

VERIFICATION


STATE OF OHIO)
)
COUNTY OF HAMILTON) SS:

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



Libbie Miller Affiant

Subscribed and sworn to before me by Libbie S. Miller on this 23rd day of August, 2024.



NOTARY PUBLIC

My Commission Expires: July 8, 2027

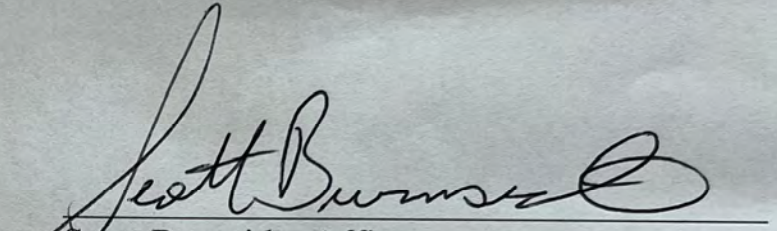


EMILIE SUNDERMAN
Notary Public
State of Ohio
My Comm. Expires
July 8, 2027

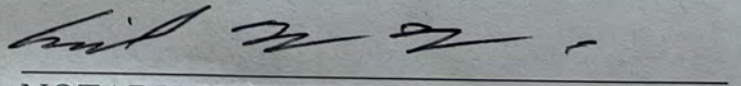
VERIFICATION

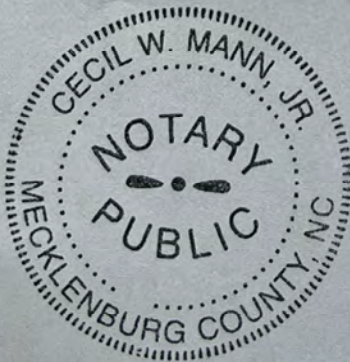
STATE OF NORTH CAROLINA)
) SS:
COUNTY OF MECKLENBURG)

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


Scott Burnside, Affiant

Subscribed and sworn to before me by Scott Burnside on this 23 day of August, 2024.


NOTARY PUBLIC



My Commission Expires: March 20
2027

KyPSC Case No. 2024-00148
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**Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024**

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 May 1, 2023, through October 31, 2023, please see STAFF-DR-01-001 Attachment.

PERSON RESPONSIBLE: Kimberly Hughes

Duke Energy Kentucky
Case No. 2024-000148- Staff First Set Data Requests
Coal purchased May 1, 2023 - October 31, 2023

<u>Vendor</u>	<u>Purchase Tonnage</u>	<u>Purchase Type</u>	<u>Contract #</u>	<u>Filed with Commission</u>	<u>Expiration Dates</u>	<u>If no, Explain why</u>
Alliance Coal LLC	112,970	Contract	DEK 34466	6/4/2021	12/31/2025	
Case Coal Sales LLC	6,325	Contract	DEK 35111	4/4/2023	3/31/2024	
Alliance Coal LLC	42,555	Contract	DEK 35034	4/8/2022	12/31/2023	
Iron Coal Sales	161,960	Contract	DEK 35197	4/4/2023	12/31/2024	
Central Coal Co	194,964	Contract	DEK 35366	4/4/2023	12/31/2025	
Iron Coal Sales	25,284	Contract	DEK 35024	4/20/2022	12/31/2023	
Total	<u>544,059</u>					
	100%	Contract				
	0%	Spot				
	100%	Total				

Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024

STAFF-DR-01-002

REQUEST:

For the period under review, list each coal purchase made under a longterm contract (one year or greater). For each purchase, list:

- a. Contract or purchase order number;
- b. Supplier's name;
- c. 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; and f. Price paid per ton.

RESPONSE:

- a. **35111**
- b. Case Coal Sales LLC
- c. Central Appalachian Steam Coal Sources, KY
- d. Barge
- e. 6,325
- f. \$118.00

- a. **34466**
- b. Alliance Coal, LLC
- c. Tunnel Ridge, Ohio County, WV
- d. Barge

e. 112,970

f. \$39.00

a. 35034

b. Alliance Coal, LLC

c. Tunnel Ridge, Ohio County, WV

d. Barge

e. 42,555

f. \$52.50

a. 35197

b. Iron Coal Sales

c. Cumberland Mining Complex, PA

d. Barge

e. 161,960

f. \$94.00

a. 35366

b. Central Coal Company as agent for Knight Hawk Coal, LLC

c. Knight Hawk's Prairie Eagle Mine, IL

d. Barge

e. 194,964

f. \$45.53

- a. **35024**
- b. Iron Coal Sales
- c. Cumberland Mining Complex, PA
- d. Barge
- e. 25,284
- f. \$53.50

PERSON RESPONSIBLE: Kimberly Hughes

Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024

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 targets 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 October 31, 2023, was 323,090 tons, or 50 days. This total inventory is for East Bend Station, which is the only coal-fired generating station in the Duke Energy Kentucky fleet.
- b. The number of days' supply is computed by dividing the ending coal inventory number stated in tons by the Full Load Burn figure of 6,500 tons per day.

- c. The target coal inventory is an annual average of 45 days compared to the actual inventory amount of 50 days on October 31, 2023, 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: Kimberly Hughes

Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024

STAFF-DR-01-004

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:

- a. Duke Energy Kentucky did not issue a written coal supply solicitation during May 1, 2023 through October 31, 2023.
- b. N/A

PERSON RESPONSIBLE: Kimberly Hughes

Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024

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 May 1, 2023 through October 31, 2023.
- b. N/A

PERSON RESPONSIBLE: Kimberly Hughes

**Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024**

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 May 1, 2023 to October 31, 2023.

PERSON RESPONSIBLE: Jim McClay

Duke Energy Kentucky - Physical Natural Gas Purchases
May 1, 2023 -October 31, 2023

Spot/Contract	Counterpart	Start Date	End Date	Buy/Sell	Qty	Qty UOM
Spot	Vitol Inc.	5/2/2023	5/2/2023	Buy	15000	MMBtu
Spot	Eco Energy Nat Gas	5/3/2023	5/3/2023	Buy	10000	MMBtu
Spot	TENASKA MARKETING VE	5/4/2023	5/4/2023	Buy	10000	MMBtu
Spot	Eco Energy Nat Gas	5/8/2023	5/8/2023	Buy	20000	MMBtu
Spot	Eco Energy Nat Gas	5/9/2023	5/9/2023	Buy	5000	MMBtu
Spot	TENASKA MARKETING VE	5/9/2023	5/9/2023	Buy	5000	MMBtu
Spot	TENASKA MARKETING VE	5/12/2023	5/12/2023	Buy	15000	MMBtu
Spot	Vitol Inc.	5/13/2023	5/13/2023	Buy	20000	MMBtu
Spot	TENASKA MARKETING VE	5/13/2023	5/13/2023	Buy	10000	MMBtu
Spot	Twin Eagle G	5/15/2023	5/15/2023	Buy	5000	MMBtu
Spot	Twin Eagle G	5/15/2023	5/15/2023	Buy	10000	MMBtu
Spot	Vitol Inc.	5/16/2023	5/16/2023	Buy	4000	MMBtu
Spot	Vitol Inc.	5/20/2023	5/20/2023	Buy	10000	MMBtu
Spot	TENASKA MARKETING VE	5/23/2023	5/23/2023	Buy	10000	MMBtu
Spot	TENASKA MARKETING VE	5/26/2023	5/26/2023	Buy	10000	MMBtu
Spot	Vitol Inc.	5/30/2023	5/30/2023	Buy	11000	MMBtu
Spot	TENASKA MARKETING VE	5/30/2023	5/30/2023	Buy	3000	MMBtu
Spot	Vitol Inc.	6/1/2023	6/1/2023	Buy	5000	MMBtu
Spot	Eco Energy Nat Gas	6/1/2023	6/1/2023	Buy	13000	MMBtu
Spot	Vitol Inc.	6/2/2023	6/2/2023	Buy	15000	MMBtu
Spot	TENASKA MARKETING VE	6/3/2023	6/3/2023	Buy	14000	MMBtu
Spot	TENASKA MARKETING VE	6/3/2023	6/3/2023	Buy	12000	MMBtu
Spot	TENASKA MARKETING VE	6/5/2023	6/5/2023	Buy	5000	MMBtu
Spot	Vitol Inc.	6/8/2023	6/8/2023	Buy	10000	MMBtu
Spot	Vitol Inc.	6/9/2023	6/9/2023	Buy	20000	MMBtu
Spot	Eco Energy Nat Gas	6/12/2023	6/12/2023	Buy	20000	MMBtu
Spot	Eco Energy Nat Gas	6/13/2023	6/13/2023	Buy	20000	MMBtu
Spot	Vitol Inc.	6/15/2023	6/15/2023	Buy	10000	MMBtu
Spot	Eco Energy Nat Gas	6/15/2023	6/15/2023	Buy	10000	MMBtu
Spot	Vitol Inc.	6/16/2023	6/16/2023	Buy	20000	MMBtu
Spot	TENASKA MARKETING VE	6/20/2023	6/20/2023	Buy	20000	MMBtu
Spot	Vitol Inc.	6/21/2023	6/21/2023	Buy	3000	MMBtu
Spot	Vitol Inc.	6/22/2023	6/22/2023	Buy	17000	MMBtu
Spot	Eco Energy Nat Gas	6/23/2023	6/23/2023	Buy	15000	MMBtu
Spot	TENASKA MARKETING VE	6/24/2023	6/24/2023	Buy	15000	MMBtu
Spot	TENASKA MARKETING VE	6/24/2023	6/24/2023	Buy	25000	MMBtu
Spot	Vitol Inc.	6/25/2023	6/25/2023	Buy	15000	MMBtu

Duke Energy Kentucky - Physical Natural Gas Purchases
May 1, 2023 -October 31, 2023

Spot/Contract	Counterpart	Start Date	End Date	Buy/Sell	Qty	Qty UOM
Spot	TENASKA MARKETING VE	6/26/2023	6/26/2023	Buy	15000	MMBtu
Spot	TENASKA MARKETING VE	6/26/2023	6/26/2023	Buy	12000	MMBtu
Spot	TENASKA MARKETING VE	6/27/2023	6/27/2023	Buy	15000	MMBtu
Spot	Vitol Inc.	6/28/2023	6/28/2023	Buy	15000	MMBtu
Spot	TENASKA MARKETING VE	6/29/2023	6/29/2023	Buy	15000	MMBtu
Spot	Eco Energy Nat Gas	7/4/2023	7/4/2023	Buy	15000	MMBtu
Spot	TENASKA MARKETING VE	7/6/2023	7/6/2023	Buy	15000	MMBtu
Spot	TENASKA MARKETING VE	7/7/2023	7/7/2023	Buy	10000	MMBtu
Spot	TENASKA MARKETING VE	7/7/2023	7/7/2023	Buy	15000	MMBtu
Spot	Eco Energy Nat Gas	7/8/2023	7/8/2023	Buy	10000	MMBtu
Spot	Eco Energy Nat Gas	7/9/2023	7/9/2023	Buy	20000	MMBtu
Spot	TENASKA MARKETING VE	7/11/2023	7/11/2023	Buy	10000	MMBtu
Spot	TENASKA MARKETING VE	7/12/2023	7/12/2023	Buy	15000	MMBtu
Spot	Vitol Inc.	7/13/2023	7/13/2023	Buy	10000	MMBtu
Spot	Twin Eagle G	7/13/2023	7/13/2023	Buy	18000	MMBtu
Spot	TENASKA MARKETING VE	7/14/2023	7/14/2023	Buy	10000	MMBtu
Spot	Twin Eagle G	7/14/2023	7/14/2023	Buy	20000	MMBtu
Spot	Eco Energy Nat Gas	7/21/2023	7/21/2023	Buy	15000	MMBtu
Spot	TENASKA MARKETING VE	7/22/2023	7/22/2023	Buy	15000	MMBtu
Spot	TENASKA MARKETING VE	7/25/2023	7/25/2023	Buy	10000	MMBtu
Spot	Twin Eagle G	7/25/2023	7/25/2023	Buy	10000	MMBtu
Spot	Eco Energy Nat Gas	7/26/2023	7/26/2023	Buy	15000	MMBtu
Spot	Eco Energy Nat Gas	7/26/2023	7/26/2023	Buy	25000	MMBtu
Spot	Eco Energy Nat Gas	7/27/2023	7/27/2023	Buy	15000	MMBtu
Spot	Eco Energy Nat Gas	7/27/2023	7/27/2023	Buy	10000	MMBtu
Spot	Twin Eagle G	7/27/2023	7/27/2023	Buy	20000	MMBtu
Spot	TENASKA MARKETING VE	7/27/2023	7/27/2023	Buy	15000	MMBtu
Spot	Eco Energy Nat Gas	7/28/2023	7/28/2023	Buy	20000	MMBtu
Spot	Vitol Inc.	7/28/2023	7/28/2023	Buy	45000	MMBtu
Spot	Vitol Inc.	8/12/2023	8/12/2023	Buy	20000	MMBtu
Spot	TENASKA MARKETING VE	8/13/2023	8/13/2023	Buy	20000	MMBtu
Spot	Vitol Inc.	8/14/2023	8/14/2023	Buy	20000	MMBtu
Spot	TENASKA MARKETING VE	8/14/2023	8/14/2023	Buy	10000	MMBtu
Spot	Eco Energy Nat Gas	8/14/2023	8/14/2023	Buy	10000	MMBtu
Spot	Vitol Inc.	8/15/2023	8/15/2023	Buy	10000	MMBtu
Spot	TENASKA MARKETING VE	8/21/2023	8/21/2023	Buy	20000	MMBtu
Spot	Vitol Inc.	8/21/2023	8/21/2023	Buy	10000	MMBtu
Spot	TENASKA MARKETING VE	8/22/2023	8/22/2023	Buy	10000	MMBtu
Spot	Vitol Inc.	8/22/2023	8/22/2023	Buy	10000	MMBtu
Spot	TENASKA MARKETING VE	8/23/2023	8/23/2023	Buy	10000	MMBtu
Spot	Vitol Inc.	8/24/2023	8/24/2023	Buy	20000	MMBtu
Spot	Vitol Inc.	8/25/2023	8/25/2023	Buy	30000	MMBtu
Spot	TENASKA MARKETING VE	8/26/2023	8/26/2023	Buy	25000	MMBtu
Spot	Vitol Inc.	8/31/2023	8/31/2023	Buy	5000	MMBtu
Spot	Eco Energy Nat Gas	9/5/2023	9/5/2023	Buy	10000	MMBtu
Spot	Vitol Inc.	9/6/2023	9/6/2023	Buy	15000	MMBtu
Spot	Vitol Inc.	9/7/2023	9/7/2023	Buy	15000	MMBtu
Spot	TENASKA MARKETING VE	9/25/2023	9/25/2023	Buy	20000	MMBtu
Spot	Eco Energy Nat Gas	9/28/2023	9/28/2023	Buy	10000	MMBtu
Spot	TENASKA MARKETING VE	10/2/2023	10/2/2023	Buy	10000	MMBtu
Spot	Vitol Inc.	10/3/2023	10/3/2023	Buy	15000	MMBtu
Spot	Vitol Inc.	10/4/2023	10/4/2023	Buy	15000	MMBtu
Spot	Eco Energy Nat Gas	10/5/2023	10/5/2023	Buy	15000	MMBtu

Duke Energy Kentucky - Physical Natural Gas Purchases
May 1, 2023 -October 31, 2023

Spot/Contract	Counterpart	Start Date	End Date	Buy/Sell	Qty	Qty UOM
Spot	Eco Energy Nat Gas	10/17/2023	10/17/2023	Buy	15000	MMBtu
Spot	Vitol Inc.	10/17/2023	10/17/2023	Buy	15000	MMBtu
Spot	Eco Energy Nat Gas	10/17/2023	10/17/2023	Buy	20000	MMBtu
Spot	Eco Energy Nat Gas	10/18/2023	10/18/2023	Buy	15000	MMBtu
Spot	Vitol Inc.	10/19/2023	10/19/2023	Buy	15000	MMBtu
Spot	Vitol Inc.	10/20/2023	10/20/2023	Buy	15000	MMBtu
Spot	Eco Energy Nat Gas	10/21/2023	10/21/2023	Buy	15000	MMBtu
Spot	Vitol Inc.	10/21/2023	10/21/2023	Buy	14754	MMBtu
Spot	TENASKA MARKETING VE	10/23/2023	10/23/2023	Buy	50000	MMBtu
Spot	Eco Energy Nat Gas	10/24/2023	10/24/2023	Buy	10000	MMBtu
Spot	Vitol Inc.	10/24/2023	10/24/2023	Buy	10000	MMBtu
Spot	TENASKA MARKETING VE	10/25/2023	10/25/2023	Buy	20000	MMBtu
Spot	Vitol Inc.	10/25/2023	10/25/2023	Buy	35000	MMBtu
Spot	TENASKA MARKETING VE	10/26/2023	10/26/2023	Buy	40000	MMBtu
Spot	Twin Eagle G	10/30/2023	10/30/2023	Buy	15000	MMBtu
Spot	Twin Eagle G	10/31/2023	10/31/2023	Buy	15000	MMBtu

Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024

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:

For the purposes of this response, “a natural gas generating unit” is defined as the Company’s Woodsdale Generating Station (Woodsdale), which is a six-unit natural gas-fired combustion turbine (CT) facility with fuel oil back-up located in Trenton, Ohio. For the period under review, there was one day in which the Company’s Woodsdale Generation Station could not be operated when it otherwise would have been available to run due to pipeline constraints or natural gas being unavailable. On September 7, 2023, the Woodsdale units were unavailable on natural gas due to scheduled pipeline maintenance. However, due to Woodsdale station’s dual fuel capability, the station was not prevented from operating because the units were available to be dispatched on oil during those times. There were no issues during the period with pipeline gas pressure that caused Woodsdale units to be removed from service. Finally, there were occasional TETCO issued Operational Flow Orders (“OFO”) that resulted in the necessity to utilize Woodsdale station’s dual fuel offer capability, which allows the units to be offered and available to run on oil when there is an interruption or constraint in gas supply.

PERSON RESPONSIBLE: John D. Swez

Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024

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

Natural Gas:

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

PERSON RESPONSIBLE:

Kimberly Hughes
Jim McClay

Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024

STAFF-DR-01-010

REQUEST:

State whether Duke Kentucky is currently involved in any litigation with its current or former fuel suppliers or transportation vendors.

- a. If so, 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. Identify and provide the current status of all litigation with suppliers or vendors.

RESPONSE:

Duke Energy Kentucky is not currently involved in any litigation with its current or former fuel suppliers or transportation vendors.

- a. N/A
- b. N/A

PERSON RESPONSIBLE: Kimberly Hughes
Jim McClay

**Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024**

**PUBLIC STAFF-DR-01-011
(As to Attachment only)**

REQUEST:

For the period under review, state whether there have been any changes to Duke Kentucky's written policies and procedures regarding its fuel procurement.

- a. 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. If any current fuel procurement policies and procedures have not been provided to the Commission, provide those fuel procurement policies and procedures, and explain why they were not previously provided.

RESPONSE:

CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachment only)

Coal, Natural Gas, and Fuel Oil

- a. There have been no changes to Duke Energy Kentucky's written policies and procedures regarding its fuel procurement. However, there were minor corrections regarding how two titles were abbreviated.

b. The “**Regulated Risk Limits Manual**” was updated on June 1, 2023. Please see STAFF-DR-01-011 Confidential Attachment. There were no material changes to the “Regulated Risk Limits Manual.” Most of the changes were minor corrections regarding how two titles were abbreviated. Below are the corrections made to the manual since January 20, 2022:

- Before: “the Chief Risk Officer, Duke Energy (**CRO**)
- After: “the Chief Risk Officer (**CRO**), Duke Energy
- Before: “the Chief Financial Officer, Duke Energy (**CFO**)
- After: “the Chief Financial Officer (**CFO**), Duke Energy

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

Coal

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

Natural Gas & Fuel Oil

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

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

PERSON RESPONSIBLE: Kimberly Hughes
Jim McClay

**CONFIDENTIAL PROPRIETARY TRADE
SECRET**

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

FILED UNDER SEAL

**Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024**

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 D. Swez

**Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024**

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 Miller

DUKE ENERGY KENTUCKY
 POWER TRANSACTION SCHEDULE

Supplier/Buyer		Transaction Type	kWh	Charges (\$)			
				Demand	Fuel	Other	Total
Month Ended May 31,2023							
PJM Interconnection, LLC		Economy Sales	13,098,990	0	351,134	308,727	659,861
	Total Sales		<u>13,098,990</u>	<u>0</u>	<u>351,134</u>	<u>308,727</u>	<u>659,861</u>
Month Ended June 30,2023							
PJM Interconnection, LLC		Economy Sales	9,401,030	0	634,845	(191,156)	443,689
	Total Sales		<u>9,401,030</u>	<u>0</u>	<u>634,845</u>	<u>(191,156)</u>	<u>443,689</u>
Month Ended July 31,2023							
PJM Interconnection, LLC		Economy Sales	14,292,540	0	632,270	530,813	1,163,083
	Total Sales		<u>14,292,540</u>	<u>0</u>	<u>632,270</u>	<u>530,813</u>	<u>1,163,083</u>
Month Ended August 31,2023							
PJM Interconnection, LLC		Economy Sales	15,302,360	0	401,459	362,692	764,151
	Total Sales		<u>15,302,360</u>	<u>0</u>	<u>401,459</u>	<u>362,692</u>	<u>764,151</u>
Month Ended September 30,2023							
PJM Interconnection, LLC		Economy Sales	4,208,960	0	123,421	77,259	200,680
	Total Sales		<u>4,208,960</u>	<u>0</u>	<u>123,421</u>	<u>77,259</u>	<u>200,680</u>
Month Ended October 31,2023							
PJM Interconnection, LLC		Economy Sales	59,210 ^(a)	0	892	6,664	7,556
	Total Sales		<u>59,210</u>	<u>0</u>	<u>892</u>	<u>6,664</u>	<u>7,556</u>

Notes: ^(a) Low sales due to East Bend's planned maintenance outage

**Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024**

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 D. Swez
Libbie Miller

**Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024**

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: John D. Swez

Unit	Event Type	Schedule Hours	Forced Hours	Actual Hours	Event	Event Start	Event End	Event Description
					Duration Hours			
Woodsdale CT-1	PO	82.00	0.00	82.00	82.00	5/1/23 10:00 AM	5/4/23 8:00 PM	Outage for Fuel Oil Tubing Repairs
Woodsdale CT-5	MO	3.25	0.00	3.25	3.25	5/3/23 5:00 PM	5/3/23 8:15 PM	Outage for Generator Borescope.
Woodsdale CT-2	PO	35.00	0.00	35.00	35.00	5/4/23 10:00 AM	5/5/23 9:00 PM	Outage for Fuel Oil Tubing Repairs
Woodsdale CT-6	SF	0.00	0.73	0.73	0.73	5/7/23 10:16 AM	5/7/23 11:00 AM	Start Fail; tripped on flame, RS at 0700, Load Desk didn't want to restart.
Woodsdale CT-4	PO	33.45	0.00	33.45	33.45	5/11/23 10:00 AM	5/12/23 7:27 PM	Outage for Fuel Oil Tubing Repairs
Woodsdale CT-6	U1	0.00	88.53	88.53	88.53	5/14/23 3:15 AM	5/17/23 7:47 PM	Trip, Fire Prot, CO2 Discharged.
East Bend Steam-2	MO	171.47	0.00	171.47	171.47	5/15/23 4:22 AM	5/22/23 7:50 AM	2-2 ID Booster Fan VIVs repairs
East Bend Steam-2	MO	14.30	0.00	14.30	14.30	6/7/23 6:04 AM	6/7/23 8:22 PM	Repair #8 governor valve
Woodsdale CT-6	U1	0.00	14.78	14.78	14.78	6/26/23 10:16 PM	6/27/23 1:03 PM	Trip due to Exhaust Thermocouple faults
Woodsdale CT-4	PO	56.52	0.00	56.52	56.52	6/30/23 10:00 AM	7/2/23 6:31 PM	Opened Bank 1602 to move crane for GT3 Gen lift.
Woodsdale CT-2	U1	0.00	2.38	2.38	2.38	7/18/23 1:12 PM	7/18/23 3:35 PM	AVR went to manual, made unavailable, reset
Woodsdale CT-1	U1	0.00	26.78	26.78	26.78	7/20/23 4:37 PM	7/21/23 7:24 PM	Took offline due to oil leak on burner
Woodsdale CT-4	MO	10.50	0.00	10.50	10.50	7/21/23 10:00 AM	7/21/23 8:30 PM	Unavailable to restore GT3 Links
Woodsdale CT-3	SF	0.00	2.58	2.58	2.58	7/26/23 7:02 PM	7/26/23 9:37 PM	Would not light off; propane ignition pressure too high
Woodsdale CT-3	U1	0.00	9.50	9.50	9.50	8/4/23 2:16 AM	8/4/23 11:46 AM	Trip; Inner Ring Exhaust TC Bad
Woodsdale CT-1	PO	49.58	0.00	49.58	49.58	8/8/23 10:00 AM	8/10/23 11:35 AM	Plant outage to inspect receiver air tanks
Woodsdale CT-2	PO	49.58	0.00	49.58	49.58	8/8/23 10:00 AM	8/10/23 11:35 AM	Plant outage to inspect receiver air tanks
Woodsdale CT-3	PO	49.58	0.00	49.58	49.58	8/8/23 10:00 AM	8/10/23 11:35 AM	Plant outage to inspect receiver air tanks
Woodsdale CT-4	PO	49.58	0.00	49.58	49.58	8/8/23 10:00 AM	8/10/23 11:35 AM	Plant outage to inspect receiver air tanks
Woodsdale CT-5	PO	49.58	0.00	49.58	49.58	8/8/23 10:00 AM	8/10/23 11:35 AM	Plant outage to inspect receiver air tanks
Woodsdale CT-6	PO	49.58	0.00	49.58	49.58	8/8/23 10:00 AM	8/10/23 11:35 AM	Plant outage to inspect receiver air tanks
Woodsdale CT-6	U1	0.00	1.93	1.93	1.93	8/15/23 12:20 PM	8/15/23 2:16 PM	Unavailable due to Fire Protection Fault
East Bend Steam-2	MO	114.23	0.00	114.23	114.23	8/26/23 7:28 AM	8/31/23 1:42 AM	Secondary Superheater Intermediate tube leak
East Bend Steam-2	MO	46.08	0.00	46.08	46.08	9/16/23 5:54 AM	9/18/23 3:59 AM	Fall Maintenance Outage
Woodsdale CT-1	PO	327.20	0.00	327.20	327.20	9/23/23 4:00 AM	10/6/23 7:12 PM	Fall outage / Borescope
Woodsdale CT-2	PO	328.22	0.00	328.22	328.22	9/23/23 4:00 AM	10/6/23 8:13 PM	Fall outage / Borescope
Woodsdale CT-4	U1	0.00	24.22	24.22	24.22	9/25/23 2:40 PM	9/26/23 2:53 PM	Replaced starting breaker; adjustment in cubicle
Woodsdale CT-3	PO	323.40	0.00	323.40	323.40	9/30/23 4:00 AM	10/13/23 3:24 PM	Fall outage / Borescope
Woodsdale CT-4	PO	323.30	0.00	323.30	323.30	9/30/23 4:00 AM	10/13/23 3:18 PM	Fall outage / Borescope
Woodsdale CT-5	PO	281.27	0.00	281.27	281.27	10/9/23 4:00 AM	10/20/23 9:16 PM	Fall outage / Borescope
Woodsdale CT-6	PO	281.53	0.00	281.53	281.53	10/9/23 4:00 AM	10/20/23 9:32 PM	Fall outage / Borescope
Woodsdale CT-1	U1	0.00	5.55	5.55	5.55	10/10/23 9:41 AM	10/10/23 3:14 PM	Trip on Water Injection
Woodsdale CT-2	SF	0.00	3.30	3.30	3.30	10/10/23 5:10 PM	10/10/23 8:28 PM	Start up fail; AVR Fault
Woodsdale CT-2	MO	1.92	0.00	1.92	1.92	10/18/23 10:00 AM	10/18/23 11:55 AM	Work on AVR Fault

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. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024

STAFF-DR-01-016

REQUEST:

For the period under review, provide the monthly supporting peaking unit equivalent calculations in electronic Excel spreadsheet format with all formulas, columns, and rows unprotected and fully accessible for the forced outage calculations. In addition, provide the corresponding amount, if any, of forced outage purchased power collected through the purchase power adjustment tariff.

RESPONSE:

Duke Energy Kentucky does not use peaking unit equivalent calculations in support of forced outage calculations. Also, Duke Energy Kentucky does not collect forced outage purchased power through an adjustment tariff; however, during the review period, Duke Energy Kentucky had deferral authority from Case No. 2017-00321 to defer forced outage purchased power in excess of what is already included in base rates for the period May 2023 through October 12, 2023. The October 12, 2023 Order in Case No. 2022-00372 denied the continuation of the forced outage purchased power deferral.

PERSON RESPONSIBLE: Scott Burnside
 Libbie Miller

Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024

STAFF-DR-01-017

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>
May-23	153,687	744	600	446,400	34.43%
June-23	279,630	720	600	432,000	64.73%
July-23	325,784	744	600	446,400	72.98%
August-23	274,900	744	600	446,400	61.58%
September-23	149,537	720	600	432,000	34.62%
October-23	<u>(3,799)</u>	<u>744</u>	<u>600</u>	<u>446,400</u>	<u>-0.85%</u>
Total	1,179,739	4,416	600	2,649,600	44.53%

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	14,255	4,416	80.67	356,352	4.00%
Unit 2	21,473	4,416	82.00	362,208	5.93%
Unit 3	9,335	4,416	82.00	362,208	2.58%
Unit 4	20,903	4,416	80.67	356,352	5.87%
Unit 5	22,449	4,416	82.00	362,208	6.20%
Unit 6	<u>22,164</u>	<u>4,416</u>	<u>82.00</u>	<u>362,208</u>	<u>6.12%</u>
Total	110,579	26,496	81.56	2,161,536	5.12%

May-23

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	5,104	744	86	63,984	7.98%
Unit 2	5,715	744	86	63,984	8.93%
Unit 3	(75)	744	86	63,984	-0.12%
Unit 4	4,759	744	86	63,984	7.44%
Unit 5	5,349	744	86	63,984	8.36%
Unit 6	4,728	744	86	63,984	7.39%
Total	25,580	4,464	86	383,904	6.66%

Jun-23

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	1,199	720	78	56,160	2.13%
Unit 2	1,646	720	80	57,600	2.86%
Unit 3	(62)	720	80	57,600	-0.11%
Unit 4	1,637	720	78	56,160	2.91%
Unit 5	1,169	720	80	57,600	2.03%
Unit 6	1,675	720	80	57,600	2.91%
Total	7,264	4,320	79	342,720	2.12%

Jul-23

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	2,158	744	78	58,032	3.72%
Unit 2	4,561	744	80	59,520	7.66%
Unit 3	561	744	80	59,520	0.94%
Unit 4	4,524	744	78	58,032	7.80%
Unit 5	4,444	744	80	59,520	7.47%
Unit 6	4,582	744	80	59,520	7.70%
Total	20,830	4,464	79	354,144	5.88%

Aug-23

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	2,372	744	78	58,032	4.09%
Unit 2	3,770	744	80	59,520	6.33%
Unit 3	3,131	744	80	59,520	5.26%
Unit 4	4,032	744	78	58,032	6.95%
Unit 5	4,359	744	80	59,520	7.32%
Unit 6	4,395	744	80	59,520	7.38%
Total	22,059	4,464	79	354,144	6.23%

Sep-23

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	254	720	78	56,160	0.45%
Unit 2	654	720	80	57,600	1.14%
Unit 3	1,202	720	80	57,600	2.09%
Unit 4	884	720	78	56,160	1.57%
Unit 5	1,428	720	80	57,600	2.48%
Unit 6	1,307	720	80	57,600	2.27%
Total	5,729	4,320	79	342,720	1.67%

Oct-23

Woodsdale <u>Station</u>	Net <u>MWH</u>	Period <u>Hours</u>	MW <u>Rating</u>	MW <u>Hours</u>	Net Capacity <u>Factor</u>
Unit 1	3,168	744	86	63,984	4.95%
Unit 2	5,127	744	86	63,984	8.01%
Unit 3	4,578	744	86	63,984	7.15%
Unit 4	5,067	744	86	63,984	7.92%
Unit 5	5,700	744	86	63,984	8.91%
Unit 6	5,477	744	86	63,984	8.56%
Total	29,117	4,464	86	383,904	7.58%

PERSON RESPONSIBLE:

John Swez
Libbie Miller

**Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024**

STAFF-DR-01-018

REQUEST:

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. If so, describe the impact of these changes on Duke Kentucky's fuel usage.

RESPONSE:

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

PERSON RESPONSIBLE: John D. Swez

**Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024**

STAFF-DR-01-019

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: Kimberly Hughes
Jim McClay

**Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024**

STAFF-DR-01-020

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 during the period under review.

PERSON RESPONSIBLE: Libbie Miller

**Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024**

STAFF-DR-01-021

REQUEST:

State whether all fuel contracts related to commodity and transportation have been filed with the Commission. If any contracts have not been filed, explain why they have not been filed, and provide a copy.

RESPONSE:

Coal:

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

Natural Gas:

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

Fuel Oil:

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

PERSON RESPONSIBLE: Kimberly Hughes
Jim McClay

**Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024**

STAFF-DR-01-022

REQUEST:

Identify any customers, either by class of customer or pursuant to special contract, that are not billed a FAC charge.

RESPONSE:

All Duke Energy Kentucky customers are billed the FAC charge as described in the Commission approved tariffs and Commission approved special contracts.

PERSON RESPONSIBLE: Libbie Miller

**Duke Energy Kentucky
Case No. 2024-00148
STAFF First Set of Data Requests
Date Received: August 2, 2024**

STAFF-DR-01-023

REQUEST:

If any customer class or special contract has or is not being charged a FAC, state the date when the FAC ceased being charged.

RESPONSE:

Not Applicable. See the response to STAFF-DR-01-022.

PERSON RESPONSIBLE: Libbie Miller