

VERIFICATION

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

The undersigned, Brett Phipps, Managing Director, 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 day of August, 2021.



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

Libbie S. Miller
Libbie S. Miller Affiant

Subscribed and sworn to before me by Libbie S. Miller on this 31ST day of August, 2021.



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

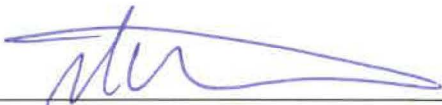
VERIFICATION

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

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


John D. Swez, Affiant

Subscribed and sworn to before me by John D. Swez on this 25 day of August, 2021.


NOTARY PUBLIC

Notary Public
Matthew Jones
Mecklenburg North Carolina
Comm# 201707300105
My Comm. Expires 04/09/2022

My Commission Expires: Apr 9 2022

VERIFICATION


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

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



Brad Daniel, Affiant

Subscribed and sworn to before me by Brad Daniel on this 20th day of August, 2021.



NOTARY PUBLIC

My Commission Expires: 3/22/2022



KyPSC Case No. 2021-00296
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**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

STAFF-DR-01-001

REQUEST:

For 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 November 1, 2020 through April 30, 2021, please see STAFF-DR-01-001 Attachment.

PERSON RESPONSIBLE: Brett Phipps

Duke Energy Kentucky
Case No. 2021-00296 - Staff First Set Data Requests
Coal purchased November 1, 2020 - April 30, 2020

<u>Vendor</u>	<u>Purchase Tonnage</u>	<u>Purchase Type</u>	<u>Contract #</u>	<u>Filed with Commission</u>	<u>If no, Explain why</u>
Alliance Coal LLC	60,291	Contract	DEK32262	1/23/2018	
Forsight Coal Sales	35,662	Contract	DEK32274	4/5/2018	
Alliance Coal LLC	152,115	Contract	DEK33073	2/25/2019	
Knighthawk	230,355	Contract	DEK 33097	2/25/2019	
Central Coal Co	225,557	Contract	DEK33982	2/7/2020	
Total	<u>703,981</u>				
	100%	Contract			
	0%	Spot			
	100%	Total			

**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

STAFF-DR-01-002

REQUEST:

For 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;
- f. The tonnage requirement for the review period; and
- g. Current price paid per ton.

RESPONSE:

- a. 33097
- b. Knight Hawk Coal LLC
- c. Knight Hawk's Prairie Eagle Mine, IL
- d. Barge
- e. 230,355
- f. \$40.52

- a. 32262
- b. Alliance Coal, LLC
- c. Tunnel Ridge, Ohio County, WV
- d. Barge
- e. 60,291
- f. \$46.10

- a. 33073
- b. Alliance Coal, LLC
- c. Tunnel Ridge, Ohio County, WV
- d. Barge
- e. 152,115
- f. \$39.89

- a. 32274
- b. Foresight Coal Sales, LLC.
- c. Shay Mine, Carlinville, Illinois
- d. Barge
- e. 35,662
- f. \$36.14

- a. 33982
- b. Central Coal Company as agent for Knight Hawk Coal, LLC
- c. Knight Hawk's Prairie Eagle Mine, IL
- d. Barge
- e. 225,557
- f. \$32.86

PERSON RESPONSIBLE: Brett Phipps

**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

STAFF-DR-01-003

REQUEST:

As of the last day of the review period:

- a. 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 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 excess inventory.
- e. State whether any significant changes in the current coal inventory target are expected within the next 12 months. 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 April 30, 2021 was 178,255 tons, or 27 days.
- b. The number of days' supply is computed by dividing the ending coal inventory number stated in tons by the Full Load Burn figure of 6,500 tons per day.
- c. The target goal inventory is an annual average of 45 days compared to the actual inventory amount of 27 days on April 30, 2021 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. Duke Energy Kentucky does not expect any significant changes in its current coal inventory target within the next 12 months.

PERSON RESPONSIBLE: Brett Phipps

**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

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

REQUEST:

List each written coal supply solicitation issued during the period under review.

- a. For each solicitation, provide the date of the solicitation, the type of solicitation (contract or spot), the quantities solicited, a general description of the quality of coal solicited, the period over which deliveries were requested, and the generating unit(s) for which the coal was intended.
- b. For each solicitation, state the number of vendors to whom the solicitation was sent, the number of vendors who responded, and the selected vendor. Provide the bid tabulation sheet or corresponding document that ranked the proposals. (This document should 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 February of 2021 requesting proposals for coal to be delivered during year fourth quarter 2021, along with 2022 and 2023. The quantity in the solicitation was not limited as the Company requested proposals for the full amounts of term purchases the vendors can offer which

enabled the Company to make decisions regarding the amounts to be purchased after evaluations were completed.

- b. The February 2021 coal solicitation was sent to 83 vendors with 21 vendors providing 114 bids and 3 bids selected for term 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**

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

FILED UNDER SEAL

**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

STAFF-DR-01-005

REQUEST:

List each oral coal supply solicitation issued during the period under review.

- a. For each solicitation, state why the solicitation was not written, the date(s) of the solicitation, the quantities solicited, a general description of the quality of coal solicited, the period over which deliveries were requested, and the generating unit(s) for which the coal was intended.
- b. For each solicitation, identify all vendors solicited and the vendor selected. Provide the tabulation sheet or other document that ranks the proposals. (This document should 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 November 1, 2020 through April 30, 2021.
- b. N/A

PERSON RESPONSIBLE: Brett Phipps

**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

STAFF-DR-01-006

REQUEST:

For 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).

RESPONSE:

Please see STAFF-DR-01-006 Attachment which lists each vendor from whom natural gas was purchased for the period of November 1, 2020 to April 30, 2021.

PERSON RESPONSIBLE: Brett Phipps

**Duke Energy Kentucky - Physical Natural Gas Purchases
 November 1, 2020 - April 30, 2021**

Spot/Contract	Counterpart	Start Date	End Date	Buy/Sell	Qty	Qty UOM
Spot	Spotlight Energy	7-Dec-20	7-Dec-20	Buy	15,000	MMBtu
Spot	Eco Energy Nat Gas	16-Dec-20	16-Dec-20	Buy	35,000	MMBtu
Spot	Eco Energy Nat Gas	17-Dec-20	17-Dec-20	Buy	18,000	MMBtu
Spot	Eco Energy Nat Gas	17-Dec-20	17-Dec-20	Buy	5,000	MMBtu
Spot	Eco Energy Nat Gas	18-Dec-20	18-Dec-20	Buy	26,000	MMBtu
Spot	Eco Energy Nat Gas	19-Dec-20	19-Dec-20	Buy	15,000	MMBtu
Spot	NJR Energy Servic G	12-Jan-21	12-Jan-21	Buy	7,500	MMBtu
Spot	NJR Energy Servic G	13-Jan-21	13-Jan-21	Buy	5,000	MMBtu
Spot	Spotlight Energy	13-Jan-21	13-Jan-21	Buy	2,000	MMBtu
Spot	Eco Energy Nat Gas	3-Feb-21	3-Feb-21	Buy	1,000	MMBtu
Spot	Eco Energy Nat Gas	6-Feb-21	6-Feb-21	Buy	1,000	MMBtu
Spot	TENASKA MARKETING VE	8-Feb-21	8-Feb-21	Buy	25,000	MMBtu
Spot	TENASKA MARKETING VE	13-Feb-21	16-Feb-21	Buy	4,000	MMBtu
Spot	Eco Energy Nat Gas	20-Feb-21	20-Feb-21	Buy	6,000	MMBtu
Spot	Eco Energy Nat Gas	20-Feb-21	20-Feb-21	Buy	6,000	MMBtu
Spot	Eco Energy Nat Gas	20-Apr-21	20-Apr-21	Buy	3,000	MMBtu
Spot	Eco Energy Nat Gas	20-Apr-21	20-Apr-21	Buy	6,000	MMBtu
Spot	Spotlight Energy	22-Apr-21	22-Apr-21	Buy	2,000	MMBtu
Spot	TENASKA MARKETING VE	27-Apr-21	27-Apr-21	Buy	8,000	MMBtu
Spot	TENASKA MARKETING VE	28-Apr-21	28-Apr-21	Buy	4,000	MMBtu
Spot	Eco Energy Nat Gas	28-Apr-21	28-Apr-21	Buy	4,000	MMBtu

**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

STAFF-DR-01-007

REQUEST:

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

RESPONSE:

During the timeframe of February 14-17, 2021, Woodsdale units 1-6 were generally offered to PJM and ran on fuel oil due to the unit's lower cost to operate on fuel oil as opposed to natural gas. Since the units were primarily operated on fuel oil during this time, operation of the unit on natural gas would likely have encountered natural gas pipeline constraints and/or availability issues but is uncertain due to the unit's operation on fuel oil. The units operated primarily on fuel oil on both February 16 and 17.

PERSON RESPONSIBLE: John Swez

**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

STAFF-DR-01-008

REQUEST:

State whether 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

**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

STAFF-DR-01-009

REQUEST:

State whether Duke Kentucky has audited any of its fuel or transportation contracts during the period under review. If so, each audited contract:

- a. Identify the contract;
- b. Identify the auditor, and
- c. State the results of the audit and describe the actions that Duke Kentucky took as a result of the audit.

RESPONSE:

Coal

Duke Energy Kentucky has not audited any of its coal or coal transportation contracts during the period of November 1, 2020 through April 30, 2021.

Natural Gas, Natural Gas Transportation, and Fuel Oil

Duke Energy Kentucky has not audited any of its fuel or transportation contracts during the period of November 1, 2020 through April 30, 2021.

PERSON RESPONSIBLE: Brett Phipps

Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021

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. 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.

- b. 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

PERSON RESPONSIBLE: Brett Phipps

**CONFIDENTIAL STAFF-DR-01-011
(As to Attachments only)**

REQUEST:

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

RESPONSE:

CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachments only)

Coal, Natural Gas, and Fuel Oil

- a. There have been changes to Duke Energy Kentucky's written policies and procedures regarding its fuel procurement.
 - 1) The "Regulated Utilities Risk Management Control Manual" was updated and approved on January 7, 2021. Most of the differences were clean up type items. There were several minor changes (Page 13) to the Control Manual such as title changes, FSO and DER must be compliant with the

Model Review and Approval Process and provided some examples. Also, GRM will meet with FSO Analytics semi-annually to discuss new model changes or model developments to determine model review and approval tasks. Also, cleaned up some Confirmation Activities (Page 31) to make clear that physical power transactions for delivery will be recorded within FSO via Instant Messaging, recorded conversations, and email. In addition, electronic tags reflect the volume and duration of transactions.

- 2) Please see STAFF-DR-01-011 Confidential Attachment 1.
- 3) These changes were made and approved on January 7, 2021.
- 4) Please see response to (1) above.

- b. The “Risk Limits manual” was updated in January of 2020. This document was submitted with the Company’s responses to Commission Staff’s First Request for Information in Case No. 2021-00057.

Coal

- a.
 - 1) The Coal and Reagents Procedure was updated on March 1, 2021. The company clarified that transportation services were included in the scope of the document along with updating the title of the approver to Vice President from Senior Vice President and added the ability to delegate approval authority. The Company also clarified that contract amendments included letter agreements, updated and clarified DOA approval language, updated and clarified confidentiality section and lastly updated ethics hotline contact information.
 - 2) Please see STAFF-DR-01-011 Confidential Attachment 2.

3) These changes were made and approved on March 1, 2021.

4) Please see response to (1) above.

b. N/A

Natural Gas & Fuel Oil

a. The procedures in response to (b) below remained unchanged during the period under review.

b. The Fuels and System Optimization (FSO) DEK Emissions Trading Process & Procedure Check List,” and the “Fuel Oil Emergency Procedure” were updated in May 2015, and June 2015, respectively. These two documents were submitted with the Company’s responses to Commission Staff’s First Requests for Information in Case No. 2017-00005. The “DEI and DEK Gas Trading Procedure for Off-Premise Transactions” was updated in June 2019 and it was submitted with the Company’s responses to Commission Staff’s First Requests for Information in Case No. 2020-00008.

PERSON RESPONSIBLE: Brett Phipps

**CONFIDENTIAL PROPRIETARY TRADE
SECRET**

**STAFF-DR-01-011 CONFIDENTIAL
ATTACHMENT 1**

FILED UNDER SEAL

**CONFIDENTIAL PROPRIETARY TRADE
SECRET**

**STAFF-DR-01-011 CONFIDENTIAL
ATTACHMENT 2**

FILED UNDER SEAL

**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

STAFF-DR-01-012

REQUEST:

For the period under review, list all firm power commitments for (a) purchases and (b) sales. This list shall identify the electric utility, the amount of commitment in megawatts, and the purpose of the commitment (i.e., peaking, emergency).

RESPONSE:

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

PERSON RESPONSIBLE: John Swez

**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

STAFF-DR-01-013

REQUEST:

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

RESPONSE:

Please see STAFF-DR-01-013 Attachment.

PERSON RESPONSIBLE: Libbie S. Miller

**DUKE ENERGY KENTUCKY
 POWER TRANSACTION SCHEDULE**

Supplier/Buyer		Transaction Type	kWh	Charges (\$)			
				Demand	Fuel	Other	Total
Month Ended November 30, 2020							
PJM Interconnection, LLC	Econ Sales		2,068,240	0	62,268	(22,928)	39,340
	Total Sales		<u>2,068,240</u>	<u>0</u>	<u>62,268</u>	<u>(22,928)</u>	<u>39,340</u>
Month Ended December 31, 2020							
PJM Interconnection, LLC	Econ Sales		63,653,060		1,496,785	237,751	1,734,536
	Total Sales		<u>63,653,060</u>	<u>0</u>	<u>1,496,785</u>	<u>237,751</u>	<u>1,734,536</u>
Month Ended January 31, 2021							
PJM Interconnection, LLC	Econ Sales		39,984,810		937,793	81,481	1,019,274
	Total Sales		<u>39,984,810</u>	<u>0</u>	<u>937,793</u>	<u>81,481</u>	<u>1,019,274</u>
Month Ended February 29, 2021							
PJM Interconnection, LLC	Econ Sales		32,366,110		1,238,861	130,673	1,369,534
	Total Sales		<u>32,366,110</u>	<u>0</u>	<u>1,238,861</u>	<u>130,673</u>	<u>1,369,534</u>
Month Ended March 31, 2021							
PJM Interconnection, LLC	Econ Sales		35,830,200		687,053	(48,909)	638,144
	Total Sales		<u>35,830,200</u>	<u>0</u>	<u>687,053</u>	<u>(48,909)</u>	<u>638,144</u>
Month Ended April 30, 2021							
PJM Interconnection, LLC	Econ Sales		55,975,200		1,134,021	281,739	1,415,760
	Total Sales		<u>55,975,200</u>	<u>0</u>	<u>1,134,021</u>	<u>281,739</u>	<u>1,415,760</u>

Legend
 Econ Sales - Economy Sales

**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

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:

John Swez
Libbie S. Miller

**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

STAFF-DR-01-015

REQUEST:

Provide a list, in chronological order, showing by unit any scheduled, actual, and forced outages for the period under review.

RESPONSE:

Please see STAFF-DR-01-015 Attachment.

PERSON RESPONSIBLE: Brad Daniel

KY FAC Request
 November 2020 - April 2021

Unit Name	Event Type	Month	Scheduled Hours	Forced Hours	Actual Hours	Event Duration Hours	Event Start	Event End	Description
East Bend Steam-2	PO	September	1515.8		1515.8	1515.8	9/18/20 5:12 PM	11/20/20 7:58 PM	2020 Fall Planned Outage
East Bend Steam-2	MO	November	76.0		76.0	76.0	11/28/20 12:44 AM	12/1/20 4:42 AM	High Vibration on HP Turbine
East Bend Steam-2	MO	January	133.9		133.9	133.9	1/20/21 1:22 AM	1/25/21 3:14 PM	Slag buildup, could not pull air.
East Bend Steam-2	U1	January		3.7	3.7	3.7	1/25/21 3:38 PM	1/25/21 7:18 PM	Tripped due to drum level
East Bend Steam-2	U1	January		1.4	1.4	1.4	1/25/21 7:19 PM	1/25/21 8:42 PM	Tripped due to drum level
East Bend Steam-2	U1	January		56.4	56.4	56.4	1/27/21 3:20 AM	1/29/21 11:44 AM	Condenser tube leak
East Bend Steam-2	PO	April	222.8		222.8	222.8	4/23/21 11:14 PM	5/3/21 6:00 AM	2021 Spring Planned Outage
Woodsdale CT-1	PO	November	273.4		273.4	273.4	11/2/20 6:00 AM	11/13/20 3:22 PM	Generator Breaker Outage
Woodsdale CT-1	U1	December		0.4	0.4	0.4	12/8/20 5:43 AM	12/8/20 6:06 AM	Tripped on Water injection failure. Unit came online with Remote Start and tripped off
Woodsdale CT-1	U1	February		1.0	1.0	1.0	2/16/21 8:43 AM	2/16/21 9:43 AM	Tripped during transfer to fuel oil.
Woodsdale CT-1	U1	March		7.3	7.3	7.3	3/15/21 3:58 PM	3/15/21 11:15 PM	CB 1505 and CB 1507 Tripped, units 1-4 unavailable.
Woodsdale CT-1	SF	April		118.2	118.2	118.2	4/8/21 8:07 PM	4/13/21 6:19 PM	GT2 SFC Switch over device failed; GT1 out to repair switchover device
Woodsdale CT-2	PO	November	273.6		273.6	273.6	11/2/20 6:00 AM	11/13/20 3:34 PM	Generator Breaker Outage
Woodsdale CT-2	SF	February		0.4	0.4	0.4	2/16/21 8:20 AM	2/16/21 8:44 AM	Unit tripped due to starting bkr. Reset/installed & reracked starting bkr.
Woodsdale CT-2	U1	March		7.3	7.3	7.3	3/15/21 3:58 PM	3/15/21 11:15 PM	CB 1505 and CB 1507 Tripped, units 1-4 unavailable.
Woodsdale CT-2	U1	March		4.4	4.4	4.4	3/18/21 10:00 AM	3/18/21 2:25 PM	Lube Oil pump Breaker would not close
Woodsdale CT-2	SF	April		329.5	329.5	329.5	4/8/21 8:04 PM	4/22/21 1:35 PM	Switch over device for SFC failed-Arc-over when switchover device went to GT1
Woodsdale CT-3	SF	December		0.5	0.5	0.5	12/7/20 4:09 PM	12/7/20 4:41 PM	Undervoltage Relay for Starting Breaker failed.
Woodsdale CT-3	SF	December		0.5	0.5	0.5	12/8/20 5:30 AM	12/8/20 5:59 AM	Undervoltage Relay for Starting Breaker failed. (Remote Start)
Woodsdale CT-3	U1	March		7.3	7.3	7.3	3/15/21 3:58 PM	3/15/21 11:15 PM	GCB-1505 & 1507 Tripped; plant unavailable
Woodsdale CT-4	U1	February		2.0	2.0	2.0	2/16/21 9:31 AM	2/16/21 11:31 AM	Manual trip due to fuel pipes hammering.
Woodsdale CT-4	SF	February		0.5	0.5	0.5	2/17/21 5:52 AM	2/17/21 6:22 AM	Flame out 2200RPM
Woodsdale CT-4	U1	March		7.3	7.3	7.3	3/15/21 3:58 PM	3/15/21 11:15 PM	GCB-1505 & 1507 Tripped; plant unavailable
Woodsdale CT-4	SF	March		8.6	8.6	8.6	3/22/21 4:39 AM	3/22/21 1:15 PM	Remote start, trip on burner cooling air
Woodsdale CT-5	PO	November	131.7		131.7	131.7	11/14/20 6:00 AM	11/19/20 5:41 PM	Bus Duct Heater Repairs
Woodsdale CT-5	U1	January		0.4	0.4	0.4	1/7/21 6:00 AM	1/7/21 6:24 AM	Fuel Oil Pump High Level Trip, had to drain pit.
Woodsdale CT-5	U1	February		1.0	1.0	1.0	2/16/21 9:03 AM	2/16/21 10:03 AM	Tripped during transfer to fuel oil.
Woodsdale CT-5	PO	March	1802.2		1802.2	1802.2	3/13/21 6:00 AM	5/27/21 9:09 AM	Generator Rewind Outage
Woodsdale CT-6	PO	November	131.7		131.7	131.7	11/14/20 6:00 AM	11/19/20 5:41 PM	Bus Duct Heater Repairs
Woodsdale CT-6	PO	March	2068.4		2068.4	2068.4	3/13/21 6:00 AM	6/7/21 11:26 AM	Generator Rewind Outage

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. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021

STAFF-DR-01-016

REQUEST:

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

RESPONSE:

East Bend

<u>Month</u>	<u>Net MWH</u>	<u>Period Hours*</u>	<u>MW Rating</u>	<u>MW Hours</u>	<u>Net Capacity Factor</u>
November 2020	50,676	721	600	432,600	11.71%
December 2020	389,177	744	600	446,400	87.18%
January 2021	280,323	744	600	446,400	62.80%
February 2021	360,347	672	600	403,200	89.37%
March 2021	325,032	743	600	445,800	72.91%
April 2021	<u>260,186</u>	<u>720</u>	<u>600</u>	<u>432,000</u>	<u>60.23%</u>
Total	1,665,741	4,344	600	2,606,400	63.91%

* November and March adjusted by 1 hour for daylight savings time

Total Period - Woodsdale

<u>Woodsdale Station</u>	<u>Net MWH</u>	<u>Period Hours</u>	<u>MW Rating</u>	<u>MW Hours</u>	<u>Net Capacity Factor</u>
Unit 1	2,477	4,344	91.33	396,808	0.62%
Unit 2	2,840	4,344	91.33	396,808	0.72%
Unit 3	3,804	4,344	91.33	396,808	0.96%
Unit 4	3,254	4,344	91.33	396,808	0.82%
Unit 5	1,289	4,344	91.33	396,808	0.32%
Unit 6	<u>1,754</u>	<u>4,344</u>	<u>91.33</u>	<u>396,808</u>	<u>0.44%</u>
Total	15,418	26,064	91.33	2,380,848	0.65%

November 2020

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours*</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	172	721	86	62,006	0.28%
Unit 2	257	721	86	62,006	0.41%
Unit 3	241	721	86	62,006	0.39%
Unit 4	187	721	86	62,006	0.30%
Unit 5	(106)	721	86	62,006	-0.17%
Unit 6	<u>(66)</u>	<u>721</u>	86	<u>62,006</u>	<u>-0.11%</u>
Total	685	4,326	86	372,036	0.18%

December 2020

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	985	744	94	69,936	1.41%
Unit 2	1,302	744	94	69,936	1.86%
Unit 3	1,147	744	94	69,936	1.64%
Unit 4	1,258	744	94	69,936	1.80%
Unit 5	1,195	744	94	69,936	1.71%
Unit 6	<u>1,361</u>	<u>744</u>	94	<u>69,936</u>	<u>1.95%</u>
Total	7,248	4,464	94	419,616	1.73%

January 2021

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	(142)	744	94	69,936	-0.20%
Unit 2	(151)	744	94	69,936	-0.22%
Unit 3	69	744	94	69,936	0.10%
Unit 4	(1)	744	94	69,936	0.00%
Unit 5	32	744	94	69,936	0.05%
Unit 6	<u>219</u>	<u>744</u>	94	<u>69,936</u>	<u>0.31%</u>
Total	26	4,464	94	419,616	0.01%

February 2021

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	409	672	94	63,168	0.65%
Unit 2	574	672	94	63,168	0.91%
Unit 3	447	672	94	63,168	0.71%
Unit 4	43	672	94	63,168	0.07%
Unit 5	354	672	94	63,168	0.56%
Unit 6	<u>403</u>	<u>672</u>	94	<u>63,168</u>	<u>0.64%</u>
Total	2,230	4,032	94	379,008	0.59%

March 2021

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours*</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	66	743	94	69,842	0.09%
Unit 2	99	743	94	69,842	0.14%
Unit 3	77	743	94	69,842	0.11%
Unit 4	(81)	743	94	69,842	-0.12%
Unit 5	(109)	743	94	69,842	-0.16%
Unit 6	<u>(92)</u>	<u>743</u>	94	<u>69,842</u>	<u>-0.13%</u>
Total	(40)	4,458	94	419,052	-0.01%

April 2021

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	987	720	86	61,920	1.59%
Unit 2	759	720	86	61,920	1.23%
Unit 3	1,823	720	86	61,920	2.94%
Unit 4	1,848	720	86	61,920	2.98%
Unit 5	(77)	720	86	61,920	-0.12%
Unit 6	<u>(71)</u>	<u>720</u>	86	<u>61,920</u>	<u>-0.11%</u>
Total	5,269	4,320	86	371,520	1.42%

* November and March period hours adjusted by 1 hour for daylight savings time

PERSON RESPONSIBLE:

John Swez
Libbie S. Miller

**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

STAFF-DR-01-017

REQUEST:

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

RESPONSE:

There have been no changes to maintenance and operation practices or completions of any specific generation efficiency improvements that affect fuel usage at Duke Kentucky's generation facilities.

PERSON RESPONSIBLE: Brad Daniel

**Duke Energy Kentucky
Case No. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

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 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. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

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 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. 2021-00296
STAFF First Set Data Requests
Date Received: August 18, 2021**

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:

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

Fuel Oil:

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

PERSON RESPONSIBLE: Brett Phipps