

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

| | | |
|--|---|-------------------|
| AN EXAMINATION OF THE APPLICATION OF |) | |
| THE FUEL ADJUSTMENT CLAUSE OF |) | CASE NO. |
| LOUISVILLE GAS AND ELECTRIC COMPANY |) | 2017-00004 |
| FROM NOVEMBER 1, 2014 THROUGH OCTOBER 31, 2016) | | |

RESPONSE OF
LOUISVILLE GAS AND ELECTRIC COMPANY
TO
COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION IN
APPENDIX B OF COMMISSION'S ORDER
DATED FEBRUARY 6, 2017

FILED: February 20, 2017


VERIFICATION

COMMONWEALTH OF KENTUCKY)
) SS:
COUNTY OF JEFFERSON)

The undersigned, **Derek Rahn**, being duly sworn, deposes and says that he is Manager - Revenue Requirement 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.


Derek Rahn

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 16th day of February 2017.

 (SEAL)
Notary Public

My Commission Expires:
JUDY SCHOULER
Notary Public, State at Large, KY
My commission expires July 11, 2018
Notary ID # 512743

VERIFICATION

COMMONWEALTH OF KENTUCKY)
) SS:
COUNTY OF JEFFERSON)

The undersigned, **Eileen L. Saunders**, being duly sworn, deposes and says that she is Director, Generation Services 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.


Eileen L. Saunders

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 17th day of February 2017.


Judy Schooler (SEAL)

Notary Public

My Commission Expires:
JUDY SCHOOLER
Notary Public, State at Large, KY
My commission expires July 11, 2018
Notary ID # 512743

VERIFICATION

COMMONWEALTH OF KENTUCKY)
) SS:
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 17th day of February 2017.

 (SEAL)

Notary Public

My Commission Expires:
JUDY SCHULER
Notary Public, State at Large, KY
My commission expires July 11, 2018
Notary ID # 512743

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 1

Witness: Derek Rahn

- Q-1. If a change in the base fuel cost is proposed, state the month to be used as the base period (b). If the base period results in a fuel cost other than one representative of current costs as prescribed by 807 KAR 5:056, Section 1(2), explain why this base period was selected. If no change is proposed, include an explanation of the reason(s) LG&E believes the current base period fuel cost should remain unchanged.
- A-1. After reviewing actual FAC costs for the base period November 2014 through October 2016, Louisville Gas and Electric ("LG&E") recommends that the per unit fuel cost for April 2016 be used as the base period. The attached table shows that the per unit fuel cost for April 2016 was \$0.02428/kWh. LG&E estimates that the average per unit fuel cost for the calendar year 2017 will be \$0.02448/kWh and the average per unit fuel cost for the calendar year 2018 will be \$0.02415/kWh. The per unit fuel cost for April 2016 of \$0.02428/kWh approximates the weighted average of the projected fuel estimates for the two-year period of \$0.02432/kWh. Since no actual per unit fuel cost during the two-year period under review equals the projected per unit fuel cost, LG&E recommends the use of the actual per unit fuel cost for April 2016 because this is the actual cost from the two-year period ending October 2016 closest to the average projected cost for the next two-year period. This methodology is consistent with what has been used and accepted in previous two year cases, and therefore LG&E believes April 2016 is the appropriate month to use as the base period for the next two-year period.

LG&E determined the projected $F(m) / S(m)$ results using:

- projected coal, oil, and natural gas expenses,
- projected purchased power expenses, off-system sales revenues and
- all associated generated, purchased and sold kilowatt-hours for the period.

Louisville Gas and Electric Company

Retail Fuel Adjustment Clause
Fuel Cost per kWh
For the Expense Months Ending October 31, 2016

| (1) Expense Month | (2) Expense Month \$/kWh | (3) FAC Base \$/kWh | (4) Billing Month | (5) Billing Month FAC Factor Col. 2 - 3 |
|-------------------------|-----------------------------------|---------------------------|-------------------------|---|
| Nov-14 | \$ 0.02741 | \$ 0.02725 | Jan-15 | \$ 0.00016 |
| Dec-14 | \$ 0.02850 | \$ 0.02725 | Feb-15 | \$ 0.00125 |
| Jan-15 | \$ 0.02835 | \$ 0.02725 | Mar-15 | \$ 0.00110 |
| Feb-15 | \$ 0.02969 | \$ 0.02725 | Apr-15 | \$ 0.00244 |
| Mar-15 | \$ 0.02966 | \$ 0.02725 | May-15 | \$ 0.00241 |
| Apr-15 | \$ 0.02946 | \$ 0.02725 | Jun-15 | \$ 0.00221 |
| May-15 | \$ 0.02783 | \$ 0.02725 | Jul-15 | \$ 0.00058 |
| Jun-15 | \$ 0.02661 | \$ 0.02725 | Aug-15 | \$ (0.00064) |
| Jul-15 | \$ 0.02709 | \$ 0.02725 | Sep-15 | \$ (0.00016) |
| Aug-15 | \$ 0.02716 | \$ 0.02725 | Oct-15 | \$ (0.00009) |
| Sep-15 | \$ 0.02710 | \$ 0.02725 | Nov-15 | \$ (0.00015) |
| Oct-15 | \$ 0.02528 | \$ 0.02725 | Dec-15 | \$ (0.00197) |
| Nov-15 | \$ 0.02463 | \$ 0.02725 | Jan-16 | \$ (0.00262) |
| Dec-15 | \$ 0.02575 | \$ 0.02725 | Feb-16 | \$ (0.00150) |
| Jan-16 | \$ 0.02719 | \$ 0.02725 | Mar-16 | \$ (0.00006) |
| Feb-16 | \$ 0.02665 | \$ 0.02725 | Apr-16 | \$ (0.00060) |
| Mar-16 | \$ 0.02472 | \$ 0.02725 | May-16 | \$ (0.00253) |
| Apr-16 | \$ 0.02428 | \$ 0.02725 | Jun-16 | \$ (0.00297) |
| May-16 | \$ 0.02457 | \$ 0.02725 | Jul-16 | \$ (0.00268) |
| Jun-16 | \$ 0.02551 | \$ 0.02725 | Aug-16 | \$ (0.00174) |
| Jul-16 | \$ 0.02599 | \$ 0.02725 | Sep-16 | \$ (0.00126) |
| Aug-16 | \$ 0.02560 | \$ 0.02725 | Oct-16 | \$ (0.00165) |
| Sep-16 | \$ 0.02612 | \$ 0.02725 | Nov-16 | \$ (0.00113) |
| Oct-16 | \$ 0.02464 | \$ 0.02725 | Dec-16 | \$ (0.00261) |

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 2

Witness: Derek Rahn

- Q-2. Provide a calculation of the fossil fuel costs F(b) that LG&E proposes to use to calculate the base period fuel cost. This calculation shall show each component of F(b) as defined by 807 KAR 5:056. Explain why the fuel cost in the selected base period is representative of the level of fuel cost currently being experienced by LG&E.
- A-2. Attached is a copy of the Fuel Cost Schedule (Form A, Page 2) for the base period of April 2016, which shows the component of the proposed F(b) as defined by 807 KAR 5:056.

As explained in the response to Question No. 1, KU reviewed the per-unit fuel cost for each month during the November 2014 through October 2016 period and compared those values to the projected average per unit fuel cost for the next two-year period. As a result, F(b) and S(b) were considered together in determining the appropriate month to use as a new base fuel component.

**LOUISVILLE GAS AND ELECTRIC COMPANY
FUEL COST SCHEDULE**

Expense Month : April 2016

| | | |
|---|-----------------------------|-----|
| (A) Company Generation | | |
| Coal Burned | (+) \$ 18,875,599 | (1) |
| Oil Burned | (+) 41,827 | (1) |
| Gas Burned | (+) 3,242,564 | |
| Fuel (assigned cost during Forced Outage) | (+) 505,971 | * |
| Fuel (substitute cost for Forced Outage) | (-) 474,599 | * |
| SUB-TOTAL | <u>\$ 22,159,990</u> | |
| (B) Purchases | | |
| Net energy cost - economy purchases | (+) \$ 935,182 | |
| Identifiable fuel cost - other purchases | (+) - | |
| Identifiable fuel cost (substitute for Forced Outage) | (-) 498 | * |
| Less Purchases Above Highest Cost Units | (-) 1,340 | |
| Internal Economy | (+) 745,404 | |
| Internal Replacement | (+) 94,043 | |
| SUB-TOTAL | <u>\$ 1,773,289</u> | |
| (C) Inter-System Sales | | |
| Including Interchange-out | (+) \$ 321,803 | |
| Internal Economy | (+) 3,157,618 | |
| Internal Replacement | (+) 56,383 | |
| Dollars Assigned to Inter-System Sales Losses | (+) 1,609 | |
| SUB-TOTAL | <u>\$ 3,537,413</u> | |
| (D) Over or (Under) Recovery | | |
| From Page 4, Line 13 | <u>\$ 41,262</u> | |
| TOTAL FUEL RECOVERY (A+B-C-D) = | <u><u>\$ 20,354,604</u></u> | |

Notes: (1) Reflects exclusion of IMEA/IMPA portion of Trimble County fuel cost with recognition of 0.5% transmission losses per Commission's Order in Case No. 2012-00553.

Coal burned = \$395
Oil burned = (\$10,823)

* Excluded from calculations per 807 KAR 5:056 due to fuel cost for substitute generation and purchases being less than assigned cost during Forced Outage.

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 3

Witness: Derek Rahn

- Q-3. Provide a schedule showing each component of sales as defined by 807 KAR 5:056 in the selected base period (b). Explain why LG&E believes that the sales in the selected base period (b) are representative of the level of kWh sales that LG&E will derive from the level of fuel cost incurred during the selected base period (b).
- A-3. Attached is a copy of the Sales Schedule (Form A, Page 3) for the base period of April 2016, which shows the component of the proposed S(b) as defined by 807 KAR 5:056.

As explained in the response to Question No. 1, KU reviewed the per-unit fuel cost for each month during the November 2014 through October 2016 period and compared those values to the projected average per unit fuel cost for the next two-year period. As a result, F(b) and S(b) were considered together in determining the appropriate month to use as a new base fuel component.

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 4

Witness: Derek Rahn

Q-4. Provide a schedule showing the calculation of LG&E's proposed increase or decrease in its base fuel cost per kWh to be incorporated into its base rate.

A-4.

| | |
|------------------------|----------------------|
| Current Base | \$0.02725/kWh |
| Proposed Base | <u>\$0.02428/kWh</u> |
| Decrease in Base Rates | \$0.00297/kWh |

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 5

Witness: Delbert Billiter / Charles R. Schram

Q-5. Provide LG&E's most recent projected fuel requirements for the years 2017 and 2018 in tons for coal, MMBtu for natural gas, and dollars.

A-5. Coal purchases in 2017 Business Plan

| | <u>Tons</u> | <u>Dollars</u> |
|-------------------------------|-------------|----------------|
| 2017 Projected Coal Purchases | 5,268,422 | \$236,451,572 |
| 2018 Projected Coal Purchases | 5,960,519 | \$266,535,683 |

Natural Gas purchases in 2017 Business Plan

| | <u>MMBtu</u> | <u>Dollars</u> |
|------------------------------|--------------|----------------|
| 2017 Projected Gas Purchases | 13,633,862 | \$43,438,547 |
| 2018 Projected Gas Purchases | 14,787,301 | \$47,428,588 |

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 6

Witness: Derek Rahn

Q-6. Provide LG&E's most recent sales projections for the years 2017 and 2018 in kWh and dollars.

A-6. LG&E's most recent sales projections for the years 2017 and 2018 are:

| | Sales (kWh) | Dollars |
|-------------------------|----------------|-----------------|
| 2017 Ultimate Consumers | 11,928,750,529 | \$1,134,787,659 |
| 2018 Ultimate Consumers | 11,922,237,910 | \$1,194,769,845 |

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 7

Witness: Derek Rahn

- Q-7. Provide separately the amounts of power purchases used in the calculation of sales provided in response to Item 3.
- A-7. Below is the data from the Purchased Power Transaction Schedule for April 2016, which is used in the calculation of Sales as defined by 807 KAR 5:056 and shown in the response to Question No. 3.

| COMPANY | kWh |
|--|-------------------|
| Illinois Municipal Power Agency | 93,000 |
| Indiana Municipal Power Agency | 55,000 |
| Energy Imbalance | 233,000 |
| PJM Interconnection Association Agency | 175,000 |
| East Kentucky Power Cooperative | 51,000 |
| EKPC (Formerly Bluegrass tolling) | 1,127,000 |
| Kentucky Utilities Company | 33,661,000 |
| Ohio Valley Electric Corporation | 32,733,000 |
| | |
| TOTAL PURCHASES | 68,128,000 |

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 8

Witness: Derek Rahn

- Q-8. Provide separately the amounts of intersystem power sales used in the calculation of sales provided in response to Item 3.
- A-8. Below is the data from the Sales Power Transaction Schedule for April 2016, which is used in the calculation of Sales as defined by 807 KAR 5:056 and shown in the response to Question No. 3.

| COMPANY | kWh |
|--|--------------------|
| Cargill-Alliant, LLC | 1,400,000 |
| ETC ENDURE | 70,000 |
| Illinois Municipal Electric Agency | 147,000 |
| Indiana Municipal Power Agency | 209,000 |
| Energy Imbalance | 174,000 |
| Midwest Independent Transmission System Operator, Inc. | 1,666,000 |
| PJM Interconnection Association | 7,756,000 |
| The Energy Authority | 35,000 |
| Tenaska Power Services Co. | 106,000 |
| Westar Energy, Inc. | 1,286,000 |
| Kentucky Utilities Company | 137,383,000 |
| | |
| TOTAL SALES | 150,232,000 |

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 9

Witness: Stuart A. Wilson

- Q-9. Provide the planned maintenance schedule for each of LG&E's generating units for the years 2017 and 2018.
- A-9. The information requested is being provided pursuant to a Petition for Confidential Treatment. A redacted version of the requested information is attached to this response.

2017
 LG&E Weekly Maintenance Detail

| MAINT WEEK | MC1 | MC2 | MC3 | MC4 | TC1 | TC2 | CR7 | Br5 | Br6 | Br7 | PR13 | TC5 | TC6 | TC7 | TC8 | TC9 | TC10 | BG3 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|
| 1/2 | 300 | 296 | 387 | 482 | 370 | 560 | 691 | 120 | 157 | 157 | 161 | 169 | 169 | 169 | 169 | 169 | 169 | 165 |
| 1/9 | | | | | | | | | | | | | | | | | | |
| 1/16 | | | | | | | | | | | | | | | | | | |
| 1/23 | | | | | | | | | | | | | | | | | | |
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| 12/25 | | | | | | | | | | | | | | | | | | |

Notes: * Jointly owned units between LG&E/KU

CONFIDENTIAL INFORMATION REDACTED

2018

LG&E Weekly Maintenance Detail

| MAINT WEEK | MC1 | MC2 | MC3 | MC4 | TC1 | TC2 | CR7 | Br5 | Br6 | Br7 | PR13 | TC5 | TC6 | TC7 | TC8 | TC9 | TC10 | BG3 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|
| | 300 | 296 | 387 | 482 | 370 | 560 | 691 | 120 | 157 | 157 | 161 | 169 | 169 | 169 | 169 | 169 | 169 | 165 |
| 1/1 | | | | | | | | | | | | | | | | | | |
| 1/8 | | | | | | | | | | | | | | | | | | |
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| 12/17 | | | | | | | | | | | | | | | | | | |
| 12/24 | | | | | | | | | | | | | | | | | | |

Notes: * Jointly owned units between LG&E/KU

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 10

Witness: Stuart A. Wilson

Q-10. For the years ending October 31, 2015 and October 31, 2016, provide:

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

A-10. a. Maximum annual net system demand:

| <u>Year Ending</u> | <u>Peak Demand (MW)</u> |
|--------------------|-------------------------|
| October 31, 2015 | 2,594 |
| October 31, 2016 | 2,543 |

b. Average annual system demand:

| <u>Year Ending</u> | <u>Peak Demand (MW)</u> |
|--------------------|-------------------------|
| October 31, 2015 | 1,446 |
| October 31, 2016 | 1,435 |

*Average annual demand is calculated as the year ending energy divided by the hours per year.

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 11

Witness: Stuart A. Wilson

Q-11. List all firm power commitments for LG&E from May 1, 2016 through October 31, 2016, and for the years 2017 and 2018 for (a) purchases and (b) sales. This list shall identify the other party (buyer or seller), the amount of commitment in MW, and the purpose of the commitment (e.g., peaking, emergency).

A-11. a. Firm Purchases

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

| Utility | Companies' Amt (MW) | LG&E Portion (MW) | Purpose |
|-----------------|---------------------|-------------------|----------|
| OVEC (May 2016) | ~ 98 | ~ 68 | Baseload |
| OVEC (Jun 2016) | ~ 154 | ~ 107 | Baseload |
| OVEC (Jul 2016) | ~ 152 | ~ 105 | Baseload |
| OVEC (Aug 2016) | ~ 152 | ~ 105 | Baseload |
| OVEC (Sep 2016) | ~ 153 | ~ 106 | Baseload |
| OVEC (Oct 2016) | ~ 123 | ~ 85 | Baseload |
| OVEC (Jan 2017) | ~ 158 | ~ 109 | Baseload |
| OVEC (Feb 2017) | ~ 158 | ~ 109 | Baseload |
| OVEC (Mar 2017) | ~ 107 | ~ 74 | Baseload |
| OVEC (Apr 2017) | ~ 88 | ~ 61 | Baseload |
| OVEC (May 2017) | ~ 124 | ~ 86 | Baseload |
| OVEC (Jun 2017) | ~ 154 | ~ 107 | Baseload |
| OVEC (Jul 2017) | ~ 152 | ~ 105 | Baseload |
| OVEC (Aug 2017) | ~ 152 | ~ 105 | Baseload |
| OVEC (Sep 2017) | ~ 150 | ~ 104 | Baseload |
| OVEC (Oct 2017) | ~ 121 | ~ 84 | Baseload |
| OVEC (Nov 2017) | ~ 142 | ~ 99 | Baseload |
| OVEC (Dec 2017) | ~ 158 | ~ 109 | Baseload |
| OVEC (Jan 2018) | ~ 158 | ~ 109 | Baseload |
| OVEC (Feb 2018) | ~ 154 | ~ 107 | Baseload |
| OVEC (Mar 2018) | ~ 136 | ~ 94 | Baseload |
| OVEC (Apr 2018) | ~ 95 | ~ 66 | Baseload |
| OVEC (May 2018) | ~ 127 | ~ 88 | Baseload |
| OVEC (Jun 2018) | ~ 154 | ~ 107 | Baseload |
| OVEC (Jul 2018) | ~ 152 | ~ 105 | Baseload |
| OVEC (Aug 2018) | ~ 152 | ~ 105 | Baseload |
| OVEC (Sep 2018) | ~ 143 | ~ 99 | Baseload |
| OVEC (Oct 2018) | ~ 84 | ~ 58 | Baseload |
| OVEC (Nov 2018) | ~ 142 | ~ 99 | Baseload |
| OVEC (Dec 2018) | ~ 158 | ~ 109 | Baseload |

In addition, LG&E has a capacity purchase and tolling agreement with Bluegrass Generation/EKPC through April 2019 for 165 MW of peaking capacity from a simple cycle combustion turbine.

b. Firm Sales - None.

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 12

Witness: Derek Rahn

Q-12. Provide a monthly billing summary for all sales to all electric utilities for the period May 1, 2016 through October 31, 2016.

A-12. See attached.



Month Ended: May-31-2016

Louisville Gas and Electric Company

Power Transaction Schedule

| Company | Type of Transaction | KWH | Billing Components | | | Total Charges(\$) |
|--|---------------------|---------|--------------------|----------------------|---------------------|----------------------|
| | | | Demand(\$) | Fuel Charges(\$) | Other Charges(\$) | |
| Sales | | | | | | |
| CARGILL- ALLIANT, LLC | CARG | Economy | | \$ 2,788.11 | \$ 1,368.20 | \$ 4,156.31 |
| ILLINOIS MUNICIPAL ELECTRIC AGENCY | IMEA | Economy | | \$ 871.09 | \$ 427.47 | \$ 1,298.56 |
| INDIANA MUNICIPAL POWER AGENCY | IMPA | Economy | | \$ 2,493.73 | \$ 1,924.82 | \$ 4,418.55 |
| ENERGY IMBALANCE | IMBL | Economy | | \$ 2,254.29 | \$ 1,106.24 | \$ 3,360.53 |
| MIDWEST INDEPENDENT TRANSMISSION SYSTEM OPERATOR, INC. | MISO | Economy | | \$ 1,849.20 | \$ 949.80 | \$ 2,799.00 |
| PJM INTERCONNECTION ASSOCIATION | PJM | Economy | | \$ 6,955.96 | \$ 3,413.48 | \$ 10,369.44 |
| TENNESSEE VALLEY AUTHORITY | TVA | Economy | | \$ 9,620.00 | \$ 4,720.82 | \$ 14,340.82 |
| WESTAR ENERGY, INC. | WSTR | Economy | | \$ 221.88 | \$ 108.88 | \$ 330.76 |
| KENTUCKY UTILITIES COMPANY | KU | Economy | | \$ 569,836.73 | \$ 2,100.20 | \$ 571,936.93 |
| Total Sales | | | | \$ 596,890.99 | \$ 16,119.91 | \$ 613,010.90 |

Energy Imbalance is used to supply energy for mismatch between scheduled delivery and actual loads that have occurred over an hour.



Month Ended: June-30-2016

Louisville Gas and Electric Company

Power Transaction Schedule

| Company | Type of Transaction | KWH | Billing Components | | | Total Charges(\$) |
|--|---------------------|-------------------|--------------------|------------------------|---------------------|------------------------|
| | | | Demand(\$) | Fuel Charges(\$) | Other Charges(\$) | |
| Sales | | | | | | |
| CARGILL- ALLIANT, LLC | CARG Economy | 498,000 | | \$ 14,749.39 | \$ 4,830.32 | \$ 19,579.71 |
| ILLINOIS MUNICIPAL ELECTRIC AGENCY | IMEA Economy | 42,000 | | \$ 1,163.28 | \$ 380.96 | \$ 1,544.24 |
| INDIANA MUNICIPAL POWER AGENCY | IMPA Economy | 81,000 | | \$ 3,091.90 | \$ 1,012.58 | \$ 4,104.48 |
| ENERGY IMBALANCE | IMBL Economy | 197,000 | | \$ 3,414.32 | \$ 1,118.16 | \$ 4,532.48 |
| MIDWEST INDEPENDENT TRANSMISSION SYSTEM OPERATOR, INC. | MISO Economy | 1,053,000 | | \$ 26,466.26 | \$ 8,667.44 | \$ 35,133.70 |
| PJM INTERCONNECTION ASSOCIATION | PJM Economy | 2,367,000 | | \$ 72,176.43 | \$ 23,637.26 | \$ 95,813.69 |
| THE ENERGY AUTHORITY | TEA Economy | 9,000 | | \$ 270.23 | \$ 88.50 | \$ 358.73 |
| TENASKA POWER SERVICES CO. | TPS Economy | 38,000 | | \$ 1,156.28 | \$ 378.68 | \$ 1,534.96 |
| TENNESSEE VALLEY AUTHORITY | TVA Economy | 545,000 | | \$ 18,295.95 | \$ 5,991.80 | \$ 24,287.75 |
| WESTAR ENERGY, INC. | WSTR Economy | 323,000 | | \$ 9,416.87 | \$ 3,083.96 | \$ 12,500.83 |
| KENTUCKY UTILITIES COMPANY | KU Economy | 57,562,000 | | \$ 1,411,124.83 | \$ 551.21 | \$ 1,411,676.04 |
| Total Sales | | 62,715,000 | \$ - | \$ 1,561,325.74 | \$ 49,740.87 | \$ 1,611,066.61 |



Month Ended: July-31-2016

Louisville Gas and Electric Company

Power Transaction Schedule

| Company | Type of Transaction | KWH | Billing Components | | | |
|--|---------------------|---------|--------------------|------------------------|----------------------|------------------------|
| | | | Demand(\$) | Fuel Charges(\$) | Other Charges(\$) | Total Charges(\$) |
| Sales | | | | | | |
| CARGILL- ALLIANT, LLC | CARG | Economy | | \$ 33,922.16 | \$ 15,263.93 | \$ 49,186.09 |
| ETC ENDURE | ETC | Economy | | \$ 1,775.44 | \$ 798.90 | \$ 2,574.34 |
| ILLINOIS MUNICIPAL ELECTRIC AGENCY | IMEA | Economy | | \$ 7,413.19 | \$ 3,335.71 | \$ 10,748.90 |
| INDIANA MUNICIPAL POWER AGENCY | IMPA | Economy | | \$ 10,165.49 | \$ 4,574.17 | \$ 14,739.66 |
| ENERGY IMBALANCE | IMBL | Economy | | \$ 7,245.11 | \$ 3,260.08 | \$ 10,505.19 |
| MIDWEST INDEPENDENT TRANSMISSION SYSTEM OPERATOR, INC. | MISO | Economy | | \$ 113,875.11 | \$ 51,197.15 | \$ 165,072.26 |
| PJM INTERCONNECTION ASSOCIATION | PJM | Economy | | \$ 148,227.76 | \$ 66,697.94 | \$ 214,925.70 |
| THE ENERGY AUTHORITY | TEA | Economy | | \$ 11,629.89 | \$ 5,233.10 | \$ 16,862.99 |
| TENNESSEE VALLEY AUTHORITY | TVA | Economy | | \$ 16,682.05 | \$ 7,506.41 | \$ 24,188.46 |
| WESTAR ENERGY, INC. | WSTR | Economy | | \$ 18,115.59 | \$ 8,151.47 | \$ 26,267.06 |
| KENTUCKY UTILITIES COMPANY | KU | Economy | | \$ 1,314,613.48 | \$ 912.66 | \$ 1,315,526.14 |
| Total Sales | | | | \$ 1,683,665.27 | \$ 166,931.52 | \$ 1,850,596.79 |

Energy Imbalance is used to supply energy for mismatch between scheduled delivery and actual loads that have occurred over an hour.



Month Ended: August-31-2016

Louisville Gas and Electric Company

Power Transaction Schedule

| Company | Type of Transaction | KWH | Billing Components | | | Total Charges(\$) |
|--|---------------------|---------|--------------------|----------------------|---------------------|----------------------|
| | | | Demand(\$) | Fuel Charges(\$) | Other Charges(\$) | |
| Sales | | | | | | |
| CARGILL- ALLIANT, LLC | CARG | Economy | | \$ 3,599.98 | \$ 1,866.24 | \$ 5,466.22 |
| EXELON GENERATION COMPANY, LLC | EXEL | Economy | | \$ 692.44 | \$ 358.96 | \$ 1,051.40 |
| ILLINOIS MUNICIPAL ELECTRIC AGENCY | IMEA | Economy | | \$ 412.27 | \$ 520.80 | \$ 933.07 |
| INDIANA MUNICIPAL POWER AGENCY | IMPA | Economy | | \$ 1,016.35 | \$ 1,102.69 | \$ 2,119.04 |
| ENERGY IMBALANCE | IMBL | Economy | | \$ 3,293.65 | \$ 1,707.43 | \$ 5,001.08 |
| MIDWEST INDEPENDENT TRANSMISSION SYSTEM OPERATOR, INC. | MISO | Economy | | \$ 26,508.22 | \$ 13,827.95 | \$ 40,336.17 |
| PJM INTERCONNECTION ASSOCIATION | PJM | Economy | | \$ 62,004.77 | \$ 30,968.15 | \$ 92,972.92 |
| THE ENERGY AUTHORITY | TEA | Economy | | \$ 2,379.23 | \$ 1,233.40 | \$ 3,612.63 |
| TENNESSEE VALLEY AUTHORITY | TVA | Economy | | \$ 11,880.86 | \$ 6,159.06 | \$ 18,039.92 |
| WESTAR ENERGY, INC. | WSTR | Economy | | \$ 1,398.34 | \$ 724.90 | \$ 2,123.24 |
| KENTUCKY UTILITIES COMPANY | KU | Economy | | \$ 341,193.68 | \$ 1,846.78 | \$ 343,040.46 |
| Miscellaneous Adjustment | | | | \$ (892.67) | \$ (114.86) | \$ (1,007.53) |
| Total Sales | | | | \$ 453,487.12 | \$ 60,201.50 | \$ 513,688.62 |



Month Ended: September-30-2016

Louisville Gas and Electric Company

Power Transaction Schedule

| Company | Type of Transaction | KWH | Billing Components | | | Total Charges(\$) |
|--|---------------------|---------|--------------------|------------------------|----------------------|------------------------|
| | | | Demand(\$) | Fuel Charges(\$) | Other Charges(\$) | |
| Sales | | | | | | |
| CARGILL- ALLIANT, LLC | CARG | Economy | | \$ 5,297.17 | \$ 3,808.38 | \$ 9,105.55 |
| EXELON GENERATION COMPANY, LLC | EXEL | Economy | | \$ 2,436.23 | \$ 1,751.52 | \$ 4,187.75 |
| ILLINOIS MUNICIPAL ELECTRIC AGENCY | IMEA | Economy | | \$ 1,678.91 | \$ 1,207.06 | \$ 2,885.97 |
| INDIANA MUNICIPAL POWER AGENCY | IMPA | Economy | | \$ 7,933.12 | \$ 5,703.49 | \$ 13,636.61 |
| ENERGY IMBALANCE | IMBL | Economy | | \$ 700.09 | \$ 503.33 | \$ 1,203.42 |
| MIDWEST INDEPENDENT TRANSMISSION SYSTEM OPERATOR, INC. | MISO | Economy | | \$ 17,364.29 | \$ 12,484.09 | \$ 29,848.38 |
| PJM INTERCONNECTION ASSOCIATION | PJM | Economy | | \$ 54,454.94 | \$ 39,150.28 | \$ 93,605.22 |
| TENASKA POWER SERVICES CO. | TPS | Economy | | \$ 1,633.09 | \$ 1,174.11 | \$ 2,807.20 |
| TENNESSEE VALLEY AUTHORITY | TVA | Economy | | \$ 41,150.62 | \$ 29,585.17 | \$ 70,735.79 |
| WESTAR ENERGY, INC. | WSTR | Economy | | \$ 11,747.55 | \$ 8,445.89 | \$ 20,193.44 |
| KENTUCKY UTILITIES COMPANY | KU | Economy | | \$ 1,007,798.52 | \$ 3,115.88 | \$ 1,010,914.40 |
| Total Sales | | | | \$ 1,152,194.53 | \$ 106,929.20 | \$ 1,259,123.73 |



Month Ended: October-31-2016

Louisville Gas and Electric Company

Power Transaction Schedule

| Company | Type of Transaction | KWH | Billing Components | | | Total Charges(\$) |
|--|---------------------|---------|--------------------|----------------------|----------------------|----------------------|
| | | | Demand(\$) | Fuel Charges(\$) | Other Charges(\$) | |
| Sales | | | | | | |
| CARGILL- ALLIANT, LLC | CARG | Economy | | \$ 26,419.25 | \$ 15,316.59 | \$ 41,735.84 |
| ETC ENDURE | ETC | Economy | | \$ 5,246.69 | \$ 3,041.78 | \$ 8,288.47 |
| ILLINOIS MUNICIPAL ELECTRIC AGENCY | IMEA | Economy | | \$ 1,012.89 | \$ 587.23 | \$ 1,600.12 |
| INDIANA MUNICIPAL POWER AGENCY | IMPA | Economy | | \$ 2,807.91 | \$ 1,627.89 | \$ 4,435.80 |
| ENERGY IMBALANCE | IMBL | Economy | | \$ 3,757.42 | \$ 2,178.36 | \$ 5,935.78 |
| MIDWEST INDEPENDENT TRANSMISSION SYSTEM OPERATOR, INC. | MISO | Economy | | \$ 35,080.81 | \$ 20,338.02 | \$ 55,418.83 |
| PJM INTERCONNECTION ASSOCIATION | PJM | Economy | | \$ 168,820.02 | \$ 97,873.64 | \$ 266,693.66 |
| TENNESSEE VALLEY AUTHORITY | TVA | Economy | | \$ 7,654.87 | \$ 4,437.92 | \$ 12,092.79 |
| WESTAR ENERGY, INC. | WSTR | Economy | | \$ 11,374.74 | \$ 6,594.52 | \$ 17,969.26 |
| KENTUCKY UTILITIES COMPANY | KU | Economy | | \$ 492,310.20 | \$ 3,018.21 | \$ 495,328.41 |
| Total Sales | | | | \$ 754,484.80 | \$ 155,014.16 | \$ 909,498.96 |

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 13

Witness: Derek Rahn

Q-13. a. Provide a schedule of the calculation of the 12-month average line loss by month for November 2014 through October 2016.

b. Describe the actions that LG&E has taken to reduce line loss during this period.

A-13. a. See attached.

b. LG&E's transmission and distribution system is constantly being expanded and upgraded to provide reliable electric service. All enhancements contribute to a system that will operate with potentially fewer line losses. New line construction and transformer additions provide parallel facilities and reduce the current in existing facilities, thus allowing power the path of least resistance. Replacing existing conductors with larger conductors or replacing existing transformers with larger transformers also potentially reduces the resistance. Adding capacitors near the load reduces system reactive power (VAR) requirements and line and transformer currents. Any reduction in current and/or resistance results in reduced losses. The Company's planning and design objective is to provide a reliable transmission and distribution system at a reasonable cost. For Transmission and Distribution, the cost for losses are evaluated as outlined below.

Transmission:

The cost of transmission line losses is included in the economic analysis when evaluating the cost of alternative projects. The costs of core and copper losses are incorporated into the selection of all transmission transformers.

Distribution:

Losses are evaluated in the selection of standard line materials (cables, wires, distribution transformers, etc.) and distribution substation transformers. Total ownership cost, which includes the cost of no-load, load and auxiliary losses, is incorporated into the selection of distribution and substation transformers.

Louisville Gas and Electric Company
12 month Average Line Loss
November 2014 - October 2016

| (1) | (2) | (3) | (4) | (5) | (6) |
|----------|--|--|------------------------------|---------------------------------------|--|
| Month | Total kWh Sources 12 Months Ended Current Month | Total kWh System Losses 12 Months Ended Current Month | 12 Months End % Losses | Total kWh Sources Current Month | Current Month Calculated System Losses (kWh) |
| | | | (3) / (2) | | (4) x (5) |
| Nov-2014 | 12,289,958,533 | 456,330,996 | 3.71% | 933,739,000 | 34,641,717 |
| Dec-2014 | 12,265,578,533 | 439,415,218 | 3.58% | 997,100,000 | 35,696,180 |
| Jan-2015 | 12,220,664,533 | 444,772,238 | 3.64% | 1,056,921,000 | 38,471,924 |
| Feb-2015 | 12,277,622,533 | 473,522,743 | 3.86% | 994,399,000 | 38,383,801 |
| Mar-2015 | 12,286,332,533 | 486,186,849 | 3.96% | 940,729,000 | 37,252,868 |
| Apr-2015 | 12,301,617,000 | 491,542,058 | 4.00% | 846,686,000 | 33,867,440 |
| May-2015 | 12,312,629,000 | 509,709,624 | 4.14% | 1,020,242,000 | 42,238,019 |
| Jun-2015 | 12,326,393,000 | 515,229,459 | 4.18% | 1,192,853,000 | 49,861,255 |
| Jul-2015 | 12,413,768,000 | 528,944,928 | 4.26% | 1,275,764,000 | 54,347,546 |
| Aug-2015 | 12,384,143,000 | 527,638,325 | 4.26% | 1,205,552,000 | 51,356,515 |
| Sep-2015 | 12,440,109,000 | 523,676,779 | 4.21% | 1,086,682,000 | 45,749,312 |
| Oct-2015 | 12,466,189,000 | 532,792,050 | 4.27% | 915,348,000 | 39,085,360 |
| Nov-2015 | 12,397,212,000 | 540,499,943 | 4.36% | 864,835,000 | 37,706,806 |
| Dec-2015 | 12,331,450,000 | 540,458,027 | 4.38% | 931,338,000 | 40,792,604 |
| Jan-2016 | 12,321,759,000 | 558,024,784 | 4.53% | 1,046,893,000 | 47,424,253 |
| Feb-2016 | 12,261,994,000 | 562,847,568 | 4.59% | 935,158,000 | 42,923,752 |
| Mar-2016 | 12,230,715,000 | 552,560,185 | 4.52% | 909,254,000 | 41,098,281 |
| Apr-2016 | 12,263,050,000 | 564,931,903 | 4.61% | 879,013,000 | 40,522,499 |
| May-2016 | 12,195,089,000 | 572,222,898 | 4.69% | 952,265,000 | 44,661,229 |
| Jun-2016 | 12,223,829,000 | 569,337,253 | 4.66% | 1,221,727,000 | 56,932,478 |
| Jul-2016 | 12,250,475,000 | 576,565,440 | 4.71% | 1,302,410,000 | 61,343,511 |
| Aug-2016 | 12,393,662,000 | 584,692,873 | 4.72% | 1,348,684,000 | 63,657,885 |
| Sep-2016 | 12,444,177,000 | 609,646,349 | 4.90% | 1,137,192,000 | 55,722,408 |
| Oct-2016 | 12,470,868,000 | 601,661,394 | 4.82% | 942,044,000 | 45,406,521 |

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 14

Witness: Eileen L. Saunders

Q-14. List LG&E's scheduled, actual, and forced outages between May 1, 2016 and October 31, 2016.

A-14. See attached.

Louisville Gas & Electric Company
May 2016 through October 2016

| 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* | | |
| Mill Creek Unit 1 - Coal - 300 MW | S | 5/13/2016 23:34 | 5/14/2016 13:02 | 5/13/2016 23:34 | 5/14/2016 13:02 | 13:28 | 13:28 | Boiler Circulating Water Pump (BCWP) seal failure and repair |
| In-service August 1972 | F | | | 5/15/2016 20:30 | 5/17/2016 20:06 | | 47:36 | Reheat stop valve maintenance |
| | S | 6/30/2016 22:19 | 7/2/2016 0:00 | 6/30/2016 22:19 | 7/2/2016 0:00 | 25:41 | 25:41 | Condenser tube leak |
| | S | 7/2/2016 0:00 | 7/3/2016 9:18 | 7/2/2016 0:00 | 7/3/2016 9:18 | 33:18 | 33:18 | Planned extension: boiler tube leak repair |
| | S | 7/15/2016 23:21 | 7/18/2016 6:29 | 7/15/2016 23:21 | 7/18/2016 6:29 | 55:08 | 55:08 | Boiler reheat tube leak |
| | S | 9/17/2016 1:18 | 9/19/2016 4:46 | 9/17/2016 1:18 | 9/19/2016 4:46 | 51:28 | 51:28 | Boiler waterwall tube leak |
| | F | | | 10/6/2016 15:26 | 10/7/2016 7:13 | | 15:47 | Condenser tube leak |
| Mill Creek Unit 2 - Coal - 297 MW | S | 9/9/2016 22:23 | 9/11/2016 13:01 | 9/9/2016 22:23 | 9/11/2016 13:01 | 38:38 | 38:38 | Boiler economizer tube leak |
| In-service July 1974 | F | | | 10/22/2016 10:51 | 10/23/2016 10:45 | | 23:54 | Cooling tower leak repair |
| Mill Creek Unit 3 - Coal - 391 MW | S | 4/9/2016 0:00 | 6/12/2016 15:00 | 4/9/2016 14:58 | 6/3/2016 20:08 | 1551:00 | 1325:10 | Boiler outage and Flue Gas Desulfurization Unit (FGD) tie-in |
| In-service August 1978 | F | | | 6/3/2016 20:08 | 6/4/2016 16:04 | | 19:56 | Induced Draft (ID) fan power supply breaker |
| | S | 6/17/2016 0:51 | 6/18/2016 5:52 | 6/17/2016 0:51 | 6/18/2016 5:52 | 29:01 | 29:01 | ID fan expansion joint replacement |
| | F | | | 8/4/2016 12:18 | 8/5/2016 2:56 | | 14:38 | Loss of FGD air compressor control power |
| | S | 10/22/2016 0:00 | 10/30/2016 15:00 | 10/21/2016 22:16 | 10/30/2016 11:18 | 207:00 | 205:02 | Pulse Jet Fabric Filter (PJFF) and FGD inspection |
| | F | | | 10/30/2016 16:22 | 10/30/2016 23:30 | | 7:08 | ID fan coolant level maintenance |
| Mill Creek Unit 4 - Coal - 477 MW | F | | | 4/28/2016 10:34 | 5/1/2016 23:27 | | 84:53 | Boiler superheat tube leak |
| In-service September 1982 | F | | | 9/20/2016 9:36 | 9/24/2016 10:55 | | 97:19 | Boiler superheat tube leak |
| | S | 10/1/2016 0:00 | 11/6/2016 15:00 | 9/30/2016 1:23 | 11/7/2016 0:00 | 879:00 | 910:37 | Minor boiler outage |
| Trimble County Unit 1 - Coal - 370 MW | S | 5/14/2016 23:15 | 5/15/2016 16:25 | 5/14/2016 23:15 | 5/15/2016 16:25 | 17:10 | 17:10 | Auxiliary steam line weld repair |
| In-service December 1990 | F | | | 6/20/2016 7:28 | 6/21/2016 23:03 | | 39:35 | ID fan variable frequency drive (VFD) coolant leak repair |
| 75% ownership share of 511 MW | F | | | 9/1/2016 22:38 | 9/2/2016 6:32 | | 7:54 | Boiler control power loss and repair |
| | S | 11/5/2016 0:00 | 11/13/2016 15:00 | 10/15/2016 1:20 | 10/24/2016 3:14 | 207:00 | 217:54 | Generator Step Up (GSU) transformer oil leak repair |

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

Louisville Gas & Electric Company
May 2016 through October 2016

| 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* | | |
| Trimble County Unit 2 - Coal - 549 MW | S | 4/30/2016 16:06 | 5/9/2016 6:47 | 4/30/2016 16:06 | 5/9/2016 6:47 | 206:41 | 206:41 | Turbine bearing inspection and adjustment |
| In-service January 2011 | F | | | 5/9/2016 9:45 | 5/9/2016 16:18 | | 6:33 | Generator protection relay trip |
| 75% ownership share of 732 MW jointly owned with KU | F | | | 5/10/2016 18:31 | 5/13/2016 5:10 | | 58:39 | Boiler drain leak repair |
| | S | 5/16/2016 3:44 | 5/18/2016 6:29 | 5/16/2016 3:44 | 5/18/2016 6:29 | 50:45 | 50:45 | Wet electrostatic precipitator (WESP) inspection |
| | F | | | 5/18/2016 19:23 | 5/19/2016 8:26 | | 13:03 | Generator vibration inspection |
| | F | | | 5/19/2016 11:17 | 6/1/2016 0:00 | | 300:43 | Generator vibration repair |
| | F | | | 6/1/2016 0:00 | 7/15/2016 5:45 | | 1061:45 | Generator vibration repair extension |
| | F | | | 7/18/2016 12:32 | 7/19/2016 23:59 | | 35:27 | Boiler pressure relief repair |
| | F | | | 7/31/2016 7:42 | 7/31/2016 18:56 | | 11:14 | Air Heater motor trip |
| | F | | | 7/31/2016 19:19 | 8/1/2016 2:59 | | 7:40 | Loss of power on transfer from Reserve to Main Aux Transformer |
| | F | | | 9/11/2016 1:31 | 9/11/2016 14:58 | | 13:27 | Main steam control valve position indicator repair |
| | F | | | 9/27/2016 6:46 | 9/27/2016 14:43 | | 7:57 | Primary air reference line transmitter repair |
| | F | | | 10/30/2016 8:46 | 10/30/2016 21:26 | | 12:40 | Steam control valve inspection and repair |
| | F | | | 10/31/2016 2:17 | 10/31/2016 9:00 | | 6:43 | Low feedwater flow during start-up |
| Cane Run Unit 7 - Gas CC - 662 MW | S | 7/2/2016 22:33 | 7/3/2016 18:33 | 7/2/2016 22:33 | 7/3/2016 18:33 | 20:00 | 20:00 | Heat Recovery Steam Generator (HRSG) superheat vent repair |
| In-service June 2015 | S | 7/30/2016 21:12 | 7/31/2016 7:23 | 7/30/2016 21:12 | 7/31/2016 7:23 | 10:11 | 10:11 | Shutdown for water pump tie-in to existing systems |
| Jointly owned with KU | S | 10/29/2016 0:00 | 11/20/2016 15:00 | 10/29/2016 0:03 | 11/18/2016 23:24 | 543:00 | 503:21 | HRSG inspection, Combustion turbine borescope inspection |
| E. W. Brown Unit 5 - Gas CT - 130 MW | S | 10/15/2016 0:00 | 10/23/2016 15:00 | 10/19/2016 7:53 | 10/22/2016 14:40 | 207:00 | 78:47 | Generator protection relay upgrade |
| In-service June 2001 | | | | | | | | |
| Jointly owned with KU | | | | | | | | |
| E. W. Brown Unit 6 - Gas CT - 146 MW | S | 5/6/2016 5:49 | 5/7/2016 3:44 | 5/6/2016 5:49 | 5/7/2016 3:44 | 21:55 | 21:55 | Oil pump motor replacement |
| In-service August 1999 | S | 7/28/2016 6:07 | 7/28/2016 12:27 | 7/28/2016 6:07 | 7/28/2016 12:27 | 6:20 | 6:20 | Fire protection system repair |
| Jointly owned with KU | S | 10/15/2016 0:00 | 10/23/2016 15:00 | 10/19/2016 5:42 | 10/22/2016 12:27 | 207:00 | 78:45 | Borecope inspection and relay protection upgrade |
| | F | | | 10/22/2016 13:25 | 10/24/2016 14:17 | | 48:52 | Generator protection relay calibration |

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

Louisville Gas & Electric Company
May 2016 through October 2016

| 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* | | |
| E. W. Brown Unit 7 - Gas CT - 146 MW | S | 10/20/2016 6:51 | 10/20/2016 17:53 | 10/20/2016 6:51 | 10/20/2016 17:53 | 11:02 | 11:02 | Gas pipeline inspection |
| In-service August 1999 | S | 10/21/2016 8:26 | 10/21/2016 18:41 | 10/21/2016 8:26 | 10/21/2016 18:41 | 10:15 | 10:15 | Gas pipeline inspection extension |
| Jointly owned with KU | | | | | | | | |
| Cane Run Unit 11 - Gas CT - 14 MW | | No outages > or = 6 hours | | | | | | |
| In-service June 1968 | | | | | | | | |
| Paddys Run Unit 11 - Gas CT - 12 MW | S | 6/8/2016 6:14 | 6/8/2016 13:06 | 6/8/2016 6:14 | 6/8/2016 13:06 | 6:52 | 6:52 | Starting diesel annual maintenance |
| In-service June 1968 | F | | | 6/14/2016 12:26 | 6/15/2016 11:33 | | 23:07 | Cooling system |
| | S | 6/20/2016 8:48 | 6/20/2016 17:31 | 6/20/2016 8:48 | 6/20/2016 17:31 | 8:43 | 8:43 | Gas line maintenance |
| | S | 6/21/2016 7:45 | 6/21/2016 15:17 | 6/21/2016 7:45 | 6/21/2016 15:17 | 7:32 | 7:32 | Gas line maintenance extension |
| | F | | | 7/31/2016 3:10 | 7/31/2016 16:08 | | 12:58 | Station transformer failure and power distribution reconfiguration |
| | S | 8/11/2016 7:41 | 8/11/2016 17:54 | 8/11/2016 7:41 | 8/11/2016 17:54 | 10:13 | 10:13 | Station transformer replacement |
| | F | | | 8/30/2016 15:16 | 8/31/2016 6:11 | | 14:55 | Cooling System |
| | S | 10/29/2016 0:00 | 11/13/2016 15:00 | 10/24/2016 5:30 | 11/14/2016 0:00 | 375:00 | 498:30 | High pressure gas line connection outage |
| Paddys Run Unit 12 - Gas CT - 23 MW | S | 6/8/2016 6:14 | 6/8/2016 13:06 | 6/8/2016 6:14 | 6/8/2016 13:06 | 6:52 | 6:52 | Starting diesel annual maintenance |
| In-service July 1968 | S | 6/20/2016 8:48 | 6/20/2016 17:31 | 6/20/2016 8:48 | 6/20/2016 17:31 | 8:43 | 8:43 | Gas line maintenance |
| | S | 6/21/2016 7:45 | 6/21/2016 15:17 | 6/21/2016 7:45 | 6/21/2016 15:17 | 7:32 | 7:32 | Gas line maintenance |
| | S | 10/29/2016 0:00 | 11/13/2016 15:00 | 10/24/2016 5:30 | 11/14/2016 0:00 | 375:00 | 498:30 | High pressure gas line connection outage |
| Paddys Run Unit 13 - Gas CT - 147 MW | S | 10/29/2016 0:00 | 11/13/2016 15:00 | 10/24/2016 5:30 | 11/12/2016 10:11 | 375:00 | 460:41 | High pressure gas line connection outage |
| In-service June 2001 | | | | | | | | |
| Jointly owned with KU | | | | | | | | |
| Trimble County Unit 5 - Gas CT - 159 MW | F | | | 5/11/2016 12:49 | 5/14/2016 14:38 | | 73:49 | Motor operated disconnect (MOD) repair and upgrade |
| In-service May 2002 | F | | | 6/26/2016 10:54 | 6/27/2016 12:44 | | 25:50 | Static start system inspection and repair |
| Jointly owned with KU | S | 9/16/2016 5:20 | 9/16/2016 14:48 | 9/16/2016 5:20 | 9/16/2016 14:48 | 9:28 | 9:28 | Gas control valve repair |
| | S | 10/1/2016 0:00 | 10/16/2016 15:00 | 9/30/2016 20:23 | 10/15/2016 16:04 | 375:00 | 355:41 | Unit controls upgrade |

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

Louisville Gas & Electric Company
 May 2016 through October 2016

| 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* | | |
| Trimble County Unit 6 - Gas CT - 159 MW | S | 4/22/2016 20:30 | 5/29/2016 14:56 | 4/22/2016 20:30 | 5/29/2016 14:56 | 882:26 | 882:26 | Hot gas path inspection |
| In-service May 2002 | S | 8/24/2016 6:26 | 8/24/2016 18:25 | 8/24/2016 6:26 | 8/24/2016 18:25 | 11:59 | 11:59 | Gas valve servo replacement |
| Jointly owned with KU | S | 10/1/2016 0:00 | 10/16/2016 15:00 | 9/30/2016 20:23 | 10/15/2016 22:06 | 375:00 | 361:43 | Unit controls upgrade |
| | S | 10/15/2016 22:28 | 10/16/2016 7:42 | 10/15/2016 22:28 | 10/16/2016 7:42 | 9:14 | 9:14 | Post control upgrade system tuning |
| | S | 10/16/2016 10:56 | 10/17/2016 0:00 | 10/16/2016 10:56 | 10/17/2016 0:00 | 13:04 | 13:04 | Post control upgrade tuning and combustion chamber repair |
| | S | 10/17/2016 0:00 | 10/24/2016 7:49 | 10/17/2016 0:00 | 10/24/2016 7:49 | 175:49 | 175:49 | Post control upgrade tuning and combustion chamber repair extension |
| Trimble County Unit 7 - Gas CT - 159 MW | S | 5/14/2016 3:00 | 5/14/2016 14:38 | 5/14/2016 3:00 | 5/14/2016 14:38 | 11:38 | 11:38 | MOD repair and upgrade: shared equipment with TC5 |
| In-service June 2004 | S | 8/23/2016 6:28 | 8/23/2016 16:08 | 8/23/2016 6:28 | 8/23/2016 16:08 | 9:40 | 9:40 | Post outage vibration balance shot |
| Jointly owned with KU | | | | | | | | |
| Trimble County Unit 8 - Gas CT - 159 MW | F | | | 5/24/2016 11:55 | 5/25/2016 20:05 | | 32:10 | Cooling system leak repair |
| In-service June 2004 | F | | | 8/9/2016 14:28 | 8/10/2016 10:01 | | 19:33 | Fire protection system repair |
| Jointly owned with KU | | | | | | | | |
| Trimble County Unit 9 - Gas CT - 159 MW | S | 3/21/2016 2:27 | 5/4/2016 0:00 | 3/21/2016 2:27 | 5/4/2016 0:00 | 1053:33 | 1053:33 | Generator rewind |
| In-service July 2004 | S | 5/4/2016 0:00 | 5/6/2016 22:22 | 5/4/2016 0:00 | 5/6/2016 22:22 | 70:22 | 70:22 | Generator rewind extension |
| Jointly owned with KU | S | 10/22/2016 0:00 | 10/30/2016 15:00 | 10/24/2016 1:32 | 10/30/2016 17:56 | 207:00 | 160:24 | Borescope inspection |
| Trimble County Unit 10 - Gas CT - 159 MW | S | 10/22/2016 0:00 | 10/30/2016 15:00 | 10/24/2016 1:32 | 10/31/2016 0:00 | 207:00 | 166:28 | Generator protection relay upgrade |
| In-service July 2004 | S | 10/31/2016 0:00 | 10/31/2016 12:25 | 10/31/2016 0:00 | 10/31/2016 12:25 | 12:25 | 12:25 | Gas line pressure regulating valve maintenance and tuning |
| Jointly owned with KU | | | | | | | | |
| Zorn Unit 1 - Gas CT - 14 MW | F | | | 7/12/2016 21:36 | 7/15/2016 10:00 | | 60:24 | Gas line inspection and maintenance |
| In-service May 1969 | | | | | | | | |

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

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 15

Witness: Delbert Billiter

- Q-15. For each existing fuel contract categorized as long-term (i.e., one year or more in length), provide:
- a. Supplier's name and address;
 - b. Name and location of production facility;
 - c. Date when contract was executed;
 - d. Duration of contract;
 - e. Date(s) of each contract revision, modification, or amendment;
 - f. Annual tonnage requirements;
 - g. Actual annual tonnage received since the contract's inception;
 - h. Percent of annual requirements received during the contract's term;
 - i. Base price in dollars per ton;
 - j. Total amount of price escalations to date in dollars per ton; and
 - k. Current price paid for coal under the contract in dollars per ton (i.+j).

A-15 See attached.

A. NAME/ADDRESS: Alliance Coal, LLC / J12007
1717 South Boulder Av., Suite 400
Tulsa, Oklahoma 74119-4886

B. PRODUCTION FACILITY:
OPERATOR Hopkins County Coal, Warrior Coal and Webster
County Coal
MINE Seller's Mines
LOCATION Western Kentucky

C. CONTRACT EXECUTED DATE: December 9, 2011

D. CONTRACT DURATION: January 1, 2012 – December 31, 2016

E. CONTRACT AMENDMENTS: Amendment No. 1, effective January 1, 2013.
Determine Base price for 2013 and 2014.
Amendment No. 2, effective January 1, 2014.
Determine Base price for 2014 and 2015.
Amendment No. 3, effective January 1, 2015.
Determine Base price for 2015 and 2016.
Amendment No. 4, effective January 1, 2016.
Determine Base price for 2016.

F. ANNUAL TONNAGE REQUIREMENTS:

| | |
|------|----------------|
| 2012 | 3,000,000 tons |
| 2013 | 3,000,000 tons |
| 2014 | 3,000,000 tons |
| 2015 | 3,000,000 tons |
| 2016 | 3,000,000 tons |

G. ACTUAL TONNAGE RECEIVED:

| | <u>LG&E</u> | <u>KU</u> |
|------|--------------------|--------------|
| 2012 | 2,877,460 tons | 14,326 tons |
| 2013 | 3,065,353 tons | 0 tons |
| 2014 | 2,942,649 tons | 60,536 tons |
| 2015 | 3,027,379 tons | 0 tons |
| 2016 | 2,147,399 tons | 257,247 tons |
| | (through 10/31/16) | |

H. PERCENT OF ANNUAL REQUIREMENTS:

| | |
|------|------------------------|
| 2012 | 96% |
| 2013 | 102% |
| 2014 | 100% |
| 2015 | 101% |
| 2016 | 80% (through 10/31/16) |

| | |
|------------------------------------|--|
| I. BASE PRICE (FOB Railcar/Barge): | 2012 - \$47.00 per ton FOB Railcar 2013 - \$48.00 per ton FOB Railcar 2014 - \$47.38 per ton FOB Railcar/Barge 2015 - \$47.13 per ton FOB Railcar/Warrior 2015 - \$46.88 per ton FOB Railcar/Dotiki 2016 - \$45.75 per ton FOB Railcar/Warrior 2016 - \$45.00 per ton FOB Railcar/Dotiki |
| J. ESCALATIONS TO DATE: | None |
| K. CURRENT CONTRACT PRICE: | \$45.75 per ton FOB Railcar/Warrior \$45.00 per ton FOB Railcar/Dotiki |

A. NAME/ADDRESS: Alliance Coal, LLC / J16001B
1717 South Boulder Av., Suite 400
Tulsa, Oklahoma 74119-4886

B. PRODUCTION FACILITY:
OPERATOR River View Coal, LLC
MINE River View Mine
LOCATION Union County, Kentucky

C. CONTRACT EXECUTED DATE: December 29, 2014

D. CONTRACT DURATION: January 1, 2016 – December 31, 2017

E. CONTRACT AMENDMENTS: Amendment No. 1, effective October 10, 2014.
Extend term to December 31, 2017. Increase Base
Quantity tonnage. Update Annual Base Price for
2016 and 2017.
Contract J16001 Assignment from Patriot Coal
Sales to Alliance Coal, LLC.

F. ANNUAL TONNAGE REQUIREMENTS: 2016 960,000 tons
2017 480,000 tons

G. ACTUAL TONNAGE RECEIVED:

| | | |
|------|------------------------------------|--------------|
| | <u>LG&E</u> | <u>KU</u> |
| 2016 | 557,197 tons (through 10/31/16) | 185,795 tons |

H. PERCENT OF ANNUAL REQUIREMENTS: 2016 77% (through 10/31/16)

I. BASE PRICE (FOB Barge): 2016 - \$46.69 per ton
2017 - \$48.25 per ton

J. ESCALATIONS TO DATE: None

K. CURRENT CONTRACT PRICE: \$46.69 per ton

A. NAME/ADDRESS: Alliance Coal, LLC / J16008
1717 South Boulder Av., Suite 400
Tulsa, Oklahoma 74119-4886

B. PRODUCTION FACILITY:
OPERATOR Gibson County Coal, LLC
MINE Gibson South
LOCATION Gibson County, Indiana

C. CONTRACT EXECUTED DATE: March 1, 2015

D. CONTRACT DURATION: January 1, 2016 – December 31, 2017

E. CONTRACT AMENDMENTS: Amendment No.1, effective March 1, 2016
Adds FOB Barge Load Point Mount Vernon
Terminal MP 828

F. ANNUAL TONNAGE REQUIREMENTS: 2016 250,000 tons
2017 250,000 tons

G. ACTUAL TONNAGE RECEIVED:

| | |
|--------------------|--------------|
| <u>LG&E</u> | <u>KU</u> |
| 2016 0 tons | 188,365 tons |
| (through 10/31/16) | |

H. PERCENT OF ANNUAL REQUIREMENTS: 2016 75% (through 10/31/16)

I. BASE PRICE (FOB Railcar/Barge): 2016 - \$47.00 per ton FOB Railcar
\$54.50 per ton FOB Barge
2017 - \$49.00 per ton FOB Railcar

J. ESCALATIONS TO DATE: None

K. CURRENT CONTRACT PRICE: \$47.00 per ton FOB Railcar
\$54.50 per ton FOB Barge

- A. NAME/ADDRESS: Armstrong Coal Sales, LLC / J07032
407 Brown Road
Madisonville, Kentucky 42431
- B. PRODUCTION FACILITY:
OPERATOR Armstrong Coal Company, Inc
MINES Various
LOCATION Muhlenberg County and Ohio County, Kentucky
- C. CONTRACT EXECUTED DATE: December 20, 2007
- D. CONTRACT DURATION: January 1, 2008 - December 31, 2019
- E. CONTRACT AMENDMENTS: Amendment No. 1, effective July 1, 2008 amending base quantity and modifying diesel fuel adjustment to include explosives.
Amendment No. 2, effective December 22, 2009 amending term, base quantity, price and environmental force majeure.
Amendment No. 3, effective October 29, 2013 amending term, base quantity, price and payment.
Assignment and Assumption Agreement dated August 6, 2015 assigning Agreement from Armstrong Coal Company, Inc. to Armstrong Coal Sales, LLC.
- F. ANNUAL TONNAGE REQUIREMENTS:
- | | |
|-------------------|---------------------------|
| 2008 | 600,000 tons |
| 2009 | 2,200,000 tons |
| 2010 | 1,800,000 tons |
| 2011 through 2013 | - 2,100,000 tons per year |
| 2014 through 2016 | - 1,000,000 tons per year |
| 2017 through 2019 | - 700,000 tons per year |
- G. ACTUAL TONNAGE RECEIVED:
- | | <u>LG&E</u> | <u>KU</u> |
|------|-----------------|----------------|
| 2008 | 511,414 tons | 82,623 tons |
| 2009 | 1,530,482 tons | 632,077 tons |
| 2010 | 1,180,206 tons | 657,930 tons |
| 2011 | 993,296 tons | 877,219 tons |
| 2012 | 904,254 tons | 1,211,495 tons |
| 2013 | 838,589 tons | 1,431,403 tons |
| 2014 | 346,954 tons | 634,044 tons |

| | <u>LG&E</u> | <u>KU</u> |
|------|------------------------------------|--------------|
| 2015 | 312,387 tons | 627,074 tons |
| 2016 | 309,479 tons (through 10/31/16) | 559,231 tons |

H. PERCENT OF ANNUAL REQUIREMENTS:

| | |
|------|------------------------|
| 2008 | 99% |
| 2009 | 98% |
| 2010 | 102% |
| 2011 | 89% |
| 2012 | 101% |
| 2013 | 108% |
| 2014 | 98% |
| 2015 | 94% |
| 2016 | 87% (through 10/31/16) |

I. BASE PRICE (FOB Railcar/Barge)

| | |
|-----------|--|
| 2008 | Quality 1 - \$27.31 per ton Quality 2 - \$28.30 per ton |
| 2009 | Quality 1 - \$27.60 per ton Quality 2 - \$28.76 per ton |
| 2010 | Quality 1 - \$28.18 per ton Quality 2 - N/A |
| 2011 | Quality 1 - \$28.19 per ton Quality 2 - \$29.61 per ton |
| 2012 | Quality 1 - \$28.35 per ton Quality 2 - \$29.77 per ton |
| 2013 | Quality 1 - \$28.35 per ton Quality 2 - \$29.77 per ton |
| 2014-2017 | Quality 1 - \$28.50 per ton Quality 2 - \$29.92 per ton |
| 2018 | Quality 1 - \$29.00 per ton Quality 2 - \$30.42 per ton |
| 2019 | Quality 1 - \$30.25 per ton Quality 2 - \$31.67 per ton |

| | | |
|--|---|-------------------------|
| A. NAME/ADDRESS: | Armstrong Coal Sales, LLC / J14004 407 Brown Road Madisonville, Kentucky 42431 | |
| B. PRODUCTION FACILITY: OPERATOR MINES LOCATION | Armstrong Coal Company, Inc. Various Muhlenberg County and Ohio County, Kentucky | |
| C. CONTRACT EXECUTED DATE: | December 12, 2012 | |
| D. CONTRACT DURATION: | January 1, 2013 - December 31, 2017 | |
| E. CONTRACT AMENDMENTS: | Amendment No. 1, effective October 29, 2013 amending base quantity and price. Assignment and Assumption Agreement dated August 6, 2015 assigning Agreement from Armstrong Coal Company, Inc. to Armstrong Coal Sales, LLC. | |
| F. ANNUAL TONNAGE REQUIREMENTS: | 2014 | 1,300,000 tons |
| | 2015 | 1,350,000 tons |
| | 2016 | 500,000 tons |
| | 2017 | 500,000 tons |
| G. ACTUAL TONNAGE: RECEIVED: | <u>LG&E</u> | <u>KU</u> |
| | 2014 | 647,205 tons |
| | 2015 | 323,703 tons |
| | 2016 | 279,420 tons |
| | | (through 10/31/16) |
| H. PERCENT OF ANNUAL REQUIREMENTS: | 2014 | 94% |
| | 2015 | 88% |
| | 2016 | 120% (through 10/31/16) |
| I. BASE PRICE (FOB Railcar/Barge) | <u>Railcar</u> | <u>Barge</u> |
| | 2014 | \$44.60 per ton |
| | 2015 | \$46.01 per ton |
| | 2016 | \$46.75 per ton |
| | 2017 | \$47.90 per ton |

J. ESCALATIONS TO DATE:

Railcar/Barge
-\$5.47 per ton

K. CURRENT CONTRACT PRICE:

| <u>Railcar</u> | <u>Barge</u> |
|-----------------|-----------------|
| \$41.28 per ton | \$42.28 per ton |

A. NAME/ADDRESS: Armstrong Coal Sales, LLC / J14010
407 Brown Road
Madisonville, Kentucky 42431

B. PRODUCTION FACILITY:
OPERATOR Armstrong Coal Company, Inc.
MINES Various
LOCATION Muhlenberg County and Ohio County, Kentucky

C. CONTRACT EXECUTED DATE: December 12, 2012

D. CONTRACT DURATION: January 1, 2014 - December 31, 2019

E. CONTRACT AMENDMENTS: Assignment and Assumption Agreement dated August 6, 2015 assigning Agreement from Armstrong Coal Company, Inc. to Armstrong Coal Sales, LLC.

F. ANNUAL TONNAGE REQUIREMENTS:

| | |
|------|--------------|
| 2014 | 100,000 tons |
| 2015 | 100,000 tons |
| 2016 | 100,000 tons |
| 2017 | 100,000 tons |
| 2018 | 100,000 tons |
| 2019 | 100,000 tons |

G. ACTUAL TONNAGE RECEIVED:

| | <u>LG&E</u> | <u>KU</u> |
|------|--------------------|-------------|
| 2014 | 38,628 tons | 59,303 tons |
| 2015 | 28,826 tons | 75,097 tons |
| 2016 | 14,332 tons | 64,070 tons |
| | (through 10/31/16) | |

H. PERCENT OF ANNUAL REQUIREMENTS:

| | |
|------|------------------------|
| 2014 | 98% |
| 2015 | 104% |
| 2016 | 78% (through 10/31/16) |

I. BASE PRICE (FOB Barge/Railcar)

| | |
|------|-----------------|
| 2014 | \$40.00 per ton |
| 2015 | \$41.00 per ton |
| 2016 | \$42.00 per ton |
| 2017 | \$43.00 per ton |
| 2018 | \$44.00 per ton |
| 2019 | \$45.00 per ton |

J. ESCALATIONS TO DATE: None

K. CURRENT CONTRACT PRICE: \$42.00 per ton

A. NAME/ADDRESS: Armstrong Coal Sales, LLC / J16003
407 Brown Road
Madisonville, Kentucky 42431

B. PRODUCTION FACILITY:
OPERATOR Armstrong Coal Company, Inc.
MINES Various
LOCATION Muhlenberg County and Ohio County,
Kentucky

C. CONTRACT EXECUTED DATE: September 8, 2014

D. CONTRACT DURATION: January 1, 2016 - December 31, 2017

E. CONTRACT AMENDMENTS: Assignment and Assumption Agreement dated
August 6, 2015 assigning Agreement from
Armstrong Coal Company, Inc. to Armstrong Coal
Sales, LLC.

F. ANNUAL TONNAGE REQUIREMENTS: 2016 1,000,000 tons
2017 1,000,000 tons

G. ACTUAL TONNAGE RECEIVED: LG&E KU
2016 329,788 tons 452,771 tons
(through 10/31/16)

H. PERCENT OF ANNUAL REQUIREMENTS: 2016 78% (through 10/31/16)

I. BASE PRICE (FOB Barge/Railcar) 2016 \$42.80 per ton
2017 \$44.00 per ton

J. ESCALATIONS TO DATE: -\$5.54 per ton

K. CURRENT CONTRACT PRICE: \$37.26 per ton

| | | |
|--|---|---|
| A. NAME/ADDRESS: | Armstrong Coal Sales, LLC / J16017 407 Brown Road Madisonville, Kentucky 42431 | |
| B. PRODUCTION FACILITY: OPERATOR MINES LOCATION | Armstrong Coal Company, Inc. Various Muhlenberg County and Ohio County, Kentucky | |
| C. CONTRACT EXECUTED DATE: | September 16, 2015 | |
| D. CONTRACT DURATION: | September 1, 2015 - December 31, 2018 | |
| E. CONTRACT AMENDMENTS: | None | |
| F. ANNUAL TONNAGE REQUIREMENTS: | 2016 | 400,000 tons |
| | 2017 | 720,000 tons |
| | 2018 | 1,000,000 tons |
| G. ACTUAL TONNAGE: RECEIVED: | | |
| | | <u>LG&E</u> <u>KU</u> |
| | 2016 | 69,982 tons 236,975 tons (through 10/31/16) |
| H. PERCENT OF ANNUAL REQUIREMENTS: | 2016 | 77% (through 10/31/16) |
| I. BASE PRICE (FOB Railcar/Barge) | | |
| | | <u>Railcar</u> <u>Barge</u> |
| | 2016 | \$38.25 per ton \$39.25 per ton |
| | 2017 | \$39.25 per ton \$40.25 per ton |
| | 2018 | \$40.25 per ton \$41.25 per ton |
| J. ESCALATIONS TO DATE: | <u>Railcar/Barge</u> -\$2.61 per ton | |
| K. CURRENT CONTRACT PRICE: | | |
| | | <u>Railcar</u> <u>Barge</u> |
| | | \$35.64 per ton \$36.64 per ton |

A. NAME/ADDRESS: Eagle River Coal, LLC / J16005
29 West Raymond St.
Harrisburg, Illinois 62946

B. PRODUCTION FACILITY:
OPERATOR Eagle River Coal, LLC
MINES Eagle River Surface Mine No.1
LOCATION Saline County, Illinois

C. CONTRACT EXECUTED DATE: November 11, 2014

D. CONTRACT DURATION: January 1, 2016 - December 31, 2018

E. CONTRACT AMENDMENTS: None

F. ANNUAL TONNAGE REQUIREMENTS:

| | |
|------|--------------|
| 2016 | 300,000 tons |
| 2017 | 420,000 tons |
| 2018 | 420,000 tons |

G. ACTUAL TONNAGE RECEIVED:

| | | |
|------|-----------------------------------|--------------|
| | <u>LG&E</u> | <u>KU</u> |
| 2016 | 98,204 tons (through 10/31/16) | 128,137 tons |

H. PERCENT OF ANNUAL REQUIREMENTS:

| | |
|------|------------------------|
| 2016 | 75% (through 10/31/16) |
|------|------------------------|

I. BASE PRICE (FOB Barge)

| | |
|------|-----------------|
| 2016 | \$48.20 per ton |
| 2017 | \$49.30 per ton |
| 2018 | \$52.30 per ton |

J. ESCALATIONS TO DATE: -\$3.75 per ton

K. CURRENT CONTRACT PRICE: \$44.45 per ton

A. NAME/ADDRESS: Foresight Coal Sales, LLC / J16018
46226 National Road
St. Clairsville, Ohio 43950

B. PRODUCTION FACILITY:
OPERATOR: Macoupin Energy, LLC
Sugar Camp Energy, LLC
Hillsboro Energy, LLC
Williamson Energy, LLC
MINES: Shay Mine No. 1
Deer Run Mine
MC#1
Mach #1
LOCATION: Macoupin, Montgomery, Williamson and Franklin
Counties, Illinois

C. CONTRACT EXECUTED DATE: December 19, 2015

D. CONTRACT DURATION: December 1, 2015 - December 31, 2019

E. CONTRACT AMENDMENTS: None

F. ANNUAL TONNAGE REQUIREMENTS

| | |
|----------------------|----------------------------|
| Total 3,000,000 tons | |
| <u>Year</u> | <u>Volume Range</u> |
| 2016 | 0 – 500,000 tons |
| 2017 | 1,000,000 – 1,500,000 tons |
| 2018 | 1,000,000 – 1,500,000 tons |
| 2019 | 0 – 1,000,000 tons |

G. ACTUAL TONNAGE RECEIVED:

| | | |
|------|-----------|------------|
| | <u>KU</u> | <u>LGE</u> |
| 2016 | 0 tons | 0 tons |

H. PERCENT OF ANNUAL REQUIREMENTS:

| | |
|------|----|
| 2016 | NA |
|------|----|

I. BASE PRICE: (FOB Barge)

| | |
|----------------------------------|-------------------|
| <u>Volume Range (Cumulative)</u> | <u>Base Price</u> |
| 0 – 1,000,000 tons | \$38.95 per ton |
| 1,000,001 – 2,000,000 tons | \$40.45 per ton |
| 2,000,001 – 3,000,000 tons | \$42.35 per ton |

J. ESCALATIONS TO DATE: None

K. CURRENT CONTRACT PRICE: \$38.95 per ton

- A. NAME/ADDRESS: Peabody COALSALES, LLC / J16007
701 Market Street
St. Louis, Missouri 63101
- B. PRODUCTION FACILITY:
OPERATOR Peabody Midwest Mining, LLC
Peabody Wild Boar Mining, LLC
MINE Somerville Mine Complex
Wild Boar
LOCATION Warrick & Gibson Counties, Indiana
- C. CONTRACT EXECUTED DATE: April 6, 2015
- D. CONTRACT DURATION: April 1, 2015 – December 31, 2018
- E. CONTRACT AMENDMENTS: Amendment No. 1 effective September 1, 2015
Extend term to December 31, 2018 and add 250K
tons to 2016, 750K tons to 2017 and 750K tons to
2018. Added new pricing for 2016 through 2018.
- F. ANNUAL TONNAGE REQUIREMENTS:
- | | |
|------|--------------|
| 2016 | 750,000 tons |
| 2017 | 750,000 tons |
| 2018 | 750,000 tons |
- G. ACTUAL TONNAGE RECEIVED:
- | | <u>KU</u> | <u>LGE</u> |
|------|--------------------------------------|-------------|
| 2016 | 596,700 tons (through 10/31/2016) | 17,804 tons |
- H. PERCENT OF ANNUAL REQUIREMENTS:
- | | |
|------|--------------------------|
| 2016 | 82% (through 10/31/2016) |
|------|--------------------------|
- I. BASE PRICE: (FOB Barge/Railcar)
- | | |
|------|--|
| 2016 | 1 st 500,000 tons \$45.75 per ton – FOB Barge Evansville \$45.75 per ton – FOB Barge Warrick Co. \$42.75 per ton – FOB Railcar |
| 2016 | Last 250,000 tons \$40.75 per ton – FOB Barge Evansville \$40.75 per ton – FOB Barge Warrick Co. \$37.75 per ton – FOB Railcar |

2017 \$41.75 per ton – FOB Barge Evansville
\$41.75 per ton – FOB Barge Warrick Co.
\$38.75 per ton – FOB Railcar

2018 \$42.75 per ton – FOB Barge Evansville
\$42.75 per ton – FOB Barge Warrick Co.
\$39.75 per ton – FOB Railcar

J. ESCALATIONS TO DATE:

2016 1st 500,000 tons
-\$8.42 per ton – FOB Barge Evansville
-\$7.49 per ton – FOB Barge Warrick Co.
-\$7.49 per ton – FOB Railcar

2016 Last 250,000 tons
-\$2.48 per ton – FOB Barge Evansville
-\$2.26 per ton – FOB Barge Warrick Co.
-\$2.26 per ton – FOB Railcar

K. CURRENT CONTRACT PRICE:

2016 Last 250,000 tons
\$38.27 per ton – FOB Barge Evansville
\$38.49 per ton – FOB Barge Warrick Co.
\$35.49 per ton – FOB Railcar

| A. NAME/ADDRESS: | Rhino Energy LLC and Pennyrile Energy LLC / J14001 424 Lewis Hargett Circle, Suite 250 Lexington, Kentucky 40503 | | | | | | | | | | | | | | | |
|---|--|--------------|-----------------|-----------|------|-------------|-------------|------|--------------|--------------|------|-------------|--------------|--|--------------------|--|
| B. PRODUCTION FACILITY: OPERATOR MINE LOCATION | Pennyrile Energy LLC Riveredge Mine McLean County, Kentucky | | | | | | | | | | | | | | | |
| C. CONTRACT EXECUTED DATE: | December 11, 2012 | | | | | | | | | | | | | | | |
| D. CONTRACT DURATION: | December 10, 2014 - December 31, 2020 | | | | | | | | | | | | | | | |
| E. CONTRACT AMENDMENTS: | None | | | | | | | | | | | | | | | |
| F. ANNUAL TONNAGE REQUIREMENTS: | 2014 150,000 tons 2015 800,000 tons 2016 800,000 tons 2017 800,000 tons 2018 – 2020 re-opener | | | | | | | | | | | | | | | |
| G. ACTUAL TONNAGE RECEIVED: | <table border="0" style="margin-left: 40px;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>LG&E</u></th> <th style="text-align: center;"><u>KU</u></th> </tr> </thead> <tbody> <tr> <td>2014</td> <td>43,582 tons</td> <td>70,647 tons</td> </tr> <tr> <td>2015</td> <td>121,084 tons</td> <td>580,770 tons</td> </tr> <tr> <td>2016</td> <td>62,122 tons</td> <td>642,673 tons</td> </tr> <tr> <td></td> <td colspan="2" style="text-align: center;">(through 10/31/16)</td> </tr> </tbody> </table> | | <u>LG&E</u> | <u>KU</u> | 2014 | 43,582 tons | 70,647 tons | 2015 | 121,084 tons | 580,770 tons | 2016 | 62,122 tons | 642,673 tons | | (through 10/31/16) | |
| | <u>LG&E</u> | <u>KU</u> | | | | | | | | | | | | | | |
| 2014 | 43,582 tons | 70,647 tons | | | | | | | | | | | | | | |
| 2015 | 121,084 tons | 580,770 tons | | | | | | | | | | | | | | |
| 2016 | 62,122 tons | 642,673 tons | | | | | | | | | | | | | | |
| | (through 10/31/16) | | | | | | | | | | | | | | | |
| H. PERCENT OF ANNUAL REQUIREMENTS: | 2014 76% 2015 88% 2016 88% (through 10/31/16) | | | | | | | | | | | | | | | |
| I. BASE PRICE (FOB Barge): | 2014 \$45.25 per ton 2015 \$46.50 per ton 2016 \$48.25 per ton 2017 \$50.00 per ton 2018 – 2020 re-opener | | | | | | | | | | | | | | | |
| J. ESCALATIONS TO DATE: | None | | | | | | | | | | | | | | | |
| K. CURRENT CONTRACT PRICE: | \$48.25 per ton | | | | | | | | | | | | | | | |

- A. NAME/ADDRESS: The American Coal Company / J16006
46226 National Road
St. Clairsville, Ohio 43950
- B. PRODUCTION FACILITY:
OPERATOR: The American Coal Company
MINES: New Era Mine
New Future Mine
LOCATION: Saline County, Illinois
- C. CONTRACT EXECUTED DATE: December 19, 2015
- D. CONTRACT DURATION: December 1, 2014 - December 31, 2019
- E. CONTRACT AMENDMENTS: Amendment No.1 effective January 1, 2016, change FOB Barge Loading Point to Sitran Dock MP 817.5 Ohio River.
Amendment No. 2 effective September 1, 2016, reduce FOB Barge Price.
- F. ANNUAL TONNAGE REQUIREMENTS
- | Year | Volume Range |
|------|----------------------------|
| 2016 | 0 – 500,000 tons |
| 2017 | 1,000,000 – 1,500,000 tons |
| 2018 | 1,000,000 – 1,500,000 tons |
| 2019 | 0 – 1,000,000 tons |
- G. ACTUAL TONNAGE RECEIVED:
- | | <u>KU</u> | <u>LGE</u> |
|------|-----------|------------|
| 2016 | 0 tons | 0 tons |
- H. PERCENT OF ANNUAL REQUIREMENTS:
- | | |
|------|----|
| 2016 | NA |
|------|----|
- I. BASE PRICE: (FOB Barge)
- | Volume Range (Cumulative) | Base Price |
|----------------------------|-----------------|
| 0 – 500,000 tons | \$43.50 per ton |
| 500,001 – 1,000,000 tons | \$44.00 per ton |
| 1,000,001 – 1,500,000 tons | \$44.75 per ton |
| 1,500,001 – 2,000,000 tons | \$45.50 per ton |
| 2,000,001 – 2,500,000 tons | \$46.50 per ton |
| 2,500,001 – 3,000,000 tons | \$47.00 per ton |
- J. ESCALATIONS TO DATE: None

K. CURRENT CONTRACT PRICE: \$43.50 per

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 16

Witness: Derek Rahn

Q-16. Provide a schedule of the present and proposed rates that LG&E seeks to change pursuant to 807 KAR 5:056, shown in comparative form.

A-16. See attached.

Louisville Gas and Electric Revised Tariffs

| Tariff Sheet No. | Rate Schedule | Existing Base Rate -- Energy, Fuel and ECR | Existing Fuel Component of Base Rates | Existing Base Rate -- Excluding Fuel Base | Revised Fuel Component of Base Rates | Revised Base Rates including Fuel and ECR |
|--------------------------|--------------------------|--|---|---|--|---|
| 5 | RS | \$ 0.08639 | \$ 0.02725 | \$ 0.05914 | \$ 0.02428 | \$ 0.08342 |
| 6 | RTOD - Energy | | | | | |
| | Off Peak | \$ 0.06128 | \$ 0.02725 | \$ 0.03403 | \$ 0.02428 | \$ 0.05831 |
| | On Peak | \$ 0.23263 | \$ 0.02725 | \$ 0.20538 | \$ 0.02428 | \$ 0.22966 |
| 7 | RTOD - Demand | \$ 0.04565 | \$ 0.02725 | \$ 0.01840 | \$ 0.02428 | \$ 0.04268 |
| 9 | VFD | 0.08639 | \$ 0.02725 | 0.05914 | \$ 0.02428 | 0.08342 |
| 10 | GS | 0.09650 | \$ 0.02725 | 0.06925 | \$ 0.02428 | 0.09353 |
| 15 | PS | | | | | |
| | Secondary | 0.04071 | \$ 0.02725 | 0.01346 | \$ 0.02428 | 0.03774 |
| | Primary | 0.03925 | \$ 0.02725 | 0.01200 | \$ 0.02428 | 0.03628 |
| 20 | TODS | 0.04049 | \$ 0.02725 | 0.01324 | \$ 0.02428 | 0.03752 |
| 22 | TODP | 0.03824 | \$ 0.02725 | 0.01099 | \$ 0.02428 | 0.03527 |
| 25 | RTS | 0.03711 | \$ 0.02725 | 0.00986 | \$ 0.02428 | 0.03414 |
| 30 | FLS | | | | | |
| | Primary | 0.03612 | \$ 0.02725 | 0.00887 | \$ 0.02428 | 0.03315 |
| | Transmission | 0.03612 | \$ 0.02725 | 0.00887 | \$ 0.02428 | 0.03315 |
| 37 | LE | 0.06934 | \$ 0.02725 | 0.04209 | \$ 0.02428 | 0.06637 |
| 38 | TE | 0.07871 | \$ 0.02725 | 0.05146 | \$ 0.02428 | 0.07574 |
| Special Contracts | | | | | | |
| | Fort Knox | 0.039100 | \$ 0.02725 | 0.01185 | \$ 0.02428 | 0.03613 |
| | Louisville Water Company | 0.038720 | \$ 0.02725 | 0.01147 | \$ 0.02428 | 0.03575 |

LIGHTING SCHEDULES; ALL RATES PER UNIT PER MONTH

| Page | Schedule | Kwh per year | Fuel Factor Increase \$/kWh (0.00297) | Annual Increase per year | Monthly Increase | Tariff | |
|------|------------------------------|------------------------------------|---|-----------------------------|---------------------|----------|----------|
| | | | | | | Existing | Revised |
| 35 | LS Lighting Service | | | | | | |
| | Overhead Service | | | | | | |
| | Rate Code Type of Fixture | Approximate Lumens kW Per Light | | | | | |
| | High Pressure Sodium | | | | | | |
| | 452 Cobra Head | 16,000 0.181 | 724 kWh/year | (2.15) | (0.18) | \$ 13.78 | \$ 13.60 |
| | 453 Cobra Head | 28,500 0.294 | 1,176 kWh/year | (3.49) | (0.29) | 16.17 | 15.88 |
| | 454 Cobra Head | 50,000 0.471 | 1,884 kWh/year | (5.60) | (0.47) | 18.61 | 18.14 |
| | 455 Directional | 16,000 0.181 | 724 kWh/year | (2.15) | (0.18) | 14.73 | 14.55 |
| | 456 Directional | 50,000 0.471 | 1,884 kWh/year | (5.60) | (0.47) | 19.44 | 18.97 |
| | 457 Open Bottom | 9,500 0.117 | 468 kWh/year | (1.39) | (0.12) | 11.93 | 11.81 |
| | Metal Halide | | | | | | |
| | 470 Directional | 12,000 0.150 | 600 kWh/year | (1.78) | (0.15) | \$ 13.81 | \$ 13.66 |
| | 473 Directional | 32,000 0.350 | 1,400 kWh/year | (4.16) | (0.35) | 19.89 | 19.54 |
| | 476 Directional | 107,800 1.080 | 4,320 kWh/year | (12.83) | (1.07) | 42.04 | 40.97 |
| 35.1 | LS Lighting Service | | | | | | |
| | Underground Service | | | | | | |
| | Rate Code Type of Fixture | Approximate Lumens kW Per Light | | | | | |
| | High Pressure Sodium | | | | | | |
| | 412 Colonial, 4 sided | 5,800 0.083 | 332 kWh/year | (0.99) | (0.08) | \$ 20.82 | \$ 20.74 |
| | 413 Colonial, 4 sided | 9,500 0.117 | 468 kWh/year | (1.39) | (0.12) | 21.56 | 21.44 |
| | 444 Colonial, 4 sided | 16,000 0.181 | 724 kWh/year | (2.15) | (0.18) | 21.69 | 21.51 |
| | 415 Acorn | 5,800 0.083 | 332 kWh/year | (0.99) | (0.08) | 21.21 | 21.13 |
| | 416 Acorn | 9,500 0.117 | 468 kWh/year | (1.39) | (0.12) | 23.63 | 23.51 |
| | 445 Acorn | 16,000 0.181 | 724 kWh/year | (2.15) | (0.18) | 23.63 | 23.45 |
| | 427 London | 5,800 0.083 | 332 kWh/year | (0.99) | (0.08) | 36.24 | 36.16 |
| | 429 London | 9,500 0.117 | 468 kWh/year | (1.39) | (0.12) | 37.15 | 37.03 |
| | 431 Victorian | 5,800 0.083 | 332 kWh/year | (0.99) | (0.08) | 33.97 | 33.89 |
| | 433 Victorian | 9,500 0.117 | 468 kWh/year | (1.39) | (0.12) | 36.07 | 35.95 |
| | 400 Dark Sky | 4,000 0.060 | 240 kWh/year | (0.71) | (0.06) | \$ 25.33 | \$ 25.27 |
| | 401 Dark Sky | 9,500 0.117 | 468 kWh/year | (1.39) | (0.12) | 25.98 | 25.86 |
| | 956 Victorian/London Bases | | | - | - | 3.56 | 3.56 |
| | 423 Cobra Head | 16,000 0.181 | 724 kWh/year | (2.15) | (0.18) | 27.32 | 27.14 |
| | 424 Cobra Head | 28,500 0.294 | 1,176 kWh/year | (3.49) | (0.29) | 29.55 | 29.26 |
| | 425 Cobra Head | 50,000 0.471 | 1,884 kWh/year | (5.60) | (0.47) | 35.27 | 34.80 |
| 35.2 | LS Lighting Service | | | | | | |
| | Underground Service | | | | | | |
| | Rate Code Type of Fixture | Approximate Lumens kW Per Light | | | | | |
| | High Pressure Sodium | | | | | | |
| | 439 Contemporary | 16,000 0.181 | 724 kWh/year | (2.15) | (0.18) | 17.42 | 17.24 |
| | 420 Contemporary | 16,000 0.181 | 724 kWh/year | (2.15) | (0.18) | 30.86 | 30.68 |
| | 440 Contemporary | 28,500 0.294 | 1,176 kWh/year | (3.49) | (0.29) | 19.37 | 19.08 |
| | 421 Contemporary | 28,500 0.294 | 1,176 kWh/year | (3.49) | (0.29) | 33.96 | 33.67 |
| | 441 Contemporary | 50,000 0.471 | 1,884 kWh/year | (5.60) | (0.47) | 23.55 | 23.08 |
| | 422 Contemporary | 50,000 0.471 | 1,884 kWh/year | (5.60) | (0.47) | 39.63 | 39.16 |
| | Metal Halide | | | | | | |
| | 479 Contemporary | 12,000 0.150 | 600 kWh/year | (1.78) | (0.15) | 15.08 | 14.93 |
| | 480 Contemporary | 12,000 0.150 | 600 kWh/year | (1.78) | (0.15) | 24.85 | 24.70 |
| | 481 Contemporary | 32,000 0.350 | 1,400 kWh/year | (4.16) | (0.35) | 21.67 | 21.32 |
| | 482 Contemporary | 32,000 0.350 | 1,400 kWh/year | (4.16) | (0.35) | 31.43 | 31.08 |
| | 483 Contemporary | 107,800 1.080 | 4,320 kWh/year | (12.83) | (1.07) | 45.01 | 43.94 |
| | 484 Contemporary | 107,800 1.080 | 4,320 kWh/year | (12.83) | (1.07) | 54.76 | 53.69 |

LIGHTING SCHEDULES; ALL RATES PER UNIT PER MONTH

| Page | Schedule | Kwh per year | Fuel Factor Increase \$/kWh (0.00297) | Annual Increase per year | Monthly Increase | Tariff | |
|------|---------------------------------|-----------------------|---|-----------------------------|---------------------|----------|-------------------|
| | | | | | | Existing | Revised |
| 36 | RLS Restricted Lighting Service | | | | | | |
| | Overhead Service | | | | | | |
| | Rate Code Type of Fixture | Approximate Lumens | kW Per Light | | | | |
| | Mercury Vapor | | | | | | |
| | 252 Cobra/Open Bottom | 8,000 | 0.210 | 840 kWh/year | (2.49) | (0.21) | \$ 10.25 \$ 10.04 |
| | 203 Cobra Head | 13,000 | 0.298 | 1,192 kWh/year | (3.54) | (0.30) | 11.69 11.39 |
| | 204 Cobra Head | 25,000 | 0.462 | 1,848 kWh/year | (5.49) | (0.46) | 14.41 13.95 |
| | 209 Cobra Head | 60,000 | 1.180 | 4,720 kWh/year | (14.02) | (1.17) | 29.46 28.29 |
| | 207 Directional | 25,000 | 0.462 | 1,848 kWh/year | (5.49) | (0.46) | 16.44 15.98 |
| | 210 Directional | 60,000 | 1.180 | 4,720 kWh/year | (14.02) | (1.17) | 30.66 29.49 |
| | 201 Open Bottom | 4,000 | 0.100 | 400 kWh/year | (1.19) | (0.10) | 8.77 8.67 |
| | Metal Halide | | | | | | |
| | 471 Directional | 12,000 | 0.150 | 600 kWh/year | (1.78) | (0.15) | \$ 16.09 \$ 15.94 |
| | 474 Directional | 32,000 | 0.350 | 1,400 kWh/year | (4.16) | (0.35) | 22.18 21.83 |
| | 475 Directional | 32,000 | 0.350 | 1,400 kWh/year | (4.16) | (0.35) | 29.64 29.29 |
| | 477 Directional | 107,800 | 1.080 | 4,320 kWh/year | (12.83) | (1.07) | 45.23 44.16 |
| 36.1 | RLS Restricted Lighting Service | | | | | | |
| | Overhead Service continued | | | | | | |
| | Rate Code Type of Fixture | Approximate Lumens | kW Per Light | | | | |
| | Wood Pole | | | | | | |
| | 958 Installed Before 3/1/2010 | | | | - | - | \$ 11.32 \$ 11.32 |
| | 900 Installed Before 7/1/2004 | | | | - | - | 2.06 2.06 |
| | Underground Service | | | | | | |
| | Rate Code Type of Fixture | Approximate Lumens | kW Per Light | | | | |
| | High Pressure Sodium | | | | | | |
| | 275 Cobra/Contemporary | 16,000 | 0.181 | 724 kWh/year | (2.15) | (0.18) | 25.86 25.68 |
| | 266 Cobra/Contemporary | 28,500 | 0.294 | 1,176 kWh/year | (3.49) | (0.29) | 28.44 28.15 |
| | 267 Cobra/Contemporary | 50,000 | 0.471 | 1,884 kWh/year | (5.60) | (0.47) | 32.64 32.17 |
| | 276 Coach/Acorn | 5,800 | 0.083 | 332 kWh/year | (0.99) | (0.08) | 15.20 15.12 |
| | 274 Coach/Acorn | 9,500 | 0.117 | 468 kWh/year | (1.39) | (0.12) | 18.26 18.14 |
| | 277 Coach/Acorn | 16,000 | 0.181 | 724 kWh/year | (2.15) | (0.18) | 23.11 22.93 |
| | 279 Contemporary | 120,000 | 1.000 | 4,000 kWh/year | (11.88) | (0.99) | 45.11 44.12 |
| | 278 Contemporary | 120,000 | 1.000 | 4,000 kWh/year | (11.88) | (0.99) | 76.24 75.25 |
| | 417 Acorn, Bronze | 9,500 | 0.117 | 468 kWh/year | (1.39) | (0.12) | 24.75 24.63 |
| | 419 Acorn, Bronze | 16,000 | 0.180 | 720 kWh/year | (2.14) | (0.18) | 26.30 26.12 |
| | 280 Victorian | 5,800 | 0.083 | 332 kWh/year | (0.99) | (0.08) | 20.41 20.33 |
| | 281 Victorian | 9,500 | 0.117 | 468 kWh/year | (1.39) | (0.12) | 21.42 21.30 |
| | 282 London | 5,800 | 0.083 | 332 kWh/year | (0.99) | (0.08) | 20.56 20.48 |
| | 283 London | 9,500 | 0.117 | 468 kWh/year | (1.39) | (0.12) | 21.89 21.77 |

LIGHTING SCHEDULES; ALL RATES PER UNIT PER MONTH

36.2 RLS Restricted Lighting Service

Underground Service

| Rate Code | Type of Fixture | Approximate Lumens | kW Per Light | | | | | | |
|------------------------|------------------------|--------------------|--------------|----------------|--------|--------|----------|----|-------|
| High Pressure Sodium | | | | | | | | | |
| 426 | London | 5,800 | 0.083 | 332 kWh/year | (0.99) | (0.08) | \$ 34.26 | \$ | 34.18 |
| 428 | London | 9,500 | 0.117 | 468 kWh/year | (1.39) | (0.12) | 35.17 | | 35.05 |
| 430 | Victorian | 5,800 | 0.083 | 332 kWh/year | (0.99) | (0.08) | 33.30 | \$ | 33.22 |
| 432 | Victorian | 9,500 | 0.117 | 468 kWh/year | (1.39) | (0.12) | 35.41 | | 35.29 |
| Victorian/London Bases | | | | | | | | | |
| 950 | Old Town | | | | - | - | 3.47 | | 3.47 |
| 951 | Chesapeake | | | | - | - | 3.73 | | 3.73 |
| Poles | | | | | | | | | |
| 901 | 10' Smooth Pole | | | | - | - | 10.82 | | 10.82 |
| 902 | 10' Fluted Pole | | | | - | - | 12.91 | | 12.91 |
| Mercury Vapor | | | | | | | | | |
| 318 | Cobra Head | 8,000 | 0.210 | 840 kWh/year | (2.49) | (0.21) | \$ 18.09 | \$ | 17.88 |
| 314 | Cobra Head | 13,000 | 0.298 | 1,192 kWh/year | (3.54) | (0.30) | 19.93 | | 19.63 |
| 315 | Cobra Head | 25,000 | 0.462 | 1,848 kWh/year | (5.49) | (0.46) | 23.85 | \$ | 23.39 |
| 347 | Cobra Head (State of K | 25,000 | 0.462 | 1,848 kWh/year | (5.49) | (0.46) | 23.84 | | 23.38 |
| 206 | Coach | 4,000 | 0.100 | 400 kWh/year | (1.19) | (0.10) | 13.08 | \$ | 12.98 |
| 208 | Coach | 8,000 | 0.210 | 840 kWh/year | (2.49) | (0.21) | 14.91 | | 14.70 |
| Incandescent | | | | | | | | | |
| 349 | Continental Jr. | 1,500 | 0.102 | 408 kWh/year | (1.21) | (0.10) | \$ 9.57 | \$ | 9.47 |
| 348 | Continental Jr. | 6,000 | 0.447 | 1,788 kWh/year | (5.31) | (0.44) | 13.93 | | 13.49 |

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 17

Witness: Derek Rahn

Q-17. Provide a statement showing by cross-outs and italicized inserts all proposed changes in rates. A copy of the current tariff may be used.

A-17. See attached.

Louisville Gas and Electric Company

P.S.C. No. 10, First Revision of Original Sheet No. 5
Canceling P.S.C. No. 10, Original Sheet No. 5

Standard Rate
RS
Residential Service

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

Available for single-phase secondary delivery to single family residential service subject to the terms and conditions on Sheet No. 100 of this Tariff.

RATE

Basic Service Charge: \$10.75 per month

Plus an Energy Charge of: \$ 0.08342 per kWh

Deleted: 0.08639

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

| | |
|--|--------------|
| Fuel Adjustment Clause | Sheet No. 85 |
| Off-System Sales Adjustment Clause | Sheet No. 88 |
| Demand-Side Management Cost Recovery Mechanism | Sheet No. 86 |
| Environmental Cost Recovery Surcharge | Sheet No. 87 |
| Franchise Fee Rider | Sheet No. 90 |
| School Tax | Sheet No. 91 |
| Home Energy Assistance Program | Sheet No. 92 |

MINIMUM CHARGE

The Basic Service Charge shall be the minimum charge.

DUE DATE OF BILL

Customer's payment will be due within sixteen (16) business days (no less than twenty-two (22) calendar days) from the date of the bill.

LATE PAYMENT CHARGE

If full payment is not received by the due date of the bill, a 3% late payment charge will be assessed on the current month's charges. Beginning October 1, 2010, residential customers who receive a pledge for or notice of low income energy assistance from an authorized agency will not be assessed or required to pay a late payment charge for the bill for which the pledge or notice is received, nor will they be assessed or required to pay a late payment charge in any of the eleven (11) months following receipt of such pledge or notice.

TERMS AND CONDITIONS

Service will be furnished under Company's Terms and Conditions applicable hereto.

DATE OF ISSUE: December 16, 2015

DATE EFFECTIVE: February 1, 2016

ISSUED BY: /s/ Edwin R. Staton, Vice President
State Regulation and Rates
Louisville, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.
2015-00222 dated December 7, 2015

Louisville Gas and Electric Company

P.S.C. No. 10, First Revision of Original Sheet No. 10
Canceling P.S.C. No. 10, Original Sheet No. 10

Standard Rate
GS
General Service Rate

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

To general lighting and small power loads for secondary service.

Service under this schedule will be limited to customers whose 12-month-average monthly maximum loads do not exceed 50 kW. Existing customers with 12-month-average maximum monthly loads exceeding 50 kW who are receiving service under P.S.C. Electric No. 6, Fourth Revision of Original Sheet No. 10 as of February 6, 2009, will continue to be served under this rate at their option. If Customer is taking service under this rate schedule and subsequently elects to take service under another rate schedule, Customer may not again take service under this rate schedule unless and until Customer meets the Availability requirements that would apply to a new customer.

RATE

Basic Service Charge: \$25.00 per month for single-phase service
\$40.00 per month for three-phase service

Plus an Energy Charge of: \$ 0.09353 per kWh

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ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

| | |
|--|--------------|
| Fuel Adjustment Clause | Sheet No. 85 |
| Off-System Sales Adjustment Clause | Sheet No. 88 |
| Demand-Side Management Cost Recovery Mechanism | Sheet No. 86 |
| Environmental Cost Recovery Surcharge | Sheet No. 87 |
| Franchise Fee Rider | Sheet No. 90 |
| School Tax | Sheet No. 91 |

DETERMINATION OF MAXIMUM LOAD

If Company determines based on Customer's usage history that Customer may be exceeding the maximum load permitted under Rate GS, Company may, at its discretion, equip Customer with a meter capable of measuring demand to determine Customer's continuing eligibility for Rate GS. If Customer is equipped with a demand-measuring meter, Customer's load will be measured and will be the average kW demand delivered to the customer during the 15-minute period of maximum use during the month.

MINIMUM CHARGE

The Basic Service Charge shall be the Minimum Charge.

DATE OF ISSUE: December 16, 2015

DATE EFFECTIVE: February 1, 2016

ISSUED BY: /s/ Edwin R. Staton, Vice President
State Regulation and Rates
Louisville, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.
2015-00222 dated December 7, 2015

Louisville Gas and Electric Company

**P.S.C. No. 10, First Revision of Original Sheet No. 15
 Canceling P.S.C. No. 10, Original Sheet No. 15**

Standard Rate **PS**
Power Service Rate

APPLICABLE
 In all territory served.

AVAILABILITY OF SERVICE
 This rate schedule is available for secondary or primary service.

Service under this schedule will be limited to customers whose 12-month-average monthly minimum secondary loads exceed 50 kW and whose 12-month-average monthly maximum loads do not exceed 250 kW. Secondary or primary customers receiving service under P.S.C. of Ky. Electric No. 6, Fourth Revision of Original Sheet No. 15, Large Commercial Rate LC, and Fourth Revision of Original Sheet No. 25, Large Power Industrial Rate LP, as of February 6, 2009, with loads not meeting these criteria will continue to be served under this rate at their option. If Customer is taking service under this rate schedule and subsequently elects to take service under another rate schedule, Customer may not again take service under this rate schedule unless and until Customer meets the Availability requirements that would apply to a new customer.

RATE

| | Secondary | Primary |
|---|-----------------------|-----------------------|
| Basic Service Charge per month: | \$90.00 | \$200.00 |
| Plus an Energy Charge per kWh of: | \$ 0.03774 | \$ 0.03628 |
| Plus a Demand Charge per kW of: | | |
| Summer Rate: (Five Billing Periods of May through September) | \$18.40 | \$ 15.92 |
| Winter Rate: (All other months) | \$15.99 | \$ 13.63 |

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Where the monthly billing demand is the greater of:
 a) the maximum measured load in the current billing period but not less than 50 kW for secondary service or 25 kW for primary service, or
 b) a minimum of 50% of the highest billing demand in the preceding eleven (11) monthly billing periods, or
 c) a minimum of 60% of the contract capacity based on the maximum load expected on the system or on facilities specified by Customer.

DATE OF ISSUE: December 16, 2015

DATE EFFECTIVE: February 1, 2016

ISSUED BY: /s/ Edwin R. Staton, Vice President
 State Regulation and Rates
 Louisville, Kentucky

**Issued by Authority of an Order of the
 Public Service Commission in Case No.
 2015-00222 dated December 7, 2015**

Louisville Gas and Electric Company

**P.S.C. No. 10, First Revision of Original Sheet No. 30
Canceling P.S.C. No. 10, Original Sheet No. 30**

Standard Rate **FLS**
Fluctuating Load Service

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

Available for primary or transmission service to customers up to an aggregate of two hundred (200) MVA for all customers taking service under this schedule and under the Fluctuating Load Service FLS schedule of Kentucky Utilities Company. This schedule is restricted to individual customers whose monthly demand is twenty (20) MVA or greater. A customer is defined as a fluctuating load if that customer's load either increases or decreases twenty (20) MVA or more per minute or seventy (70) MVA or more in ten (10) minutes when such increases or decreases exceed one (1) occurrence per hour during any hour of the billing month.

Subject to the above aggregate limit of two hundred (200) MVA, this schedule is mandatory for all customers whose load is defined as fluctuating and not served on another standard rate schedule as of July 1, 2004.

BASE RATE

| | Primary | Transmission | |
|--|-------------------|-------------------|--|
| Basic Service Charge per month: | \$1,000.00 | \$1,000.00 | |
| Plus an Energy Charge per kWh of: | \$ <u>0.03315</u> | \$ <u>0.03315</u> | |
| Plus a Maximum Load Charge per kVA of: | | | |
| Peak Demand Period | \$ 3.42 | \$ 3.42 | |
| Intermediate Demand Period | \$ 2.37 | \$ 2.37 | |
| Base Demand Period | \$ 2.37 | \$ 1.62 | |

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Where:

- the monthly billing demand for the Peak and Intermediate Demand Periods is the greater of:
- a) the maximum measured load in the current billing period, or
 - b) a minimum of 50% of the highest billing demand in the preceding eleven (11) monthly billing periods, and
- the monthly billing demand for the Base Demand Period is the greater of:
- a) the maximum measured load in the current billing period but not less than 20,000 kVA, or
 - b) a minimum of 75% of the highest billing demand in the preceding eleven (11) monthly billing periods, or
 - c) a minimum of 75% of the contract capacity based on the maximum load expected on the system or on facilities specified by Customer.

DATE OF ISSUE: December 16, 2015

DATE EFFECTIVE: February 1, 2016

ISSUED BY: /s/ Edwin R. Staton, Vice President
State Regulation and Rates
Louisville, Kentucky

**Issued by Authority of an Order of the
Public Service Commission in Case No.
2015-00222 dated December 7, 2015**

Louisville Gas and Electric Company

P.S.C. No. 10, First Revision of Original Sheet No. 35
Canceling P.S.C. No. 10, Original Sheet No. 35

Standard Rate **LS**
Lighting Service

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

Service under this rate schedule is offered under the conditions set out hereinafter for lighting applications such as, but not limited to, the illumination of street, driveways, yards, lots, and other outdoor areas where secondary voltage of 120/240 is available.

Service will be provided under written contract, signed by customer prior to service commencing, when additional facilities are required.

Units marked with an asterisk (*) are not available for use in residential neighborhoods except by municipal authorities.

OVERHEAD SERVICE

Based on Customer's lighting choice, Company will furnish, own, install, and maintain the lighting unit. A basic overhead service includes lamp, fixture, photoelectric control, mast arm, and, if needed, up to 150 feet of conductor per fixture on existing wood poles (fixture only). Company will, upon request furnish ornamental poles, of Company's choosing, together with overhead wiring and all other equipment mentioned for basic overhead service.

RATE

| Rate Code | Type of Fixture | Approximate Lumens | kW Per Light | Monthly Charge Fixture Only |
|-----------------------------|-----------------|--------------------|--------------|-----------------------------|
| High Pressure Sodium | | | | |
| 452 | Cobra Head | 16,000 | 0.181 | \$13.60 |
| 453 | Cobra Head | 28,500 | 0.294 | 15.88 |
| 454 | Cobra Head | 50,000* | 0.471 | 18.14 |
| | | | | |
| 455 | Directional | 16,000 | 0.181 | \$14.55 |
| 456 | Directional | 50,000* | 0.471 | 18.97 |
| | | | | |
| 457 | Open Bottom | 9,500 | 0.117 | \$11.81 |
| Metal Halide | | | | |
| 470 | Directional | 12,000 | 0.150 | \$13.66 |
| 473 | Directional | 32,000 | 0.350 | 19.54 |
| 476 | Directional | 107,800* | 1.080 | 40.97 |

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Should Customer request underground service, Customer shall make a non-refundable cash contribution prior to the time of installation, or, at the option of Company, make a work contribution to Company for the difference in the installed cost of the system requested and the cost of the overhead lighting system.

DATE OF ISSUE: December 16, 2015

DATE EFFECTIVE: February 1, 2016

ISSUED BY: /s/ Edwin R. Staton, Vice President
State Regulation and Rates
Louisville, Kentucky

**Issued by Authority of an Order of the
Public Service Commission in Case No.
2015-00222 dated December 7, 2015**

Louisville Gas and Electric Company

P.S.C. No. 10, First Revision of Original Sheet No. 35.1
Canceling P.S.C. No. 10, Original Sheet No. 35.1

Standard Rate **LS**
Lighting Service

Where the location of existing poles is not suitable or where there are no existing poles for mounting of lights, and customer requests service under these conditions, Company may furnish the requested facilities at an additional charge to be determined under the Excess Facilities Rider. For wood poles installed prior to 3/1/2010, such charge will be in accordance with the rates listed on Sheet No. 36.1 of the Restricted Lighting Service Rate RLS Tariff.

UNDERGROUND SERVICE

Based on Customer's lighting choice, Company will furnish, own, install, and maintain poles, fixtures, and any necessary circuitry up to 200 feet. All poles and fixtures furnished by Company will be standard stocked materials. Company may decline to install equipment and provide service thereto in locations deemed by Company as unsuitable for underground installation.

| RATE | Rate Code | Type of Fixture | Approximate Lumens | kW Per Light | Monthly Charge | |
|-----------------------------|-----------|------------------------|--------------------|--------------|--------------------|--------------------------------|
| | | | | | Decorative Smooth | Historic Fluted |
| High Pressure Sodium | | | | | | |
| | 412 | Colonial, 4-Sided | 5,800 | 0.083 | \$20.74 | |
| | 413 | Colonial, 4-Sided | 9,500 | 0.117 | 21.44 | |
| | 444 | Colonial, 4-Sided | 16,000 | 0.181 | 21.51 | |
| | 415 | Acorn | 5,800 | 0.083 | \$21.13 | |
| | 416 | Acorn | 9,500 | 0.117 | 23.51 | |
| | 445 | Acorn | 16,000 | 0.181 | 23.45 | |
| | 427 | London | 5,800 | 0.083 | | \$36.16 |
| | 429 | London | 9,500 | 0.117 | | 37.03 |
| | 431 | Victorian | 5,800 | 0.083 | | \$33.89 |
| | 433 | Victorian | 9,500 | 0.117 | | 35.95 |
| | 400 | Dark Sky | 4,000 | 0.060 | \$25.27 | |
| | 401 | Dark Sky | 9,500 | 0.117 | 25.86 | |
| | 956 | Victorian/London Bases | | | | Westchester/Norfolk \$ 3.56 |
| | 423 | Cobra Head | 16,000 | 0.181 | \$27.14 | |
| | 424 | Cobra Head | 28,500 | 0.294 | 29.26 | |
| | 425 | Cobra Head | 50,000* | 0.471 | 34.80 | |

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DATE OF ISSUE: December 16, 2015

DATE EFFECTIVE: February 1, 2016

ISSUED BY: /s/ Edwin R. Staton, Vice President
State Regulation and Rates
Louisville, Kentucky

Issued by Authority of an Order of the
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2015-00222 dated December 7, 2015

Louisville Gas and Electric Company

P.S.C. No. 10, First Revision of Original Sheet No. 35.2
Canceling P.S.C. No. 10, Original Sheet No. 35.2

Standard Rate LS
Lighting Service

UNDERGROUND SERVICE (continued)

| RATE | Rate Code | Type of Fixture | Approximate Lumens | kW Per Light | Monthly Charge | |
|-----------------------------|-----------|-----------------|--------------------|--------------|--------------------|--------------------|
| | | | | | Fixture Only | Decorative Smooth |
| High Pressure Sodium | | | | | | |
| | 439/420 | Contemporary | 16,000 | 0.181 | \$17.24 | \$30.68 |
| | 440/421 | Contemporary | 28,500* | 0.294 | 19.08 | 33.67 |
| | 441/422 | Contemporary | 50,000* | 0.471 | 23.08 | 39.16 |
| Metal Halide | | | | | | |
| | 479/480 | Contemporary | 12,000 | 0.150 | \$14.93 | \$24.70 |
| | 481/482 | Contemporary | 32,000 | 0.350 | 21.32 | 31.08 |
| | 483/484 | Contemporary | 107,800* | 1.080 | 43.94 | 53.69 |

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Customer shall make a non-refundable cash contribution prior to the time of installation, or, at the option of company, make a work contribution to Company for the difference in the installed cost of the system requested and the cost of the conventional overhead lighting system.

Where Customer's location would require the installation of additional facilities, Company may furnish, own, and maintain the requested facilities at an additional charge per month to be determined under the Excess Facilities Rider.

DUE DATE OF BILL

Customer's payment will be due within sixteen (16) business days (no less than twenty-two (22) calendar days) from the date of the bill. Billing for this service to be made a part of bill rendered for other electric service.

DETERMINATION OF ENERGY CONSUMPTION

The kilowatt-hours will be determined as set forth on Sheet No. 67 of this Tariff

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

| | |
|---------------------------------------|--------------|
| Fuel Adjustment Clause | Sheet No. 85 |
| Off-System Sales Adjustment Clause | Sheet No. 88 |
| Environmental Cost Recovery Surcharge | Sheet No. 87 |
| Franchise Fee Rider | Sheet No. 90 |
| School Tax | Sheet No. 91 |

DATE OF ISSUE: December 16, 2015

DATE EFFECTIVE: February 1, 2016

ISSUED BY: /s/ Edwin R. Staton, Vice President
State Regulation and Rates
Louisville, Kentucky

**Issued by Authority of an Order of the
Public Service Commission in Case No.
2015-00222 dated December 7, 2015**

Louisville Gas and Electric Company

P.S.C. No. 10, First Revision of Original Sheet No. 36
Canceling P.S.C. No. 10, Original Sheet No. 36

Standard Rate **RLS**
Restricted Lighting Service

APPLICABLE
In all territory served.

AVAILABILITY OF SERVICE
Service under this rate schedule is restricted to those lighting fixtures/poles in service as of January 1, 2013, except where a spot replacement maintains the continuity of multiple fixtures/poles composing a neighborhood lighting system or continuity is desired for a subdivision being developed in phases. Spot placement of restricted fixtures/poles is contingent on the restricted fixtures/poles being available from manufacturers. Spot replacement of restricted units will be made under the terms and conditions provided for under non-restricted Lighting Service Rate LS.

In the event restricted fixtures/poles fail and replacements are unavailable, Customer will be given the choice of having Company remove the failed fixture/pole or replacing the failed fixture/pole with other available fixture/pole

OVERHEAD SERVICE
Based on Customer's lighting choice, Company has furnished, installed, and maintained the lighting unit complete with lamp, fixture, photoelectric control, mast arm, and, if needed, up to 150 feet of conductor per fixture on existing wood poles (fixture only).

| RATE | | | | Monthly Charge | | |
|----------------------|-------------------|--------------------|--------------|--------------------|---------------------|---------------------|
| Rate Code | Type of Fixture | Approximate Lumens | kW Per Light | Fixture Only | Fixture & Wood Pole | Fixture & Orn. Pole |
| Mercury Vapor | | | | | | |
| 252 | Cobra/Open Bottom | 8,000 | 0.210 | \$10.04 | | |
| 203 | Cobra Head | 13,000 | 0.298 | 11.39 | | |
| 204 | Cobra Head | 25,000 | 0.462 | 13.95 | | |
| 209 | Cobra Head | 60,000 | 1.180 | 28.29 | | |
| 207 | Directional | 25,000 | 0.462 | \$15.98 | | |
| 210 | Directional | 60,000 | 1.180 | 29.49 | | |
| 201 | Open Bottom | 4,000 | 0.100 | \$ 8.67 | | |
| Metal Halide | | | | | | |
| 471 | Directional | 12,000 | 0.150 | \$15.94 | N/A | |
| 474/475 | Directional | 32,000 | 0.350 | 21.83 | 29.29 | |
| 477 | Directional | 107,800 | 1.080 | 44.16 | N/A | |

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- Deleted: 8.77
- Deleted: 16.09
- Deleted: 22.18
- Deleted: 29.64
- Deleted: 45.23

DATE OF ISSUE: December 16, 2015

DATE EFFECTIVE: February 1, 2016

ISSUED BY: /s/ Edwin R. Staton, Vice President
State Regulation and Rates
Louisville, Kentucky

**Issued by Authority of an Order of the
Public Service Commission in Case No.
2015-00222 dated December 7, 2015**

Louisville Gas and Electric Company

P.S.C. No. 10, First Revision of Original Sheet No. 36.1
Canceling P.S.C. No. 10, Original Sheet No. 36.1

Standard Rate RLS
Restricted Lighting Service

OVERHEAD SERVICE (continued)

| RATE | | Monthly Charge |
|------------------|---------------------------|----------------|
| Rate Code | | |
| Wood Pole | | |
| 958 | Installed Before 3/1/2010 | \$11.32 |
| 900 | Installed Before 7/1/2004 | 2.06 |

UNDERGROUND SERVICE

Based on Customer's lighting choice, Company has furnished, installed, and maintained the lighting unit complete with lamp, fixture, photoelectric control, mast arm, and, if needed, up to 200 feet of conductor per fixture on appropriate poles.

| RATE | Type of Fixture | Approximate Lumens | kW Per Light | Monthly Charge | |
|-----------------------------|--------------------|--------------------|--------------|--------------------|--------------------|
| | | | | Fixture Only | Decorative Smooth |
| High Pressure Sodium | | | | | |
| 275 | Cobra/Contemporary | 16,000 | 0.181 | | \$25.68 |
| 266 | Cobra/Contemporary | 28,500 | 0.294 | | 28.15 |
| 267 | Cobra Contemporary | 50,000 | 0.471 | | 32.17 |
| 276 | Coach/Acorn | 5,800 | 0.083 | | \$15.12 |
| 274 | Coach/Acorn | 9,500 | 0.117 | | 18.14 |
| 277 | Coach/Acorn | 16,000 | 0.181 | | 22.93 |
| 279/278 | Contemporary | 120,000 | 1.000 | \$44.12 | \$75.25 |
| 417 | Acorn, Bronze | 9,500 | 0.117 | | \$24.63 |
| 419 | Acorn, Bronze | 16,000 | 0.180 | | 26.12 |
| 280 | Victorian | 5,800 | 0.083 | \$20.33 | |
| 281 | Victorian | 9,500 | 0.117 | 21.30 | |
| 282 | London | 5,800 | 0.083 | \$20.48 | |
| 283 | London | 9,500 | 0.117 | 21.77 | |

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- Deleted: 20.41
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- Deleted: 20.56
- Deleted: 21.89

DATE OF ISSUE: December 16, 2015

DATE EFFECTIVE: February 1, 2016

ISSUED BY: /s/ Edwin R. Staton, Vice President
State Regulation and Rates
Louisville, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.
2015-00222 dated December 7, 2015

Louisville Gas and Electric Company

P.S.C. No. 10, First Revision of Original Sheet No. 36.2
Canceling P.S.C. No. 10, Original Sheet No. 36.2

Standard Rate RLS
Restricted Lighting Service

UNDERGROUND SERVICE (continued)

| RATE | Rate Code | Type of Fixture | Approximate Lumens | kW Per Light | Monthly Charge | |
|-------------------------------|-----------|--------------------------|--------------------|--------------|----------------|--------------------|
| | | | | | Fixture Only | Decorative Smooth |
| High Pressure Sodium | | | | | | |
| | 426 | London | 5,800 | 0.083 | | \$34.18 |
| | 428 | London | 9,500 | 0.117 | | 35.05 |
| | 430 | Victorian | 5,800 | 0.083 | | 33.22 |
| | 432 | Victorian | 9,500 | 0.117 | | 35.29 |
| Victorian/London Bases | | | | | | |
| | 950 | Old Town | | | | \$ 3.47 |
| | 951 | Chesapeake | | | | 3.73 |
| Poles | | | | | | |
| | 901 | 10" Smooth Pole | | | | 10.82 |
| | 902 | 10" Fluted Pole | | | | 12.91 |
| Mercury Vapor | | | | | | |
| | 318 | Cobra Head | 8,000 | 0.210 | | \$17.88 |
| | 314 | Cobra Head | 13,000 | 0.298 | | 19.63 |
| | 315 | Cobra Head | 25,000 | 0.462 | | 23.39 |
| | 347 | Cobra (State of KY Pole) | 25,000 | 0.462 | \$23.84 | |
| | 206 | Coach | 4,000 | 0.100 | | \$12.98 |
| | 208 | Coach | 8,000 | 0.210 | | 14.70 |
| Incandescent | | | | | | |
| | 349 | Continental Jr. | 1,500 | 0.102 | | \$ 9.47 |
| | 348 | Continental Jr. | 6,000 | 0.447 | | 13.49 |

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Where Customer's location required the installation of additional facilities, Company may have furnished the requested facilities at an additional charge per month to be determined under the Excess Facilities Rider.

DUE DATE OF BILL

Payment is due within sixteen (16) business days (no less than twenty-two (22) calendar days) from the date of the bill. Billing for this service to be made a part of the bill rendered for other electric service.

DATE OF ISSUE: December 16, 2015

DATE EFFECTIVE: February 1, 2016

ISSUED BY: /s/ Edwin R. Staton, Vice President
State Regulation and Rates
Louisville, Kentucky

**Issued by Authority of an Order of the
Public Service Commission in Case No.
2015-00222 dated December 7, 2015**

Louisville Gas and Electric Company

P.S.C. No. 10, First Revision of Original Sheet No. 37
Canceling P.S.C. No. 10, Original Sheet No. 37

Standard Rate

LE
Lighting Energy Service

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

Available to municipalities, county governments, divisions or agencies of the state or Federal governments, civic associations, and other public or quasi-public agencies for service to public street and highway lighting systems, where the municipality or other agency owns and maintains all street lighting equipment and other facilities on its side of the point of delivery of the energy supplied hereunder.

RATE

~~\$0.06637~~, per kWh

Deleted: 0.06934

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

| | |
|---------------------------------------|--------------|
| Fuel Adjustment Clause | Sheet No. 85 |
| Off-System Sales Adjustment Clause | Sheet No. 88 |
| Environmental Cost Recovery Surcharge | Sheet No. 87 |
| Franchise Fee Rider | Sheet No. 90 |
| School Tax | Sheet No. 91 |

DUE DATE OF BILL

Customer's payment will be due within sixteen (16) business days (no less than twenty-two (22) calendar days) from the date of the bill.

CONDITIONS OF DELIVERY

1. Service hereunder will be metered except when, by mutual agreement of Company and customer, an unmetered installation will be more satisfactory from the standpoint of both parties. In the case of unmetered service, billing will be based on a calculated consumption taking into account the types of equipment served.
2. The location of the point of delivery of the energy supplied hereunder and the voltage at which such delivery is effected shall be mutually agreed upon by Company and the customer in consideration of the type and size of customer's street lighting system and the voltage which Company has available for delivery.

TERMS AND CONDITIONS

Service will be furnished under Company's Terms and Conditions applicable hereto.

DATE OF ISSUE: December 16, 2015

DATE EFFECTIVE: February 1, 2016

Louisville Gas and Electric Company

P.S.C. No. 10, First Revision of Original Sheet No. 38
Canceling P.S.C. No. 10, Original Sheet No. 38

Standard Rate

TE
Traffic Energy Service

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

Available to municipalities, county governments, divisions of the state or Federal governments or any other governmental agency for service on a 24-hour all-day every-day basis, where the governmental agency owns and maintains all equipment on its side of the point of delivery of the energy supplied hereunder. In the application of this rate each point of delivery will be considered as a separate customer.

This service is limited to traffic control devices including, signals, cameras, or other traffic lights and electronic communication devices.

RATE

Basic Service Charge: \$4.00 per delivery per month

Plus an Energy Charge of: ~~\$0.07574~~ per kWh

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ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

| | |
|---------------------------------------|--------------|
| Fuel Adjustment Clause | Sheet No. 85 |
| Off-System Sales Adjustment Clause | Sheet No. 88 |
| Environmental Cost Recovery Surcharge | Sheet No. 87 |
| Franchise Fee Rider | Sheet No. 90 |
| School Tax | Sheet No. 91 |

MINIMUM CHARGE

The Basic Service Charge shall be the minimum charge.

DUE DATE OF BILL

Customer's payment will be due within sixteen (16) business days (no less than twenty-two (22) calendar days) from the date of the bill.

DATE OF ISSUE: December 16, 2015

DATE EFFECTIVE: February 1, 2016

ISSUED BY: /s/ Edwin R. Staton, Vice President
State Regulation and Rates
Louisville, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.
2015-00222 dated December 7, 2015

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 18

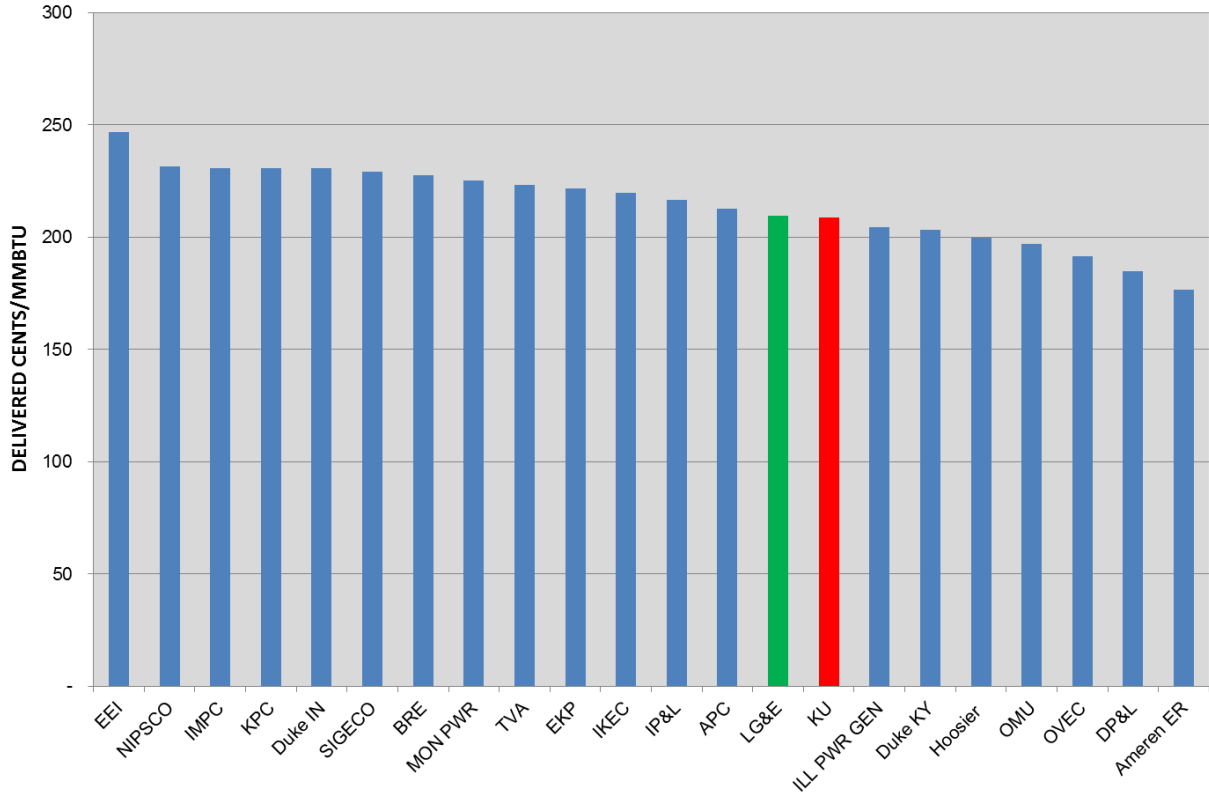
Witness: Delbert Billiter

- Q-18. a. State whether LG&E regularly compares the price of its coal purchases with those paid by other electric utilities.
- b. If yes, state:
- (1) How LG&E's prices compare with those of other utilities. If the comparison includes months outside of the review period, a comparison limited to the review period should be provided separately. Provide a copy of the source documents and calculations used to support the amounts used in the comparison and include all prices used in the comparison in cents per MMBtu; and
 - (2) The utilities that are included in this comparison and their locations.
- A-18. a. Yes.
- b. LG&E compares pricing of its coal purchases with neighboring utilities from data that is compiled by the ABB Inc. Ventyx Velocity database from the EIA-923 Power Plant Operations Report. The utilities included in the comparison are shown on the list found on page 1 and the chart found on page 2 (the supporting data is contained on page 3 - 6) of the Attachment to this response for the period of May 1, 2016 through October 31, 2016.

Attachment to Response to Question No. 18

| Utilities in Comparison List | | |
|--|--------------------|------------------------------|
| UTILITY | ABBREVIATED | PLANT LOCATIONS |
| AmerenEnergy Generating Co | Ameren ER | Illinois |
| Big Rivers Electric Corp | BRE | Kentucky |
| Appalachian Power Co | APC | Virginia, West Virginia |
| Dayton Power & Light Co (The) | DP&L | Ohio |
| Duke Energy Indiana | Duke IN | Indiana |
| Duke Energy Kentucky | Duke KY | Ohio |
| East Kentucky Power Coop | EKP | Kentucky |
| Electric Energy Inc | EEI | Illinois |
| Hoosier Energy Rural Electric Coop Inc | Hoosier | Indiana |
| Illinois Power Generating Co | ILL PWR GEN | Illinois |
| Indiana Kentucky Electric Corp | IKEC | Indiana |
| Indiana Michigan Power Co | IMPC | Indiana |
| Indianapolis Power & Light | IP&L | Indiana |
| Kentucky Power Co | KPC | Kentucky |
| Kentucky Utilities Co | KU | Kentucky |
| Louisville Gas & Electric Co | LG&E | Kentucky |
| Monongahela Power Co | MON PWR | West Virginia |
| Northern Indiana Public Service Co | NIPSCO | Indiana |
| Ohio Valley Electric Corp | OVEC | Ohio |
| Owensboro Municipal Utilities | OMU | Kentucky |
| Southern Indiana Gas & Electric Co | SIGECO | Indiana |
| Tennessee Valley Authority | TVA | Alabama, Kentucky, Tennessee |

Utility Price Comparison May 16 - Oct 16



DELIVERED PRICE COMPARISON (MAY 2016 - OCTOBER 2016)

| Plant Operator Name | Reported Source Name | Quantity (000s tons) | Btu/lb | lbsSO2/mmBtu | Delivered Fuel Price Cents/mmBtu |
|--------------------------------------|-----------------------------|----------------------|--------|--------------|----------------------------------|
| AmerenEnergy Resources Generating Co | PEABODY COAL SALES | 623 | 8800 | 0.45 | 195.18 |
| AmerenEnergy Resources Generating Co | ARCH | 739 | 8945 | 0.56 | 162.48 |
| | | 1,362 | 8878 | 0.51 | 176.62 |
| Appalachian Power Co | SOUTHWESTERN ENERGY SERVICE | 23 | 12497 | 1.38 | 230.60 |
| Appalachian Power Co | SOUTHERN COAL SALES CORP | 149 | 12132 | 1.37 | 230.18 |
| Appalachian Power Co | CONTURA ENERGY INC | 28 | 13148 | 4.03 | 222.56 |
| Appalachian Power Co | CONSOLIDATION COAL CO | 801 | 12788 | 5.59 | 237.43 |
| Appalachian Power Co | CONSOL | 84 | 12976 | 3.97 | 160.13 |
| Appalachian Power Co | BLACKHAWK MINING LLC | 201 | 12399 | 1.43 | 221.17 |
| Appalachian Power Co | AMERICAN ENERGY | 1,764 | 12582 | 6.81 | 190.94 |
| Appalachian Power Co | ALPHA COAL | 910 | 12233 | 1.61 | 233.63 |
| | | 3,960 | 12529 | 4.78 | 212.84 |
| Big Rivers Electric Corp | TTCP PETCOKE | 17 | 14150 | 7.35 | 145.50 |
| Big Rivers Electric Corp | RHINO ENERGY | 124 | 11383 | 4.58 | 214.44 |
| Big Rivers Electric Corp | RHINO | 59 | 11369 | 4.54 | 214.87 |
| Big Rivers Electric Corp | PEABODY COAL SALES | 190 | 11106 | 5.63 | 231.68 |
| Big Rivers Electric Corp | KENAMERICA RESOURCES | 247 | 11802 | 4.84 | 215.89 |
| Big Rivers Electric Corp | FORESIGHT COAL SALES | 132 | 11002 | 6.01 | 178.50 |
| Big Rivers Electric Corp | ALLIANCE COAL | 843 | 11818 | 5.32 | 241.75 |
| | | 1,613 | 11640 | 5.28 | 227.44 |
| Dayton Power & Light Co (The) | WILLIAMSON ENERGY | 816 | 11842 | 4.73 | 220.05 |
| Dayton Power & Light Co (The) | WHITE OAK RESOURCES LLC | 378 | 11895 | 4.26 | 205.05 |
| Dayton Power & Light Co (The) | TUNNEL RIDGE LLC | 65 | 12605 | 4.23 | 178.37 |
| Dayton Power & Light Co (The) | TRAFIGURA | 201 | 11804 | 4.35 | 178.24 |
| Dayton Power & Light Co (The) | RIVER TRADING | 47 | 11853 | 2.33 | 166.43 |
| Dayton Power & Light Co (The) | NOBLE ENERGY MARKETING | 8 | 12030 | 1.48 | 172.10 |
| Dayton Power & Light Co (The) | NOBLE AMERICAS GAS & POWER | 7 | 12005 | 1.53 | 172.20 |
| Dayton Power & Light Co (The) | MERCURIA | 53 | 11846 | 4.75 | 174.42 |
| Dayton Power & Light Co (The) | KOLMAR AMERICAS INC | 16 | 11534 | 2.07 | 155.72 |
| Dayton Power & Light Co (The) | FORESIGHT COAL SALES | 250 | 11842 | 4.74 | 187.74 |
| Dayton Power & Light Co (The) | EMERALD | 13 | 11818 | 2.41 | 168.08 |
| Dayton Power & Light Co (The) | CONSOL | 108 | 12930 | 4.28 | 167.17 |
| Dayton Power & Light Co (The) | COLONA | 136 | 12907 | 4.29 | 167.24 |
| Dayton Power & Light Co (The) | COAL NETWORK | 71 | 12006 | 2.13 | 167.28 |
| Dayton Power & Light Co (The) | AMERICAN COAL | 76 | 11844 | 4.48 | 153.58 |
| Dayton Power & Light Co (The) | ALPHA COAL | 423 | 13085 | 4.51 | 151.56 |
| Dayton Power & Light Co (The) | ALLIANCE COAL | 344 | 12322 | 4.80 | 160.10 |
| | | 3,012 | 12183 | 4.43 | 184.95 |
| Duke Energy Indiana | WISE ENERGY GROUPLLC | 3 | 12010 | 1.02 | 222.20 |
| Duke Energy Indiana | SUNRISE COAL SALES | 23 | 11505 | 6.12 | 260.30 |
| Duke Energy Indiana | SOLAR SOURCES | 529 | 11330 | 4.41 | 192.93 |
| Duke Energy Indiana | PEABODY COAL SALES | 2,451 | 11127 | 4.88 | 201.39 |
| Duke Energy Indiana | MODELED - SOLAR SOURCES | 323 | 11321 | 4.43 | 192.80 |
| Duke Energy Indiana | FOSSIL COALLLC | 9 | 11187 | 1.50 | 201.70 |
| Duke Energy Indiana | DUKE ENERGY | 265 | 11684 | 5.20 | 319.71 |
| Duke Energy Indiana | DOMINION | 5 | 11521 | 1.18 | 201.40 |
| Duke Energy Indiana | COECLERICI COAL NETWORK | 16 | 11680 | 1.30 | 206.14 |
| Duke Energy Indiana | BLACKHAWK MINING LLC | 15 | 12005 | 1.32 | 214.60 |
| Duke Energy Indiana | BLACK BEAUTY | 953 | 11490 | 6.14 | 209.94 |
| Duke Energy Indiana | ALLIANCE COAL | 702 | 11615 | 2.30 | 367.66 |
| | | 5,293 | 11324 | 4.68 | 230.64 |

DELIVERED PRICE COMPARISON (MAY 2016 - OCTOBER 2016)

| Plant Operator Name | Reported Source Name | Quantity (000s tons) | Btu/lb | lbsSO2/mmBtu | Delivered Fuel Price Cents/mmBtu |
|--|-------------------------|----------------------|--------|--------------|----------------------------------|
| Duke Energy Kentucky | RIVER VIEW COAL | 411 | 11490 | 5.16 | 223.99 |
| Duke Energy Kentucky | RHINO ENERGY | 16 | 11356 | 4.54 | 184.40 |
| Duke Energy Kentucky | PEABODY COAL TRADE | 5 | 12398 | 3.21 | 177.16 |
| Duke Energy Kentucky | FORESIGHT COAL SALES | 80 | 11212 | 5.72 | 201.02 |
| Duke Energy Kentucky | CONTURA ENERGY INC | 30 | 12993 | 4.70 | 195.15 |
| Duke Energy Kentucky | CONSOL | 171 | 12951 | 3.90 | 184.06 |
| Duke Energy Kentucky | ARMSTRONG COAL | 76 | 11747 | 4.72 | 187.12 |
| Duke Energy Kentucky | ALPHA COAL | 69 | 13113 | 4.45 | 194.57 |
| Duke Energy Kentucky | ALLIANCE COAL | 77 | 12594 | 4.41 | 180.20 |
| | | 934 | 12016 | 4.79 | 203.33 |
| East Kentucky Power Coop | WHITE OAK RESOURCES LLC | 122 | 11534 | 4.86 | 253.02 |
| East Kentucky Power Coop | WHITE COUNTY COAL | 122 | 11464 | 5.17 | 266.08 |
| East Kentucky Power Coop | RIVER VIEW COAL | 170 | 11878 | 4.81 | 241.53 |
| East Kentucky Power Coop | PEABODY COAL SALES | 174 | 11103 | 5.58 | 239.55 |
| East Kentucky Power Coop | PATRIOT COAL SALES | 16 | 11545 | 5.13 | 219.90 |
| East Kentucky Power Coop | OXFORD MINING CO | 396 | 11449 | 6.50 | 193.82 |
| East Kentucky Power Coop | NALLY & HAMILTON | 20 | 12450 | 3.01 | 232.30 |
| East Kentucky Power Coop | FORESIGHT COAL SALES | 302 | 11828 | 4.76 | 227.68 |
| East Kentucky Power Coop | BOWIE REFINED COAL | 100 | 11710 | 3.58 | 226.22 |
| East Kentucky Power Coop | BLACKHAWK MINING LLC | 25 | 12351 | 3.11 | 227.10 |
| East Kentucky Power Coop | B & W RESOURCES | 37 | 12011 | 2.33 | 289.13 |
| East Kentucky Power Coop | B & N COAL | 234 | 11200 | 7.95 | 179.38 |
| East Kentucky Power Coop | ALLIANCE COAL | 26 | 12601 | 4.21 | 219.68 |
| | | 1,746 | 11565 | 5.54 | 221.90 |
| Electric Energy Inc | NORTH ANTELOPE | 16 | 8520 | 0.42 | 243.85 |
| Electric Energy Inc | BLACK THUNDER WEST | 95 | 8661 | 0.72 | 231.75 |
| Electric Energy Inc | BLACK THUNDER ARCH | 287 | 8699 | 0.54 | 231.75 |
| Electric Energy Inc | BELLAYRE | 48 | 8520 | 0.56 | 216.55 |
| Electric Energy Inc | ANTELOPE | 383 | 8673 | 0.54 | 265.89 |
| | | 828 | 8669 | 0.56 | 246.81 |
| Hoosier Energy Rural Electric Coop Inc | SUNRISE COAL SALES | 652 | 11712 | 5.75 | 203.68 |
| Hoosier Energy Rural Electric Coop Inc | PEABODY COAL SALES | 767 | 11122 | 5.49 | 196.59 |
| | | 1,418 | 11393 | 5.61 | 199.94 |
| Illinois Power Generating Co | PEABODY COAL SALES | 968 | 8754 | 0.44 | 200.70 |
| Illinois Power Generating Co | CLOUD PEAK | 35 | 8851 | 0.61 | 231.80 |
| Illinois Power Generating Co | BLACK THUNDER WEST | 52 | 8884 | 0.61 | 231.80 |
| Illinois Power Generating Co | BLACK THUNDER ARCH | 123 | 8821 | 0.62 | 231.80 |
| Illinois Power Generating Co | BELLAYRE | 463 | 8752 | 0.49 | 200.70 |
| | | 1,642 | 8765 | 0.48 | 204.34 |
| Indiana Kentucky Electric Corp | RESOURCE FUELS | 488 | 11491 | 5.15 | 259.64 |
| Indiana Kentucky Electric Corp | KNIGHTHAWK | 457 | 11207 | 5.24 | 197.92 |
| Indiana Kentucky Electric Corp | FORESIGHT COAL SALES | 201 | 11356 | 5.45 | 190.56 |
| | | 1,146 | 11354 | 5.24 | 223.24 |

DELIVERED PRICE COMPARISON (MAY 2016 - OCTOBER 2016)

| Plant Operator Name | Reported Source Name | Quantity (000s tons) | Btu/lb | lbsSO2/mmBtu | Delivered Fuel Price Cents/mmBtu |
|------------------------------|-------------------------|----------------------|--------------|--------------|----------------------------------|
| Indiana Michigan Power Co | RWE TRADING AMERICASINC | 39 | 11972 | 1.57 | 245.65 |
| Indiana Michigan Power Co | PEABODY COAL SALES | 1,821 | 8718 | 0.48 | 227.16 |
| Indiana Michigan Power Co | NOBLE GAS MARKETING | 19 | 12141 | 1.42 | 223.80 |
| Indiana Michigan Power Co | NOBLE ENERGY MARKETING | 113 | 12066 | 1.52 | 225.21 |
| Indiana Michigan Power Co | CLOUD PEAK | 181 | 8841 | 0.53 | 213.86 |
| Indiana Michigan Power Co | ARCH | 245 | 8932 | 0.61 | 215.59 |
| Indiana Michigan Power Co | ALPHA COAL | 230 | 12165 | 1.34 | 273.93 |
| | | 2,649 | 9262 | 0.64 | 230.82 |
| Indianapolis Power & Light | TRIAD | 179 | 11631 | 5.95 | 206.50 |
| Indianapolis Power & Light | SUNRISE COAL SALES | 284 | 11818 | 5.50 | 220.80 |
| Indianapolis Power & Light | COALSALES LLC | 988 | 11278 | 5.52 | 218.43 |
| Indianapolis Power & Light | COAL SALES | 178 | 11340 | 5.71 | 218.09 |
| Indianapolis Power & Light | ALLIANCE COAL | 198 | 11717 | 2.40 | 209.25 |
| | | 1,828 | 11450 | 5.24 | 216.57 |
| Kentucky Power Co | NOBLE GAS MARKETING | 11 | 12200 | 1.46 | 223.70 |
| Kentucky Power Co | NOBLE ENERGY MARKETING | 90 | 11977 | 1.52 | 228.15 |
| Kentucky Power Co | CONSOLIDATION COAL CO | 668 | 12674 | 6.24 | 202.75 |
| Kentucky Power Co | ALPHA COAL | 588 | 12137 | 1.37 | 264.52 |
| | | 1,358 | 12391 | 3.78 | 230.76 |
| Kentucky Utilities Co | TRIAD | 321 | 11615 | 6.01 | 260.84 |
| Kentucky Utilities Co | RHINO ENERGY | 397 | 11380 | 4.59 | 229.29 |
| Kentucky Utilities Co | PEABODY COAL TRADE | 34 | 10143 | 2.30 | 148.24 |
| Kentucky Utilities Co | KOLMAR AMERICAS INC | 29 | 10348 | 1.65 | 172.10 |
| Kentucky Utilities Co | FORESIGHT COAL SALES | 347 | 11766 | 4.70 | 197.91 |
| Kentucky Utilities Co | EAGLE RIVER COAL | 86 | 12669 | 6.14 | 192.79 |
| Kentucky Utilities Co | COALSALES LLC | 370 | 11178 | 5.65 | 213.53 |
| Kentucky Utilities Co | BOWIE | 23 | 11960 | 3.08 | 254.42 |
| Kentucky Utilities Co | ARMSTRONG COAL | 871 | 11283 | 5.73 | 173.01 |
| Kentucky Utilities Co | AMERICAN COAL | 250 | 11747 | 4.21 | 221.19 |
| Kentucky Utilities Co | ALLIANCE COAL | 444 | 11511 | 4.49 | 226.02 |
| | | 3,171 | 11459 | 5.12 | 208.72 |
| Louisville Gas & Electric Co | RHINO ENERGY | 33 | 11346 | 4.68 | 228.07 |
| Louisville Gas & Electric Co | PEABODY COAL TRADE | 21 | 10026 | 2.35 | 147.95 |
| Louisville Gas & Electric Co | KOLMAR AMERICAS INC | 20 | 10269 | 1.66 | 173.27 |
| Louisville Gas & Electric Co | FORESIGHT COAL SALES | 138 | 11816 | 4.63 | 195.70 |
| Louisville Gas & Electric Co | EAGLE RIVER COAL | 54 | 12643 | 5.74 | 193.26 |
| Louisville Gas & Electric Co | COALSALES LLC | 18 | 11101 | 5.65 | 178.58 |
| Louisville Gas & Electric Co | ARMSTRONG COAL | 571 | 11277 | 5.78 | 178.11 |
| Louisville Gas & Electric Co | ARCH | 158 | 8925 | 0.58 | 217.77 |
| Louisville Gas & Electric Co | AMERICAN COAL | 199 | 11726 | 4.22 | 219.21 |
| Louisville Gas & Electric Co | ALLIANCE COAL | 2,067 | 11760 | 5.51 | 218.49 |
| | | 3,279 | 11526 | 5.16 | 209.43 |

DELIVERED PRICE COMPARISON (MAY 2016 - OCTOBER 2016)

| Plant Operator Name | Reported Source Name | Quantity (000s tons) | Btu/lb | lbsSO2/mmBtu | Delivered Fuel Price Cents/mmBtu |
|------------------------------------|-------------------------------|----------------------|--------|--------------|----------------------------------|
| Monongahela Power Co | TUNNEL RIDGE LLC | 98 | 12604 | 4.29 | 333.26 |
| Monongahela Power Co | MEPCO OPERATIONS | 509 | 12074 | 4.58 | 217.47 |
| Monongahela Power Co | FIRSTENERGY | 449 | 12916 | 5.32 | 172.25 |
| Monongahela Power Co | CONSOL | 2,522 | 12484 | 5.47 | 237.62 |
| Monongahela Power Co | ARCH | 2 | 12985 | 1.82 | 140.20 |
| Monongahela Power Co | AMERICAN ENERGY | 1,344 | 12589 | 7.08 | 206.88 |
| Monongahela Power Co | ALLIANCE COAL | 328 | 12592 | 4.45 | 238.94 |
| | | 5,252 | 12517 | 5.70 | 225.43 |
| Northern Indiana Public Service Co | SUNRISE COAL SALES | 468 | 11672 | 5.69 | 228.73 |
| Northern Indiana Public Service Co | PEABODY COAL SALES | 406 | 8786 | 0.45 | 228.70 |
| Northern Indiana Public Service Co | CONSOL | 148 | 12932 | 3.90 | 216.01 |
| Northern Indiana Public Service Co | COALSALES LLC | 754 | 10968 | 5.06 | 254.48 |
| Northern Indiana Public Service Co | ARCH | 682 | 8998 | 0.55 | 212.52 |
| Northern Indiana Public Service Co | ALLIANCE COAL | 46 | 11740 | 4.24 | 197.40 |
| | | 2,503 | 10340 | 3.12 | 231.51 |
| Ohio Valley Electric Corp | AMERICAN ENERGY | 1,163 | 12297 | 6.77 | 191.41 |
| | | 1,163 | 12297 | 6.77 | 191.41 |
| Owensboro Municipal Utilities | WEST KY MINERALS | 156 | 11218 | 4.93 | 195.00 |
| Owensboro Municipal Utilities | PEABODY COAL SALES | 84 | 11222 | 6.82 | 197.28 |
| Owensboro Municipal Utilities | KENAMERICA RESOURCES | 40 | 11743 | 4.85 | 195.54 |
| Owensboro Municipal Utilities | ARMSTRONG | 186 | 11868 | 4.53 | 199.00 |
| | | 467 | 11523 | 5.11 | 197.09 |
| Southern Indiana Gas & Electric Co | SUNRISE COAL SALES | 672 | 11601 | 5.99 | 229.15 |
| | | 672 | 11601 | 5.99 | 229.15 |
| Tennessee Valley Authority | PEABODY COAL TRADE | 11 | 11050 | 4.83 | 247.00 |
| Tennessee Valley Authority | PEABODY COAL SALES | 2,519 | 10063 | 2.06 | 204.96 |
| Tennessee Valley Authority | MR COAL MARKETING & TRADINGLL | 46 | 12321 | 1.66 | 215.34 |
| Tennessee Valley Authority | MR COAL MARKETING | 58 | 12279 | 1.74 | 215.62 |
| Tennessee Valley Authority | KOPPER GLO | 82 | 12838 | 1.97 | 223.10 |
| Tennessee Valley Authority | KENAMERICA RESOURCES | 786 | 11775 | 4.84 | 202.32 |
| Tennessee Valley Authority | FORESIGHT COAL SALES | 521 | 11770 | 4.69 | 219.22 |
| Tennessee Valley Authority | EDF TRADING | 24 | 13100 | 1.16 | 280.56 |
| Tennessee Valley Authority | COECLERICI COAL NETWORK | 15 | 8761 | 0.75 | 172.12 |
| Tennessee Valley Authority | CLOUD PEAK | 744 | 8865 | 0.52 | 197.71 |
| Tennessee Valley Authority | BLACKHAWK MINING LLC | 59 | 12657 | 1.41 | 236.35 |
| Tennessee Valley Authority | B & W RESOURCES | 43 | 12251 | 1.79 | 242.94 |
| Tennessee Valley Authority | ARMSTRONG COAL | 1,037 | 11772 | 4.64 | 230.63 |
| Tennessee Valley Authority | ARCH | 3,943 | 8905 | 0.67 | 195.07 |
| Tennessee Valley Authority | ALPHA COAL | 23 | 12197 | 1.49 | 283.38 |
| Tennessee Valley Authority | ALLIANCE COAL | 1,470 | 11759 | 4.93 | 264.81 |
| Tennessee Valley Authority | ALLIANCE COAL | 957 | 12541 | 4.99 | 267.10 |
| | | 12,338 | 10406 | 2.59 | 219.63 |

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 19

Witness: Delbert Billiter

Q-19. For the period under review by generating station, list the percentages of LG&E's coal delivered by:

- a. Rail;
- b. Truck;
- c. Barge;
- d. Other (specify)

A-19. **Mill Creek Station**

- a. Rail – 79%
- b. Truck - NA
- c. Barge – 21%

Trimble County Station

- a. Rail – NA
- b. Truck – NA
- c. Barge – 100%

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 20

Witness: Delbert Billiter

Q-20. For each generating station, state the methods of coal delivery currently available.

A-20.

- a. Mill Creek – Rail and Barge
- b. Trimble County - Barge

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 21

Witness: Delbert Billiter

- Q-21. a. State LG&E's coal inventory level in tons and in number of days' supply as of October 31, 2016. Provide this information by generating station and in the aggregate.
- b. Describe the criteria used to determine the number of days' supply.
- c. Compare LG&E's coal inventory as of October 31, 2016 to its inventory target for that date for each plant and for total inventory.
- d. If actual coal inventory exceeds inventory target by 10 days' supply, state the reasons for the additional inventory.
- e. (1) State whether LG&E expects any significant changes in its current coal inventory target within the next 12 months.
- (2) If the response is yes, state the expected change and the reasons for this change.

A-21. a. As of October 31, 2016:

| | | |
|-----------------|-------------------------|-------------------|
| Mill Creek | 799,322 Tons; 54 Days | Target 20-43 Days |
| Trimble County* | 428,746 Tons; 75 Days | Target 21-44 Days |
| Total | 1,228,068 Tons; 58 Days | Target 19-41 Days |

* Trimble County coal inventory includes both high sulfur coal, which is used in Units 1 and 2, and PRB coal, which is used only in Unit 2.

- 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 rating from its air permit to operate).

Upper and lower tons/day targeted inventory days were established for each plant taking into consideration each plant's operating parameters. Each plants "least cost" inventory range is established annually during the planning process based on historical coal burn/receipt variances, procurement reaction time for long-term fuel supply agreements, current coal and electricity prices offset by carrying and outage costs.

- c. See (a) above.
- d. A combination of low load and low gas prices caused system coal consumption to be lower than budget before and during the review period. Increased gas generation, primarily due to CR7, displaced coal-fired generation during the review period.
- e. (1) LG&E does not expect significant changes in 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 First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 22

Witness: Delbert Billiter

Q-22. a. State whether LG&E has audited any of its coal contracts during the period from May 1, 2016 to October 31, 2016.

b. If the response is yes, for each audited contract:

(1) Identify the contract;

(2) Identify the auditor;

(3) State the results of the audit; and

(4) Describe the actions that LG&E took as a result of the audit.

A-22. a.

a. No. LG&E has not conducted any financial audits of coal companies. LG&E's current coal contracts either contain a fixed price or a portion of the base contract price is adjusted using government published indices to reflect the changes in the cost. These agreements thus do not require audits. Either LG&E's Manager Fuels Technical Services or LG&E's 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, LG&E employees may visit a vendor as needed to address problems and issues at any time.

As noted in previous filings, governmental impositions may be imposed on the mining industry. As claims for governmental impositions are received, LG&E reviews and may use consultants to review the claims.

Alliance Coal, LLC in accordance with the provisions of Section 8.3 New Impositions of Agreement J09002, requested a price increase for calendar year 2015. The Parties agreed to a settlement. A copy of the Settlement Agreement effective December 1, 2016 is being filed with the Commission under seal pursuant to a Petition for Confidential Protection.

Alliance Coal, LLC in accordance with the provisions of Section 8.3 New Impositions of Agreement J12007, requested a price increase for calendar year 2015. The Parties agreed to a settlement. A copy of the Settlement Agreement effective December 1, 2016 is being filed with the Commission under seal pursuant to a Petition for Confidential Protection.

Alliance Coal, LLC in accordance with the provisions of Section 8.4 New Impositions of Agreement J13004, requested a price increase for calendar year 2015. The Parties agreed to a settlement. A copy of the Settlement Agreement effective December 1, 2016 is being filed with the Commission under seal pursuant to a Petition for Confidential Protection.

Alliance Coal, LLC in accordance with the provisions of Section 8.4 New Impositions of Agreement J14011, requested a price increase for calendar year 2015. The Parties agreed to a settlement. A copy of the Settlement Agreement effective December 1, 2016 is being filed with the Commission under seal pursuant to a Petition for Confidential Protection.

b. Not applicable.

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 23

Witness: Derek Rahn

- Q-23. a. State whether LG&E has received any customer complaints regarding its FAC during the period from May 1, 2016 to October 31, 2016.
- b. If the response is yes, for each complaint, state:
- (1) The nature of the complaint; and
 - (2) LG&E's response.
- A-23. a. No.
- b. Not applicable.

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 24

Witness: Delbert Billiter

- Q-24. a. State whether LG&E is currently involved in any litigation with its current or former coal suppliers.
- b. If the response is yes, for each litigation:
- (1) Identify the coal supplier;
 - (2) Identify the coal 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.
- c. State the current status of all litigation with coal suppliers.
- A-24. a. LG&E is not involved in any litigation with its coal suppliers.
- b. Not applicable.
- c. Not applicable.

LOUISVILLE GAS AND ELECTRIC COMPANY

**Response to Commission Staff's First Request for Information
in Appendix B of Commission's Order Dated February 6, 2017**

Case No. 2017-00004

Question No. 25

Witness: Delbert Billiter

- Q-25. List each written coal supply solicitation issued during the period May 1, 2016 to October 31, 2016.
- a. For each solicitation, provide the date of the solicitation (contract or spot), the quantities solicited, a general description of the quality of coal solicited, the time period over which deliveries were requested, and the generating unit(s) for which the coal was intended.
 - b. For each solicitation, state the number of vendors to whom the solicitation was sent, the number of vendors who responded, and the selected vendor. Provide the bid tabulation sheet or corresponding document that ranks the proposals. (This document shall identify all vendors who made offers.) State the reasons for each selection. For each lowest-cost bid not selected, explain why the bid was not selected.

A-25. SOLICITATION 1

The final selection of the vendors who responded to the solicitation dated March 2, 2016 was completed for middlings spot order for 2017 and was filed in Case No. 2016-00233. The selection of vendors for 2017 and beyond was not completed at the time the data responses were filed for high sulfur coal. The requested information for the selected vendors is provided below for the high sulfur coal purchased for 2017 – 2020.

- a. Date: March 2, 2016
Contract/Spot: Contract or Spot
Quantities: No minimum or maximum specified
Quality: Suitable for KU's Ghent Station and LG&E's Trimble County and Mill Creek Stations
Period: April through December 2016 – Spot
2017 and beyond - Contract
Generating Units: KU's Ghent Station and LG&E's Trimble County and Mill Creek Stations

- b. Number of vendors receiving bids: 122
Number of vendors responded: 22 companies / 46 offers
Selected vendor(s): The vendor(s) selected were based upon the lowest evaluated delivered cost.

High Sulfur Term

Alliance Coal, LLC – J17005, J18003
The American Coal Company – J17004
Armstrong Coal Sales – J18002

The bid analysis information is confidential and proprietary information and is being filed with the Commission under seal pursuant to a Petition for Confidential Protection.

SOLICITATION 2

- a. Date: September 20, 2016
Contract/Spot: Contract or Spot
Quantities: No minimum or maximum specified
Quality: Suitable for KU's Ghent Station and LG&E's Trimble County and Mill Creek Stations
Period: 2018 and beyond - Contract
Generating Units: KU's Ghent Station and LG&E's Trimble County and Mill Creek Stations
- b. Number of vendors receiving bids: 123
Number of vendors responded: 14 companies / 23 offers
Selected vendor(s): Will be provided once the process is complete.

The final selection of the vendor(s) for high sulfur coal for the period of 2018 - 2020 from the bids are in negotiations and are still in progress. The name of the selected vendors and supporting bid tabulation will be provided to the Commission after the negotiations are completed and the agreements signed.

The bid analysis information is confidential and proprietary information and is being filed with the Commission under seal pursuant to a Petition for Confidential Protection.

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Case No. 2017-00004

Question No. 26

Witness: Delbert Billiter

- Q-26. List each oral solicitation for coal supplies issued during the period from May 1, 2016 to October 31, 2016.
- a. For each solicitation, state why the solicitation was not written, the date(s) of the solicitation, the quantities solicited, a general description of the quality of coal solicited, the time period over which deliveries were requested, and the generating unit(s) for which the coal was intended.
 - b. For each solicitation, identify all vendors solicited and the vendor selected. Provide the bid tabulation sheet or other document that ranks the proposals. (This document shall identify all vendors who made offers.) State the reasons for each selection. For each lowest-cost bid not selected, explain why the bid was not selected.
- A-26. LG&E did not issue any oral solicitation.
- a. Not applicable.
 - b. Not applicable.

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Case No. 2017-00004

Question No. 27

Witness: Delbert Billiter

Q-27. For the period from May 1, 2016 to October 31, 2016, list each vendor from whom coal was purchased and the quantity and nature of each purchase (e.g., spot or contract). For the period under review in total, provide the percentage of purchases that were spot versus contract.

A-27.

| <u>VENDOR</u> | <u>PURCHASE TONNAGE</u> | <u>TYPE</u> |
|------------------------------------|-----------------------------|--------------|
| Alliance Coal LLC - J12007 | 1,197,207 | Contract |
| Alliance Coal LLC - J16001B | 413,482 | Contract |
| Alliance Coal LLC - J16004 | 456,185 | Spot |
| Armstrong Coal Company - J07032 | 175,632 | Contract |
| Armstrong Coal Company - J14004 | 221,033 | Contract |
| Armstrong Coal Company - J14010 | 4,727 | Contract |
| Armstrong Coal Company - J16003 | 198,895 | Contract |
| Armstrong Coal Company - J16017 | 69,982 | Contract |
| Peabody COALSALES LLC - J16007 | 17,804 | Contract |
| Eagle River Coal LLC - J16005 | 54,259 | Contract |
| Foresight Coal Sales LLC - J16009 | 138,492 | Spot |
| Kolmar Americas - J19019 | 20,177 | Spot |
| Peabody Coaltrade LLC - J16016 | 21,022 | Spot |
| Rhino Energy LLC - J14001 | 32,568 | Contract |
| The American Coal Company - J16002 | 198,760 | Spot |
| | <u>3,220,226</u> | |
| | 2,385,589 | 74% Contract |
| | <u>834,637</u> | 26% Spot |
| | 3,220,226 | |

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Case No. 2017-00004

Question No. 28

Witness: Charles R. Schram

- Q-28. For the period from May 1, 2016 to October 31, 2016, list each vendor from whom natural gas was purchased for generation and the quantity and nature of each purchase (e.g., spot or contract). For the period under review in total, provide the percentage of purchases that were spot versus contract.
- A-28. See the attachment for the list of vendors, associated quantities, and the nature of the natural gas purchases. KU has contracted with Texas Gas Pipeline for long-term firm gas transport for both LG&E and KU combustion turbine generation.

Beginning in July 2016, a portion of the natural gas used to fuel the Cane Run 7 combined cycle unit was purchased on a forward basis. Other than those forward purchases and the purchases made pursuant to the Special Contract referenced below, natural gas was purchased on an 'as-needed' spot market basis. The Special Contract and the contracts for long-term firm gas transport have been filed with the Commission.

Purchases from Louisville Gas and Electric Company are primarily for LG&E-owned coal and gas fired generation and are made in accordance with a Special Contract under 807 KAR 5:011 Section 13.¹ Additionally, purchases from Columbia Gas are for KU-owned generation served by the local distribution company.

¹ The Special Contract for Firm Gas Sales and Firm Transportation Service dated September 28, 2007 and effective April 11, 2008, between Louisville Gas and Electric Company, on behalf of its Gas Distribution Business, and Louisville Gas and Electric Company and Kentucky Utilities Company, on behalf of their Electric Generation Business, was approved by the Kentucky Public Service Commission in Case No. 2007-00449.

KU and LG&E have joint ownership in the following combustion turbine and combined cycle units:

| Station | Units | KU Ownership | LG&E Ownership |
|----------------|----------------|--------------|----------------|
| Trimble County | 5 and 6 | 71% | 29% |
| Trimble County | 7, 8, 9 and 10 | 63% | 37% |
| Brown | 5 | 47% | 53% |
| Paddy's Run | 13 | 47% | 53% |
| Brown | 6 and 7 | 62% | 38% |
| Cane Run | 7 | 78% | 22% |

Fuel expenses for actual commodity used and associated pipeline transport charges, if any, are allocated to the Companies based on their respective ownership percentages.

| <u>Vendor</u> | <u>Type</u> | <u>MMBtu</u> |
|---------------------------------------|--------------------|-------------------------|
| Anadarko Energy Services Company | Spot | 44,200 |
| Atmos Energy Marketing, LLC | Spot | 143,031 |
| BG Energy Merchants, LLC | Spot | 310,600 |
| BP Energy Company | Spot | 4,467,098 |
| Cargill, Inc. | Spot | 45,000 |
| CIMA Energy, LTD | Spot | 419,522 |
| Colonial Energy, Inc. | Spot | 136,100 |
| Columbia Gas of Kentucky, Inc. | GSO Customer* | 4,742 |
| ConocoPhillips Company | Spot | 76,600 |
| Direct Energy Business Marketing, | Spot | 139,900 |
| DTE Energy Trading, Inc. | Spot | 1,090,233 |
| Eco-Energy, LLC | Spot | 66,000 |
| EDF Trading North America, LLC | Spot | 37,900 |
| Exelon Generation Company, LLC | Spot | 534,600 |
| Laclede Energy Resources, Inc. | Spot | 302,501 |
| Macquarie Energy, LLC | Spot | 101,300 |
| Mercuria Energy America, Inc. | Spot | 118,500 |
| Mercuria Energy Gas Trading LLC | Spot | 214,700 |
| NextEra Energy Power Marketing, LLC | Spot | 600 |
| NJR Energy Services Company | Spot | 165,509 |
| Range Resources - Appalachia, LLC | Spot | 456,028 |
| Sequent Energy Management, L.P. | Spot | 2,039,300 |
| Shell Energy North America (US), L.P. | Spot | 443,100 |
| SWN Energy Services Company, LLC | Spot | 30,000 |
| Tenaska Marketing Ventures | Spot | 13,058,894 |
| Tennessee Valley Authority | Spot | 100,000 |
| Twin Eagle Resource Management, LLC | Spot | 195,300 |
| United Energy Trading, LLC | Spot | 13,796 |
| Vitol Inc. | Spot | 10,000 |
| LG&E Gas Supply | Special Contract** | 166,999 |
| EDF Trading North America, LLC | Forward | 1,850,000 |
| Mercuria Energy America, Inc. | Forward | 610,000 |
| Sequent Energy Management, L.P. | Forward | 310,000 |
| | Total Volume | 27,702,053 MMBtu |

*KU is a General Sales Customer of Columbia Gas of Kentucky for the Haefling Plant; no volume purchase commitments.

**LG&E is the local gas distribution company; no volume purchase commitments.

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Question No. 29

Witness: Charles R. Schram / Delbert Billiter

Q-29. State whether LG&E engages in hedging activities for its coal or natural gas purchases used for generation. If the response is yes, describe the hedging activities in detail.

A-29. LG&E does not engage in financial hedging activities for its coal or natural gas purchases.

LG&E does use physical hedging in contracting for coal. LG&E uses the following guidelines in utilization of coal under contract for the minimum projected requirement:

| | |
|-------------|-----------|
| 1 year out | 95 – 100% |
| 2 years out | 80 – 90% |
| 3 years out | 40 – 90% |
| 4 years out | 30 – 70% |
| 5 years out | 10 – 50% |
| 6 years out | 0 – 30% |

LG&E also uses physical hedging in contracting for natural gas. LG&E began to purchase a portion of the natural gas for the Cane Run 7 combined cycle unit on a forward basis beginning in July 2016. For the current year, the Company's practice targets purchasing no more than 50 percent of the forecasted burn at CR7. Longer-term, LG&E uses the following guidelines for the purchase of natural gas under contract for the minimum projected Cane Run 7 requirement:

| | |
|-------------|----------|
| 1 year out | 10 – 50% |
| 2 years out | 0 – 30% |
| 3 years out | 0 – 10% |

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Case No. 2017-00004

Question No. 30

Witness: Delbert Billiter / Stuart A. Wilson

Q-30. For each generating station or unit for which a separate coal pile is maintained, state for the period from May 1, 2016 to October 31, 2016 the actual amount of coal burned in tons, actual amount of coal deliveries in tons, total kWh generated, and actual capacity factor at which the plant operated.

A-30. The information requested from May 1, 2016 to October 31, 2016 is shown in the table below:

| Plant | Coal Burn (Tons) | Coal Receipts (Tons) | Net MWh | Capacity Factor (Net MWh)/ (period hrs x MW rating) |
|--------------------|---------------------|-------------------------|-----------|--|
| Mill Creek | 1,804,534 | 1,661,685 | 4,060,229 | 62.8% |
| Trimble County HS | N/A | 1,558,541 | N/A | N/A |
| Trimble County PRB | N/A | 157,603 | N/A | N/A |
| Trimble County 1 | 803,353 | N/A | 1,750,200 | 80.4% |
| Trimble County 2 | 767,906 | N/A | 1,778,998 | 55.0% |

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.

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Question No. 31

Witness: Stuart A. Wilson

Q-31. For each natural gas generating unit, state for the period from May 1, 2016, to October 31, 2016, the actual amount of natural gas burned, total kWh generated, and actual capacity factor at which the plant operated.

A-31. The information requested from May 1, 2016 to October 31, 2016 is shown in the table below:

| Unit | Gas Burn (MCF) | Net MWh | Capacity Factor (Net MWh)/ (period hrs x MW rating) |
|------------------|-------------------|-----------|--|
| Cane Run 7 | 17,290,067 | 2,604,339 | 89.1% |
| Bluegrass/EKPC | 274,544 | 25,048 | 3.4% |
| Brown 5 | 217,918 | 16,603 | 2.9% |
| Brown 6 | 192,570 | 17,382 | 2.7% |
| Brown 7 | 185,874 | 16,701 | 2.6% |
| Cane Run 11 | 3,704 | 15 | 0.0% |
| Paddys Run 11&12 | 4,561 | 130 | 0.1% |
| Paddys Run 13 | 994,785 | 93,010 | 14.3% |
| Trimble Co 5 | 851,170 | 73,287 | 10.4% |
| Trimble Co 6 | 544,871 | 48,085 | 6.8% |
| Trimble Co 7 | 965,833 | 84,282 | 12.0% |
| Trimble Co 8 | 162,333 | 14,325 | 2.0% |
| Trimble Co 9 | 1,178,770 | 105,994 | 15.1% |
| Trimble Co 10 | 879,388 | 77,477 | 11.0% |
| Zorn 1 | 2,042 | 85 | 0.1% |

Notes: 1 – Values for jointly owned units reflect 100% of the unit.
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.

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Case No. 2017-00004

Question No. 32

Witness: Charles R. Schram / Delbert Billiter

Q-32. a. During the period from May 1, 2016 to October 31, 2016, have there been any changes to LG&E's written policies and procedures regarding its fuel procurement?

b. If yes,

(1) Describe the changes;

(2) State the date(s) the changes were made;

(3) Explain why the changes were made; and

(4) Provide the written policies and procedures as changed.

c. If no, provide the date when LG&E's current fuel procurement policies and procedures were last changed, when they were last provided to the Commission, and identify the proceeding in which they were provided.

A-32. a. No changes were made during the period referenced above to the Corporate Fuels and By-Products Procurement Procedures or to the Power Supply Commodity Policy – Natural Gas Fuel for Generation.

b. Not applicable.

The Corporate Fuels and By-Products Procurement Procedures were last changed effective August 1, 2015 and were provided to the Commission in response to Question No. 15 in Case No. 2016-00004. The Power Supply Commodity Policy – Natural Gas Fuel for Generation was effective February 1, 2016, and was provided to the Commission in response to Question No. 15 in Case No. 2016-00004.

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Case No. 2017-00004

Question No. 33

Witness: Delbert Billiter

- Q-33. a. 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 from May 1, 2016 to October 31, 2016.
- b. If the response is yes, for each violation:
- (1) Describe the violation;
 - (2) Describe the action(s) that LG&E took upon discovering the violation; and
 - (3) Identify the person(s) who committed the violation.
- A-33. a. No.
- b. Not applicable.

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Case No. 2017-00004

Question No. 34

Witness: Charles R. Schram / Delbert Billiter

Q-34. Identify and explain the reasons for all changes in the organizational structure and personnel of the departments or divisions that are responsible for LG&E's fuel procurement activities that occurred during the period from May 1, 2016, to October 31, 2016.

A-34. Changes that occurred in the Corporate Fuels and By-Products Department:

Yvette Rhoads, Senior Secretary left the company September 6, 2016.

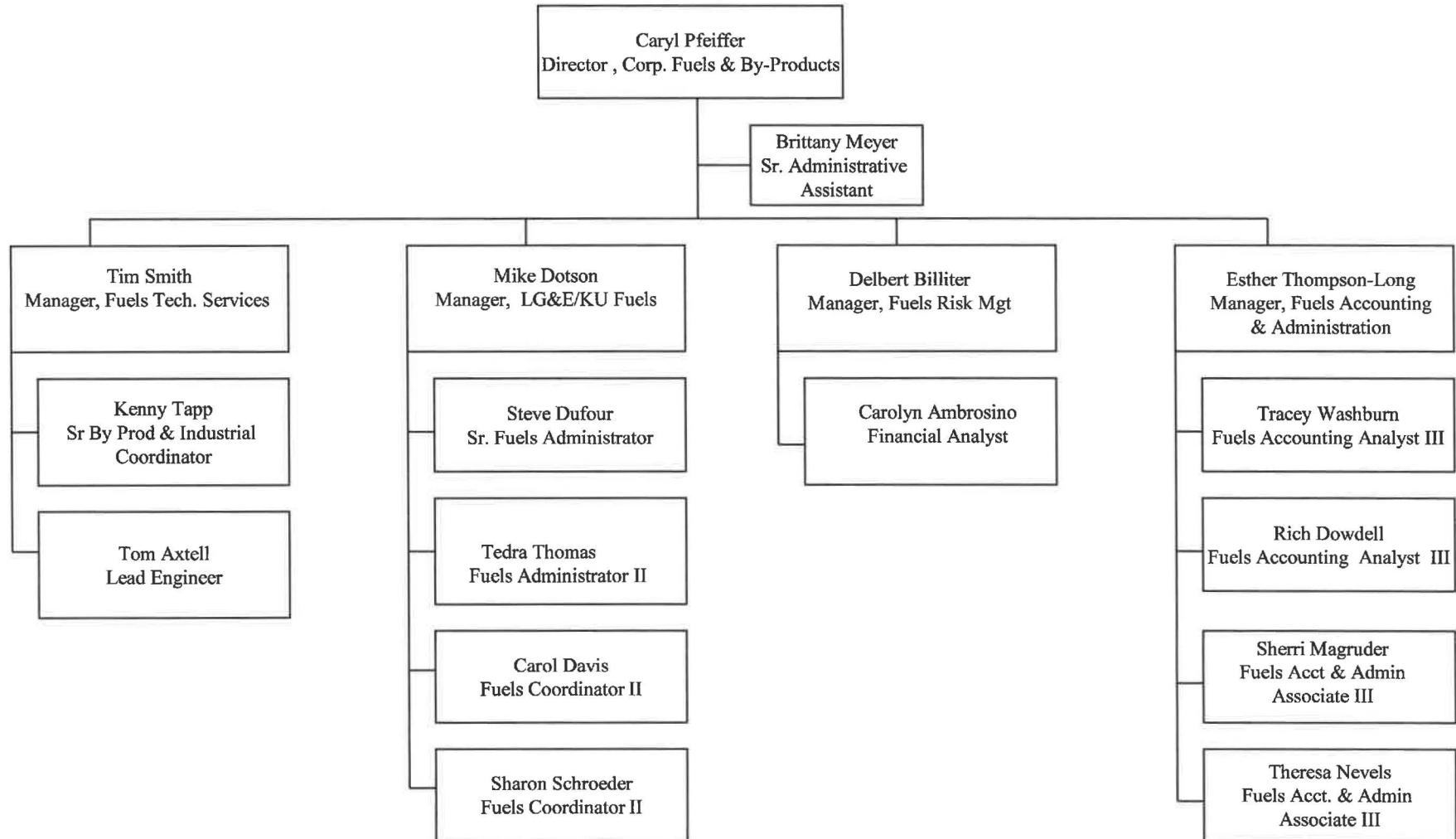
Brittany Meyer joined the department as Senior Administrative Assistant on December 28, 2016.

See attached organization chart dated December 2016 for Corporate Fuels and By-Products.

The Power Supply department has no organizational or personnel changes to report.

Corporate Fuels and By-Products

December, 2016



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Case No. 2017-00004

Question No. 35

Witness: Eileen L. Saunders

Q-35. a. Identify all changes that LG&E made during the period from May 1, 2016 to October 31, 2016 to its maintenance and operation practices that affect fuel usage at LG&E's generation facilities.

b. Describe the impact of these changes on LG&E's fuel usage.

A-35.

a. None

b. Not applicable

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Case No. 2017-00004

Question No. 36

Witness: Derek Rahn

- Q-36. a. List all intersystem sales during the period from May 1, 2016 to October 31, 2016 in which LG&E used a third party's transmission system.
- b. For each sale listed above:
- (1) Describe the effect on the FAC calculation of line losses related to intersystem sales when using a third party's transmission system; and
 - (2) State the line-loss factor used for each transaction and describe how such line-loss factor was determined.
- A-36. a. There were no inter-system sales from May 1, 2016 through October 31, 2016, which required a third party's transmission system.
- b. Not applicable.

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Question No. 37

Witness: Derek Rahn

- Q-37. a. Describe the effect on the FAC calculation of line losses related to intersystem sales when not using a third party's transmission system.
- b. Describe each change that LG&E made to its methodology for calculating intersystem sales line losses during the period from May 1, 2016 to October 31, 2016.

A-37.

- a. LG&E continues to use a line loss factor of 0.5% to determine the cost of fuel associated with line losses incurred to make an intersystem sale and recovered from such sale consistent with the Commission's June 7, 2013, Amended Order in Case No. 2012-00553.
- b. There have been no changes regarding the calculation of losses associated with intersystem sales.

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Question No. 38

Witness: Delbert Billiter

- Q-38. State whether LG&E has solicited bids for coal with the restriction that it was not mined through strip mining or mountain top removal. If the response is yes, explain the reasons for the restriction on the solicitation, the quantity in tons and price per ton of the coal purchased as a result of this solicitation, and the difference between the price of this coal and the price it could have obtained for the coal if the solicitation had not been restricted.
- A-38. LG&E has not solicited bids with this restriction.

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Question No. 39

Witness: Eileen L. Saunders

- Q-39. Provide a detailed discussion of any specific generation efficiency improvements LG&E has undertaken during the period from May 1, 2016, to October 31, 2016.
- A-39. LG&E has not realized any efficiency improvements through major component projects during this period. LG&E strives to maintain unit efficiency through routine, cyclic, planned outage maintenance. This maintenance work continues to focus on reestablishing expected turbine efficiency degraded since the previous outage. Additionally, LG&E maintains unit efficiency through continuous monitoring of all plant systems during operation. LG&E 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 issue through resolution. In evaluating potential major component projects or replacements that may impact efficiency, LG&E must balance any potential efficiency benefit associated with the project against both costs and potential implications under the Clean Air Act.

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Question No. 40

Witness: Derek Rahn

- Q-40. State whether all contracts related to commodity and/or 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-40. Yes, all contracts for May 2016 through October 2016 related to commodity and/or transportation have been filed with the Commission.

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Question No. 41

Witness: Delbert Billiter / Charles R. Schram

- Q-41. Identify any issues that could affect fuel costs for the two-year period that remain unresolved or unsettled. Include in the response any issues related to billings from a regional transmission operator. Consider this a continuing request to inform the Commission if LG&E becomes aware of any issues during the course of this proceeding.
- A-41. The Company has no unresolved or unsettled issues to report.

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Case No. 2017-00004

Question No. 42

Witness: Charles R. Schram

- Q-42. Explain in detail how LG&E classifies a generation outage as forced or scheduled.
- A-42. The Company uses the definitions and guidelines published by the North American Electric Reliability Corporation ("NERC") for reporting to the Generating Availability Data System ("GADS"). GADS definitions for determining outage classifications can be found on NERC's website:
(<http://www.nerc.com/pa/RAPA/gads/Pages/Data%20Reporting%20Instructions.aspx>).

Below are excerpts from the NERC GADS definitions for planned (scheduled), maintenance, and forced outages:

PO – Planned Outage

An outage that is scheduled well in advance and is of a predetermined duration, can last for several weeks, and occurs only once or twice a year. Turbine and boiler overhauls or inspections, testing, and nuclear refueling are typical planned outages. For a planned outage, all of the specific individual maintenance and operational tasks to be performed are determined in advance and are referred to as the "original scope of work." The general task of repairing turbines, boilers, pumps, etc. is not considered a work scope because it does not define the individual tasks to be performed. For example, if a general task such as repair boiler is considered the work scope, it is impossible to conclude that any boiler work falls outside of the original scope of work. Discovery work and re-work which render the unit out of service beyond the estimated PO end date are not considered part of the original scope of work. A planned extension may be used only in instances where the original scope of work requires more time to complete than the estimated time. For example, if an inspection that is in the original scope of work for the planned outage takes longer than scheduled, the extra time should be coded as an extension (PE). However, if damage found during the inspection results in an extension of the outage, the extra time required to make repairs should be coded as a forced outage.

MO – Maintenance Outage

An outage that can be deferred beyond the end of the next weekend (defined as Sunday at 2400 hours or as Sunday turns into Monday), but requires that the unit be removed from service, another outage state, or Reserve Shutdown state before the next Planned Outage

(PO). Characteristically, a MO can occur any time during the year, has a flexible start date, may or may not have a predetermined duration, and is usually much shorter than a PO. Discovery work and re-work which render the unit out of service beyond the estimated MO end date are not considered part of the original scope of work. A maintenance extension may be used only in instances where the original scope of work requires more time to complete than the estimated time. For example, if an inspection that is in the original scope of work for the outage takes longer than scheduled, the extra time should be coded as an extension (ME). If the damage found during the inspection is of a nature that the unit could be put back on-line and be operational past the end of the upcoming weekend, the work could be considered MO. If the inspection reveals damage that prevents the unit from operating past the upcoming weekend, the extended work time should be Forced Outage (U1).

U1 – Unplanned (Forced) Outage — Immediate

This is an outage that requires immediate removal of a unit from service, another outage state, or a reserve shutdown state. This type of outage usually results from immediate mechanical/electrical/hydraulic control system trips and operator-initiated trips in response to unit alarms.

U2 – Unplanned (Forced) Outage — Delayed

This is an outage that does not require immediate removal of a unit from the in-service state, instead requiring removal within six hours. This type of outage can only occur while the unit is in service.

U3 – Unplanned (Forced) Outage — Postponed

This is an outage that can be postponed beyond six hours but requires that a unit be removed from the in service state before the end of the next weekend (Sunday at 2400 or before Sunday turns into Monday). This type of outage can only occur while the unit is in service.

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Case No. 2017-00004

Question No. 43

Witness: Derek Rahn

- Q-43. Refer to Form B filings for the review period for LG&E and its sister company, Kentucky Utilities Company ("KU").
- a. The Natural Gas Fuel Inventory Schedule for the Cane Run 7, Trimble, and Bluegrass stations show a beginning and ending balance. State whether this indicates that LG&E has a storage facility for natural gas at the stations or whether this represents natural gas stored on pipelines.
 - b. LG&E and KU jointly own the Cane Run unit and Trimble County combustion turbines. Explain why LG&E shows a beginning and ending inventory balance, but KU does not.
- A-43.
- a. The Natural Gas Fuel Inventory represents the natural gas stored in the pipeline. LG&E does not have natural gas storage facilities at the Cane Run 7, Trimble, and Bluegrass stations.
 - b. LG&E and KU jointly own or purchase gas for Cane Run 7, Trimble, and Bluegrass combustion turbines. For accounting purposes, given the insignificant amount of gas inventory for electric generation due to the lack of physical storage, gas inventory is recorded entirely on LG&E's books for these generation stations. This avoids LG&E from having to maintain separate inventory accounts for each generation unit thereby eliminating the need to perform numerous cost allocations on insignificant amounts. Once the natural gas is received at the station and burned by a specific unit, the natural gas cost is then allocated based on the LG&E and KU ownership percentage of that specific unit to ensure costs are properly charged to each company.