

VERIFICATION

STATE OF OHIO)
) **SS:**
COUNTY OF HAMILTON)

The undersigned, Theodore H. Czupik, Jr., Rates & Regulatory Strategy Manager, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.

Theodore H. Czupik Jr
Theodore H. Czupik, Jr., Affiant

Subscribed and sworn to before me by Theodore H. Czupik, Jr. on this 8th day of February, 2016.

Adele M. Frisch
NOTARY PUBLIC

ADELE M. FRISCH
Notary Public, State of Ohio
My Commission Expires 01-05-2019

My Commission Expires: 1/5/2019

KYPSC CASE NO. 2016-00005
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**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

STAFF-DR-01-001

REQUEST:

For the period from May 1, 2015, through October 31, 2015, list each vendor from whom coal was purchased and the quantities and the 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. For contract purchases, state whether the contract has been filed with the Commission. If no, explain why it has not been filed.

RESPONSE:

For the period under review May 1, 2015 through October 31, 2015 please see STAFF-DR-01-001 Attachment.

PERSON RESPONSIBLE: Brett Phipps

Duke Energy Kentucky

<u>Vendor</u>	<u>Purchase Tonnage</u>	<u>Purchase Type</u>	<u>Contract #</u>	<u>Filed with Commission</u>	<u>If no, Explain why</u>
Alpha Coal Sales	63,329	Spot			**
American Coal	1,640	Spot			**
American Coal (Miami Ft. 6)	9,682	Spot			**
Armstrong Coal Company	127,171	Contract	DEK 30019	8/28/2015	
Noble Americas Corp.	96,909	Spot			**
Peabody CoalTrade LLC	14,351	Spot			**
River View	287,672	Contract	DEK 28376	1/2/2013	
River View	37,846	Contract	DEK 28376TR	1/28/2015	
River View	204,714	Contract	DEK 30243	1/13/2015	
Trafigura	108,864	Contract	DEK 29924	1/28/2015	
White Oak #2	3,105	Spot			**
White Oak Mine #1 (Miami Ft. 6)	3,114	Spot			**
	<u>958,397</u>				
		80% Contract			
		20% Spot			

** Note: Spot Contracts are not filed with the Commission

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

STAFF-DR-01-002

REQUEST:

For the period from May 1, 2015, through October 31, 2015, list each vendor from whom natural gas was purchased for generation and the quantities and the nature of each purchase (e.g., spot or contract). For contract purchases, state whether the contract has been filed with the Commission. If no, explain why it has not been filed.

RESPONSE:

For the period May 1, 2015, through October 31, 2015 the list of vendors from which natural gas was purchased for generation and the nature of each purchase is listed in the table below. These contract purchases were not filed with the Commission because they are all spot contracts.

Counterpart/Vendor	Trade Date	Start Date	End Date	Qty	# of Days	Total Qty	Spot / Contract
SEQUENT ENERGY	05/08/2015	05/08/2015	05/08/2015	5,000	1	5,000	Spot
TOTAL MAY						5,000	
TOTAL JUNE						-	
SEQUENT ENERGY	07/29/2015	07/30/2015	07/30/2015	13,000	1	13,000	Spot
DTE Energy Trading E	07/29/2015	07/30/2015	07/30/2015	2,500	1	2,500	Spot
SEQUENT ENERGY	07/30/2015	07/31/2015	07/31/2015	6,904	1	6,904	Spot
TOTAL JULY						22,404	
DTE Energy Trading E	07/31/2015	08/01/2015	08/03/2015	1,224	3	3,672	Spot
SEQUENT ENERGY	08/11/2015	08/12/2015	08/12/2015	3,000	1	3,000	Spot
SEQUENT ENERGY	08/11/2015	08/11/2015	08/11/2015	5,000	1	5,000	Spot
DTE Energy Trading E	08/12/2015	08/12/2015	08/12/2015	1,631	1	1,631	Spot
SEQUENT ENERGY	08/12/2015	08/12/2015	08/12/2015	1,000	1	1,000	Spot
ExelonGenerationCo E	08/12/2015	08/13/2015	08/13/2015	5,000	1	5,000	Spot
SEQUENT ENERGY	08/19/2015	08/19/2015	08/19/2015	10,000	1	10,000	Spot
SEQUENT ENERGY	08/20/2015	08/20/2015	08/20/2015	25,000	1	25,000	Spot
SEQUENT ENERGY	08/31/2015	08/31/2015	08/31/2015	12,000	1	12,000	Spot
SEQUENT ENERGY	08/31/2015	08/31/2015	08/31/2015	8,560	1	8,560	Spot
ExelonGenerationCo E	08/31/2015	08/31/2015	08/31/2015	10,643	1	10,643	Spot
ExelonGenerationCo E	08/31/2015	08/31/2015	08/31/2015	7,300	1	7,300	Spot
TOTAL AUGUST						92,806	
SEQUENT ENERGY	09/03/2015	09/03/2015	09/03/2015	35,000	1	35,000	Spot
ExelonGenerationCo E	09/03/2015	09/03/2015	09/03/2015	5,000	1	5,000	Spot
NJR Energy Servic G	09/04/2015	09/04/2015	09/04/2015	9,148	1	9,148	Spot
SEQUENT ENERGY	09/04/2015	09/04/2015	09/04/2015	25,000	1	25,000	Spot
SEQUENT ENERGY	09/06/2015	09/06/2015	09/07/2015	20,000	2	40,000	Spot
ExelonGenerationCo E	09/07/2015	09/07/2015	09/07/2015	8,900	1	8,900	Spot
ExelonGenerationCo E	09/08/2015	09/08/2015	09/08/2015	8,900	1	8,900	Spot
TOTAL SEPTEMBER						131,948	
TOTAL OCTOBER						-	
TOTAL PURCHASES FOR MAY 1, 2015 THROUGH OCTOBER 31, 2015						252,158	

PERSON RESPONSIBLE: Brett Phipps

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

STAFF-DR-01-003

REQUEST:

State whether Duke Kentucky engages in hedging activities for its coal or natural gas purchases used for generation. If yes, describe the hedging activities in detail.

RESPONSE:

Coal:

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

Natural Gas:

To date, Duke Energy Kentucky has not engaged in any forward natural gas price hedging activities. Duke Energy Kentucky engages in the physical procurement of physical natural gas to support its gas generation.

PERSON RESPONSIBLE: Brett Phipps

Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016

STAFF-DR-01-004

REQUEST:

For each generation station or unit for which a separate coal pile is maintained, state, for the period from May 1, 2015, through October 31, 2015, the actual amount of coal burned in tons, the actual amount of coal deliveries in tons, the total kWh generated, and the actual capacity factor at which the plant operated.

RESPONSE:

Plant	Coal Burn (Tons)	Coal Receipts (Tons)	Net MWH	Capacity Factor (Net MWH) / period hrs x MW rating)
East Bend	949,638	945,600	2,053,893	77.5%
Miami Fort 6 ⁽¹⁾	28,769	12,796	67,697	55.8%

⁽¹⁾ Unit was retired effective May 31, 2015

PERSON RESPONSIBLE: Theodore H. Czupik Jr.

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

STAFF-DR-01-005

REQUEST:

List all firm power commitments for Duke Kentucky from May 1, 2015, through October 31, 2015, for (a) purchases and (b) sales. This list shall identify the electric utility, the amount of commitment in MW, and the purpose of the commitment (e.g., peaking, emergency).

RESPONSE:

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

PERSON RESPONSIBLE: John Swez

Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016

STAFF-DR-01-006

REQUEST:

Provide a monthly billing summary of sales to all electric utilities for the period of May 1, 2015, through October 31, 2015.

RESPONSE:

See STAFF-DR-01-006 Attachment.

PERSON RESPONSIBLE: Theodore H. Czupik Jr.

**DUKE ENERGY KENTUCKY
 POWER TRANSACTION SCHEDULE**

Supplier/Buyer		Transaction Type	kWh	Charges (\$)			
				Demand	Fuel	Other	Total
Month Ended May 31, 2015							
PJM Interconnection, LLC		Econ Sales	131,584,430		3,806,353	277,507	4,083,860
	Total Sales		<u>131,584,430</u>	<u>0</u>	<u>3,806,353</u>	<u>277,507</u>	<u>4,083,860</u>
Month Ended June 30, 2015							
PJM Interconnection, LLC		Econ Sales	23,946,400		657,230	(31,595)	625,635
	Total Sales		<u>23,946,400</u>	<u>0</u>	<u>657,230</u>	<u>(31,595)</u>	<u>625,635</u>
Month Ended July 31, 2015							
PJM Interconnection, LLC		Econ Sales	21,371,440		644,484	13,188	657,672
	Total Sales		<u>21,371,440</u>	<u>0</u>	<u>644,484</u>	<u>13,188</u>	<u>657,672</u>
Month Ended August 31, 2015							
PJM Interconnection, LLC		Econ Sales	20,623,740		521,490	49,417	570,907
	Total Sales		<u>20,623,740</u>	<u>0</u>	<u>521,490</u>	<u>49,417</u>	<u>570,907</u>
Month Ended September 30, 2015							
PJM Interconnection, LLC		Econ Sales	41,586,460		1,061,199	9,707	1,070,906
	Total Sales		<u>41,586,460</u>	<u>0</u>	<u>1,061,199</u>	<u>9,707</u>	<u>1,070,906</u>
Month Ended October 31, 2015							
PJM Interconnection, LLC		Econ Sales	72,316,660		1,682,463	207,737	1,890,200
	Total Sales		<u>72,316,660</u>	<u>0</u>	<u>1,682,463</u>	<u>207,737</u>	<u>1,890,200</u>

Legend
 Econ Sales - Economy Sales

Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016

STAFF-DR-01-007

REQUEST:

List Duke Kentucky's scheduled, actual, and forced outages from May 1, 2015, through October 31, 2015.

RESPONSE:

Please see Staff-DR-01-007 Attachment.

PERSON RESPONSIBLE: John Swez

UnitName	EventType	Month	Scheduled Hours	Forced Hours	Actual Hours	EventStart	EventEnd	EventDescription
East Bend 2	U1	May-15		11.37		5/15/15 14:00	5/16/15 1:22	First stage impulse pressure isolation valve packing blown.
East Bend 2	MO	Jun-15	114.75		114.75	5/29/15 23:52	6/3/15 18:37	Secondary Air Heater Wash
East Bend 2	U1	Jun-15		40.93		6/11/15 12:39	6/13/15 5:35	Condenser Tube Leak
East Bend 2	MO	Aug-15	154.73		154.73	8/4/15 21:28	8/11/15 8:12	Waterwall tube leak/SAH pluggage
East Bend 2	MO	Nov-15	165.83		165.83	10/25/15 2:10	11/2/15 9:25	Reheat tube leak
Miami Fort 6	PO	May-15	70.95		70.95	5/9/15 23:38	5/12/15 22:35	Spring Outage
Miami Fort 6	U1	May-15		5.00		5/26/15 18:00	5/26/15 23:00	LOST SET OF FANS ID AND FD FANS TRIPPED
Miami Fort 6	PO	May-15	71.98		71.98	5/29/15 0:00	5/31/15 23:59	Planned Outage to Empty Coal from Bunkers in Preparation for Unit Retirement
Miami Fort 6	RU	Jun-16		Unit Retired		6/1/15 0:00	6/1/15 0:00	RETIRED
Woodsdale CT1	MO	May-15	74.92		74.92	5/18/15 6:00	5/21/15 8:55	Rebuilt oil coolers
Woodsdale CT1	SF	Jul-15		1174.07		6/11/15 12:20	7/30/15 10:24	Exciter windings failure, sent for repair.
Woodsdale CT1	PO	Oct-15	79.33		79.33	10/12/15 6:00	10/15/15 13:20	Install Smart Gen modifications
Woodsdale CT2	MO	May-15	76.05		76.05	5/18/15 6:00	5/21/15 10:03	Oil cooler outage
Woodsdale CT2	PO	Oct-15	79.93		79.93	10/12/15 6:00	10/15/15 13:56	Exciter modification
Woodsdale CT3	MO	May-15	52.78		52.78	5/26/15 6:00	5/28/15 10:47	Spring outage
Woodsdale CT4	MO	May-15	47.88		47.88	5/16/15 13:56	5/18/15 13:49	Replaced gas control valve
Woodsdale CT4	MO	May-15	18.47		18.47	5/18/15 14:51	5/19/15 9:19	Adjust gas control valve
Woodsdale CT5	MO	May-15	271.23		271.23	5/4/15 6:00	5/15/15 13:14	Oil cooler outage
Woodsdale CT5	PO	Oct-15	103.48		103.48	9/28/15 6:30	10/2/15 13:59	Exciter modification
Woodsdale CT6	MO	May-15	271.08		271.08	5/4/15 6:00	5/15/15 13:05	EHC valve and oil cooler outage
Woodsdale CT6	PO	Oct-15	103.28		103.28	9/28/15 6:30	10/2/15 13:47	Exciter modification

REQUEST:

List all existing fuel contracts categorized as long-term (i.e., one year or more in length).

Provide the following information for each contract:

- 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)

RESPONSE:

- a. **Alliance River View (28376)**
1717 South Boulder Ave., Suite 400
Tulsa, OK 74119
- b. River View, KY
- c. February 14, 2013

- d. January 1, 2013 through January 31, 2016
- e. N/A
- f. 2013 = 400,000; 2014 = 600,000; 2015 = 400,000
- g. 2013 = 349,392; 2014 = 584,666; 2015 YTD = 400,505
- h. 2013 = 87%; 2014 = 97%; 2015 YTD = 120%
- i. 2013 = \$43.25; 2014 = \$46.50; 2015 = \$48.00
- j. None
- k. 2013 = \$43.25; 2014 = \$46.50; 2015 = \$48.00

a. **Alliance River View (28376TR)**
1717 South Boulder Ave., Suite 400
Tulsa, OK 74119

- b. Tunnel Ridge, KY
- c. February 14, 2013
- d. January 1, 2015 through January 31, 2016
- e. Amendment 1 – January 26, 2015
- f. 2015 = 200,000
- g. 2015 YTD = 170,428
- h. 2015 YTD = 102%
- i. 2015 = \$51.00
- j. None
- k. 2015 = \$51.00

- a. **Alliance River View (30243)**
1717 South Boulder Ave., Suite 400
Tulsa, OK 74119
- b. Seabree, KY
- c. December 31, 2014
- d. January 1, 2015 through January 31, 2016
- e. N/A
- f. 2015 = 500,000
- g. 2015 YTD = 385,675
- h. 2015 YTD = 93%
- i. 2015 = \$48.00
- j. None
- k. 2015 = \$48.00

- a. **Armstrong Energy Inc. (30019)**
7733 Forsyth Boulevard, Suite 1625
St. Louis, MO 63105
- b. Centertown, KY
- c. October 27, 2014
- d. January 1, 2015 through January 31, 2016
- e. N/A
- f. 2015 = 250,000
- g. 2015 YTD = 193,554
- h. 2015 YTD = 93%
- i. 2015 = \$45.00

- j. None
- k. 2015 = \$45.00

- a. **Trafigura (29924)**
One Stamford Plaza
263 Tresser Boulevard 16th Floor
Stamford, CT 06901
- b. River View, KY
- c. September 12, 2014
- d. January 1, 2015 through December 31, 2015
- e. N/A
- f. 2015 = 200,000
- g. 2015 YTD = 151,850
- h. 2015 YTD = 91%
- i. 2015 = \$45.65
- j. None
- k. 2015 = \$45.65

Natural Gas

To date, Duke Energy Kentucky does not have any fuel contracts categorized as long-term for natural gas.

PERSON RESPONSIBLE: Brett Phipps

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

STAFF-DR-01-009

REQUEST:

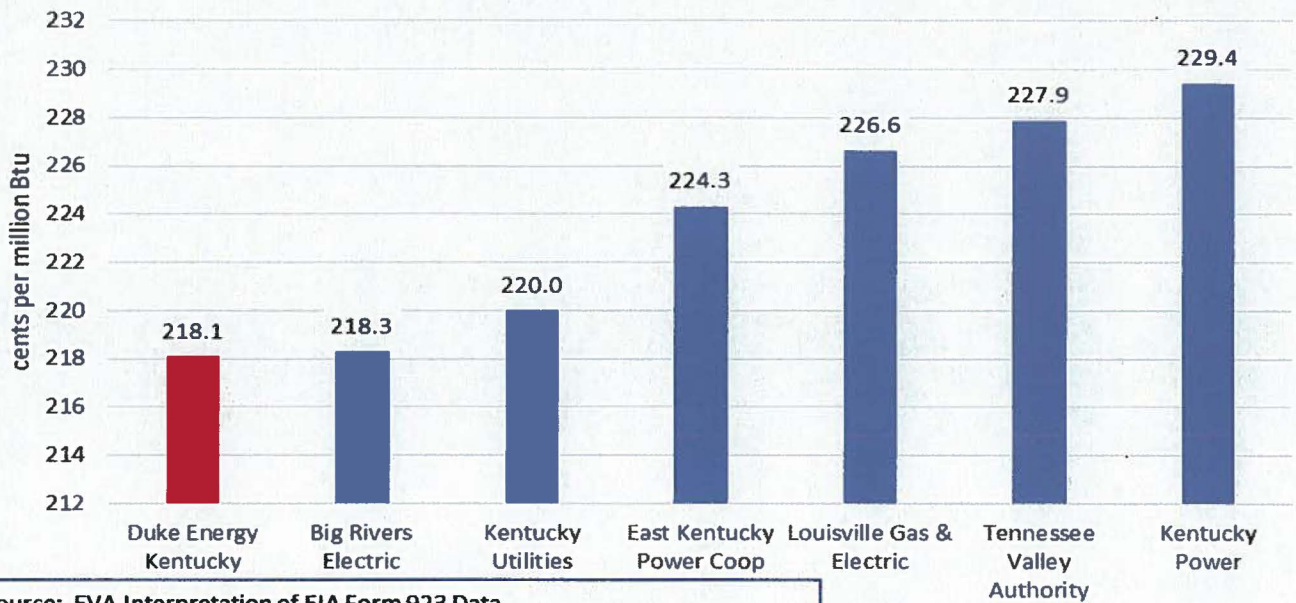
- a. State whether Duke Kentucky regularly compares the price of its coal purchases to those paid by other electric utilities.
- b. If yes, state:
 1. How Duke Kentucky's prices compare with those of other utilities. If the comparison includes months outside of the review period, a comparison limited 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 in cents per MMBtu.
 2. The utilities that are included in this comparison and their locations.

RESPONSE:

- a. Yes Duke Energy Kentucky regularly compares the price of its coal purchases to those paid by other major Kentucky electric utilities for their generating stations located in Kentucky. Please see STAFF-DR-01-009(a) Attachment.
- b. Please see STAFF-DR-01-009(b) Attachment, derived from Energy Ventures Analysis (EVA) Interpretation of EIA Form 923 data.

PERSON RESPONSIBLE: Brett Phipps

Delivered Coal Cost May - Oct 2015

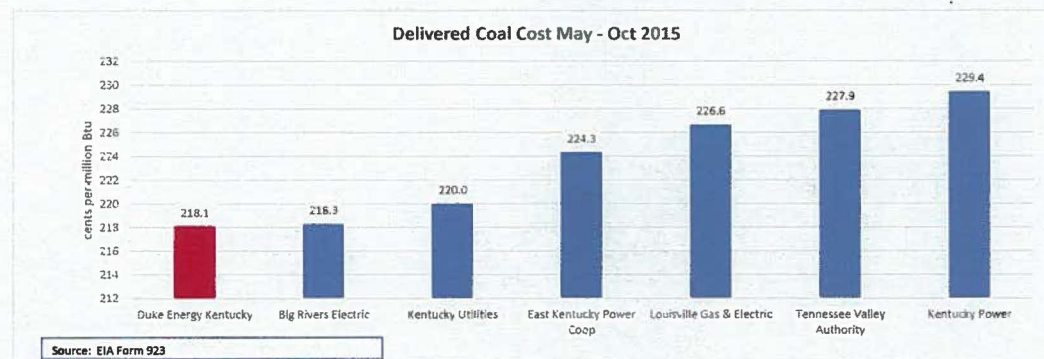


Source: EVA Interpretation of EIA Form 923 Data

Company	Plant	Pcode	ST	Coal Basin	Coal State	Mo	Tons	Btu	%S	Ash	SO2	c/mmBtu	\$/ton	MMBtu	Sulfur	Ash	Dollars
Big Rivers Electric	Green	6639	KY			5	91.7	12,957	4.24	4.5	6.54	199.1	\$51.60	2,375,330	388	415	4,730
Big Rivers Electric	Green	6639	KY			6	173.7	12,267	3.38	7.0	5.51	218.6	\$53.88	4,280,982	586	1,224	9,358
Big Rivers Electric	Green	6639	KY			7	119.6	11,696	3.19	7.8	5.48	213.6	\$49.97	2,797,965	382	929	5,976
Big Rivers Electric	Green	6639	KY			8	127.4	12,102	3.25	7.4	5.37	217.2	\$52.58	3,083,343	414	939	6,698
Big Rivers Electric	Green	6639	KY			9	87.5	12,196	3.42	7.2	5.61	222.1	\$54.17	2,133,607	299	634	4,738
Big Rivers Electric	Green	6639	KY			10	80.2	12,623	3.89	6.1	6.16	203.8	\$51.44	2,025,331	312	487	4,127
Big Rivers Electric	Henderson II	1382	KY			5	65.4	12,110	3.26	9.2	5.38	248.1	\$60.10	1,583,790	213	601	3,930
Big Rivers Electric	Henderson II	1382	KY			6	70.1	12,229	3.38	9.0	5.50	248.8	\$60.84	1,713,841	235	630	4,263
Big Rivers Electric	Henderson II	1382	KY			7	109.3	12,208	3.31	8.7	5.43	250.8	\$61.24	2,668,264	362	951	6,693
Big Rivers Electric	Henderson II	1382	KY			8	65.2	12,275	3.32	8.9	5.42	248.3	\$60.47	1,600,341	217	578	3,942
Big Rivers Electric	Henderson II	1382	KY			9	70.5	12,272	3.37	9.1	5.49	248.9	\$61.10	1,730,488	237	645	4,308
Big Rivers Electric	Henderson II	1382	KY			10	68.8	12,224	3.32	9.1	5.43	248.9	\$60.86	1,682,595	228	627	4,189
Big Rivers Electric	Wilson	6823	KY			5	190.9	12,294	3.75	5.8	6.11	198.0	\$48.69	4,692,515	716	1,109	9,293
Big Rivers Electric	Wilson	6823	KY			6	150.1	11,834	3.37	6.9	5.69	217.5	\$51.47	3,552,327	506	1,031	7,725
Big Rivers Electric	Wilson	6823	KY			7	101.2	11,545	3.03	8.1	5.25	217.0	\$50.11	2,336,614	307	823	5,071
Big Rivers Electric	Wilson	6823	KY			8	144.9	11,832	3.28	7.4	5.54	209.6	\$49.60	3,429,791	475	1,069	7,188
Big Rivers Electric	Wilson	6823	KY			9	176.4	12,208	3.48	6.3	5.67	202.8	\$49.51	4,308,728	611	1,118	8,733
Big Rivers Electric	Wilson	6823	KY			10	197.5	11,896	3.25	7.1	5.46	205.5	\$48.88	4,697,739	642	1,399	9,652
Duke Energy Kentucky	East Bend	6018	KY			5	115.7	11,754	2.93	8.7	4.99	223.5	\$52.55	2,719,202	339	1,011	6,079
Duke Energy Kentucky	East Bend	6018	KY			6	147.8	11,763	2.90	8.9	4.93	223.9	\$52.67	3,476,173	429	1,320	7,782
Duke Energy Kentucky	East Bend	6018	KY			7	162.6	11,683	2.87	8.8	4.91	233.0	\$54.45	3,800,055	467	1,423	8,855
Duke Energy Kentucky	East Bend	6018	KY			8	139.5	11,889	2.61	8.9	4.39	214.0	\$50.88	3,318,011	364	1,240	7,100
Duke Energy Kentucky	East Bend	6018	KY			9	190.2	11,989	2.49	9.4	4.16	209.9	\$50.33	4,560,955	474	1,782	9,575
Duke Energy Kentucky	East Bend	6018	KY			10	189.8	11,970	2.52	9.6	4.21	209.2	\$50.07	4,544,210	478	1,819	9,505
East Kentucky Power Coop	Cooper	1384	KY			5	21.8	12,247	1.57	10.1	2.57	263.5	\$64.55	534,859	34	221	1,409
East Kentucky Power Coop	Cooper	1384	KY			6	28.0	12,310	1.47	10.7	2.39	278.9	\$68.67	689,279	41	299	1,923
East Kentucky Power Coop	Cooper	1384	KY			7	27.9	12,230	1.36	10.8	2.22	270.2	\$66.10	683,112	38	302	1,846
East Kentucky Power Coop	Cooper	1384	KY			8	21.4	12,067	1.59	10.7	2.63	259.4	\$62.81	515,310	34	228	1,337
East Kentucky Power Coop	Cooper	1384	KY			9	20.6	12,191	1.46	10.3	2.40	243.9	\$59.47	501,849	30	212	1,224
East Kentucky Power Coop	Cooper	1384	KY			10	33.1	12,723	1.83	8.6	2.87	252.0	\$64.11	843,382	61	286	2,125
East Kentucky Power Coop	Dale	1385	KY			5	1.4	12,150	0.77	10.0	1.27	227.6	\$55.31	34,773	1	14	79
East Kentucky Power Coop	Dale	1385	KY			6	1.6	12,465	0.79	8.3	1.27	227.6	\$56.74	40,362	1	13	92
East Kentucky Power Coop	Dale	1385	KY			7	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0
East Kentucky Power Coop	Dale	1385	KY			8	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0
East Kentucky Power Coop	Dale	1385	KY			9	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0
East Kentucky Power Coop	Dale	1385	KY			10	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0
East Kentucky Power Coop	Spurlock 1-2	6041	KY			5	288.8	11,551	3.01	9.5	5.21	231.8	\$53.54	6,670,957	869	2,755	15,461
East Kentucky Power Coop	Spurlock 1-2	6041	KY			6	193.6	11,548	2.98	9.8	5.17	226.4	\$52.28	4,472,420	578	1,897	10,124
East Kentucky Power Coop	Spurlock 1-2	6041	KY			7	135.3	11,483	2.95	9.8	5.15	229.8	\$52.69	3,101,839	400	1,328	7,128
East Kentucky Power Coop	Spurlock 1-2	6041	KY			8	199.7	11,529	2.95	10.1	5.12	224.9	\$51.85	4,603,365	589	2,018	10,351
East Kentucky Power Coop	Spurlock 1-2	6041	KY			9	223.2	11,525	2.92	10.1	5.06	234.5	\$54.04	5,144,062	651	2,256	12,061
East Kentucky Power Coop	Spurlock 1-2	6041	KY			10	245.3	11,669	2.76	9.9	4.72	234.9	\$54.92	5,734,395	677	2,416	13,471
East Kentucky Power Coop	Spurlock 3-4	6041	KY			5	106.3	10,955	4.13	15.7	7.54	200.9	\$44.02	2,329,738	439	1,667	4,680
East Kentucky Power Coop	Spurlock 3-4	6041	KY			6	120.2	10,955	4.01	15.3	7.33	203.3	\$44.54	2,633,176	482	1,842	5,353
East Kentucky Power Coop	Spurlock 3-4	6041	KY			7	106.2	10,837	4.11	14.5	7.59	201.1	\$43.60	2,301,447	437	1,541	4,629
East Kentucky Power Coop	Spurlock 3-4	6041	KY			8	118.2	10,941	4.15	15.4	7.58	201.2	\$44.02	2,585,659	490	1,825	5,201
East Kentucky Power Coop	Spurlock 3-4	6041	KY			9	95.6	10,963	4.16	15.6	7.60	199.6	\$43.76	2,096,008	398	1,494	4,183
East Kentucky Power Coop	Spurlock 3-4	6041	KY			10	88.5	10,869	4.25	16.6	7.63	194.1	\$42.19	1,924,743	377	1,489	3,736
Kentucky Power	Big Sandy	1353	KY			5	122.1	12,175	0.93	10.7	1.53	220.5	\$53.70	2,972,007	114	1,305	6,554
Kentucky Power	Big Sandy	1353	KY			6	18.7	12,085	1.04	10.8	1.72	219.8	\$53.13	451,351	19	201	992
Kentucky Power	Big Sandy	1353	KY			7	45.0	11,998	1.02	9.9	1.71	208.6	\$50.05	1,079,905	46	446	2,252
Kentucky Power	Big Sandy	1353	KY			8	47.7	12,005	1.02	10.8	1.69	204.8	\$49.18	1,144,290	48	513	2,344
Kentucky Power	Big Sandy	1353	KY			9	52.7	11,971	0.98	11.3	1.63	195.3	\$46.76	1,261,595	51	597	2,464
Kentucky Power	Big Sandy	1353	KY			10	50.0	12,115	0.99	9.8	1.64	184.8	\$44.78	1,211,078	50	482	2,238
Kentucky Power	Mitchell	3948	WV			5	39.9	12,039	0.91	12.0	1.51	262.6	\$63.24	961,645	36	479	2,526
Kentucky Power	Mitchell	3948	WV			6	53.2	12,112	1.25	12.0	2.06	256.3	\$62.09	1,287,898	66	636	3,301
Kentucky Power	Mitchell	3948	WV			7	87.3	12,317	2.31	10.2	3.75	243.8	\$60.06	2,151,459	202	890	5,245
Kentucky Power	Mitchell	3948	WV			8	126.5	12,259	2.08	10.9	3.39	242.3	\$59.40	3,102,319	263	1,376	7,517
Kentucky Power	Mitchell	3948	WV			9	147.3	12,232	2.11	11.3	3.45	236.7	\$57.90	3,603,340	310	1,666	8,528
Kentucky Power	Mitchell	3948	WV			10	120.4	12,157	2.58	10.9	4.25	234.5	\$57.01	2,928,201	311	1,307	6,866
Kentucky Utilities	Brown	1355	KY			5	112.9	11,130	3.19	9.6	5.73	291.1	\$64.80	2,512,617	360	1,087	7,314
Kentucky Utilities	Brown	1355	KY			6	145.8	11,347	3.28	9.5	5.78	272.4	\$61.81	3,309,451	478	1,387	9,013

Kentucky Utilities	Brown	1355 KY	7	89.7	11,419	3.41	8.8	5.97	260.9	\$59.57	2,048,917	308	792	5,345
Kentucky Utilities	Brown	1355 KY	8	82.2	11,602	3.29	9.4	5.68	264.6	\$61.40	1,907,823	271	770	5,048
Kentucky Utilities	Brown	1355 KY	9	121.6	11,516	3.36	9.4	5.84	265.7	\$61.20	2,801,314	409	1,142	7,443
Kentucky Utilities	Brown	1355 KY	10	21.3	11,837	2.59	11.3	4.45	275.6	\$64.16	494,661	55	240	1,363
Kentucky Utilities	Ghent	1356 KY	5	533.4	11,243	2.85	10.0	5.07	215.0	\$48.35	11,995,183	1,521	5,353	25,794
Kentucky Utilities	Ghent	1356 KY	6	569.6	11,293	2.83	9.4	5.02	215.7	\$48.72	12,865,899	1,615	5,340	27,755
Kentucky Utilities	Ghent	1356 KY	7	467.9	11,288	2.93	9.3	5.18	205.1	\$46.29	10,563,764	1,369	4,344	21,661
Kentucky Utilities	Ghent	1356 KY	8	568.5	11,296	2.77	9.7	4.91	208.2	\$47.03	12,844,215	1,577	5,498	26,739
Kentucky Utilities	Ghent	1356 KY	9	217.5	11,259	2.77	9.9	4.92	205.1	\$46.18	4,898,050	603	2,163	10,044
Kentucky Utilities	Ghent	1356 KY	10	496.6	11,224	2.92	10.1	5.21	204.0	\$45.79	11,147,000	1,451	5,037	22,737
Louisville Gas & Electric	Cane Run	1363 KY	5	12.8	11,058	2.71	10.6	4.90	240.9	\$53.28	282,939	35	136	682
Louisville Gas & Electric	Cane Run	1363 KY	6	0.3	11,138	3.05	11.1	5.48	238.6	\$53.15	7,552	1	4	18
Louisville Gas & Electric	Cane Run	1363 KY	7	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Louisville Gas & Electric	Cane Run	1363 KY	8	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Louisville Gas & Electric	Cane Run	1363 KY	9	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Louisville Gas & Electric	Cane Run	1363 KY	10	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Louisville Gas & Electric	Mill Creek	1364 KY	5	259.1	12,169	3.56	9.6	5.85	229.7	\$55.91	6,306,096	822	2,489	14,487
Louisville Gas & Electric	Mill Creek	1364 KY	6	305.9	11,812	3.42	10.1	5.79	225.1	\$53.18	7,225,947	1,045	3,103	16,268
Louisville Gas & Electric	Mill Creek	1364 KY	7	259.3	11,993	3.43	9.7	5.72	230.7	\$55.34	6,220,658	889	2,527	14,352
Louisville Gas & Electric	Mill Creek	1364 KY	8	308.8	11,987	3.44	9.8	5.74	229.7	\$55.07	7,402,432	1,062	3,019	17,004
Louisville Gas & Electric	Mill Creek	1364 KY	9	318.5	11,897	3.47	10.2	5.84	224.1	\$53.31	7,579,696	1,107	3,237	16,983
Louisville Gas & Electric	Mill Creek	1364 KY	10	360.8	11,953	3.46	9.7	5.78	224.1	\$53.57	8,625,418	1,247	3,517	19,327
Louisville Gas & Electric	Trimble County	6071 KY	5	371.3	11,010	2.49	8.3	4.52	219.9	\$48.42	8,175,982	923	3,079	17,960
Louisville Gas & Electric	Trimble County	6071 KY	6	373.6	11,249	2.68	8.5	4.73	222.0	\$49.94	8,404,475	994	3,176	18,656
Louisville Gas & Electric	Trimble County	6071 KY	7	393.9	10,988	2.51	8.0	4.56	228.6	\$50.23	8,655,655	987	3,139	19,783
Louisville Gas & Electric	Trimble County	6071 KY	8	336.7	11,030	2.52	8.2	4.57	233.9	\$51.60	7,427,649	848	2,775	17,372
Louisville Gas & Electric	Trimble County	6071 KY	9	409.6	11,201	2.77	9.1	4.95	221.8	\$49.68	9,175,169	1,135	3,708	20,348
Louisville Gas & Electric	Trimble County	6071 KY	10	280.9	10,816	2.17	7.6	4.01	234.9	\$50.80	6,075,913	609	2,141	14,270
Tennessee Valley Authority	Bull Run	3396 TN	5	93.6	11,762	1.39	7.8	2.37	293.2	\$68.97	2,201,660	130	726	6,455
Tennessee Valley Authority	Bull Run	3396 TN	6	58.1	11,896	1.32	8.5	2.22	282.1	\$67.12	1,382,739	77	491	3,901
Tennessee Valley Authority	Bull Run	3396 TN	7	58.1	11,962	1.30	9.9	2.17	269.7	\$64.53	1,388,898	75	574	3,746
Tennessee Valley Authority	Bull Run	3396 TN	8	150.2	12,544	1.01	9.0	1.61	263.1	\$66.00	3,768,315	152	1,346	9,914
Tennessee Valley Authority	Bull Run	3396 TN	9	127.9	12,713	1.02	9.6	1.61	266.0	\$67.63	3,252,527	131	1,228	8,652
Tennessee Valley Authority	Bull Run	3396 TN	10	104.9	11,908	1.29	8.8	2.17	296.8	\$70.88	2,498,051	136	928	7,414
Tennessee Valley Authority	Calvert City	8837 TN	5	242.2	12,317	3.08	7.3	5.00	274.5	\$67.63	5,966,831	746	1,766	16,381
Tennessee Valley Authority	Calvert City	8837 TN	6	177.9	12,441	3.09	7.0	4.97	246.9	\$61.43	4,425,982	550	1,250	10,928
Tennessee Valley Authority	Calvert City	8837 TN	7	100.5	9,687	0.80	5.4	1.65	218.7	\$42.37	1,948,395	80	542	4,256
Tennessee Valley Authority	Calvert City	8837 TN	8	567.3	10,092	1.32	6.3	2.63	220.2	\$44.45	11,449,360	751	3,557	25,215
Tennessee Valley Authority	Calvert City	8837 TN	9	529.1	9,735	1.01	5.8	2.07	207.7	\$40.43	10,302,136	534	3,074	21,394
Tennessee Valley Authority	Calvert City	8837 TN	10	760.3	10,306	1.45	6.5	2.80	221.1	\$45.58	15,671,944	1,099	4,918	34,655
Tennessee Valley Authority	Colbert	47 AL	5	35.3	12,595	0.62	8.3	0.99	269.9	\$68.00	888,097	22	294	2,397
Tennessee Valley Authority	Colbert	47 AL	6	23.9	12,477	0.80	9.7	1.28	265.5	\$66.26	595,635	19	232	1,582
Tennessee Valley Authority	Colbert	47 AL	7	50.4	12,329	0.89	11.4	1.44	251.3	\$61.96	1,243,083	45	576	3,124
Tennessee Valley Authority	Colbert	47 AL	8	50.3	12,210	0.93	12.0	1.52	241.4	\$58.95	1,227,642	47	603	2,964
Tennessee Valley Authority	Colbert	47 AL	9	76.3	12,159	0.95	11.5	1.57	231.4	\$56.27	1,854,448	73	874	4,291
Tennessee Valley Authority	Colbert	47 AL	10	28.6	12,078	0.93	11.1	1.53	231.8	\$56.00	690,177	26	317	1,600
Tennessee Valley Authority	Cora Transfer	8835 TN	5	161.9	8,787	0.20	4.4	0.46	202.9	\$35.66	2,845,688	32	712	5,774
Tennessee Valley Authority	Cora Transfer	8835 TN	6	195.4	8,811	0.19	4.4	0.43	202.1	\$35.81	3,442,863	37	860	6,958
Tennessee Valley Authority	Cora Transfer	8835 TN	7	226.8	8,825	0.21	4.5	0.48	202.1	\$35.67	4,003,108	48	1,021	8,090
Tennessee Valley Authority	Cora Transfer	8835 TN	8	146.5	8,780	0.19	4.7	0.43	202.6	\$35.58	2,573,032	28	689	5,213
Tennessee Valley Authority	Cora Transfer	8835 TN	9	176.6	8,863	0.22	4.8	0.49	198.8	\$35.24	3,131,298	38	854	6,225
Tennessee Valley Authority	Cora Transfer	8835 TN	10	287.3	8,833	0.21	4.6	0.48	197.9	\$34.95	5,075,550	60	1,323	10,043
Tennessee Valley Authority	Cumberland	3399 TN	5	346.2	12,064	2.26	8.9	3.74	234.5	\$56.58	8,352,755	781	3,064	19,586
Tennessee Valley Authority	Cumberland	3399 TN	6	397.3	12,025	2.77	8.8	4.60	228.9	\$55.06	9,555,232	1,099	3,514	21,875
Tennessee Valley Authority	Cumberland	3399 TN	7	358.5	12,020	2.80	8.5	4.67	228.5	\$54.44	8,819,155	1,006	3,056	19,519
Tennessee Valley Authority	Cumberland	3399 TN	8	379.4	12,037	2.70	8.5	4.48	221.9	\$53.43	9,133,683	1,023	3,211	20,271
Tennessee Valley Authority	Cumberland	3399 TN	9	375.2	11,841	2.86	8.4	4.83	231.3	\$54.78	8,886,213	1,073	3,159	20,554
Tennessee Valley Authority	Cumberland	3399 TN	10	407.8	11,946	2.90	8.4	4.85	222.2	\$53.09	9,744,282	1,181	3,438	21,651
Tennessee Valley Authority	Gallatin	3403 TN	5	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Tennessee Valley Authority	Gallatin	3403 TN	6	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Tennessee Valley Authority	Gallatin	3403 TN	7	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Tennessee Valley Authority	Gallatin	3403 TN	8	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Tennessee Valley Authority	Gallatin	3403 TN	9	10.0	10,000	1.05	11.0	2.10	226.0	\$45.20	200,160	11	110	452
Tennessee Valley Authority	Gallatin	3403 TN	10	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Tennessee Valley Authority	GRT Terminal	8834 TN	5	42.3	9,669	0.97	5.9	2.00	189.8	\$36.70	817,011	41	249	1,551

Tennessee Valley Authority	GRT Terminal	8834 TN	6	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Tennessee Valley Authority	GRT Terminal	8834 TN	7	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Tennessee Valley Authority	GRT Terminal	8834 TN	8	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Tennessee Valley Authority	GRT Terminal	8834 TN	9	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Tennessee Valley Authority	GRT Terminal	8834 TN	10	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Tennessee Valley Authority	Kingston	3407 TN	5	143.4	10,061	1.19	6.0	2.36	257.8	\$51.87	2,885,307	170	866	7,437
Tennessee Valley Authority	Kingston	3407 TN	6	271.0	10,484	1.50	6.5	2.87	264.2	\$55.39	5,683,125	408	1,769	15,014
Tennessee Valley Authority	Kingston	3407 TN	7	318.9	9,853	1.18	6.5	2.39	256.0	\$50.45	6,284,542	376	2,059	16,091
Tennessee Valley Authority	Kingston	3407 TN	8	283.3	10,258	1.57	6.9	3.07	262.8	\$53.92	5,811,558	446	1,952	15,274
Tennessee Valley Authority	Kingston	3407 TN	9	297.1	10,251	1.48	6.7	2.90	261.6	\$53.63	6,090,928	441	1,980	15,933
Tennessee Valley Authority	Kingston	3407 TN	10	193.4	11,237	2.33	7.7	4.14	275.7	\$61.97	4,346,267	450	1,489	11,985
Tennessee Valley Authority	Paradise	1378 KY	5	503.3	11,767	2.85	9.3	4.85	245.9	\$57.88	11,843,617	1,435	4,683	29,127
Tennessee Valley Authority	Paradise	1378 KY	6	450.6	11,772	2.89	8.9	4.92	240.9	\$56.71	10,607,971	1,304	3,992	25,552
Tennessee Valley Authority	Paradise	1378 KY	7	374.3	11,815	2.89	8.6	4.89	235.3	\$55.60	8,845,364	1,082	3,221	20,811
Tennessee Valley Authority	Paradise	1378 KY	8	420.7	11,806	2.93	8.6	4.96	234.2	\$55.31	9,933,236	1,232	3,632	23,267
Tennessee Valley Authority	Paradise	1378 KY	9	444.6	11,864	2.88	8.4	4.85	230.3	\$54.64	10,549,095	1,280	3,732	24,293
Tennessee Valley Authority	Paradise	1378 KY	10	513.0	11,771	2.85	8.3	4.85	233.0	\$54.86	12,076,529	1,463	4,245	28,141
Tennessee Valley Authority	Shawnee	1379 KY	5	382.8	8,866	0.31	5.0	0.69	176.4	\$31.27	6,784,621	118	1,930	11,965
Tennessee Valley Authority	Shawnee	1379 KY	6	396.9	8,898	0.29	4.9	0.66	174.9	\$31.13	7,064,165	116	1,954	12,357
Tennessee Valley Authority	Shawnee	1379 KY	7	414.4	8,840	0.33	5.5	0.75	176.1	\$31.14	7,327,040	137	2,295	12,905
Tennessee Valley Authority	Shawnee	1379 KY	8	352.8	8,899	0.35	5.2	0.80	174.8	\$31.12	6,279,781	125	1,847	10,979
Tennessee Valley Authority	Shawnee	1379 KY	9	289.9	8,965	0.31	5.3	0.70	173.1	\$31.03	5,198,397	91	1,533	8,997
Tennessee Valley Authority	Shawnee	1379 KY	10	360.9	8,908	0.27	5.3	0.62	172.4	\$30.71	6,429,817	99	1,900	11,085
Tennessee Valley Authority	Widows Creek 7-8	50 AL	5	42.0	11,447	1.44	6.7	2.52	279.1	\$63.90	962,029	61	282	2,685
Tennessee Valley Authority	Widows Creek 7-8	50 AL	6	105.1	11,500	1.44	7.0	2.50	277.4	\$63.80	2,416,840	151	736	6,704
Tennessee Valley Authority	Widows Creek 7-8	50 AL	7	52.6	11,577	1.45	6.7	2.50	276.6	\$64.04	1,218,688	76	353	3,371
Tennessee Valley Authority	Widows Creek 7-8	50 AL	8	31.5	11,500	1.37	7.0	2.38	284.8	\$65.50	723,373	43	220	2,060
Tennessee Valley Authority	Widows Creek 7-8	50 AL	9	21.0	11,500	1.45	7.0	2.52	275.0	\$63.25	483,368	30	147	1,329
Tennessee Valley Authority	Widows Creek 7-8	50 AL	10	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	0	0	0
Duke Energy Kentucky				945.6	11,854	2.70	9.1	4.55	218.1	\$51.71	22,418,607	2,551	8,596	48,895
Big Rivers Electric				2,090.2	12,121	3.41	7.3	5.63	218.3	\$52.92	50,671,592	7,131	15,207	110,615
Kentucky Utilities				3,427.1	11,291	2.92	9.7	5.18	220.0	\$49.68	77,388,694	10,014	33,153	170,256
East Kentucky Power Coop				2,076.7	11,422	3.19	11.6	5.59	224.3	\$51.24	47,440,735	6,625	24,083	106,413
Louisville Gas & Electric				3,991.5	11,470	2.96	9.0	5.16	226.6	\$51.99	91,565,580	11,804	36,049	207,530
Tennessee Valley Authority				13,409.4	10,701	1.66	7.1	3.11	227.9	\$48.77	286,979,618	22,286	95,372	653,994
Kentucky Power				910.8	12,163	1.67	10.9	2.74	229.4	\$55.81	22,155,088	1,518	9,910	50,827



Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016

STAFF-DR-01-010

REQUEST:

State the percentage of Duke Kentucky's coal, as the date of this Order, that is delivered by:

- a. Rail;
- b. Truck; or
- c. Barge.

RESPONSE:

Please reference Duke Energy Kentucky Case Nos. 2013-00265, 2013-00448, and 2014-00229 for the dates of November 1, 2012 – April 30, 2014. For this review period of May 1, 2015 – October 31, 2015, below are the percentages based on delivery methods to Duke Energy Kentucky:

	Rail % (a)	Truck % (b)	Barge % (c)
East Bend	0	0	100
Miami Fort 6	0	0	100

PERSON RESPONSIBLE: Brett Phipps

Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016

STAFF-DR-01-011

REQUEST:

- a. State Duke Kentucky's coal inventory level in tons and in number of days' supply as of October 31, 2015. Provide this information by generating station and in the aggregate.
- b. Describe the criteria used to determine number of day's supply.
- c. Compare Duke Kentucky's coal inventory as of October 31, 2015, to its inventory target for that date for each plant and for total inventory.
- d. If actual coal inventory exceeds inventory target by ten day's supply, state the reasons for excessive inventory.
- e. (1) State whether Duke Kentucky expects any significant changes in its current coal inventory target within the next 12 months.

(2) If yes, state the expected change and the reasons for this change.

RESPONSE:

Duke Energy Kentucky's total aggregate inventory across the system as of October 31, 2015 was 253,750 tons, or 39 days.

EAST BEND:

- a. As of October 31, 2015, total station inventory at East bend was 253,750 tons, or 39 days.

- b. The number of day's supply is computed by dividing an ending coal inventory figure stated in tons by the Full Load Burn per day figure of 6,500 tons.
- c. Inventory target is approximately 40 days compared to 39 days of inventory on October 31, 2015.
- d. N/A
- e. 1. No
2. N/A

MIAMI FORT #6:

- a. As of October 31, 2015, total Station inventory at Miami Fort #6 was 0 tons or 0 days.
- b. N/A.
- c. N/A
- d. N/A
- e. 1. Yes.
2. Duke Energy Kentucky retired Miami Fort #6 on June 1, 2015.

PERSON RESPONSIBLE: Brett Phipps

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

STAFF-DR-01-012

REQUEST:

- a. State whether Duke Kentucky has audited any of its coal contracts during the period from May 1, 2015, through October 31, 2015.
- b. If 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 Duke Kentucky took as a result of the audit.

RESPONSE:

East Bend:

- a. Duke Energy Kentucky has not audited any of its coal contracts during the period from May 1, 2015 through October 31, 2015.
- b. N/A

Miami Fort #6

- a. Duke Energy Kentucky has not audited any of its coal contracts during the period from May 1, 2015 through October 31, 2015.
- b. N/A

PERSON RESPONSIBLE: Brett Phipps

Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016

STAFF-DR-01-013

REQUEST:

- a. State whether Duke Kentucky has received any customer complaints regarding its FAC during the period from May 1, 2015, through October 31, 2015.
- b. If yes, for each complaint, state:
 1. The nature of the complaint; and
 2. Duke Kentucky's response.

RESPONSE:

Duke Energy Kentucky has not received any customer complaints regarding its FAC during the period from May 1, 2015, through October 31, 2015.

PERSON RESPONSIBLE: Theodore H. Czupik Jr.

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

STAFF-DR-01-014

REQUEST:

- a. State whether Duke Kentucky is currently involved in any litigation with its current or former coal suppliers.
- b. If yes, for each litigation:
 1. Identify the coal supplier;
 2. Identify the coal contract involved;
 3. State the potential liability or recovery to Duke Kentucky;
 4. List the issues presented; and
 5. Provide a copy of the complaint or other legal pleading that initiated the litigation and any answers or counterclaims. If a copy has previously been filed with the Commission, provide the date on which it was filed and the case in which it was filed.
- c. State the current status of all litigation with coal suppliers.

RESPONSE:

East Bend and Miami Fort 6:

For this review period of May 1, 2015 – October 31, 2015, Duke Energy Kentucky is not currently involved in any litigation with its current or former coal suppliers.

PERSON RESPONSIBLE: Brett Phipps

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

**PUBLIC STAFF-DR-01-015
As to Attachments only**

REQUEST:

- a. During the period from May 1, 2015, through October 31, 2015, have there been any changes to Duke Kentucky's written policies and procedures regarding its fuel procurement?
- b. If yes:
 1. Describe the changes;
 2. Provide the written policies and procedures as changed;
 3. State the date(s) the changes were made; and
 4. Explain why the changes were made.
- c. If no, provide the date Duke Kentucky'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.

RESPONSE:

CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachments only)

- a. Duke Energy Kentucky's fuel procurement policies or procedures have not changed, however, the written documentation describing the fuel procurement policies or procedures have been updated.

b. Please see the following:

1. Duke Energy Kentucky's fuel procurement policies or procedures have not changed, however, the written documentation for some sections of the policies or procedures were consolidated and streamlined, and any provisions that existed in other policies or procedures documents were removed to eliminate unnecessary redundancy.
2. Please see Confidential Attachments STAFF-DR-01-015(a), (b), (c), and (d) filed under seal with the Commission under a Petition for Confidential Treatment.
3. Various. The "Regulated Utilities Risk Management Control Manual" and "Regulated Utilities Risk Limits" documents were updated January of 2016. The "Coal and Emissions Reducing Chemicals Procurement Procedure" was updated June of 2014. The "Commodity Risk Policy" was updated January of 2014.
4. It was determined that the written documentation of all policies and procedures should be consolidated and streamlined after the merger with Progress Energy.

c. N/A

PERSON RESPONSIBLE: Brett Phipps

CONFIDENTIAL
TREATMENT HAS BEEN
REQUESTED FOR
STAFF-DR-01-015
ATTACHMENTS A - D

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

STAFF-DR-01-016

REQUEST:

- a. State whether Duke Kentucky is aware of any violations of its policies and procedures regarding fuel procurement that occurred prior to or during the period from May 1, 2015, through October 31, 2015.
- b. If yes, for each violation:
 1. Describe the violation;
 2. Describe the action(s) that Duke Kentucky took upon discovering the violation; and
 3. Identify the person(s) who committed the violation.

RESPONSE:

EAST BEND and MIAMI FORT #6:

- a. Duke Energy Kentucky is not aware of any violations of its policies and procedures.
- b. N/A

PERSON RESPONSIBLE: Brett Phipps

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

STAFF-DR-01-017

REQUEST:

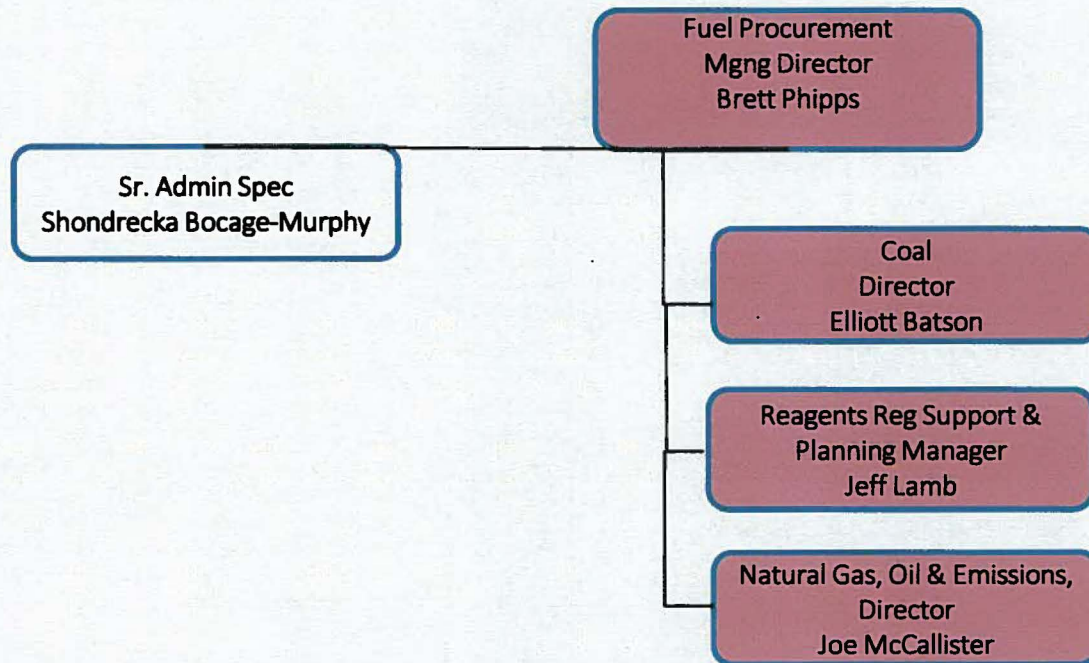
Identify and explain the reasons for all changes in the organizational structure and personnel of the departments or divisions that are responsible for Duke Kentucky's fuel procurement activities that occurred during the period from May 1, 2015, through October 31, 2015.

RESPONSE:

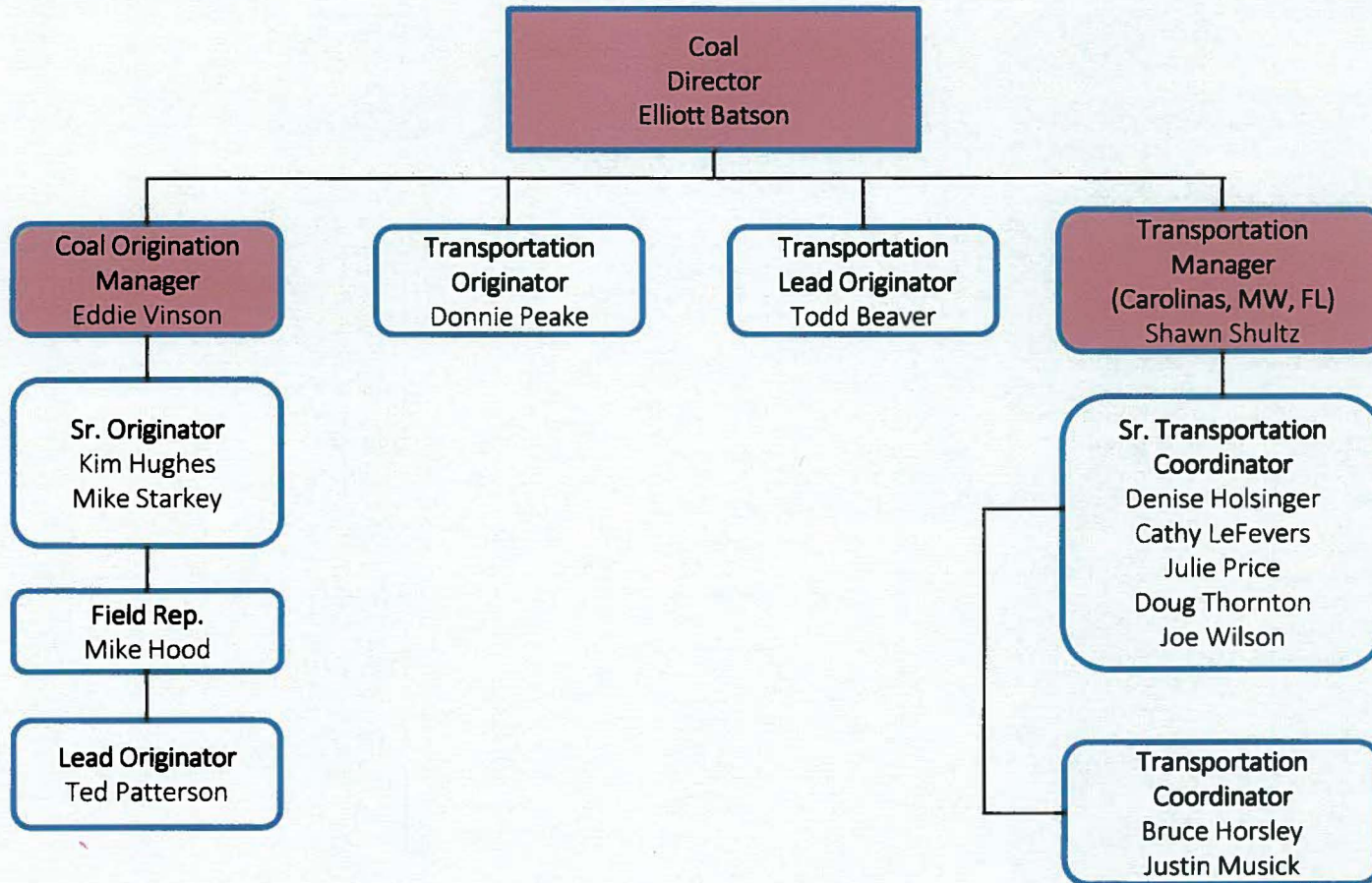
For this review period of May 1, 2015 – October 31, 2015, there were four personnel changes in the departments or divisions that are responsible for Duke Energy Kentucky's fuel procurement activities. Eddie Vinson assumed the position of Coal Origination management for all of Duke Energy's regulated businesses. Shawn Shultz assumed Coal Transportation management duties for all of Duke Energy's regulated businesses. Donnie Peake assumed the Coal Transportation Origination for all of Duke Energy's regulated businesses. Mike Starkey assumed Coal Origination responsibility for Duke Energy Kentucky and Duke Energy Florida. Please see STAFF-DR-01-017 Attachment.

PERSON RESPONSIBLE: Brett Phipps

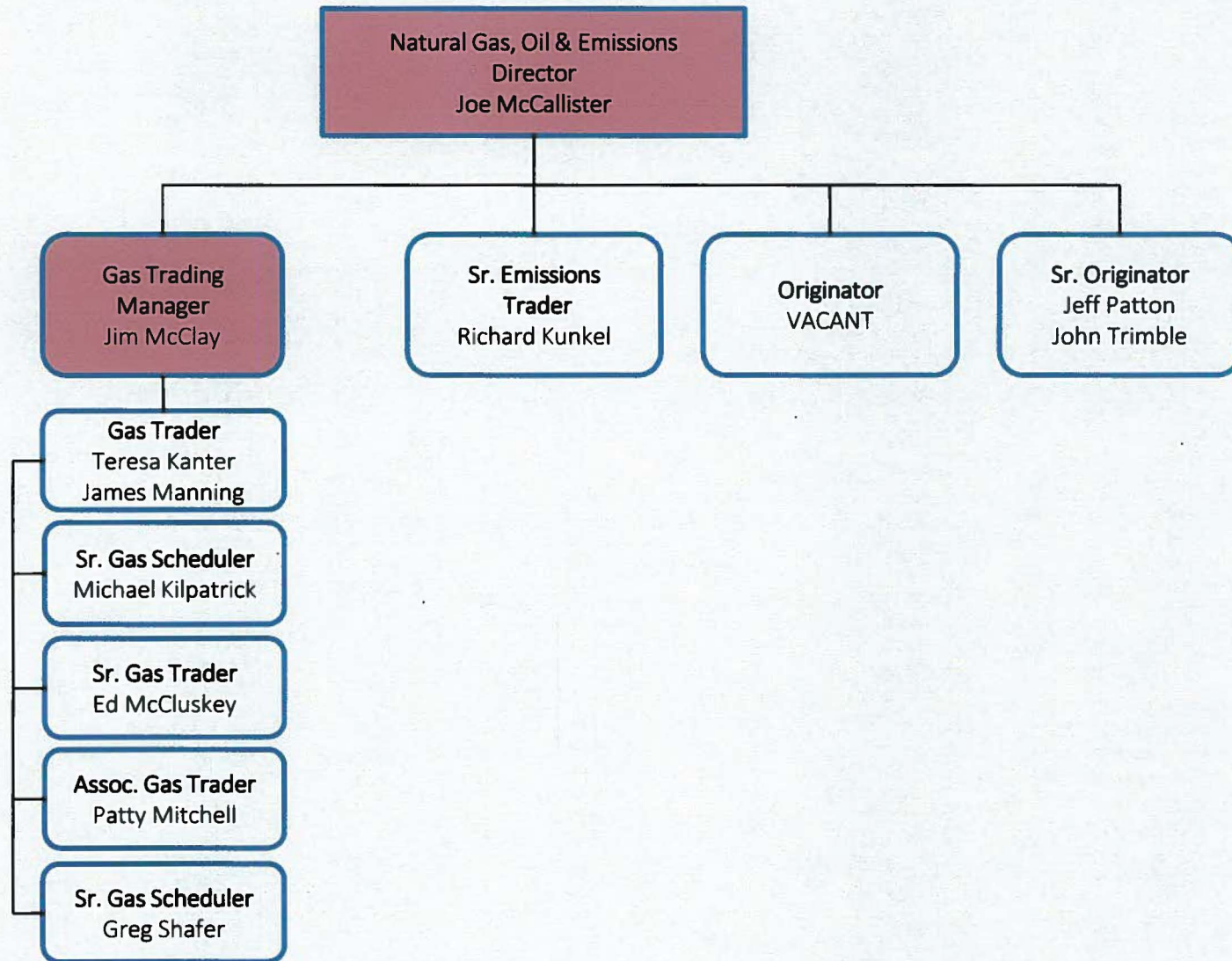
Duke Energy Fuels & Systems Optimization



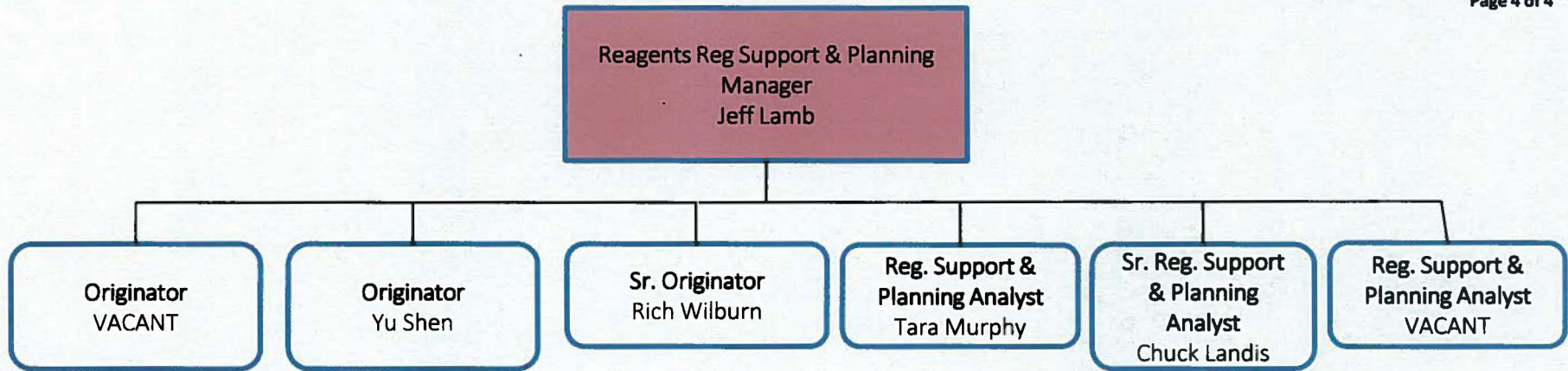
Fuel Procurement



Fuel Procurement



Fuel Procurement



REQUEST:

- a. Identify all changes that Duke Kentucky has made during the period under review to its maintenance and operation practices that also affect fuel usage at Duke Kentucky's generation facilities.
- b. Describe the impact of these changes on Duke Kentucky's fuel usage.

RESPONSE:

- a. Starting in the summer of 2014, an analysis was completed and the decision was made to operate Miami Fort 6 at a reduced main steam pressure. Due to the unit approaching the end of its useful life, it was experiencing frequent boiler wall tube leak outages when operating at full pressure operation. Once reduced pressure operation began, a significant reduction in boiler tube leaks occurred. The reduced pressure operation resulted in the unit operating with an approximate 27 MW planned derate for most of the period from the summer of 2014 thru the units retirement, although during the last two months of the units operation the derate did increase to approximately a 40 MW. The result of the planned derate resulted in a lower unit EFOR. Consequently, it is believed that the reduction in pressure has actually allowed more energy to be generated, reduced maintenance expenses for repairs to critical boiler components, reduced unit downtime, and

improved cyclic operation of equipment. The Company's strategy has had the overall effect of a more predictable base load operation.

- b. The major impact on this change is to the unit's capability. The impact to the unit's individual heat rate is minimal.

PERSON RESPONSIBLE: John Swez

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

**PUBLIC STAFF-DR-01-019
(As to Attachment Only)**

REQUEST:

List each written coal supply solicitation issued during the period from May 1, 2015, through October 31, 2015.

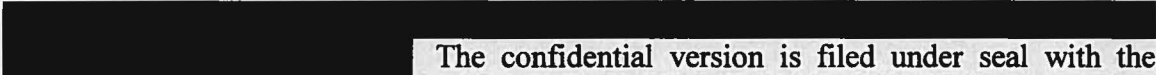
- a. For each solicitation, provide the date of the solicitation, the type of solicitation (contract or spot), the quantities solicited, a general description of the quality of coal solicited, the time period over which deliveries were requested, and the generating unit(s) for which the coal was intended.
- 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 ranked the proposals. (This document should identify all vendors who made offers.) State the reasons for each selection. For each lowest-cost bid not selected, explain why the bid was not selected.

RESPONSE:

- a. Duke Energy Kentucky sent out a written coal solicitation on August 17, 2015. The solicitation was for all quantities and qualities of coal available for the time period of January 1, 2016 through December 31, 2018. The solicitation was intended for any and all of Duke Energy generating units.

- b. The solicitation was sent to more than fifty (50) counterparties as well as industry trade publications. There were forty-six (46) counterparties who responded to the solicitation. Agreements were reached with four counterparties identified in the attachment referenced below.

CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachment Only)

 The confidential version is filed under seal with the Commission under a Petition for Confidential Treatment.

PERSON RESPONSIBLE: Brett Phipps

CONFIDENTIAL

TREATMENT HAS BEEN

REQUESTED FOR STAFF-

DR-01-019 ATTACHMENT

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

**PUBLIC STAFF-DR-01-020
(As to Attachment Only)**

REQUEST:

List each oral coal supply solicitation issued during the period from May 1, 2015, through October 31, 2015.

- 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 tabulation sheet or other document that ranked the proposals. (This document should identify all vendors who made offers.) State the reasons for each selection. For each lowest-cost bid not selected, explain why the bid was not selected.

RESPONSE:

CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachment Only)

This response has been filed with the Commission under a Petition for Confidential Treatment.

- a. Duke Energy Kentucky completed oral coal solicitations in late May 2015 and early August 2015. These were the only oral coal solicitations during the review period.

b. The May and August 2015 oral coal solicitations were sent to approximately 40 coal producers and sellers. See STAFF-DR-01-020(a) Confidential Attachment for a summary of all May 2015 oral coal solicitation offers for the period June 1, 2015 to December 31, 2015, filed with the Commission under a Petition for Confidential Treatment. We purchased coal from three counterparties identified in the attachment from the May 2015 oral coal solicitation. See STAFF-DR-01-020(b) Confidential Attachment for a summary of all August 2015 oral coal solicitation offers that were intended for any and all of Duke Energy generating units if needed specifically for the fourth quarter of 2015. Duke Energy Kentucky did not purchase coal from the August 2015 oral coal solicitation.

PERSON RESPONSIBLE: Brett Phipps

CONFIDENTIAL

TREATMENT HAS BEEN

REQUESTED FOR STAFF-

DR-01-020 ATTACHMENT

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

STAFF-DR-01-021

REQUEST:

- a. List all intersystem sales during the period under review in which Duke Kentucky 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 that line loss factor was determined.

RESPONSE:

- a. Duke Energy Kentucky sells 100% of its generation to PJM Interconnection, L.L.C. These sales are made at the generating station; consequently, no third party transmission was used.
- b. Not Applicable

PERSON RESPONSIBLE: Theodore H. Czupik Jr. / John Swez

Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016

STAFF-DR-01-022

REQUEST:

- 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 Duke Kentucky made to its methodology for calculating intersystem sales line losses during the period under review.

RESPONSE:

- a. Not applicable. See response to Staff-DR-01-021.
- b. Not applicable. See response to Staff-DR-01-021.

PERSON RESPONSIBLE: Theodore H. Czupik Jr. / John Swez

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

STAFF-DR-01-023

REQUEST:

State whether, during the period under review, Duke Kentucky has solicited bids for coal with the restriction that it was not mined through strip mining or mountaintop removal. If 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.

RESPONSE:

EAST BEND & MIAMI FORT #6:

For this review period of May 1, 2015 – October 31, 2015, Duke Energy Kentucky did not solicit bids with a restriction to exclude bids mined through strip mining or mountain top removal.

PERSON RESPONSIBLE: Brett Phipps

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

STAFF-DR-01-024

REQUEST:

Provide a detailed discussion of any specific generation efficiency improvements Duke Kentucky has undertaken during the period under review.

RESPONSE:

Duke Energy Kentucky utilizes good utility practice in operating its generation units. As such, there are numerous activities associated with operating a generating unit that affect the units' efficiency. However, no major specific generation efficiency improvements were undertaken during this period.

PERSON RESPONSIBLE: John Swez

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

STAFF-DR-01-025

REQUEST:

State whether all long-term fuel 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.

RESPONSE:

Coal

All long term related commodity and/or transportation contracts have been filed with the Commission for Duke Energy Kentucky generating stations.

Natural Gas

There are no long term fuel contracts related to commodity and/or transportation that have been filed with the Commission because all contracts are on a spot basis.

PERSON RESPONSIBLE: Brett Phipps

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

STAFF-DR-01-026

REQUEST:

By month, for the period of May 1, 2015, through October 31, 2015, provide the amount of power purchases in excess of Duke Kentucky's highest-cost generating unit available to be dispatched to serve native load during the reporting expense month that was included in Duke Kentucky's FAC calculation.

RESPONSE:

There were no instances during the period May 1, 2015 through October 31, 2015 where Duke Energy Kentucky purchased power at a cost greater than Duke Energy Kentucky's highest cost generating unit available to be dispatched to serve native load.

PERSON RESPONSIBLE: Scott Burnside

**Duke Energy Kentucky
Case No. 2016-00005
Staff First Set Data Requests
Date Received: February 5, 2016**

**PUBLIC STAFF-DR-01-027
(As to Attachment Only)**

REQUEST:

For each month of the review period, provide Duke Kentucky's calculations and supporting data for determining the amount of power purchases in excess of its highest-cost unit available to be dispatched during the month. The calculations and supporting data should be provided for every month of the review period, even if the amount excluded from recovery through the FAC during the expense month was zero.

RESPONSE:

CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachment Only)

Please see STAFF-DR-01-027 Confidential Attachment. This document was submitted under seal with a Petition for Confidential Treatment.

PERSON RESPONSIBLE: Scott Burnside

CONFIDENTIAL

TREATMENT HAS BEEN

REQUESTED FOR STAFF-

DR-01-027 ATTACHMENT