FA

AEP KENTUCKY POWER®

A unit of American Electric Power

*HAND DELIVERED*

Kentucky Power
101A Enterprise Drive
P O Box 5190
Frankfort, KY 40602-5190
KentuckyPower.com

April 17, 2017

RECEIVED

APR 17 2017

PUBLIC SERVICE COMMISSION

Dr. Talina Mathews, Executive Director
Kentucky Public Service Commission
211 Sower Blvd.
P. O. Box 615
Frankfort, Kentucky 40602-0615

**Attention: Chris Whelan**

RE: THE STANDARD FUEL ADJUSTMENT CLAUSE BACKUP FILING

Dear Ms. Whelan:

In compliance with the Commission's Order dated November 25, 1981 in Case No. 8058-A, Kentucky Power is forwarding herewith for the month of February 2017 the required backup information for the fuel adjustment clause applied to customers' bills in the month of April 2017.

Pursuant to the Commission's Order dated October 3, 2002 in Case No. 2000-495-B, the Company began using the peaking unit equivalent approach to calculate the level of non-economy purchased power costs to flow through the fuel adjustment clause in the actual fuel costs. These fuel costs are documented on the attached Power Transaction Schedule.

In accordance with the Commission's letter dated June 13, 2014, fuel contracts will be filed electronically.

1. Fuel Inventory Schedule – Coal
2. Fuel Inventory Schedule – Gas
3. Fuel Inventory Schedule – Oil
4. Fuel Purchase Schedule – Coal
5. Fuel Purchase Schedule – Gas
6. Fuel Purchase Schedule – Oil
7. Power Transaction Schedule
8. Unit Performance Data

Should you have any questions, please call me at (502) 696-7010.

Sincerely,

John A. Rogness III
Director, Regulatory Services

**KENTUCKY POWER COMPANY**
**MITCHELL PLANT - KPCO SHARE**
**February 2017**

## COAL INVENTORY SCHEDULE

| | | Tons | Amount | Per Unit |
|---|---|---|---|---|
| Beginning Inventory | | 285,762.47 | $15,871,183.08 | $55.5398 |
| Purchases | | 91,586.55 | $5,205,630.24 | $56.8384 |
| Adjustments | 1 | 0.00 | $0.00 | $0.0000 |
| Sub-Total | | 377,349.02 | $21,076,813.32 | $55.8550 |
| Less Coal Burned | | 75,854.50 | $4,317,261.93 | $56.9150 |
| Ending Inventory | | 301,494.52 | $16,759,551.39 | $55.5882 |

1 No Coal Pile Survey Adjustment this reporting period.

KENTUCKY POWER COMPANY
MITCHELL PLANT - KPCO SHARE
February 2017

# OIL INVENTORY SCHEDULE

| | Gallons | Amount | Per Unit |
|---|---|---|---|
| Beginning Inventory | 590,584.50 | $964,621.95 | $1.6333 |
| Purchases | 0.00 | $0.00 | $0.0000 |
| Adjustments | 0.00 | 0.00 | $0.0000 |
| Sub-Total | 590,584.50 | $964,621.95 | $1.6333 |
| Less Disposed | | | |
| Generation | 197,083.50 | $321,896.85 | $1.6333 |
| Chemical Cleaning/Other | 0.00 | 0.00 | $0.0000 |
| Ending Inventory | 393,501.00 | $642,725.10 | $1.6334 |

KENTUCKY POWER COMPANY
BIG SANDY PLANT
February 2017

## GAS INVENTORY SCHEDULE

| | MMBTU | | Amount | $/MMBTU |
|---|---|---|---|---|
| Beginning Inventory | 421.00 | $ | 1,447.33 | $3.4378 |
| Purchases | 174,042.00 | $ | 976,658.06 | $5.6116 |
| Gas Sales | 0.00 | $ | - | $0.0000 |
| Adjustments(Gas loss on Sale) | 0.00 | | $0.00 | $0.0000 |
| Sub-Total | 174,463.00 | $ | 978,105.39 | $5.6064 |
| Less Disposed | | | | |
| Generation | 190,730.00 | $ | 1,015,600.84 | $5.3248 |
| Loss or (Gain) on Sale | 0.00 | $ | - | $0.0000 |
| Other | 0.00 | $ | - | $0.0000 |
| Ending Inventory | -16,267.00 | | -$37,495.45 | $2.3050 |

KENTUCKY POWER COMPANY
ANALYSIS OF COAL PURCHASES
February 2017

| Station and Supplier (a) | P B D U (b) | P O C N (c) | | Tons Purchased (g) | BTU Per LB. (h) | No. MMBTU Per Ton (i) | FOB Mine Price Per Ton (j) | FOB Mine Cents Per MMBTU (k) | Trans Cost Per Ton (l) | Trans Cost Cents Per MMBTU (m) | Delivered Cost Per Ton (n) | Delivered Cost Cents Per MMBTU (o) | % SO2 (p) | Ash (q) | % HO2 (r) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MITCHELL PLANT | | | | | | | | | | | | | | | |
| Long Term Contracts: | | | | | | | | | | | | | | | |
| Consolidation Coal Cor | P | 07-77-05-900KPCO | A | 85,820.00 | 12,658 | 25.32 | 52.63 | 207.85 | - | - | 52.63 | 207.85 | 4.24 | 9.16 | 6.43 |
| Station Weighted Average | | | | 85,820.00 | 12,658 | 25.32 | 52.63 | 207.86 | 0.00 | 0.00 | 52.63 | 207.86 | 4.24 | 9.16 | 6.43 |
| Spot Market: | | | | | | | | | | | | | | | |
| Alpha | P | 03-00-15-004 | B | 1,594.20 | 12,375 | 24.75 | 56.45 | 228.08 | - | - | 56.45 | 394.26 | 0.77 | 11.34 | 5.93 |
| Alpha | P | 03-00-15-004 | A | 4,276.50 | 11,995 | 23.99 | 60.72 | 253.12 | 38.02 | 158.5 | 98.75 | 411.62 | 0.68 | 11.84 | 7.94 |
| Alpha | P | 03-00-16-002 | A | 14,063.60 | 11,886 | 23.77 | 49.98 | 210.27 | (13.12) | (55.19) | 36.86 | 155.08 | 0.73 | 12.10 | 8.66 |
| Alpha | P | 03-00-16-002 | B | 14,450.30 | 12,280 | 24.56 | 49.43 | 201.27 | 9.61 | 39.15 | 59.05 | 240.42 | 0.92 | 11.82 | 6.41 |
| Alpha | P | 03-00-16-004 | A | 4,672.30 | 11,807 | 23.61 | 51.64 | 218.71 | 7.56 | 32.02 | 59.20 | 250.73 | 0.76 | 11.99 | 8.98 |
| Alpha | P | 03-00-16-004 | B | 9,815.60 | 12,278 | 24.56 | 50.40 | 205.19 | 6.68 | 27.2 | 57.08 | 232.39 | 0.88 | 11.19 | 7.1 |
| River Trading | P | 03-00-16-008 | A | 4,466.90 | 11,949 | 23.90 | 66.30 | 277.43 | 9.79 | 40.96 | 76.09 | 318.39 | 1.06 | 10.50 | 9.95 |
| Ember | P | 03-00-16-003 | A | 7,186.80 | 11,979 | 23.96 | 51.45 | 214.73 | 7.16 | 29.89 | 58.61 | 244.62 | 0.86 | 9.65 | 8.78 |
| Southeastern Land | P | 03-00-16-006 | A | 14,976.20 | 12,461 | 24.92 | 64.76 | 259.88 | 6.32 | 25.37 | 71.08 | 285.25 | 0.73 | 10.35 | 6.43 |
| Noble | P | 03-00-15-003 | A | 12,293.70 | 12,397 | 24.79 | 51.95 | 209.56 | 7.69 | 31.03 | 59.64 | 240.59 | 0.72 | 8.97 | 8.81 |
| Golden Eagle | P | 03-00-16-005 | A | 3,149.80 | 11,841 | 23.68 | 55.77 | 235.52 | 14.60 | 61.66 | 70.37 | 297.18 | 1.00 | 10.87 | 8.12 |
| Seminole Coal | P | 03-00-16-007 | A | 6,407.20 | 12,282 | 24.56 | 56.05 | 228.22 | - | 0 | 56.05 | 228.22 | 0.89 | 12.45 | 6.28 |
| Station Weighted Average | | | | 97,353.10 | 12,180 | 24.36 | 54.57 | 224.01 | 5.63 | 23.11 | 60.20 | 247.13 | 0.82 | 11.00 | 7.66 |
| TOTAL STATION WEIGHTED AVERAGE | | | | 183,173.10 | 12,417 | 24.83 | 53.65 | 216.04 | 3.19 | 12.85 | 56.84 | 228.87 | 2.47 | 10.08 | 7.09 |

ANALYSIS OF OIL PURCHASES

| Supplier | B D U | O C N | Station Name | Gal or Cu. Ft. Purchased | BTU per Unit | Delivered Cost Per Gal | Cents Per MMBTU | % SO2 | |
|---|---|---|---|---|---|---|---|---|---|
| RW Earhart | D | 03-FO-15-001 | Mitchell | 0 | 0 | 0.00 | 0.00 | 0.36 | (l) |

MITCHELL PLANT - KENTUCKY POWER SHARE OF PURCHASES

| | | | | | |
|---|---|---|---|---|---|
| Kentucky Power Share of Coal Receipts | | | | 91,586.55 | |
| Mitchell Total Coal Receipts | | | | 183,173.10 | |
| Mitchell - Kentucky Power Coal Receipts Ratio | | | | 50.00% | |
| Consolidation Coal Cor | P | 07-77-05-900KPCO | A | 42,910.00 | Long Term Contract |
| 0 | 0 | 0 | 0 | - | Long Term Contract |
| 0 | 0 | 0 | 0 | - | Spot |
| Alpha | P | 03-00-15-004 | B | 797.10 | Spot |
| Alpha | P | 03-00-15-004 | A | 2,138.25 | Spot |
| Alpha | P | 03-00-16-002 | A | 7,031.80 | Spot |
| Alpha | P | 03-00-16-002 | B | 7,225.15 | Spot |
| Alpha | P | 03-00-16-004 | A | 2,336.15 | Spot |
| Alpha | P | 03-00-16-004 | B | 4,907.80 | Spot |
| River Trading | P | 03-00-16-008 | A | 2,233.45 | Spot |
| Ember | P | 03-00-16-003 | A | 3,593.40 | |
| Southeastern Land | P | 03-00-16-006 | A | 7,488.10 | |
| Noble | P | 03-00-15-003 | A | 6,146.85 | |
| Golden Eagle | P | 03-00-16-005 | A | 1,574.90 | |
| Seminole Coal | P | 03-00-16-007 | A | 3,203.60 | |
| Total | | | | 91,586.55 | |
| Kentucky Power Share of Oil Receipts | | | | - | |
| Mitchell Total Oil Receipts | | | | - | |
| Mitchell - Kentucky Power Oil Receipts Ratio | | | | 0.00% | |
| RW Earhart | D | 03-FO-15-001 | | - | |

KENTUCKY POWER COMPANY
ANALYSIS OF COAL PURCHASES
February 2017

| Station and Supplier | P B D U | P O C N | M T | ST | District | Tons Purchased | BTU Per LB. | No. MMBTU Per Ton | FOB Mine Price Per Ton | FOB Mine Cents Per MMBTU | Trans Cost Per Ton | Trans Cost Cents Per MMBTU | Delivered Cost Per Ton | Delivered Cost Cents Per MMBTU | % SO2 | Ash | % HO2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) | (m) | (n) | (o) | (p) | (q) | (r) |
| TOTAL KENTUCKY POWER | | | | | | | | | | | | | | | | | |
| Consolidation Coal Company and McElroy Coal Company | P | 07-77-05-900KPCO | A C | WV | 03 | 42,910.00 | 12,658 | 25.32 | 52.63 | 207.85 | - | - | 52.63 | 207.85 | 4.24 | 9.16 | 6.43 |
| Alpha | P | 03-00-15-004 | B B | WV | 04 | 797.10 | 12,375 | 24.75 | 56.45 | 228.08 | 0.00 | 0.00 | 56.45 | 394.26 | 0.77 | 11.34 | 5.93 |
| Alpha | P | 03-00-15-004 | A B | WV | 04 | 2,138.25 | 11,995 | 23.99 | 60.72 | 253.12 | 38.02 | 158.50 | 98.75 | 411.62 | 0.68 | 11.84 | 7.94 |
| Alpha | P | 03-00-16-002 | A B | WV | 04 | 7,031.80 | 11,886 | 23.77 | 49.98 | 210.27 | -13.12 | -55.19 | 36.86 | 155.08 | 0.73 | 12.10 | 8.66 |
| Alpha | P | 03-00-16-002 | B T | WV | 04 | 7,225.15 | 12,280 | 24.56 | 49.43 | 201.27 | 9.61 | 39.15 | 59.05 | 240.42 | 0.92 | 11.82 | 6.41 |
| Alpha | P | 03-00-16-004 | A B | WV | 04 | 2,336.15 | 11,807 | 23.61 | 51.64 | 218.71 | 7.56 | 32.02 | 59.20 | 250.73 | 0.76 | 11.99 | 8.98 |
| Alpha | P | 03-00-16-004 | B B | WV | 04 | 4,907.80 | 12,278 | 24.56 | 50.40 | 205.19 | 6.68 | 27.20 | 57.08 | 232.39 | 0.88 | 11.19 | 7.10 |
| River Trading | P | 03-00-16-008 | A B | KY | 06 | 2,233.45 | 11,949 | 23.90 | 66.30 | 277.43 | 9.79 | 40.96 | 76.09 | 318.39 | 1.06 | 10.50 | 9.95 |
| Ember | P | 03-00-16-003 | A B | KY | 06 | 3,593.40 | 11,979 | 23.96 | 51.45 | 214.73 | 7.16 | 29.89 | 58.61 | 244.62 | 0.86 | 9.65 | 8.78 |
| Southeastern Land | P | 03-00-16-006 | A B | WV | 12 | 7,488.10 | 12,461 | 24.92 | 64.76 | 259.88 | 6.32 | 25.37 | 71.08 | 285.25 | 0.73 | 10.35 | 6.43 |
| Noble | P | 03-00-15-003 | A B | KY | 06 | 6,146.85 | 12,397 | 24.79 | 51.95 | 209.56 | 7.69 | 31.03 | 59.64 | 240.59 | 0.72 | 8.97 | 8.81 |
| Golden Eagle | P | 03-00-16-005 | A T | KY | 06 | 1,574.90 | 11,841 | 23.68 | 55.77 | 235.52 | 14.60 | 61.66 | 70.37 | 297.18 | 1.00 | 10.87 | 8.12 |
| Seminole Coal | P | 03-00-16-007 | A T | WV | 04 | 3,203.60 | 12,282 | 24.56 | 56.05 | 228.22 | - | 0.00 | 56.05 | 228.22 | 0.89 | 12.45 | 6.28 |
| TOTAL SYSTEM WEIGHTED AVERAGE | | | | | | 91,586.55 | 12,404 | 24.81 | 53.66 | 216.28 | 2.99 | 12.05 | 56.65 | 228.34 | 2.42 | 10.14 | 7.09 |

KENTUCKY POWER COMPANY
ANALYSIS OF GAS PURCHASES
February 2017

| Supplier (a) | POCN (b) | MT (c) | Station Name (d) | Gross MMBTU Purchased (f) | Net MMBTU Purchased | Delivered Cost $ (h) | Gross $ Per MMBTU (i) | Net $ Per MMBTU (j) | % SO2 (j) |
|---|---|---|---|---|---|---|---|---|---|
| BIOURJA | - | P | Big Sandy | 5,000 | 4,905 | 13,800.00 | 2.76 | 2.81 | - |
| EDF | - | P | Big Sandy | 5,000 | 4,905 | 13,295.00 | 2.66 | 2.71 | - |
| IGS | - | P | Big Sandy | 1,000 | 981 | 2,867.50 | 2.87 | 2.92 | - |
| Mercuria | - | P | Big Sandy | 6,000 | 5,886 | 16,432.50 | 2.74 | 2.79 | - |
| NextEra | - | P | Big Sandy | 46,900 | 46,012 | 128,286.50 | 2.74 | 2.79 | - |
| NJR Energy | - | P | Big Sandy | 600 | 589 | 1,363.50 | 2.27 | 2.31 | - |
| Sequent | - | P | Big Sandy | 72,200 | 70,834 | 199,475.50 | 2.76 | 2.82 | - |
| TEXLA | - | P | Big Sandy | 40,700 | 39,930 | 104,794.75 | 2.57 | 2.62 | - |
| Columbia Gas* | 173522 & 177527 | P | Big Sandy | | | 4,582.81 | 0.00 | | - |
| Columbia Gas - Reservation F | 173522 | P | Big Sandy | | | 491,760.00 | 0.00 | | - |
| | | | | 177,400 | 174,042 | 976,658.06 | | | |

(b) POCN = Purchase Order of Contract Number

(c) MT = Mode of Transportation
Designated by Symbol
R =Rail
B =Barge
T =Truck
C =Conveyor Belt
P =Pipeline

(j) % of sulfur in natural gas is not applicable

# KENTUCKY POWER COMPANY
# POWER TRANSACTION SCHEDULE
# February 2017

**TRANSACTION TYPES ***

| | |
|---|---|
| SPOT MARKET ENERGY - DA | PJM MARKET SPOT ENERGY - DAY AHEAD |
| SPOT MARKET ENERGY - BAL | PJM MARKET SPOT ENERGY - BALANCING |

* Due to voluminous transactions, they are aggregated by type rather than by interconnected utility.

KENTUCKY POWER COMPANY
POWER TRANSACTION SCHEDULE
MONTH ENDED: FEBRUARY 2017

PURCHASES

| TRANSACTION TYPE | MWH | BILLING COMPONENTS FUEL CHARGE ($) | DEMAND ($) | OTHER CHARGES ($) | TOTAL CHARGES ($) |
|---|---|---|---|---|---|
| SPOT MARKET ENERGY - BAL | 29,854 | 812,403.81 | 0.00 | 0.00 | 812,403.81 |
| SPOT MARKET ENERGY - DA | 148,372 | 3,678,056.17 | 0.00 | 0.00 | 3,678,056.17 |
| **Subtotal:** | 178,226 [1] | 4,490,459.98 | 0.00 | 0.00 | 4,490,459.98 |
| ROCKPORT UNIT #1 - LEASE | 36,723 | 939,330.78 | 0.00 | 0.00 | 939,330.78 |
| ROCKPORT UNIT #2 - LEASE | 96,199 | 2,419,830.49 | 0.00 | 0.00 | 2,419,830.49 |
| **Subtotal:** | 132,922 | 3,359,161.26 | 0.00 | 0.00 | 3,359,161.26 |
| INTERRUPTIBLE BUY/THROUGH | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| BOOKOUTS/OPTIONS | 7,469 | 0.00 | 0.00 | 291,992.64 | 291,992.64 |
| TOTALS: | 318,617 | 7,849,621.24 | 0.00 | 291,992.64 | 8,141,613.89 |

| | MWH | Total Energy Charges |
|---|---|---|
| [1] SME PURCHASES - ALLOCATED TO SYSTEM SALES: | 7,777 | 199,945.79 |
| SME PURCHASES - ALLOCATED TO INTERNAL CUSTOMERS: | 170,449 | 4,290,514.19 |
| ROCKPORT PURCHASES - ALLOCATED TO SYSTEM SALES: | 9,274 | 207,597.00 |
| ROCKPORT PURCHASES - ALLOCATED TO INTERNAL CUSTOMERS: | 123,648 | 3,151,564.26 |
| | 311,148 | 7,849,621.24 |
| LESS: PJM IMPLICIT CONGESTION INCLUDED IN THE INTERNAL CUSTOMER'S FIGURE: | 0 | 0.00 |
| NET INCLUDABLE ENERGY CHARGES: | 311,148 | 7,849,621.24 |

KENTUCKY POWER COMPANY
POWER TRANSACTION SCHEDULE
MONTH ENDED: FEBRUARY 2017

| SALES | | BILLING COMPONENTS | | | | | |
|---|---|---|---|---|---|---|---|
| | KPCO | SUPPLIED BY KPCO SOURCES | | | | | |
| TRANSACTION TYPE | DELIVERED MWH | MWH | FUEL CHARGE ($) | | DEMAND ($) | OTHER CHARGES ($) | TOTAL CHARGES ($) |
| SPOT MARKET ENERGY - BAL | 18,985 | 18,985 | 430,695 | | 0 | 9,268 | 439,962 |
| SPOT MARKET ENERGY - DA | 9,552 | 9,552 | 230,521 | | 0 | 56,559 | 287,080 |
| | 28,537 | 28,537 | 661,215.97 | (1) | 0.00 | 65,826.69 | 727,042.65 |
| PRIOR PERIOD ADJUSTMENT | 0 | 0 | 0.00 | | 0.00 | 0.00 | |
| INTERRUPTIBLE BUY/THROUGH | 0 | 0 | 0.00 | | 0.00 | 0.00 | 0.00 |
| BOOKOUTS/OPTIONS: | 15,865 | 0 | 0.00 | | 0.00 | 685,908.84 | 685,908.84 |
| TOTALS: | 44,402 | 28,537 | 661,216 | | 0 | 751,736 | 1,412,951 |

| | |
|---|---|
| KPCo's other costs incurred, (other than fuel from Account 151): | 63,068.83 |
| AEP energy cost less the actual energy costs incurred by KPCo: | 0.00 |
| Difference (Total AEP energy charges - Total AEP energy costs): | 2,757.80 |
| Total (Other Charges): | 65,826.63 |

| | | |
|---|---|---|
| SUPPLIED BY KPCo SOURCES - FUEL CHARGE (Page 3) | | 661,215.97 |
| Add: ALLOCATED TO SYSTEM SALES (PAGE 2) | 199,945.79 | |
| Less: FUEL ALLOCATED TO SYSTEM SALES | 199,945.79 | - |
| INTER-SYSTEM SALES - FUEL COSTS (PAGE 4) | | 661,215.97 |

FINAL SCHEDULE FEBRUARY 2017 COSTS - ACTUAL

KENTUCKY POWER COMPANY
FUEL COST SCHEDULE
MONTH ENDED: FEBRUARY 2017

| | (A) COMPANY GENERATION | BIG SANDY 1 | MITCHELL 1 KP | MITCHELL 2 KP | FUEL AMOUNTS ($) |
|---|---|---|---|---|---|
| | COAL BURNED | | 0.00 | 4,317,261.93 | 4,317,261.93 |
| | OIL BURNED | | 152,152.51 | 169,744.34 | 321,896.85 |
| (3) | GAS BURNED | 1,015,600.84 | | | 1,015,600.84 |
| | FUEL (JOINTLY OWNED PLANT) | | | | ---------------- |
| (1) | FUEL (ASSIGNED COST DURING F.O.) | | | | 3,957,239.41 |
| | FUEL (SUBSTITUTE FOR F.O.) | | | | ---------------- |
| | SUB-TOTAL | | | | 9,611,999.03 |
| | **(B) PURCHASES** | | | | |
| | IDENTIFIABLE FUEL COST - OTHER PURCHASES | | | | 4,490,459.98 |
| | IDENTIFIABLE FUEL COST - ROCKPORT PURCHASES | | | | 3,359,161.26 |
| (1) | IDENTIFIABLE FUEL COST (SUBSTITUTE FOR F.O.) | | | | 4,189,930.02 |
| (2) | IDENTIFIABLE FUEL COST (PEAKING UNIT EQUIVALENT) | | | | 0.00 |
| | SUB-TOTAL | | | | 3,659,691.22 |
| | **(C) INTER-SYSTEM SALES** | | | | |
| | FUEL COSTS | | | | 661,215.97 |
| | TOTAL FUEL COSTS (A + B - C) | | | | 12,610,474.29 |

F.O. = FORCED OUTAGE

DETAILS:

(1) FUEL (ASSIGNED COST DURING FORCED OUTAGE)

| | | | | |
|---|---|---|---|---|
| TOTAL REPLACEMENT (IDENTIFIABLE FUEL COST) FUEL COST DUE TO F.O.: | 166,564,501 kWh | 25.155 | MILLS/kWh | 4,189,930.02 |
| TOTAL ALLOWABLE (IDENTIFIABLE FUEL COST) REPLACEMENT FUEL COST FOR F.O.: | 166,564,501 kWh | 23.758 | MILLS/kWh | 3,957,239.41 |

(1)

There were forced outages for Mitchell 1 February 2017.

(2) Amount in excess of peaking unit equivalent as callculated in accordance with KPSC Order OF October 3, 2002 in Case No. 2000-00495-B.

(3) The amount shown above as the gas burned for Big Sandy 1 includes the reservation fee.

AMERICAN ELECTRIC POWER SERVICE CORPORATION
FUEL AND ENERGY SYSTEM PRACTICES
AMERICAN ELECTRIC POWER
MONTHLY PURCHASE SUMMARY REPORT FOR KPCO
(Year:2017 Month:2 Cycle:Actual) East Purchase Power Report for Book Name: East Actual February 2017

| | | | TOTAL | | | ALLOCATED | | | FIRM | |
|---|---|---|---|---|---|---|---|---|---|---|
| NERC Id | Transaction Class | MWH | ENERGY COST | FUEL COST | MWH | ENERGY COST | FUEL COST | MWH | ENERGY COST | FUEL COST |
| OVPS | OVPS | - | - | - | - | - | - | - | - | - |
| PJM | SPOT MARKET ENERGY - BAL | 29,854 | 812,403.81 | 812,403.81 | 1,431 | 47,029.68 | 47,029.68 | 28,423 | 765,374.13 | 765,374.13 |
| PJM | SPOT MARKET ENERGY - DA | 148,372 | 3,678,056.17 | 3,678,056.17 | 6,346 | 152,916.11 | 152,916.11 | 142,026 | 3,525,140.06 | 3,525,140.06 |
| Total | | 178,226 | 4,490,459.98 | 4,490,459.98 | 7,777 | 199,945.80 | 199,945.80 | 170,449 | 4,290,514.18 | 4,290,514.18 |

# APPENDIX A

**KENTUCKY POWER COMPANY**
**MITCHELL - TOTAL PLANT**
**February 2017**

| Line No. | Item Description | |
|---|---|---|
| 1. | **Unit Performance:** | |
| | a. Capacity (name plate rating) (MW) | 1,632.6 |
| | b. Capacity (average load) (MW) | 553.4 |
| | c. Net Demonstrated Capability (MW) | 1,560.0 |
| | d. Net Capability Factor (%) | 35.5 |
| 2 | **Heat Rate:** | |
| | a. Btu's Consumed (MMBTU) | 3,707.2 |
| | b. Gross Generation (MWH) | 399,273 |
| | c. Net Generation (MWH) | 371,916 |
| | d. Heat Rate (L2a divided by L2c) (BTU/KWH) | 10,260 |
| 3 | **Operating Availability:** | |
| | a. Hours Unit Operated | Reported on Unit Basis Only |
| | b. Hours Available | Reported on Unit Basis Only |
| | c. Hours During the Period | Reported on Unit Basis Only |
| | d. Availability Factor (%) | Reported on Unit Basis Only |
| 4 | **Cost per KWH:** | |
| | a. Gross Generation - FAC Basis (Cents/KWH) | 2.2 |
| | b. Net Generation - FAC Basis (Cents/KWH) | 2.3 |
| 5 | **Inventory Analysis:** | |
| | a. Number of Days Supply based on actual burn at the station | 1,450.7 |

# APPENDIX A

**KENTUCKY POWER COMPANY**
**MITCHELL - UNIT 1**
**February 2017**

| Line No. | Item Description | |
|---|---|---|
| 1 | Unit Performance: | |
| | a. Capacity (name plate rating) (MW) | 816.3 |
| | b. Capacity (average load) (MW) | 0.0 |
| | c. Net Demonstrated Capability (MW) | 770.0 |
| | d. Net Capability Factor (%) | 0.0 |
| 2 | Heat Rate: | |
| | a. Btu's Consumed (MMBTU) | 25.0 |
| | b. Gross Generation (MWH) | 0 |
| | c. Net Generation (MWH) | 0 |
| | d. Heat Rate (L2a divided by L2c) (BTU/KWH) | 0 |
| 3 | Operating Availability: | |
| | a. Hours Unit Operated | 0.0 |
| | b. Hours Available | 0.0 |
| | c. Hours During the Period | 672.0 |
| | d. Availability Factor (L3b divided by L3c) (%) | 0.0 |
| 4 | Cost per KWH: | |
| | a. Gross Generation - FAC Basis (Cents/KWH) | Reported on total plant basis only |
| | b. Net Generation - FAC Basis (Cents/KWH) | Reported on total plant basis only |
| 5 | Inventory Analysis: | |
| | a. Number of Days Supply based on actual burn at the station | Reported on total plant basis only |

# APPENDIX A

## KENTUCKY POWER COMPANY
## MITCHELL - UNIT 2
## February 2017

| Line No. | Item Description | |
|---|---|---|
| 1 | Unit Performance: | |
| | a. Capacity (name plate rating) (MW) | 816.3 |
| | b. Capacity (average load) (MW) | 553.4 |
| | c. Net Demonstrated Capability (MW) | 790.0 |
| | d. Net Capability Factor (%) | 70.1 |
| 2 | Heat Rate: | |
| | a. Btu's Consumed (MMBTU) | 3,682.2 |
| | b. Gross Generation (MWH) | 399,274 |
| | c. Net Generation (MWH) | 371,917 |
| | d. Heat Rate (L2a divided by L2c) (BTU/KWH) | 10,125 |
| 3 | Operating Availability: | |
| | a. Hours Unit Operated | 672.0 |
| | b. Hours Available | 672.0 |
| | c. Hours During the Period | 672.0 |
| | d. Availability Factor (L3b divided by L3c) (%) | 100.0 |
| 4 | Cost per KWH: | |
| | a. Gross Generation - FAC Basis (Cents/KWH) | Reported on total plant basis only |
| | b. Net Generation - FAC Basis (Cents/KWH) | Reported on total plant basis only |
| 5 | Inventory Analysis: | |
| | a. Number of Days Supply based on actual burn at the station | Reported on total plant basis only |

# APPENDIX A

**KENTUCKY POWER COMPANY**
**BIG SANDY - TOTAL PLANT**
**February 2017**

| Line No. | Item Description | |
|---|---|---|
| 1. | **Unit Performance:** | |
| | a. Capacity (name plate rating) (MW) | 280.5 |
| | b. Capacity (average load) (MW) | 45.9 |
| | c. Net Demonstrated Capability (MW) | 280.0 |
| | d. Net Capability Factor (%) | 9.5 |
| 2. | **Heat Rate:** | |
| | a. Btu's Consumed (MMBTU) | 190,730 |
| | b. Gross Generation (MWH) | 18,741 |
| | c. Net Generation (MWH) | 17,824 |
| | d. Heat Rate (L2a divided by L2c) (BTU/KWH) | 10,701 |
| 3. | **Operating Availability:** | |
| | a. Hours Unit Operated | 388.0 |
| | b. Hours Available | 388.0 |
| | c. Hours During the Period | 672.0 |
| | d. Availability Factor (%) | 57.7 |
| 4. | **Cost per KWH:** | |
| | a. Gross Generation - FAC Basis (Cents/KWH) | 5.4 |
| | b. Net Generation - FAC Basis (Cents/KWH) | 5.7 |
| 5. | **Inventory Analysis:** | |
| | a. Number of Days Supply based on actual burn at the station | NA |