 Cancels and Supersedes  
~~Eighth-Ninth~~ Revised Sheet No. 40  
 Page 1 of 4

**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 \$0.236915 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 | \$ 17.14 | per month |
| Three Phase Service  | \$ 34.28 | per month |

(b) Demand Charge

|                      |         |        |
|----------------------|---------|--------|
| First 15 kilowatts   | \$ 0.00 | per kW |
| Additional kilowatts | \$ 8.25 | per kW |

(c) Energy Charge

|                 |  |         |      |
|-----------------|--|---------|------|
| First 6,000 kWh | <del>\$0.0802000</del> <u>0.079604</u> | per kWh | (±R) |
| Next 300 kWh/kW | <del>\$0.0492320</del> <u>0.048636</u> | per kWh | (±R) |
| Additional kWh  | <del>\$0.0403170</del> <u>0.039721</u> | per kWh | (±R) |

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 ~~October 2, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

Issued: ~~October 11, 2018~~

Effective: ~~October 2, 2018~~

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

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Ninth-Tenth~~ Revised Sheet No. 40  
Cancels and Supersedes  
~~Eighth-Ninth~~ Revised Sheet No. 40  
Page 2 of 4

### 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 \$0.145445 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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~\_\_\_ October 2, 2018~~ in Case No. ~~2017-~~  
~~003212019-00006~~.

Issued: ~~October 11, 2018~~

Effective: ~~October 2, 2018~~

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

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Ninth-Tenth~~ Revised Sheet No. 40  
Cancels and Supersedes  
~~Eighth-Ninth~~ Revised Sheet No. 40  
Page 3 of 4

#### **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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~\_\_\_ October 2, 2018~~ in Case No. ~~2017-~~  
~~003212019-00006~~.

Issued: ~~October 11, 2018~~

Effective: ~~October 2, 2018~~

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

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Ninth-Tenth~~ Revised Sheet No. 40  
Cancels and Supersedes  
~~Eighth-Ninth~~ Revised Sheet No. 40  
Page 4 of 4

---

**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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~\_\_\_ October 2, 2018~~ in Case No. ~~2017-~~  
~~003212019-00006~~.

---

Issued: ~~October 11, 2018~~

Effective: ~~October 2, 2018~~

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

Duke Energy Kentucky, Inc.  
 4580 Olympic Blvd.  
 Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Ninth-Tenth~~ Revised Sheet No. 41  
 Cancels and Supersedes  
~~Eighth-Ninth~~ Revised Sheet No. 41  
 Page 1 of 4

**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  | \$ 13.78 | per kW |  |
| Off Peak kW | \$ 1.24  | per kW |  |
| Winter      |          |        |  |
| On Peak kW  | \$ 13.04 | per kW |  |
| Off Peak kW | \$ 1.24  | per kW |  |

(c) Energy Charge

|                    |                    |         |      |
|--------------------|--------------------|---------|------|
| Summer On Peak kWh | \$0.0434500.042854 | per kWh | (±R) |
| Winter On Peak kWh | \$0.0414790.040883 | per kWh | (±R) |
| Off Peak kWh       | \$0.0355820.034986 | per kWh | (±R) |

Issued by authority of an Order of the Kentucky Public Service  
 Commission dated October 2, 2018 in Case No. 2017-  
003212019-00006.

Issued: October 11, 2018

Effective: October 2, 2018

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



Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Ninth-Tenth~~ Revised Sheet No. 41  
Cancels and Supersedes  
~~Eighth-Ninth~~ Revised Sheet No. 41  
Page 2 of 4

#### 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 \$0.70 per kW.  
Additional kW of On Peak billing demand at \$0.54 per kW.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated October 2, 2018 in Case No. 2017-  
003212019-00006.

Issued: October 11, 2018

Effective: October 2, 2018

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

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Ninth-Tenth~~ Revised Sheet No. 41  
Cancels and Supersedes  
~~Eighth-Ninth~~ Revised Sheet No. 41  
Page 3 of 4

#### **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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~October 2, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

Issued: ~~October 11, 2018~~

Effective: ~~October 2, 2018~~

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

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Ninth-Tenth~~ Revised Sheet No. 41  
Cancels and Supersedes  
~~Eighth-Ninth~~ Revised Sheet No. 41  
Page 4 of 4

---

**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  
Commission dated ~~\_\_\_October 2, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

---

Issued: ~~October 11, 2018~~

Effective: ~~October 2, 2018~~

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

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 42  
Cancels and Supersedes  
~~Seventh-Eighth~~ 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. ~~(P)~~  
~~(P)~~

**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    | \$ 17.14 per month                    | <del>(I)</del> |
| Three Phase Service     | \$ 34.28 per month                    | <del>(I)</del> |
| Primary Voltage Service | \$ 117.00 per month                   | <del>(I)</del> |
| (b) Energy Charge       |                                       |                |
| All kWh                 | <del>\$0.0622020_061606</del> per kWh | <del>(R)</del> |

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 ~~(N)~~

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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~\_\_\_ April 13, 2018~~ in Case No. ~~2017-~~  
~~003212019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~  
~~James P. Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 42  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 42  
Page 2 of 2

**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.

Issued by authority of an Order of the Kentucky Public Service Commission dated April 13, 2018 in Case No. 2017-003242019-00006.

Issued: April 30, 2018

Effective: April 14, 2018

Issued by Amy B. Spiller, President /s/ Amy B. Spiller ~~James P. Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 43  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 43  
Page 1 of 2

**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 | \$17.14                                | per month | (+) |
| (b) Energy Charge   | <del>\$0.0961300</del> <u>0.095534</u> | per kWh   | (R) |

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 of \$25.00 is applicable to each season to cover in part the cost of reconnection of service.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~April 13, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~ James P. Henning, President /s/ James P. Henning

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, Kentucky 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 43  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 43  
Page 2 of 2

---

**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.

Issued by authority of an Order of the Kentucky Public Service Commission dated ~~\_\_\_April 13, 2018~~ in Case No. ~~2017-00324~~2019-00006.

---

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~James P. Henning, President /s/ James P. Henning

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 44  
Cancels and Supersedes  
~~Seventh-Eighth~~ 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 \$~~0.0827080~~ 0.082112 per kWh (±R)
- (b) For loads of less than 540 hours use per month of the rated capacity of the connected equipment \$~~0.0952400~~ 0.094644 per kWh (±R)

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 (N)
- 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: \$2.98 per Fixed Load Location per month. (R)

**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.

Issued by authority of an Order of the Kentucky Public Service Commission dated ~~April 13, 2018~~ in Case No. ~~2017-003242019-00006~~.

Issued: ~~April 30, 2018~~  
Effective: ~~April 14, 2018~~  
Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~ ~~James P. Henning, President /s/ James P. Henning~~



Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 44  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 44  
Page 2 of 2

#### **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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~\_\_\_April 13, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~  
~~James P. Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
 4580 Olympic Blvd.  
 Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 45  
 Cancels and Supersedes  
~~Seventh-Eighth~~ 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, electric fuel component charges and DSM Charge shall not exceed \$0.241312 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                             | \$ | 7.92                                 | per kW    | (+) |
| (c) Energy Charge                         |    |                                      |           |     |
| First 300 kWh/kW                          | \$ | <del>0.0510920</del> <u>0.050496</u> | per kWh   | (±) |
| Additional kWh                            | \$ | <del>0.0432190</del> <u>0.042623</u> | per kWh   | (±) |

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 ~~April 13, 2018~~ in Case No. ~~2017-00324~~ 2019-00006.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~ James P. Henning, President /s/ James P. Henning

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 45  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 45  
Page 2 of 3

#### 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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~April 13, 2018~~ in Case No. ~~2017-~~  
~~003212019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~  
~~James P. Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 45  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 45  
Page 3 of 3

#### 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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~\_\_\_ April 13, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller James P.~~  
~~Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
 4580 Olympic Blvd.  
 Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Ninth-Tenth~~ Revised Sheet No. 51  
 Cancels and Supersedes  
~~Eighth-Ninth~~ Revised Sheet No. 51  
 Page 1 of 3

**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          |  | \$ 8.07                                 | per kW       |
| Off Peak kW         |  | \$ 1.22                                 | per kW       |
| Winter              |  |   |              |
| On Peak kW          |  | \$ 6.62                                 | per kW       |
| Off Peak kW         |  | \$ 1.22                                 | per kW       |
| (c) Energy Charge   |  |   |              |
| Summer              |  |   |              |
| On Peak kWh         |  | \$ <del>0.0490540</del> <u>0.048455</u> | per kWh (±R) |
| Off Peak kWh        |  | \$ <del>0.0404680</del> <u>0.039572</u> | per kWh (±R) |
| Winter              |  |   |              |
| On Peak kWh         |  | \$ <del>0.0468260</del> <u>0.046230</u> | per kWh (±R) |
| Off Peak kWh        |  | \$ <del>0.0404680</del> <u>0.039572</u> | per kWh (±R) |

Issued by authority of an Order of the Kentucky Public Service Commission dated October 2, 2018 in Case No. ~~2017-00324~~ 2019-00006.

Issued: October 11, 2018

Effective: October 2, 2018

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

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Ninth-Tenth~~ Revised Sheet No. 51  
Cancels and Supersedes  
~~Eighth-Ninth~~ 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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~October 2, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

Issued: ~~October 11, 2018~~

Effective: ~~October 2, 2018~~

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

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Ninth-Tenth~~ Revised Sheet No. 51  
Cancels and Supersedes  
~~Eighth-Ninth~~ Revised Sheet No. 51  
Page 3 of 3

---

#### **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 October 2, 2018 in Case No. 2017-  
003242019-00006.

---

Issued: October 11, 2018

Effective: October 2, 2018

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

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 60  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 60  
Page 1 of 6

## 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:

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~\_\_\_April 13, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~  
~~James P. Henning, President /s/ James P. Henning~~



Duke Energy Kentucky, Inc.  
 4580 Olympic Blvd.  
 Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 60  
 Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 60  
 Page 2 of 6

**NET MONTHLY BILL (Contd.)**

1. Base Rate

OVERHEAD DISTRIBUTION AREA

| Fixture Description           | Lamp<br>Watt | kW/Unit | Annual<br>kWh | Rate/Unit               |     |
|-------------------------------|--------------|---------|---------------|-------------------------|-----|
| Standard Fixture (Cobra Head) |              |         |               |                         |     |
| Mercury Vapor                 |              |         |               |                         |     |
| 7,000 lumen                   | 175          | 0.193   | 803           | \$ <del>7,277.23</del>  | (R) |
| 7,000 lumen (Open Refractor)  | 175          | 0.205   | 853           | \$ <del>6,076.03</del>  | (R) |
| 10,000 lumen                  | 250          | 0.275   | 1,144         | \$ <del>8,398.33</del>  | (R) |
| 21,000 lumen                  | 400          | 0.430   | 1,789         | \$ <del>11,231.14</del> | (R) |
| Metal Halide                  |              |         |               |                         |     |
| 14,000 lumen                  | 175          | 0.193   | 803           | \$ <del>7,277.23</del>  | (R) |
| 20,500 lumen                  | 250          | 0.275   | 1,144         | \$ <del>8,398.33</del>  | (R) |
| 36,000 lumen                  | 400          | 0.430   | 1,789         | \$ <del>11,231.14</del> | (R) |
| Sodium Vapor                  |              |         |               |                         |     |
| 9,500 lumen                   | 100          | 0.117   | 487           | \$ <del>8,048.02</del>  | (R) |
| 9,500 lumen (Open Refractor)  | 100          | 0.117   | 487           | \$ <del>6,046.02</del>  | (R) |
| 16,000 lumen                  | 150          | 0.171   | 711           | \$ <del>8,778.73</del>  | (R) |
| 22,000 lumen                  | 200          | 0.228   | 948           | \$ <del>11,371.32</del> | (R) |
| 27,500 lumen                  | 250          | 0.275   | 948           | \$ <del>11,371.32</del> | (R) |
| 50,000 lumen                  | 400          | 0.471   | 1,959         | \$ <del>15,281.18</del> | (R) |
| Decorative Fixtures           |              |         |               |                         |     |
| Sodium Vapor                  |              |         |               |                         |     |
| 9,500 lumen (Rectilinear)     | 100          | 0.117   | 487           | \$ <del>10,009.98</del> | (R) |
| 22,000 lumen (Rectilinear)    | 200          | 0.246   | 1,023         | \$ <del>12,361.31</del> | (R) |
| 50,000 lumen (Rectilinear)    | 400          | 0.471   | 1,959         | \$ <del>16,351.25</del> | (R) |
| 50,000 lumen (Setback)        | 400          | 0.471   | 1,959         | \$ <del>24,312.21</del> | (R) |

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: \$0.53. (+)

Issued by authority of an Order of the Kentucky Public Service  
 Commission dated ~~April 13, 2018~~ in Case No. ~~2017-~~  
~~003212019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~  
~~James P. Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
 4580 Olympic Blvd.  
 Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 60  
 Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 60  
 Page 3 of 6

**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> |     |
|--------------------------------------|------------------|----------------|-------------------|------------------|-----|
| <u>Fixture Description</u>           |                  |                |                   |                  |     |
| Standard Fixture (Cobra Head)        |                  |                |                   |                  |     |
| Mercury Vapor                        |                  |                |                   |                  |     |
| 7,000 lumen                          | 175              | 0.210          | 874               | \$ 7.407.36      | (R) |
| 7,000 lumen (Open Refractor)         | 175              | 0.205          | 853               | \$ 6.076.03      | (R) |
| 10,000 lumen                         | 250              | 0.292          | 1,215             | \$ 8.548.48      | (R) |
| 21,000 lumen                         | 400              | 0.460          | 1,914             | \$41.5011.40     | (R) |
| Metal Halide                         |                  |                |                   |                  |     |
| 14,000 lumen                         | 175              | 0.210          | 874               | \$ 7.407.36      | (R) |
| 20,500 lumen                         | 250              | 0.292          | 1,215             | \$ 8.548.48      | (R) |
| 36,000 lumen                         | 400              | 0.460          | 1,914             | \$41.5011.40     | (R) |
| Sodium Vapor                         |                  |                |                   |                  |     |
| 9,500 lumen                          | 100              | 0.117          | 487               | \$ 8.048.02      | (R) |
| 9,500 lumen (Open Refractor)         | 100              | 0.117          | 487               | \$ 6.126.10      | (R) |
| 16,000 lumen                         | 150              | 0.171          | 711               | \$ 8.748.70      | (R) |
| 22,000 lumen                         | 200              | 0.228          | 948               | \$41.3711.32     | (R) |
| 50,000 lumen                         | 400              | 0.471          | 1,959             | \$46.2815.18     | (R) |
| <u>Decorative Fixtures</u>           |                  |                |                   |                  |     |
| Mercury Vapor                        |                  |                |                   |                  |     |
| 7,000 lumen (Town & Country)         | 175              | 0.205          | 853               | \$ 7.657.61      | (R) |
| 7,000 lumen (Holophane)              | 175              | 0.210          | 874               | \$ 9.649.57      | (R) |
| 7,000 lumen (Gas Replica)            | 175              | 0.210          | 874               | \$21.9621.92     | (R) |
| 7,000 lumen (Granville)              | 175              | 0.205          | 853               | \$ 7.737.69      | (R) |
| 7,000 lumen (Aspen)                  | 175              | 0.210          | 874               | \$43.9413.87     | (R) |
| Metal Halide                         |                  |                |                   |                  |     |
| 14,000 lumen (Traditionaire)         | 175              | 0.205          | 853               | \$ 7.647.60      | (R) |
| 14,000 lumen (Granville Acorn)       | 175              | 0.210          | 874               | \$43.9413.87     | (R) |
| 14,000 lumen (Gas Replica)           | 175              | 0.210          | 874               | \$22.0422.00     | (R) |
| Sodium Vapor                         |                  |                |                   |                  |     |
| 9,500 lumen (Town & Country)         | 100              | 0.117          | 487               | \$41.1711.15     | (R) |
| 9,500 lumen (Holophane)              | 100              | 0.128          | 532               | \$42.1012.07     | (R) |
| 9,500 lumen (Rectilinear)            | 100              | 0.117          | 487               | \$ 9.029.00      | (R) |
| 9,500 lumen (Gas Replica)            | 100              | 0.128          | 532               | \$22.7522.72     | (R) |
| 9,500 lumen (Aspen)                  | 100              | 0.128          | 532               | \$44.0914.06     | (R) |
| 9,500 lumen (Traditionaire)          | 100              | 0.117          | 487               | \$41.1711.15     | (R) |
| 9,500 lumen (Granville Acorn)        | 100              | 0.128          | 532               | \$44.0914.06     | (R) |
| 22,000 lumen (Rectilinear)           | 200              | 0.246          | 1,023             | \$42.4212.37     | (R) |
| 50,000 lumen (Rectilinear)           | 400              | 0.471          | 1,959             | \$46.4416.31     | (R) |
| 50,000 lumen (Setback)               | 400              | 0.471          | 1,959             | \$24.3424.21     | (R) |

Issued by authority of an Order of the Kentucky Public Service Commission dated April 13, 2018 in Case No. 2017-003212019-00006.

Issued: April 30, 2018

Effective: April 14, 2018

Issued by Amy B. Spiller, President /s/ Amy B. Spiller  
~~James P. Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
 4580 Olympic Blvd.  
 Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 60  
 Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 60  
 Page 4 of 6

**NET MONTHLY BILL (Contd.)**

POLE CHARGES

| Pole Description             | Pole Type | Rate/Pole |     |
|------------------------------|-----------|-----------|-----|
| <b>Wood</b>                  |           |           |     |
| 17 foot (Wood Laminated) (a) | W17       | \$ 4.50   | (+) |
| 30 foot                      | W30       | \$ 4.44   | (+) |
| 35 foot                      | W35       | \$ 4.50   | (+) |
| 40 foot                      | W40       | \$ 5.39   | (+) |
| <b>Aluminum</b>              |           |           |     |
| 12 foot (decorative)         | A12       | \$12.23   | (+) |
| 28 foot                      | A28       | \$ 7.09   | (+) |
| 28 foot (heavy duty)         | A28H      | \$ 7.16   | (+) |
| 30 foot (anchor base)        | A30       | \$14.16   | (+) |
| <b>Fiberglass</b>            |           |           |     |
| 17 foot                      | F17       | \$ 4.50   | (+) |
| 12 foot (decorative)         | F12       | \$13.15   | (+) |
| 30 foot (bronze)             | F30       | \$ 8.56   | (+) |
| 35 foot (bronze)             | F35       | \$ 8.79   | (+) |
| <b>Steel</b>                 |           |           |     |
| 27 foot (11 gauge)           | S27       | \$11.56   | (+) |
| 27 foot (3 gauge)            | S27H      | \$17.43   | (+) |

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: \$0.77. (+)

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.

2. Base Fuel Cost

The rates per unit shown above include a charge of ~~\$0.0238370~~ 0.023241 per kilowatt-hour reflecting the base 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

(+)

Issued by authority of an Order of the Kentucky Public Service Commission dated ~~April 13, 2018~~ in Case No. ~~2017-0032-2019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~ James P. Henning, President /s/ James P. Henning

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 60  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 60  
Page 5 of 6

#### 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.
- (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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated April 13, 2018 in Case No. 2017-  
003212019-00006.

Issued: April 30, 2018

Effective: April 14, 2018

Issued by Amy B. Spiller, President /s/ Amy B. Spiller~~James P. Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 60  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 60  
Page 6 of 6

**GENERAL CONDITIONS (Contd.)**

- (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.

Issued by authority of an Order of the Kentucky Public Service Commission dated ~~\_\_\_ April 13, 2018~~ in Case No. ~~2017-003212019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~ ~~James P. Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 61  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 61  
Page 1 of 2

## 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 ~~\$0.0389030~~ 0.038307 per kilowatt-hour; (±R)
- (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 ~~\$0.0215430~~ 0.020947 per kilowatt-hour. (±R)
- (c) Where the Company supplies energy and has agreed to provide limited maintenance for traffic signal equipment, all kilowatt-hours shall be billed at \$0.060446 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 (±N)

#### 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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~April 13, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~  
~~James P. Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 61  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 61  
Page 2 of 2

#### 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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~\_\_\_April 13, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~  
~~James P. Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY. P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 62  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 62  
Page 1 of 2

## 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  
All kWh \$~~0.0383050~~.037709 per kWh (TR)
  
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 (TR)
  - Sheet No. 80, Rider FAC, Fuel Adjustment Clause
  - Sheet No. 82, Rider PSM, Profit Sharing Mechanism

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~\_\_\_ April 13, 2018~~ in Case No. ~~2017-~~  
~~003212019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~ ~~James P. Henning,~~  
~~President /s/ James P. Henning~~



Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY. P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 62  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 62  
Page 2 of 2

#### 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

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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~April 13, 2018~~ in Case No. ~~2017-~~  
~~003212019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~ ~~James P. Henning,~~  
~~President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~First~~Second Revised Sheet No. 64  
Cancels and Supersedes  
~~Original~~First Sheet No. 64  
Page 1 of 8

## RATE LED

### LED OUTDOOR LIGHTING ELECTRIC SERVICE

#### APPLICABILITY

To any customer for the sole purpose of lighting roadways or other outdoor land use areas with LED technology fixtures; served from Company fixtures of the LED type available under this rate schedule. 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

Automatically controlled lighting service (i.e., photoelectric cell, or digitally controlled node); alternating current, 60 cycle, single phase, at the Company's standard voltage available. This service may include "smart" lighting technologies, at the sole discretion of the Company.

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.

#### NET MONTHLY BILL

Computed in accordance with the following charges:

1. Base Rate  
All kWh

~~\$0.0383050~~0.037709 per kWh

(R)

The rate shown above includes a charge of ~~\$0.0238370~~0.023241 per kilowatt-hour reflecting the base cost of fuel.

(R)

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

Issued by authority of an Order of the Kentucky Public Service  
Commission dated October 2, 2018 in Case No. ~~2017-~~  
~~003212019-00006~~.

Issued: ~~October 11, 2018~~

Effective: ~~October 2, 2018~~

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









Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

#### **OWNERSHIP OF SERVICE LINES (Contd.)**

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 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.

#### **TERMS OF SERVICE**

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, applicable Customer Charges and removal cost of the facilities.

##### Special Provisions:

1. The customer shall execute a contract on the Company's standard filed contract form for service under this rate schedule.
2. Where the Company provides a LED fixture or pole type 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.
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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated October 2, 2018 in Case No. 2017-  
003242019-00006.

Issued: October 11, 2018

Effective: October 2, 2018

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

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

**TERMS OF SERVICE (Contd.)**

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:  
$$\text{kWh} = \text{Unit Wattage} \times (4160 \text{ hours per year} / 12 \text{ months}) / 1,000$$
 For equipment not listed above?
5. kWh consumption for customer-owned fixtures shall be metered. Installation of customer-owned lighting facilities shall be provided for by the customer.
6. No Pole Charge shall be applicable for a fixture installed on a company-owned pole which is utilized for other general electrical distribution purposes.
7. The Company will repair or replace malfunctioning lighting fixtures maintained by the Company.
8. 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.
9. 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.
10. All new leased LED lighting shall be installed on poles owned by the Company.
11. 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.
12. 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.
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/or 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 2.1.(a) and/or 2.11 above.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated October 2, 2018 in Case No. ~~2017-~~  
~~00324~~2019-00006.

Issued: October 11, 2018

Effective: October 2, 2018

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



KY.P.S.C. Electric No. 2  
~~First~~ Second Revised Sheet No. 64  
Cancels and Supersedes  
~~Original-First~~ Sheet No. 64  
Page 8 of 8

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

**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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated October 2, 2018 in Case No. ~~2017-~~  
~~003212019-00006.~~

Issued: October 11, 2018

Effective: October 2, 2018

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

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 66  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 66  
Page 1 of 4

## 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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated April 13, 2018 in Case No. 2017-  
003242019-00006.

Issued: April 30, 2018

Effective: April 14, 2018

Issued by Amy B. Spiller, President /s/ Amy B. Spiller~~James P. Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
 4580 Olympic Blvd.  
 Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 66  
 Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 66  
 Page 2 of 4

**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<br>Watt | Annual  |       |                          |      |
|--|--------------|---------|-------|--------------------------|------|
|  |              | kW/Unit | kWh   | Rate/Unit                |      |
| 1. Boulevard units served underground  |              |         |       |                          |      |
| a. 2,500 lumen Incandescent – Series   | 148          | 0.148   | 616   | <del>\$9.429.39</del>    | (±R) |
| b. 2,500 lumen Incandescent – Multiple   | 189          | 0.189   | 786   | <del>\$7.327.28</del>    | (±R) |
| 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>\$17.46</del> 17.10 | (±R) |

The cable span charge of \$0.77 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. (±R)

|  | Lamp<br>Watt | Annual  |       |                          |      |
|--|--------------|---------|-------|--------------------------|------|
|  |              | kW/Unit | kWh   | Rate/Unit                |      |
| 3. Street light units served overhead distribution |              |         |       |                          |      |
| a. 2,500 lumen Incandescent                        | 189          | 0.189   | 786   | <del>\$7.267.22</del>    | (±R) |
| b. 2,500 lumen Mercury Vapor                       | 100          | 0.109   | 453   | <del>\$6.876.85</del>    | (±R) |
| c. 21,000 lumen Mercury Vapor                      | 400          | 0.460   | 1,914 | <del>\$10.89</del> 10.79 | (±R) |

B. Customer owned

|   | Lamp<br>Watt | Annual  |     |                       |      |
|---|--------------|---------|-----|-----------------------|------|
|   |              | kW/Unit | 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>\$5.565.53</del> | (±R) |
| b. 2,500 lumen Incandescent – Multiple  | 189          | 0.189   | 786 | <del>\$7.077.03</del> | (±R) |

Issued by authority of an Order of the Kentucky Public Service Commission dated ~~April 13, 2018~~ in Case No. ~~2017-00324~~2019-00006.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~ James P. Henning, President /s/ James P. Henning

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 66  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 66  
Page 3 of 4

**NET MONTHLY BILL (Contd.)**

2. Base Fuel Cost

The rates per unit shown above include ~~\$0.0238370~~ 0.023241 per kilowatt-hour reflecting the base cost of fuel. (R)

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 (N)

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 ~~\_\_\_April 13, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~ ~~James P.~~  
~~Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 66  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 66  
Page 4 of 4

---

**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 ~~\_\_\_April 13, 2018~~ in Case No. ~~2017-00321~~2019-00006.

---

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~James P. Henning, President /s/ James P. Henning

Duke Energy Kentucky, Inc.  
 4580 Olympic Blvd.  
 Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 68  
 Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 68  
 Page 1 of 4

**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:

| 1. Base Rate                  | Lamp<br>Watts | kW/Unit | Annual<br>kWh | Rate/Unit              |      |
|-------------------------------|---------------|---------|---------------|------------------------|------|
| Fixture Description           |               |         |               |                        |      |
| Standard Fixture (Cobra Head) |               |         |               |                        |      |
| Mercury Vapor                 |               |         |               |                        |      |
| 7,000 lumen                   | 175           | 0.193   | 803           | \$ <del>4.284.24</del> | (±R) |
| 10,000 lumen                  | 250           | 0.275   | 1,144         | \$ <del>5.455.39</del> | (±R) |
| 21,000 lumen                  | 400           | 0.430   | 1,789         | \$ <del>7.567.47</del> | (±R) |
| Metal Halide                  |               |         |               |                        |      |
| 14,000 lumen                  | 175           | 0.193   | 803           | \$ <del>4.284.24</del> | (±R) |
| 20,500 lumen                  | 250           | 0.275   | 1,144         | \$ <del>5.455.39</del> | (±R) |
| 36,000 lumen                  | 400           | 0.430   | 1,789         | \$ <del>7.567.47</del> | (±R) |

Issued by authority of an Order of the Kentucky Public Service  
 Commission dated ~~April 13, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

Issued: ~~April 30, 2018~~  
 Effective: ~~April 14, 2018~~  
 Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller James P.~~  
~~Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
 4580 Olympic Blvd.  
 Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 68  
 Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 68  
 Page 2 of 4

**NET MONTHLY BILL (Contd.)**

|                                | Lamp<br>Watt | kW/Unit | Annual<br>kWh | Rate/Unit              |      |
|--------------------------------|--------------|---------|---------------|------------------------|------|
| Sodium Vapor                   |              |         |               |                        |      |
| 9,500 lumen                    | 100          | 0.117   | 487           | \$ <del>5.155.13</del> | (±R) |
| 16,000 lumen                   | 150          | 0.171   | 711           | \$ <del>5.745.70</del> | (±R) |
| 22,000 lumen                   | 200          | 0.228   | 948           | \$ <del>6.346.26</del> | (±R) |
| 27,500 lumen                   | 250          | 0.228   | 948           | \$ <del>6.346.26</del> | (±R) |
| 50,000 lumen                   | 400          | 0.471   | 1,959         | \$ <del>8.548.44</del> | (±R) |
| Decorative Fixture             |              |         |               |                        |      |
| Mercury Vapor                  |              |         |               |                        |      |
| 7,000 lumen (Holophane)        | 175          | 0.210   | 874           | \$ <del>5.445.40</del> | (±R) |
| 7,000 lumen (Town & Country)   | 175          | 0.205   | 853           | \$ <del>5.395.35</del> | (±R) |
| 7,000 lumen (Gas Replica)      | 175          | 0.210   | 874           | \$ <del>5.445.40</del> | (±R) |
| 7,000 lumen (Aspen)            | 175          | 0.210   | 874           | \$ <del>5.445.40</del> | (±R) |
| Metal Halide                   |              |         |               |                        |      |
| 14,000 lumen (Traditionaire)   | 175          | 0.205   | 853           | \$ <del>5.395.35</del> | (±R) |
| 14,000 lumen (Granville Acorn) | 175          | 0.210   | 874           | \$ <del>5.445.40</del> | (±R) |
| 14,000 lumen (Gas Replica)     | 175          | 0.210   | 874           | \$ <del>5.445.40</del> | (±R) |
| Sodium Vapor                   |              |         |               |                        |      |
| 9,500 lumen (Town & Country)   | 100          | 0.117   | 487           | \$ <del>5.075.05</del> | (±R) |
| 9,500 lumen (Traditionaire)    | 100          | 0.117   | 487           | \$ <del>5.075.05</del> | (±R) |
| 9,500 lumen (Granville Acorn)  | 100          | 0.128   | 532           | \$ <del>5.295.26</del> | (±R) |
| 9,500 lumen (Rectilinear)      | 100          | 0.117   | 487           | \$ <del>5.075.05</del> | (±R) |
| 9,500 lumen (Aspen)            | 100          | 0.128   | 532           | \$ <del>5.295.26</del> | (±R) |
| 9,500 lumen (Holophane)        | 100          | 0.128   | 532           | \$ <del>5.295.26</del> | (±R) |
| 9,500 lumen (Gas Replica)      | 100          | 0.128   | 532           | \$ <del>5.295.26</del> | (±R) |
| 22,000 lumen (Rectilinear)     | 200          | 0.246   | 1,023         | \$ <del>6.686.63</del> | (±R) |
| 50,000 lumen (Rectilinear)     | 400          | 0.471   | 1,959         | \$ <del>8.848.74</del> | (±R) |

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.

| <u>Pole Description</u> | <u>Pole Type</u> | <u>Rate/Pole</u> |      |
|-------------------------|------------------|------------------|------|
| Wood                    |                  |                  |      |
| 30 foot                 | W30              | \$ 4.44          | (±R) |
| 35 foot                 | W35              | \$ 4.50          | (±R) |
| 40 foot                 | W40              | \$ 5.39          | (±R) |

Issued by authority of an Order of the Kentucky Public Service  
 Commission dated April 13, 2018 in Case No. 2017-  
003242019-00006.

Issued: April 30, 2018

Effective: April 14, 2018

Issued by Amy B. Spiller, President /s/ Amy B. Spiller  
~~James P. Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 68  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 68  
Page 3 of 4

### NET MONTHLY BILL (Contd.)

#### Customer Owned and Maintained Units

The rate for energy used for this type street lighting will be ~~\$0.0383050~~ 0.037709 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.

#### 2. Base Fuel Cost

The rates per unit shown above include ~~\$0.0238370~~ 0.023241 per kilowatt-hour reflecting the base cost of fuel.

#### 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.

### 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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~April 13, 2018~~ in Case No. ~~2017-~~  
~~003212019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~  
~~James P. Henning, President /s/ James P. Henning~~



Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 68  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No. 68  
Page 4 of 4

**GENERAL CONDITIONS (Contd.)**

- (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  
Commission dated ~~\_\_\_ April 13, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~ ~~James P.~~  
~~Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
69  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 69  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No.

Page 1 of 4

## 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 ~~April 13, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller James P. Henning, President /s/ James P. Henning~~

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 69  
 Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No.

Duke Energy Kentucky, Inc.  
 4580 Olympic Blvd.  
 69  
 Erlanger, KY 41018

**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>7.457.41</del>   | (±R) |
| 7,000 lumen (Holophane)        | 175       | 0.210   | 874        | \$ <del>7.487.44</del>   | (±R) |
| 7,000 lumen (Gas Replica)      | 175       | 0.210   | 874        | \$ <del>7.487.44</del>   | (±R) |
| 7,000 lumen (Aspen)            | 175       | 0.210   | 874        | \$ <del>7.487.44</del>   | (±R) |
| <u>Metal Halide</u>            |           |         |            |                          |      |
| 14,000 lumen (Traditionaire)   | 175       | 0.205   | 853        | \$ <del>7.457.41</del>   | (±R) |
| 14,000 lumen (Granville Acorn) | 175       | 0.210   | 874        | \$ <del>7.487.44</del>   | (±R) |
| 14,000 lumen (Gas Replica)     | 175       | 0.210   | 874        | \$ <del>7.487.44</del>   | (±R) |
| <u>Sodium Vapor</u>            |           |         |            |                          |      |
| 9,500 lumen (Town & Country)   | 100       | 0.117   | 487        | \$ <del>8.128.10</del>   | (±R) |
| 9,500 lumen (Holophane)        | 100       | 0.128   | 532        | \$ <del>8.238.20</del>   | (±R) |
| 9,500 lumen (Rectilinear)      | 100       | 0.117   | 487        | \$ <del>8.128.10</del>   | (±R) |
| 9,500 lumen (Gas Replica)      | 100       | 0.128   | 532        | \$ <del>8.228.19</del>   | (±R) |
| 9,500 lumen (Aspen)            | 100       | 0.128   | 532        | \$ <del>8.228.19</del>   | (±R) |
| 9,500 lumen (Traditionaire)    | 100       | 0.117   | 487        | \$ <del>8.128.10</del>   | (±R) |
| 9,500 lumen (Granville Acorn)  | 100       | 0.128   | 532        | \$ <del>8.228.19</del>   | (±R) |
| 22,000 lumen (Rectilinear)     | 200       | 0.246   | 1,023      | \$ <del>11.6711.62</del> | (±R) |
| 50,000 lumen (Rectilinear)     | 400       | 0.471   | 1,959      | \$ <del>15.4415.34</del> | (±R) |
| 50,000 lumen (Setback)         | 400       | 0.471   | 1,959      | \$ <del>15.4415.34</del> | (±R) |

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 ~~\$0.0238370.023241~~ per kilowatt-hour reflecting the base cost of fuel. (R)

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

(N)

**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.

Issued by authority of an Order of the Kentucky Public Service Commission dated ~~April 13, 2018~~ in Case No. ~~2017-003242019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller James P. Henning, President /s/ James P. Henning~~

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
69  
Erlanger, KY 41018

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 69  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No.

Page 3 of 4

#### 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.
- (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.

Issued by authority of an Order of the Kentucky Public Service  
Commission dated ~~\_\_\_April 13, 2018~~ in Case No. ~~2017-~~  
~~003242019-00006~~.

Issued: ~~April 30, 2018~~

Effective: ~~April 14, 2018~~

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller James P.~~  
~~Henning, President /s/ James P. Henning~~

KY.P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 69  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No.

Duke Energy Kentucky, Inc.  
4580 Olympic Blvd.  
69  
Erlanger, KY 41018

Page 4 of 4

---

**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 ~~\_\_\_April 13, 2018~~ in Case No. ~~2017-00324~~2019-00006.

Issued: ~~April 13, 2018~~  
April 30, 2018

Effective: ~~April 14, 2018~~  
April 14, 2018

Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~  
Amy B. Spiller, President /s/ Amy B. Spiller  
~~James P. Henning, President /s/ James P. Henning~~  
James P. Henning, President /s/ James P. Henning

Duke Energy Kentucky  
4580 Olympic Blvd.  
80  
Erlanger, Kentucky 41018

KY. P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 80  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No.  
Page 1 of 2

**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:

$$\text{Fuel Cost Adjustment} = \frac{F(m)}{S(m)} - \$0.023837 \text{ per kWh}$$

$$\text{Fuel Cost Adjustment} = \frac{F(m)}{S(m)} - \$0.023241 \text{ per kWh}$$

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 by authority of an Order of the Kentucky Public Service  
Commission dated April 13, 2018 in Case No. 2017-  
003242019-00006.

Issued: April 30, 2018

Effective: April 14, 2018

Issued by Amy B. Spiller, President /s/ Amy B. Spiller James P.  
Henning, President /s/ James P. Henning

Duke Energy Kentucky  
4580 Olympic Blvd.  
80  
Erlanger, Kentucky 41018

KY. P.S.C. Electric No. 2  
~~Eighth-Ninth~~ Revised Sheet No. 80  
Cancels and Supersedes  
~~Seventh-Eighth~~ Revised Sheet No.  
Page 2 of 2

**AVAILABILITY OF SERVICE (Contd.)**

- (e) The native portion of fuel-related costs charged to the Company by PJM Interconnection LLC including but not limited to 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. ~~(N)~~  
~~(N)~~  
~~(N)~~  
~~(N)~~  
~~(N)~~  
~~(N)~~  
~~(N)~~
  - (f) All fuel costs shall be based on a weighted-average inventory costing. 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 by authority of an Order of the Kentucky Public Service Commission dated ~~\_\_\_ April 13, 2018~~ in Case No. ~~2017-00324-2019-00006~~.

---

Issued: ~~April 30, 2018~~  
Effective: ~~April 14, 2018~~  
Issued by ~~Amy B. Spiller, President /s/ Amy B. Spiller~~ ~~James P. Henning, President /s/ James P. Henning~~

**REQUEST:**

For the years ending October 31, 2017, and October 31, 2018, provide:

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

**RESPONSE:**

- a. For the time period November 1, 2016 through October 31, 2017:

Maximum annual system demand = 813 MW

For the time period November 1, 2017 through October 31, 2018:

Maximum annual system demand = 828 MW

- b. For the time period November 1, 2016 through October 31, 2017:

Average annual demand = 487 MW

For the time period November 1, 2017 through October 31, 2018:

Average annual demand = 514 MW

**PERSON RESPONSIBLE:** John Swez



**REQUEST:**

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

**RESPONSE:**

- a. See STAFF-DR-01-029 Attachment.
- 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 2016 through October 2018 that would be expected to have a loss reduction impact include the following:

Transmission System Improvements:

- There were no transmission system improvements during this time period that would be expected to have a loss reduction impact.

Distribution System Improvements:

- There were two (2) capacity additions during the time period, and one (1) new 12kV substation circuit was added. These circuits reduce loading and distance on adjacent circuits providing opportunity for reduced conductor impedance and improved customer reliability.

**PERSON RESPONSIBLE:** Ted Czupik  
John Swez

Duke Energy Kentucky  
 12 Month Average Line Loss  
 November 2016 - October 2018

| (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-16 | 4,421,063,190                                   | 357,934,302   | 8.096110%              | 316,418,540                     | 25,617,593                                   |
| Dec-16 | 4,457,753,100                                   | 357,860,105   | 8.027810%              | 379,593,750                     | 30,473,065                                   |
| Jan-17 | 4,434,013,300                                   | 347,507,598   | 7.837320%              | 373,098,890                     | 29,240,954                                   |
| Feb-17 | 4,394,821,760                                   | 343,754,519   | 7.821810%              | 315,240,650                     | 24,657,525                                   |
| Mar-17 | 4,406,325,150                                   | 351,209,429   | 7.970570%              | 345,596,760                     | 27,546,032                                   |
| Apr-17 | 4,396,372,090                                   | 343,583,889   | 7.815170%              | 308,834,760                     | 24,135,962                                   |
| May-17 | 4,404,820,590                                   | 342,557,374   | 7.776870%              | 343,233,440                     | 26,692,818                                   |
| Jun-17 | 4,385,795,060                                   | 341,068,376   | 7.776660%              | 385,082,240                     | 29,946,537                                   |
| Jul-17 | 4,374,993,630                                   | 334,573,027   | 7.647390%              | 429,800,700                     | 32,868,536                                   |
| Aug-17 | 4,318,418,160                                   | 321,729,352   | 7.450170%              | 405,670,000                     | 30,223,105                                   |
| Sep-17 | 4,274,804,880                                   | 323,466,056   | 7.566800%              | 345,028,320                     | 26,107,603                                   |
| Oct-17 | 4,269,431,800                                   | 320,963,291   | 7.517710%              | 321,833,750                     | 24,194,528                                   |
| Nov-17 | 4,281,153,640                                   | 316,670,139   | 7.396840%              | 328,140,380                     | 24,272,019                                   |
| Dec-17 | 4,289,350,450                                   | 331,176,190   | 7.720890%              | 387,790,560                     | 29,940,883                                   |
| Jan-18 | 4,332,687,770                                   | 356,046,060   | 8.217670%              | 416,436,210                     | 34,221,353                                   |
| Feb-18 | 4,341,968,520                                   | 341,054,805   | 7.854840%              | 324,521,400                     | 25,490,637                                   |
| Mar-18 | 4,360,565,820                                   | 360,002,100   | 8.255860%              | 364,194,060                     | 30,067,352                                   |
| Apr-18 | 4,381,314,960                                   | 370,396,848   | 8.454010%              | 329,583,900                     | 27,863,056                                   |
| May-18 | 4,417,497,660                                   | 383,174,631   | 8.674020%              | 379,416,140                     | 32,910,632                                   |
| Jun-18 | 4,433,471,570                                   | 364,234,082   | 8.215550%              | 401,056,150                     | 32,948,969                                   |
| Jul-18 | 4,427,013,050                                   | 359,038,160   | 8.110170%              | 423,342,180                     | 34,333,770                                   |
| Aug-18 | 4,443,601,380                                   | 353,591,121   | 7.957310%              | 422,258,330                     | 33,600,404                                   |
| Sep-18 | 4,468,395,970                                   | 354,801,680   | 7.940250%              | 369,822,910                     | 29,364,864                                   |
| Oct-18 | 4,491,866,450                                   | 363,524,441   | 8.092950%              | 345,304,230                     | 27,945,299                                   |

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**STAFF-DR-01-030  
PUBLIC**

**REQUEST:**

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

**RESPONSE:**

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

See STAFF-DR-01-030 Confidential Attachment.

**PERSON RESPONSIBLE:** Ted Czupik

**CONFIDENTIAL PROPRIETARY TRADE  
SECRET**

**ATTACHMENT STAFF-DR-01-030  
CONFIDENTIAL ATTACHMENT**

**FILED UNDER SEAL**

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**STAFF-DR-01-031  
PUBLIC**

**REQUEST:**

Provide the most recent sales projections for the year 2019 and 2020 in kWh and dollars.

**RESPONSE:**

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

See STAFF-DR-01-031 Confidential Attachment.

**PERSON RESPONSIBLE:** Ted Czapik

**CONFIDENTIAL PROPRIETARY TRADE  
SECRET**

**ATTACHMENT STAFF-DR-01-031  
CONFIDENTIAL ATTACHMENT**

**FILED UNDER SEAL**

**Duke Energy Kentucky  
Case No. 2019-00006  
STAFF First Set Data Requests  
Date Received: February 11, 2019**

**STAFF-DR-01-032  
PUBLIC**

**REQUEST:**

Provide the planned maintenance schedule for each of the generating units for the years 2019 and 2020.

**RESPONSE:**

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

Please see STAFF-DR-01-032 Confidential Attachment.

**PERSON RESPONSIBLE:** John Swez



**CONFIDENTIAL PROPRIETARY TRADE  
SECRET**

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

**FILED UNDER SEAL**

**Duke Energy Kentucky**  
**Case No. 2019-00006**  
**STAFF First Set Data Requests**  
**Date Received: February 11, 2019**

**STAFF-DR-01-033**

**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:**

There are currently no unresolved or unsettled issues directly related to fuel commodities. There are two issues currently in litigation that could potentially impact either future purchase power costs or RTO billing costs related to past PJM market participation.

Regarding purchase power costs, PJM, through its stakeholder process, is pursuing a general set of reforms to its energy and capacity markets. The energy effort is an initiative to improve energy price formation in the markets. A multi-tiered project, PJM is currently focused on improving the price signal of reserve markets in an effort better reflect real time conditions and the cost of operator response actions directly into the LMP instead of as out of market uplift costs. While consensus has not been achieved through the stakeholder process, it is likely that the final proposal will result in higher reserve market prices, and consequently, higher energy market LMPs. The reserve market price changes are not anticipated to have a significant effect on Duke Energy Kentucky as it is relatively balanced supplier and consumer of reserves; however higher LMP's will impact purchased power

costs. Reduced uplift benefit customers by both reducing costs and increasing visibility and certainty into out of market activities, enabling better price risk hedging.

Regarding anticipated billings from Regional Transmission Operators, Duke Energy Kentucky has received allocations of costs related to the default of a member of PJM. At the time of the default, the defaulting company GreenHat Energy, LLC had open Financial Transmission Right positions extending through the 2020/2021 Planning Year. The PJM tariff defines a liquidation protocol in cases of member default. Specifically, open positions are liquidated in the next available auction. Due to the extreme size of the GreenHat open position and the potential impact on auction clearing prices, and in agreement with the stakeholder community, PJM modified the liquidation protocol from immediate liquidation to a more gradual settlement of open positions and filed for a waiver to the PJM tariff at the Federal Energy Regulatory Commission (FERC). The filing was subsequently rejected at FERC and PJM has filed for rehearing on the matter. In the interim, the impact on Duke Energy Kentucky of both previous default cost allocations as well as future allocations from the GreenHat default remain uncertain.

The table below reflects Duke Energy Kentucky charges to date related to settled and liquidated GreenHat positions:

|               |                     |
|---------------|---------------------|
| <b>Jul-18</b> | <b>\$37,000.21</b>  |
| <b>Aug-18</b> | <b>\$58,070.33</b>  |
| <b>Sep-18</b> | <b>\$0.00</b>       |
| <b>Oct-18</b> | <b>\$15,768.98</b>  |
| <b>Nov-18</b> | <b>\$20,018.01</b>  |
| <b>Dec-18</b> | <b>\$26,873.23</b>  |
| <b>Jan-19</b> | <b>\$15,132.85</b>  |
| <b>Total</b>  | <b>\$172,863.61</b> |

**PERSON RESPONSIBLE:** John Swez