

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

**In the Matter of:**

<b>AN ELECTRONIC EXAMINATION OF THE</b>	)	
<b>APPLICATION OF THE FUEL ADJUSTMENT</b>	)	
<b>CLAUSE OF LOUISVILLE GAS AND</b>	)	<b>CASE NO. 2021-00295</b>
<b>ELECTRIC COMPANY FROM NOVEMBER 1,</b>	)	
<b>2020 THROUGH APRIL 30, 2021</b>	)	

**RESPONSE OF**  
**LOUISVILLE GAS AND ELECTRIC COMPANY**  
**TO**  
**THE COMMISSION STAFF'S INITIAL REQUEST FOR INFORMATION**  
**DATED AUGUST 18, 2021**

**FILED: SEPTEMBER 1, 2021**

VERIFICATION

COMMONWEALTH OF KENTUCKY )  
  )  
COUNTY OF JEFFERSON                 )

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

  
\_\_\_\_\_  
**Delbert Billiter**

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 27<sup>th</sup> day of August 2021.

  
\_\_\_\_\_  
Notary Public

Notary Public ID No. 603967

My Commission Expires:

July 11, 2022


**VERIFICATION**

**COMMONWEALTH OF KENTUCKY )**  
**)**  
**COUNTY OF JEFFERSON )**

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

  
\_\_\_\_\_  
**Michael P. Drake**

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 15~~th~~ day of September 2021.

  
\_\_\_\_\_  
Notary Public  
Notary Public ID. No. **603967**

My Commission Expires:

**July 11, 2022**

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**VERIFICATION**

**COMMONWEALTH OF KENTUCKY )**  
**)**  
**COUNTY OF JEFFERSON )**

The undersigned, **Andrea M. Fackler**, being duly sworn, deposes and says that she is Manager - Revenue Requirement/Cost of Service for LG&E and KU Services Company, and that she has personal knowledge of the matters set forth in the responses for which she is identified as the witness, and the answers contained therein are true and correct to the best of her information, knowledge and belief.

*Andrea M. Fackler*  
**Andrea M. Fackler**

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 15<sup>th</sup> day of September 2021.

*Judy Schoole*  
Notary Public

Notary Public ID No. 603967

My Commission Expires:

**July 11, 2022**


**VERIFICATION**

**COMMONWEALTH OF KENTUCKY )  
)  
COUNTY OF JEFFERSON )**

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

  
\_\_\_\_\_  
**Charles R. Schram**

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 1<sup>st</sup> day of September 2021.

  
\_\_\_\_\_  
Notary Public  
Notary Public ID No. 603967

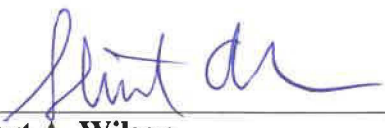
My Commission Expires:

**July 11, 2022**

**VERIFICATION**

**COMMONWEALTH OF KENTUCKY )  
  )  
COUNTY OF JEFFERSON )**

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



\_\_\_\_\_ **Stuart A. Wilson**

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 31<sup>st</sup> day of August 2021.



\_\_\_\_\_  
Notary Public **603967**  
Notary Public ID No. \_\_\_\_\_

My Commission Expires:

**July 11, 2022**

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**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 1**

**Responding Witness: Delbert Billiter**

Q-1. For the period under review, provide the amount of coal purchased in tons and the percentage of purchases that were spot versus contract.

A-1. During the period under review, the Company purchased 2,938,152 tons of coal.

Spot:           5%       (160,993 tons)

Contract:     95%       (2,777,159 tons)

**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 2**

**Responding Witness: Delbert Billiter**

- Q-2. 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
- A-2. See attached. Page 1 of the attachment shows only the actual quantity received by the Company under each contract, and page 2 shows the actual combined quantity received by KU and LG&E under each contract. Page 2 better reflects contract performance since most contracts are joint contracts between the two companies.



<b>LG&amp;E Coal Purchases (unloaded) under long-term contract</b>						
<b>November 1, 2020 through April 30, 2021</b>						
<b>(a)</b>	<b>(b)</b>	<b>(c)</b>	<b>(d)</b>	<b>(e)</b>	<b>(f)</b>	<b>(g)</b>
<b>Contract/PO</b>	<b>Supplier</b>	<b>Location of Production Facility</b>	<b>Delivery Method</b>	<b>Actual Quantity Received</b>	<b>Tonnage Requirement*</b>	<b>Current Price** (\$/ton)</b>
J16006B	ACNR Coal Sales, Inc	IL, WV	Barge	20,100	111,723	\$40.39-IL, \$39.39-WV
J16017C	ACNR Coal Sales, Inc	W-KY	Rail, Barge	63,988	115,062	\$41.60
J17004B	ACNR Coal Sales, Inc	IL	Barge	419,347	958,333	\$43.40-IL, \$42.40-WV
J18002C	ACNR Coal Sales, Inc	W-KY	Rail, Barge	181,556	271,217	\$44.98-B, \$44.98-R
J21002	ACNR Coal Sales, Inc	W-KY	Rail, Barge	284,306	333,333	\$42.15
J14001B	Alliance Coal LLC	W-KY	Barge	60,899	66,667	\$39.45
J18003	Alliance Coal LLC	W-KY	Barge	86,375	166,667	\$42.42
J18009	Alliance Coal LLC	W-KY	Barge	462,508	761,667	\$38.93-KY, \$41.15-WV
J19001	Alliance Coal LLC	W-KY	Rail	148,218	166,667	\$41.00-Dotiki; \$42.10 Warrior
J21003	Alliance Coal LLC	W-KY	Rail	317,081	333,333	\$40.95
J21004	Alliance Coal LLC	W-KY, WV	Barge	420,287	833,333	\$39.05-KY, \$41.55-WV
J21010	Alliance Coal LLC	W-KY	Barge	43,701	56,000	\$38.10
J20001B	Alpha Thermal Coal Sales	PA	Barge	-	140,119	\$40.60
J20002	Arch Coal Sales Company Inc.	WY	Barge	-	273,000	\$12.80
J20024	Coal Network LLC	multi-state	Barge	36,640	65,000	\$25.00
J20001	Contura Coal Sales LLC	PA	Barge	-	77,898	\$40.60
J18005	Knight Hawk Coal, LLC	IL	Barge	43,354	83,333	\$36.98
J21001	Knight Hawk Coal, LLC	IL	Barge	54,957	166,667	\$36.92
J21022	Knight Hawk Coal, LLC	IL	Barge	16,210	27,778	\$33.15
J19003	Peabody COALSALES LLC	IN	Barge, Rail	-	244,667	\$41.10-B, \$38.80-R
J20006	Western Kentucky Minerals, Inc	W-KY	Barge	103,433	167,143	\$40.36
J19002	White Stallion Energy LLC	IL	Barge	14,200	180,000	\$43.77
				2,777,159		
*Tonnage Requirement is a ratable volume for combined LG&E and KU coal station shipments						
**Prices vary by source/transportation type. Prices as of 4/30/21						

**Attachment to Response to Question No. 2**

**BILLITER**

**Page 1 of 2**

<b>Combined LG&amp;E and KU Coal Purchases (unloaded) under long-term contract</b>						
<b>November 1, 2020 through April 30, 2021</b>						
<b>(a)</b>	<b>(b)</b>	<b>(c)</b>	<b>(d)</b>	<b>(e)</b>	<b>(f)</b>	<b>(g)</b>
<b>Contract/PO</b>	<b>Supplier</b>	<b>Location of Production Facility</b>	<b>Delivery Method</b>	<b>Actual Quantity Received</b>	<b>Tonnage Requirement*</b>	<b>Current Price** (\$/ton)</b>
J16006B	ACNR Coal Sales, Inc	IL, WV	Barge	133,412	111,723	\$40.39-IL, \$39.39-WV
J16017C	ACNR Coal Sales, Inc	W-KY	Rail, Barge	63,988	115,062	\$41.60
J17004B	ACNR Coal Sales, Inc	IL	Barge	883,260	958,333	\$43.40-IL, \$42.40-WV
J18002C	ACNR Coal Sales, Inc	W-KY	Rail, Barge	354,018	271,217	\$44.98-B, \$44.98-R
J21002	ACNR Coal Sales, Inc	W-KY	Rail, Barge	284,306	333,333	\$42.15
J14001B	Alliance Coal LLC	W-KY	Barge	83,243	66,667	\$39.45
J18003	Alliance Coal LLC	W-KY	Barge	198,284	166,667	\$42.42
J18009	Alliance Coal LLC	W-KY	Barge	832,838	761,667	\$38.93-KY, \$41.15-WV
J19001	Alliance Coal LLC	W-KY	Rail	148,218	166,667	\$41.00-Dotiki; \$42.10 Warrior
J21003	Alliance Coal LLC	W-KY	Rail	317,081	333,333	\$40.95
J21004	Alliance Coal LLC	W-KY, WV	Barge	747,525	833,333	\$39.05-KY, \$41.55-WV
J21010	Alliance Coal LLC	W-KY	Barge	43,701	56,000	\$38.10
J20001B	Alpha Thermal Coal Sales	PA	Barge	118,299	140,119	\$40.60
J20002	Arch Coal Sales Company Inc.	WY	Barge	221,603	273,000	\$12.80
J20024	Coal Network LLC	multi-state	Barge	51,103	65,000	\$25.00
J20001	Contura Coal Sales LLC	PA	Barge	59,883	77,898	\$40.60
J18005	Knight Hawk Coal, LLC	IL	Barge	106,420	83,333	\$36.98
J21001	Knight Hawk Coal, LLC	IL	Barge	159,602	166,667	\$36.92
J21022	Knight Hawk Coal, LLC	IL	Barge	16,210	27,778	\$33.15
J19003	Peabody COALSALES LLC	IN	Barge, Rail	224,908	244,667	\$41.10-B, \$38.80-R
J20006	Western Kentucky Minerals, Inc	W-KY	Barge	134,070	167,143	\$40.36
J19002	White Stallion Energy LLC	IL	Barge	14,200	180,000	\$43.77
				5,196,171	5,599,607	
*Tonnage Requirement is a ratable volume for combined LG&E and KU coal station shipments						
**Prices vary by source/transportation type. Prices as of 4/30/21						

**Attachment to Response to Question No. 2**

**BILLITER**

**Page 2 of 2**

**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 3**

**Responding Witness: Delbert Billiter**

- Q-3. 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.

A-3.

- a. As of April 30, 2021:

Mill Creek <sup>1</sup>	378,111 Tons; 26 Days	Target 20-39 Days
<u>Trimble County<sup>2, 3</sup></u>	<u>177,401 Tons; 34 Days</u>	<u>Target 21-43 Days</u>
Total	555,512 Tons; 27 Days	Target 19-38 Days

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<sup>1</sup> Inventory listed for Mill Creek does not include the 75,000 tons sold to the Refined coal facility operator that remains in the onsite coal pile, as previously discussed in Case No. 2015-00264.

<sup>2</sup> Inventory listed for Trimble County does not include the 32,400 tons sold to the Refined coal facility operator that remains in the onsite coal pile, as previously discussed in Case No. 2015-00264.

<sup>3</sup> Trimble County coal inventory tons is LG&E's allocated ownership of both high sulfur coal, which is used in Unit 1 and Unit 2, and PRB coal, which is used only in Unit 2. The days in inventory and target range are calculated on a combined basis regardless of ownership.

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

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

- c. See (a) above.
- d. Not applicable.
- e. (1) LG&E does not expect significant changes to its current coal inventory target levels; however, during the Companies' planning cycle minor adjustments may be made to the inventory targets if warranted.  
  
(2) Not applicable.

**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 4**

**Responding Witness: Delbert Billiter**

- Q-4. 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.

A-4.

a. SOLICITATION 1

Date: March 22, 2021  
Contract/Spot: Contract or Spot  
Quantities: No minimum or maximum specified  
Quality: Suitable for KU's Ghent Station, LG&E's Mill Creek Station, and KU's and LG&E's Trimble County Station  
Period: July 1, 2021 through December 31, 2021 – Spot  
2022 and beyond – Contract  
Generating Units: All units at Ghent, Trimble County and Mill Creek Stations

- b. Number of vendors sent a solicitation: 64  
Number of vendors responded: 7 companies / 7 offers  
Selected vendor(s): The vendors selected were based upon the lowest evaluated delivered cost, operational and environmental requirements of the coal units, and other factors impacting coal supply reliability as noted on the attached bid evaluation sheets.

High Sulfur Coal - Spot  
Alliance Coal, LLC – J21027

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

The entire attachment is  
Confidential and  
provided separately  
under seal.

**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 5**

**Responding Witness: Delbert Billiter**

- Q-5. 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.
- A-5. There were no oral coal-supply solicitations during the period under review.



**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 6**

**Responding Witness: Charles Schram**

- Q-6. 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)
- A-6. See attached for the list of vendors, associated quantities, and the nature of each natural gas purchase.

**Attachment to Response to Question No. 6**  
**Page 1 of 1**  
**Schram**

<u>Vendor</u>	<u>Type</u> <sup>1</sup>	<u>MMBTU</u>
BP Energy Company	Spot	151,700
Castleton Commodities Merchant Trading L.P.	Spot	31,100
CIMA Energy, LP	Spot	30,000
Colonial Energy, Inc.	Spot	2,100
ConocoPhillips Company	Spot	1,000
Direct Energy Business Marketing, LLC	Spot	15,000
DTE Energy Trading, Inc.	Spot	149,500
Eco-Energy Natural Gas, LLC	Spot	118,900
Engie Energy Marketing NA, Inc.	Spot	103,200
Exelon Generation Company, LLC	Spot	52,800
J. Aron & Company LLC	Spot	8,800
KM Ventures, LLC (dba Freedom Energy)	Spot	54,000
Macquarie Energy, LLC	Spot	56,300
Mercuria Energy America, LLC	Spot	15,000
NextEra Energy Marketing, LLC	Spot	378,992
NJR Energy Services Company	Spot	10,000
Ovintiv Marketing Inc.	Spot	18,600
Sequent Energy Management, L.P.	Spot	39,000
Shell Energy North America (US), L.P.	Spot	483,899
Southwest Energy, L.P.	Spot	71,300
Spire Marketing Inc.	Spot	16,600
Spotlight Energy, LLC	Spot	111,500
Symmetry Energy Solutions, LLC	Spot	10,000
Tenaska Marketing Ventures	Spot	8,150,317
Tennessee Valley Authority	Spot	49,998
Texla Energy Management, Inc.	Spot	36,300
TrailStone Energy Marketing, LLC	Spot	26,500
Twin Eagle Resource Management, LLC	Spot	136,800
Uniper Global Commodities North America LLC	Spot	75,000
United Energy Trading, LLC	Spot	337,141
Wells Fargo Commodities, LLC	Spot	24,900
Columbia Gas of Kentucky, Inc.	GSO Customer <sup>2</sup>	269
LG&E Gas Supply	Special Contract <sup>3</sup>	153,471
EDF Trading North America, LLC	Forward	3,538,879
Engie Energy Marketing NA, Inc.	Forward	1,509,997
Exelon Generation Company, LLC	Forward	299,431
J. Aron & Company LLC	Forward	602,029
NextEra Energy Marketing, LLC	Forward	309,366
Sequent Energy Management, L.P.	Forward	610,000
Spire Marketing Inc.	Forward	1,196,769
Twin Eagle Resource Management, LLC	Forward	919,994
Grand Total		19,906,452

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

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

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

**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 7**

**Responding Witness: Charles Schram**

- Q-7. 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.
- A-7. There were no instances of generating unit restrictions due to pipeline constraints or natural gas unavailability.

**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 8**

**Responding Witness: Delbert Billiter / Charles Schram**

- Q-8. 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
- A-8. The Company does not engage in financial hedging activities for its coal or natural gas purchases.

There have been no changes to the physical hedging practices or guidelines since the previous review proceeding.

**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 9**

**Responding Witness: Delbert Billiter / Charles Schram**

- Q-9. State whether LG&E has audited any of its fuel or transportation contracts during the period under review. If so, for each audited contract:
- a. Identify the contract;
  - b. Identify the auditor; and
  - c. State the results of the audit, and describe the actions that LG&E took as a result of the audit.

- A-9. No. The Company has not conducted any financial audits of fuel or transportation contracts.

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

**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 10**

**Responding Witness: Delbert Billiter / Charles Schram**

Q-10. a. State whether LG&E 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 LG&E;
- (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.

A-10. The Company is not involved in direct litigation with a supplier but is involved in a Chapter 11 bankruptcy process with two of its coal suppliers impacting one contract.

a.

- (1) Eagle River Coal, LLC and White Stallion Energy, LLC
- (2) Coal Supply Agreement J19002 between LG&E and KU and Eagle River Coal, LLC and White Stallion Energy, LLC (dated as of July 20, 2018, as amended)
- (3) The Companies would have no liability other than continuing to perform under the terms of J19002. If Eagle River Coal, LLC and White Stallion Energy, LLC are unsuccessful in an approved bankruptcy reorganization or sale and the contract is ultimately terminated, the Companies would enter the market for replacement coal.

- (4) White Stallion Energy, LLC filed for Chapter 11 relief in U.S. Bankruptcy Court for the District of Delaware (case no. 20-13037) on December 2, 2020 and Eagle River Coal, LLC filed for Chapter 11 relief (case no. 21-10118) in the same court on January 26, 2021. The cases are jointly administered under the White Stallion Energy, LLC docket.
  
- (5) Copies of court pleadings and documents are available on-line via Prime Clerk (Duff & Phelps), the debtor's public bankruptcy service provider, at the link:

<https://cases.primeclerk.com/WhiteStallion/Home-DocketInfo>

- b. Eagle River Coal, LLC and White Stallion Energy, LLC have idled all operations while they evaluate options and solicit bids on their assets.

**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 11**

**Responding Witness: Delbert Billiter / Charles Schram**

Q-11. a. For the period under review, state whether there have been any changes to LG&E'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 LG&E'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.

A-11.

- a. During the period under review, there were no changes to The Corporate Fuels and By-Products Procurement Procedures for coal or the Power Supply Commodity Policy – Natural Gas Fuel for Generation.
- b. The Corporate Fuels and By-Products Procurement Procedures were last updated April 1, 2017 and were provided to the Commission in Case No. 2017-00285 in response to Question No. 1-15.

The Power Supply Commodity Policy – Natural Gas Fuel for Generation was last updated January 1, 2020 and was provided to the Commission in Case No. 2020-00248 in response to Question No. 1-11.



**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 12**

**Responding Witness: Stuart Wilson**

Q-12. 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).

A-12.

a. Firm Purchases:

The firm purchases from Ohio Valley Electric Corporation (OVEC) for the review period are shown in the table below. The Company purchased its participation ratio (5.63%) of the OVEC released capacity for the months in question:

<b>Utility</b>	<b>Period</b>	<b>Companies' Amt.</b>	<b>LGE Portion (MW)</b>	<b>Purpose</b>
OVEC	Nov 2020	~ 153	~ 106	Baseload
OVEC	Dec 2020	~ 158	~ 109	Baseload
OVEC	Jan 2021	~ 158	~ 109	Baseload
OVEC	Feb 2021	~ 158	~ 109	Baseload
OVEC	Mar 2021	~ 126	~ 87	Baseload
OVEC	Apr 2021	~ 92	~ 63	Baseload

b. Firm Sales: None.

**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 13**

**Responding Witness: Andrea Fackler**

- Q-13. Provide a monthly billing summary of sales to all electric utilities for the period under review.
- A-13. See attached.



Month Ended: November-30-2020

Louisville Gas and Electric Company

Power Transaction Schedule

Company	Type of Transaction	KWH	Billing Components			Total Charges(\$)
			Demand(\$)	Fuel Charges(\$)	Other Charges(\$)	
<b>Sales</b>						
EVERGY KANSAS CENTRAL, INC.	EVGY	Economy		\$ 1,538.85	\$ 728.95	\$ 2,267.80
EXELON GENERATION COMPANY, LLC	EXEL	Economy		\$ 1,265.41	\$ 599.42	\$ 1,864.83
ENERGY IMBALANCE	IMBL	Economy		\$ 10,694.89	\$ 5,066.19	\$ 15,761.08
MACQUARIECOOK	MACQUARIE	Economy		\$ 46,565.97	\$ 22,058.40	\$ 68,624.37
MIDCONTINENT INDEPENDENT SYSTEM OPERATOR, INC.	MISO	Economy		\$ 27,162.11	\$ 12,866.74	\$ 40,028.85
PJM INTERCONNECTION ASSOCIATION	PJM	Economy		\$ 18,440.12	\$ 8,735.13	\$ 27,175.25
RAINBOW ENERGY MARKETING CORP	REMC	Economy		\$ 2,950.03	\$ 1,397.43	\$ 4,347.46
TENNESSEE VALLEY AUTHORITY	TVA	Economy		\$ 8,168.68	\$ 3,869.53	\$ 12,038.21
KENTUCKY UTILITIES COMPANY	KU	Economy		\$ 458,422.39	\$ 2,941.45	\$ 461,363.84
<b>Total Sales</b>				<b>\$ 575,208.45</b>	<b>\$ 58,263.24</b>	<b>\$ 633,471.69</b>



Louisville Gas and Electric Company

Power Transaction Schedule

Month Ended: December-31-2020

Company	Type of Transaction	KWH	Billing Components			Total Charges(\$)
			Demand(\$)	Fuel Charges(\$)	Other Charges(\$)	
<b>Sales</b>						
EDF TRADING	EDF	Economy	39,000	\$ 961.68	\$ 590.04	\$ 1,551.72
EVERGY KANSAS CENTRAL, INC.	EVGY	Economy	1,000,000	\$ 23,315.77	\$ 14,354.52	\$ 37,670.29
EXELON GENERATION COMPANY, LLC	EXEL	Economy	246,000	\$ 5,368.21	\$ 3,321.94	\$ 8,690.15
INDIANA MUNICIPAL POWER AGENCY	IMPA	Economy	101,000	\$ 1,652.59	\$ 1,013.95	\$ 2,666.54
ENERGY IMBALANCE	IMBL	Economy	799,000	\$ 15,689.56	\$ 8,325.21	\$ 24,014.77
MACQUARIECOOK	MACQUARIE	Economy	5,882,000	\$ 135,024.96	\$ 84,125.76	\$ 219,150.72
MIDCONTINENT INDEPENDENT SYSTEM OPERATOR, INC.	MISO	Economy	3,152,000	\$ 69,022.57	\$ 43,012.12	\$ 112,034.69
PJM INTERCONNECTION ASSOCIATION	PJM	Economy	6,882,000	\$ 136,564.31	\$ 84,186.80	\$ 220,751.11
RAINBOW ENERGY MARKETING CORP	REMC	Economy	1,435,000	\$ 37,268.30	\$ 22,938.06	\$ 60,206.36
TENNESSEE VALLEY AUTHORITY	TVA	Economy	837,000	\$ 20,596.55	\$ 12,835.07	\$ 33,431.62
KENTUCKY UTILITIES COMPANY	KU	Economy	77,568,000	\$ 1,629,164.19	\$ 2,221.97	\$ 1,631,386.16
<b>Total Sales</b>			<u>97,941,000</u>	<u>\$ -</u>	<u>\$ 2,074,628.68</u>	<u>\$ 2,351,554.13</u>

**Louisville Gas and Electric Company**

**Power Transaction Schedule**

<u>Company</u>	Type of Transaction	KWH	Billing Components			Total Charges(\$)
			Demand(\$)	Fuel Charges(\$)	Other Charges(\$)	
<b>Sales</b>						
EVERGY KANSAS CENTRAL, INC.	EVGY	Economy	2,775,000	\$ 66,532.86	\$ 29,267.76	\$ 95,800.62
EXELON GENERATION COMPANY, LLC	EXEL	Economy	59,000	\$ 1,559.02	\$ 685.81	\$ 2,244.83
INDIANA MUNICIPAL POWER AGENCY	IMPA	Economy	18,000	\$ 346.72	\$ 152.51	\$ 499.23
ENERGY IMBALANCE	IMBL	Economy	995,000	\$ 17,438.81	\$ 7,521.68	\$ 24,960.49
MACQUARIECOOK	MACQUARIE	Economy	3,582,000	\$ 84,931.75	\$ 37,361.46	\$ 122,293.21
MIDCONTINENT INDEPENDENT SYSTEM OPERATOR, INC.	MISO	Economy	3,382,000	\$ 77,368.57	\$ 34,034.38	\$ 111,402.95
PJM INTERCONNECTION ASSOCIATION	PJM	Economy	2,638,000	\$ 48,161.15	\$ 21,186.06	\$ 69,347.21
RAINBOW ENERGY MARKETING CORP	REMC	Economy	74,000	\$ 1,798.63	\$ 791.22	\$ 2,589.85
THE ENERGY AUTHORITY	TEA	Economy	23,000	\$ 428.47	\$ 188.49	\$ 616.96
TENNESSEE VALLEY AUTHORITY	TVA	Economy	593,000	\$ 14,268.83	\$ 6,276.85	\$ 20,545.68
KENTUCKY UTILITIES COMPANY	KU	Economy	208,002,000	\$ 4,398,771.24	\$ 100.36	\$ 4,398,871.60
<b>Total Sales</b>			<u>222,141,000</u>	<u>\$ -</u>	<u>\$ 137,566.58</u>	<u>\$ 4,849,172.63</u>

**Louisville Gas and Electric Company**

**Power Transaction Schedule**

<u>Company</u>	Type of Transaction	KWH	Billing Components			Total Charges(\$)
			Demand(\$)	Fuel Charges(\$)	Other Charges(\$)	
<b>Sales</b>						
DYNASTY POWER, INC.	DYNASTYPWR	Economy		\$ 14,830.41	\$ 23,667.27	\$ 38,497.68
EVERGY KANSAS CENTRAL, INC.	EVGY	Economy		\$ 184,738.46	\$ 294,816.79	\$ 479,555.25
EXELON GENERATION COMPANY, LLC	EXEL	Economy		\$ 59,382.94	\$ 94,766.89	\$ 154,149.83
INDIANA MUNICIPAL POWER AGENCY	IMPA	Economy		\$ 16.36	\$ 46.10	\$ 62.46
ENERGY IMBALANCE	IMBL	Economy		\$ 9,998.01	\$ 15,921.11	\$ 25,919.12
MACQUARIECOOK	MACQUARIE	Economy		\$ 292,291.11	\$ 466,455.77	\$ 758,746.88
MIDCONTINENT INDEPENDENT SYSTEM OPERATOR, INC.	MISO	Economy		\$ 938,586.38	\$ 1,497,852.87	\$ 2,436,439.25
PJM INTERCONNECTION ASSOCIATION	PJM	Economy		\$ 1,568,753.48	\$ 2,503,511.58	\$ 4,072,265.06
RAINBOW ENERGY MARKETING CORP	REMC	Economy		\$ 97,791.34	\$ 156,061.33	\$ 253,852.67
THE ENERGY AUTHORITY	TEA	Economy		\$ 261.36	\$ 417.11	\$ 678.47
TENNESSEE VALLEY AUTHORITY	TVA	Economy		\$ 207,527.58	\$ 331,185.06	\$ 538,712.64
KENTUCKY UTILITIES COMPANY	KU	Economy		\$ 2,522,482.67	\$ 1,455.06	\$ 2,523,937.73
<b>Total Sales</b>			<b>\$ -</b>	<b>\$ 5,896,660.10</b>	<b>\$ 5,386,156.94</b>	<b>\$ 11,282,817.04</b>

**Louisville Gas and Electric Company**

**Power Transaction Schedule**

<u>Company</u>	Type of Transaction	KWH	Billing Components			Total Charges(\$)
			Demand(\$)	Fuel Charges(\$)	Other Charges(\$)	
<b>Sales</b>						
INDIANA MUNICIPAL POWER AGENCY	IMPA	Economy		\$ 331.68	\$ 235.05	\$ 566.73
ENERGY IMBALANCE	IMBL	Economy		\$ 1,727.03	\$ 1,178.69	\$ 2,905.72
MACQUARIECOOK	MACQUARIE	Economy		\$ 5,872.92	\$ 25,017.95	\$ 30,890.87
MIDCONTINENT INDEPENDENT SYSTEM OPERATOR, INC.	MISO	Economy		\$ (271.34)	\$ (21,046.87)	\$ (21,318.21)
PJM INTERCONNECTION ASSOCIATION	PJM	Economy		\$ 682.15	\$ 482.84	\$ 1,164.99
RAINBOW ENERGY MARKETING CORP	REMC	Economy		\$ 669.13	\$ 474.17	\$ 1,143.30
THE ENERGY AUTHORITY	TEA	Economy		\$ 155.60	\$ 110.26	\$ 265.86
TENNESSEE VALLEY AUTHORITY	TVA	Economy		\$ 3,645.18	\$ 2,583.12	\$ 6,228.30
KENTUCKY UTILITIES COMPANY	KU	Economy		\$ 440,058.86	\$ 3,256.97	\$ 443,315.83
<b>Total Sales</b>				<u>\$ -</u>	<u>\$ 12,292.18</u>	<u>\$ 465,163.39</u>



Month Ended: April-30-2021

Louisville Gas and Electric Company

Power Transaction Schedule

Company	Type of Transaction	KWH	Billing Components			Total Charges(\$)
			Demand(\$)	Fuel Charges(\$)	Other Charges(\$)	
<b>Sales</b>						
EVERGY KANSAS CENTRAL, INC.	EVGY	Economy		\$ 8,296.24	\$ 4,953.76	\$ 13,250.00
ENERGY IMBALANCE	IMBL	Economy		\$ 17,558.04	\$ 10,444.02	\$ 28,002.06
MACQUARIECOOK	MACQUARIE	Economy		\$ 103,361.28	\$ 61,717.87	\$ 165,079.15
MIDCONTINENT INDEPENDENT SYSTEM OPERATOR, INC.	MISO	Economy		\$ 79,553.60	\$ 47,502.16	\$ 127,055.76
PJM INTERCONNECTION ASSOCIATION	PJM	Economy		\$ 251,291.65	\$ 150,048.45	\$ 401,340.10
RAINBOW ENERGY MARKETING CORP	REMC	Economy		\$ 2,379.29	\$ 1,420.71	\$ 3,800.00
THE ENERGY AUTHORITY	TEA	Economy		\$ 1,566.91	\$ 935.63	\$ 2,502.54
TENNESSEE VALLEY AUTHORITY	TVA	Economy		\$ 7,211.78	\$ 4,306.22	\$ 11,518.00
KENTUCKY UTILITIES COMPANY	KU	Economy		\$ 6,099,238.48	\$ -	\$ 6,099,238.48
<b>Total Sales</b>				\$ -	\$ 281,328.82	\$ 6,851,786.09



**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 14**

**Responding Witness: Andrea Fackler**

- Q-14. Describe the effect on the FAC calculation of line losses related to:
- a. Intersystem sales when using a third-party transmission system; and
  - b. Intersystem sales when not using a third-party transmission system.
- A-14. Line losses related to inter-system sales are calculated using a loss factor of 0.5% whether the inter-system sale requires a third-party transmission system or not. This practice is consistent with the Commission's June 7, 2013 Amended Order in Case No. 2012-00553<sup>4</sup>.

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<sup>4</sup> *Electronic Examination of the Application of the Fuel Adjustment Clause of Louisville Gas and Electric Company From November 1, 2010 Through October 31, 2012, Kentucky Public Service Commission, Case No. 2012-00553, filed February 13, 2013, Amended Order June 7, 2013*

**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
Dated August 18, 2021**

**Case No. 2021-00295**

**Question No. 15**

**Responding Witness: Michael Drake**

- Q-15. Provide a list, in chronological order, showing by unit any scheduled, actual, and forced outages for the period under review.
- A-15. See attached.

Louisville Gas & Electric Company  
November 2020 through April 2021

Unit and Outage Type (F=Forced; S=Scheduled)	Scheduled		Actual*		HOURS OF DURATION		REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE	
	FROM	TO	FROM	TO	Scheduled	Actual*		
<b>Mill Creek Unit 1 - Coal - 300 MW</b> In-service August 1972	F		12/1/2020 6:53	12/1/2020 22:24		15:31	Boiler Circulating Water Pump Lube Oil Pump failure	
	S	2/21/2021 0:00	3/28/2021 0:00	2/21/2021 14:22	3/1/2021 0:00	840:00	177:38	Turbine Valve Maintenance
	S	2/21/2021 0:00	3/28/2021 0:00	3/1/2021 0:00	3/29/2021 0:00	840:00	672:00	Turbine Valve Maintenance
	S	3/29/2021 0:00	3/29/2021 6:05	3/29/2021 0:00	3/29/2021 6:05	6:05	6:05	Turbine Valve Maintenance
	S	4/3/2021 9:55	4/4/2021 1:06	4/3/2021 9:55	4/4/2021 1:06	15:11	15:11	Turbine Steam Leak
	F			4/4/2021 4:51	4/5/2021 11:49		30:58	Generator Seal Oil System
<b>Mill Creek Unit 2 - Coal - 295 MW</b> In-service July 1974	F		11/5/2020 19:02	11/6/2020 7:08		12:06	Turbine EHC System Repair	
	S	11/27/2020 10:57	11/30/2020 0:00	11/27/2020 10:57	11/30/2020 0:00	61:03	61:03	Boiler Tube Leak - superheater
	S	1/1/2021 0:00	1/1/2021 22:33	1/1/2021 0:00	1/1/2021 22:33	22:33	22:33	Condenser tube leak
	S	2/20/2021 0:00	4/4/2021 0:00	2/20/2021 14:23	3/1/2021 0:00	1032:00	201:37	Cooling tower
	S	2/20/2021 0:00	4/4/2021 0:00	3/1/2021 0:00	4/1/2021 0:00	1032:00	744:00	Cooling tower
	S	2/20/2021 0:00	4/4/2021 0:00	4/1/2021 0:00	4/5/2021 1:55	1032:00	97:55	Cooling tower
	F			4/23/2021 19:12	4/25/2021 9:39		38:27	Turbine/Generator Vibration
	F			4/25/2021 10:18	4/25/2021 16:59		6:41	Turbine/Generator Vibration
<b>Mill Creek Unit 3 - Coal - 394 MW</b> In-service August 1978	S	11/7/2020 0:00	11/15/2020 0:00	11/6/2020 22:39	11/13/2020 8:42	192:00	154:03	Air heater wash
<b>Mill Creek Unit 4 - Coal - 486 MW</b> In-service September 1982	S	10/24/2020 0:00	12/6/2020 0:00	10/23/2020 21:45	11/1/2020 0:00	1032:00	194:15	Planned Outage - boiler maintenance
	S	10/24/2020 0:00	12/6/2020 0:00	11/1/2020 0:00	12/1/2020 0:00	1032:00	720:00	Planned Outage - boiler maintenance
	S	10/24/2020 0:00	12/6/2020 0:00	12/1/2020 0:00	12/6/2020 14:20	1032:00	134:20	Planned Outage - boiler maintenance
	F			12/6/2020 14:20	12/7/2020 6:43		16:23	Main Steam Valve Drain Piping
	F			12/7/2020 8:02	12/8/2020 7:42		23:40	Main Steam Valve Drain Piping
	F			12/8/2020 7:42	12/9/2020 4:30		20:48	
	F			12/9/2020 11:48	12/11/2020 6:34		42:46	Turbine Main Stop Valves - Fine Screens
	S	12/11/2020 23:14	12/13/2020 8:16	12/11/2020 23:14	12/13/2020 8:16	33:02	33:02	Turbine Main Stop Valves - Fine Screens
	S	12/18/2020 12:19	12/20/2020 22:51	12/18/2020 12:19	12/20/2020 22:51	58:32	58:32	Turbine Main Stop Valves - Fine Screens
	F			3/8/2021 22:16	3/10/2021 4:15		29:59	Condenser tube leak
	S	4/29/2021 20:30	5/1/2021 0:00	4/29/2021 20:30	5/1/2021 0:00	27:30	27:30	Turbine Main Stop Valves - Fine Screens
<b>Trimble County Unit 1 - Coal - 370 MW</b> In-service December 1990 75% ownership share of 511 MW	S	12/5/2020 0:00	12/13/2020 0:00	12/9/2020 23:58	12/12/2020 23:17	192:00	71:19	Air heater wash
	S	12/31/2020 14:07	1/1/2021 0:00	12/31/2020 14:07	1/1/2021 0:00	9:53	9:53	Boiler reheat tube leak
	S	1/1/2021 0:00	1/2/2021 21:37	1/1/2021 0:00	1/2/2021 21:37	45:37	45:37	Boiler reheat tube leak
	S	1/4/2021 21:20	1/6/2021 11:29	1/4/2021 21:20	1/6/2021 11:29	38:09	38:09	Condenser tube leak
	S	1/14/2021 13:48	1/15/2021 22:42	1/14/2021 13:48	1/15/2021 22:42	32:54	32:54	
	S	1/23/2021 14:25	1/25/2021 15:32	1/23/2021 14:25	1/25/2021 15:32	49:07	49:07	Boiler Superheater Tube Leak
	S	2/27/2021 0:00	3/21/2021 0:00	2/27/2021 2:48	3/21/2021 1:08	528:00	526:20	Boiler Waterwall Tube Replacement
	F			3/25/2021 16:00	3/26/2021 15:34		23:34	Generator protection relay

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

Unit and Outage Type (F=Forced; S=Scheduled)	Scheduled		Actual*		HOURS OF DURATION		REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE	
	FROM	TO	FROM	TO	Scheduled	Actual*	OR REASON FOR FORCED OUTAGE AS APPROPRIATE	
<b>Trimble County Unit 2 - Coal - 570 MW</b> In-service January 2011 75% ownership share of 732 MW jointly owned with KU	S	10/31/2020 16:01	11/4/2020 5:29	10/31/2020 16:01	11/4/2020 5:29	85:28	85:28	Turbine Main Stop Valves - Fine Screens
	F			11/6/2020 3:57	11/7/2020 8:28		28:31	High Pressure Turbine Exhaust Temperature Exceedance
	F			1/25/2021 18:30	1/31/2021 13:07		138:37	Hot Reheat Steam Leak
	S	3/27/2021 0:00	5/2/2021 0:00	3/27/2021 2:25	4/23/2021 3:50	864:00	649:25	Turbine stop valve repair
	F			4/24/2021 15:30	4/28/2021 13:15		93:45	Boiler Superheater Tube Leak
<b>Cane Run Unit 7 - Gas - 683 MW</b> In-service June 2015 Jointly owned with KU	S	10/30/2020 0:00	11/9/2020 0:00	10/31/2020 0:59	11/9/2020 8:56	240:00	223:57	Exhaust Duct Inspection
	S	11/9/2020 22:09	11/10/2020 13:46	11/9/2020 22:09	11/10/2020 13:46	15:37	15:37	Controls System - startup controls
	S	11/10/2020 22:22	11/11/2020 9:03	11/10/2020 22:22	11/11/2020 9:03	10:41	10:41	Controls System - startup controls
	S	11/11/2020 21:15	11/12/2020 10:57	11/11/2020 21:15	11/12/2020 10:57	13:42	13:42	Controls System - startup controls
	F			11/12/2020 23:20	11/13/2020 13:58		14:38	Main Steam Isolation Valve Leak
	F			11/13/2020 18:19	11/15/2020 17:36		47:17	Main Steam Isolation Valve Leak
	S	1/10/2021 11:18	1/10/2021 20:45	1/10/2021 11:18	1/10/2021 20:45	9:27	9:27	Medium voltage switchgear testing
	S	2/3/2021 23:19	2/5/2021 22:40	2/3/2021 23:19	2/5/2021 22:40	47:21	47:21	reheat outlet stop valve repair
<b>E. W. Brown Unit 5 - Gas CT - 130 MW</b> In-service June 2001 Jointly owned with KU	S	4/6/2021 6:44	4/6/2021 13:08	4/6/2021 6:44	4/6/2021 13:08	6:24	6:24	Fuel Gas System
<b>E. W. Brown Unit 6 - Gas CT - 171 MW</b> In-service August 1999 Jointly owned with KU	S	10/17/2020 0:00	11/1/2020 0:00	10/16/2020 6:00	11/2/2020 0:00	360:00	402:00	Fuel Gas System
	S	11/2/2020 0:00	11/6/2020 17:19	11/2/2020 0:00	11/6/2020 17:19	113:19	113:19	Generator Exciter Controls
	S	11/6/2020 18:53	11/7/2020 12:12	11/6/2020 18:53	11/7/2020 12:12	17:19	17:19	Generator Exciter Controls
	F			1/18/2021 6:41	1/21/2021 16:34		81:53	Exciter controls
<b>E. W. Brown Unit 7 - Gas CT - 171 MW</b> In-service August 1999 Jointly owned with KU	S	10/17/2020 0:00	11/1/2020 0:00	10/16/2020 6:00	11/2/2020 0:00	360:00	402:00	Fuel Gas System
	S	11/2/2020 0:00	11/5/2020 18:37	11/2/2020 0:00	11/5/2020 18:37	90:37	90:37	Generator Exciter Controls
	S	11/5/2020 22:22	11/6/2020 10:11	11/5/2020 22:22	11/6/2020 10:11	11:49	11:49	Generator Exciter Controls
	S	11/6/2020 11:59	11/6/2020 19:13	11/6/2020 11:59	11/6/2020 19:13	7:14	7:14	Generator Exciter Controls
	F			12/3/2020 6:26	12/3/2020 14:54		8:28	
	S	1/21/2021 7:00	1/21/2021 16:34	1/21/2021 7:00	1/21/2021 16:34	9:34	9:34	Exciter controls
<b>Cane Run Unit 11 - Gas CT - 14 MW</b> In-service June 1968		No outages > or = 6 hours						
<b>Paddys Run Unit 11 - Gas CT - 13 MW</b> In-service June 1968	F			11/10/2020 11:33	1/1/2021 0:00		1236:27	Gas turbine compressor failure
	F			1/1/2021 0:00	1/12/2021 13:41		277:41	Gas turbine compressor failure
				1/12/2021 13:41	4/1/2021 0:00		1882:19	
<b>Paddys Run Unit 12 - Gas CT - 28 MW</b> In-service July 1968	F			10/30/2020 9:24	11/3/2020 10:43		97:19	Starting Diesel System
<b>Paddys Run Unit 13 - Gas CT - 175 MW</b> In-service June 2001 Jointly owned with KU	S	12/5/2020 0:00	12/20/2020 0:00	12/4/2020 6:15	12/20/2020 18:07	360:00	395:52	Compressor Inspection
	F			12/20/2020 18:07	12/21/2020 22:57		28:50	Startup System - turning gear
	F			1/29/2021 5:40	1/29/2021 15:14		9:34	
<b>Trimble County Unit 5 - Gas CT - 179 MW</b> In-service May 2002 Jointly owned with KU	S	11/7/2020 0:00	12/31/2020 0:00	11/7/2020 0:00	1/1/2021 0:00	1296:00	1320:00	Major Overhaul
	S	1/1/2021 0:00	4/25/2021 0:00	1/1/2021 0:00	4/15/2021 7:08	2736:00	2503:08	
	S	4/15/2021 20:14	4/17/2021 7:46	4/15/2021 20:14	4/17/2021 7:46	35:32	35:32	Major Overhaul - startup and commissioning
	S	4/17/2021 12:15	4/22/2021 10:00	4/17/2021 12:15	4/22/2021 10:00	117:45	117:45	Major overhaul - testing and commissioning
	S	4/22/2021 10:00	5/10/2021 7:54	4/22/2021 10:00	5/10/2021 7:54	429:54	429:54	Major overhaul - testing and commissioning

Unit and Outage Type (F=Forced; S=Scheduled)	Scheduled		Actual*		HOURS OF DURATION		REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE	
	FROM	TO	FROM	TO	Scheduled	Actual*	OR REASON FOR FORCED OUTAGE AS APPROPRIATE	
Trimble County Unit 6 - Gas CT - 179 MW In-service May 2002 Jointly owned with KU	S	11/7/2020 3:00	11/7/2020 13:27	11/7/2020 3:00	11/7/2020 13:27	10:27	10:27	Starting System
	S	11/14/2020 0:00	11/22/2020 0:00	11/13/2020 23:25	11/22/2020 12:00	192:00	204:35	Transmission line maintenance
	S	12/4/2020 4:00	12/4/2020 17:28	12/4/2020 4:00	12/4/2020 17:28	13:28	13:28	Controls System
	S	2/5/2021 2:00	2/8/2021 3:22	2/5/2021 2:00	2/8/2021 3:22	73:22	73:22	Inlet guide vane actuator
	S	2/24/2021 4:48	2/24/2021 17:00	2/24/2021 4:48	2/24/2021 17:00	12:12	12:12	Inlet guide vane actuator
	S	3/1/2021 6:30	3/1/2021 17:01	3/1/2021 6:30	3/1/2021 17:01	10:31	10:31	Inlet guide vane actuator
	S	3/1/2021 17:01	3/2/2021 17:28	3/1/2021 17:01	3/2/2021 17:28	24:27	24:27	Inlet guide vane actuator
	S	3/11/2021 4:00	3/11/2021 13:18	3/11/2021 4:00	3/11/2021 13:18	9:18	9:18	Inlet guide vane actuator
	S	3/27/2021 0:00	4/18/2021 0:00	3/26/2021 21:30	4/5/2021 7:00	528:00	225:30	Lube Oil System Maintenance
	S	4/5/2021 7:00	4/6/2021 7:18	4/5/2021 7:00	4/6/2021 7:18	24:18	24:18	Lube Oil System Maintenance
Trimble County Unit 7 - Gas CT - 179 MW In-service June 2004 Jointly owned with KU	S	11/14/2020 0:00	11/22/2020 0:00	11/13/2020 23:25	11/22/2020 13:19	192:00	205:54	Transmission line maintenance
	S	12/5/2020 6:00	12/5/2020 18:08	12/5/2020 6:00	12/5/2020 18:08	12:08	12:08	Controls System
	S	4/1/2021 5:30	4/1/2021 15:40	4/1/2021 5:30	4/1/2021 15:40	10:10	10:10	Compliance Testing
Trimble County Unit 8 - Gas CT - 179 MW In-service June 2004 Jointly owned with KU	S	12/5/2020 6:00	12/5/2020 18:08	12/5/2020 6:00	12/5/2020 18:08	12:08	12:08	Controls System
	F			1/26/2021 6:05	1/26/2021 15:04		8:59	Startup System
Trimble County Unit 9 - Gas CT - 179 MW In-service July 2004 Jointly owned with KU	S	12/6/2020 7:00	12/6/2020 17:14	12/6/2020 7:00	12/6/2020 17:14	10:14	10:14	Controls System
Trimble County Unit 10 - Gas CT - 179 MW In-service July 2004 Jointly owned with KU	S	12/6/2020 7:00	12/6/2020 17:14	12/6/2020 7:00	12/6/2020 17:14	10:14	10:14	Controls System
	F			3/2/2021 7:49	3/2/2021 17:30		9:41	Starting system

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

**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information**  
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**Case No. 2021-00295**

**Question No. 16**

**Responding Witness: Stuart Wilson**

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

A-16.

	Capacity Factor (%) (Net MWh)/(period hours x MW rating)					
	Nov 2020	Dec 2020	Jan 2021	Feb 2021	Mar 2021	Apr 2021
Brown 5	1.3	0.2	0.0	1.8	3.1	1.0
Brown 6	0.1	0.1	0.2	0.0	0.0	0.4
Brown 7	1.6	0.0	0.2	0.0	2.0	2.0
Brown Solar	15.5	9.1	9.4	8.3	21.4	23.4
Cane Run 7	49.2	96.2	97.5	68.2	95.7	94.7
Mill Creek 1	63.8	61.1	78.7	61.7	6.5	71.1
Mill Creek 2	69.1	72.4	73.9	63.1	0.0	59.8
Mill Creek 3	22.6	63.2	74.6	78.9	67.4	71.7
Mill Creek 4	0.0	35.1	72.4	80.4	69.8	75.6
Ohio Falls 1	17.0	11.6	22.5	15.6	2.2	9.2
Ohio Falls 2	19.9	35.5	30.4	29.3	11.5	16.2
Ohio Falls 3	67.7	39.4	33.6	34.7	14.4	19.6
Ohio Falls 4	58.8	39.2	37.9	30.5	15.5	16.2
Ohio Falls 5	59.7	40.7	38.1	34.4	17.0	0.0
Ohio Falls 6	65.1	43.6	35.9	36.2	20.8	13.2
Ohio Falls 7	1.6	11.8	5.6	36.5	20.4	0.2
Ohio Falls 8	62.3	40.1	0.0	0.0	0.0	0.0
Paddy's Run 11	0.0	0.0	0.0	0.0	0.0	0.0
Paddy's Run 12	0.0	0.0	0.0	0.0	0.0	0.0
Paddy's Run 13	0.6	0.7	0.0	1.2	0.0	0.2
Trimble County 1	87.2	75.5	64.6	86.7	27.0	88.6
Trimble County 2	72.0	92.4	74.7	96.0	77.8	8.8
Trimble County 5	0.0	0.0	0.0	0.0	0.0	2.3
Trimble County 6	1.6	1.4	1.7	6.3	2.9	8.0
Trimble County 7	7.2	0.6	0.0	6.0	1.8	7.1
Trimble County 8	6.4	6.4	1.0	0.7	12.5	11.2
Trimble County 9	1.1	1.1	0.7	1.9	2.7	3.2

Trimble County 10	0.0	2.8	3.7	0.3	0.2	1.3
Zorn	0.0	0.0	0.0	0.0	0.0	0.0

Notes:

- 1 – Trimble County values reflect 100% of the unit. Trimble County 1 is owned by LG&E (75%), IMPA (12.88%), and IMEA (12.12%). Trimble County 2 is owned by KU (60.75%), LG&E (14.25%), IMPA (12.88%), and IMEA (12.12%).
- 2 – The North American Electric Reliability Council Generation Availability Data System defines capacity factor as the value equal to the net MWh produced divided by the product of the hours in the period and the unit rating.
- 3 – Jointly owned units are shown for both LG&E and KU and include Brown 5-7, Brown Solar, Cane Run 7, Paddy's Run 13, Trimble County 2, and Trimble County 5-10.
- 4 – Paddy's Run 11 retired 3/31/2021.

**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
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**Case No. 2021-00295**

**Question No. 17**

**Responding Witness: Michael Drake**

Q-17.

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

A-17. There have been no maintenance or operation practice changes that affect fuel usage during the period under review. The Company strives to maintain unit efficiency through routine cyclic planned outage maintenance. This maintenance work continues to focus on reestablishing expected turbine efficiency through continuous monitoring of all plant systems during operation. The Company contracts Black and Veatch to provide this monitoring on larger units to identify trends which indicate a potential efficiency loss of any system component. Black and Veatch sends notification to the generating stations which track the potential issues through resolution. In evaluating potential major component projects or replacements that may impact efficiency, the Company must balance any potential efficiency benefit associated with the project against both costs and potential implications under the Clean Air Act. The Company has not realized any efficiency improvements through major component projects during this period.



**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
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**Question No. 18**

**Responding Witness: Delbert Billiter / Charles Schram**

- Q-18. State whether LG&E is aware of any violations of its policies and procedures regarding fuel procurement that occurred prior to or during the period under review.
- A-18. The Company is not aware of any violations of its policies and procedures regarding fuel procurement that occurred prior to or during the period under review.

**LOUISVILLE GAS AND ELECTRIC COMPANY**

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**Question No. 19**

**Responding Witness: Andrea Fackler**

- Q-19. State whether LG&E is aware of any violations of 807 KAR 5:056 that occurred prior to or during the period under review.
- A-19. The Company is not aware of any violations of 807 KAR 5:056 that occurred prior to or during the period under review.

**LOUISVILLE GAS AND ELECTRIC COMPANY**

**Response to Commission Staff's Initial Request for Information  
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**Case No. 2021-00295**

**Question No. 20**

**Responding Witness: Andrea Fackler**

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