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Libbie S. Miller  
Rates & Regulatory Lead Analyst

October 16, 2020

Mr. Kent A. Chandler, Acting Executive Director

Kentucky Public Service Commission  
211 Sower Boulevard  
P.O. Box 615  
Frankfort, Kentucky 40602-0615

RECEIVED

OCT 16 2020

PUBLIC SERVICE  
COMMISSION

Dear Mr. Chandler:

In compliance with 807 KAR 5:056, enclosed for the month of August 2020 are Duke Energy Kentucky's supplemental schedules for the fuel adjustment clause applied to customers' bills in the month of October 2020.

The fuel costs are documented on the attached schedules.

1. Fuel Inventory Schedule – Coal
2. Fuel Inventory Schedule – Gas
3. Fuel Inventory Schedule – Oil
4. Purchased Power & Sales Schedule
5. Coal Contract Details
6. Gas/Propane Purchases Details
7. Unit Performance Data
8. Analysis of Purchased Power Cost vs. DEK Highest Cost Generation
9. Net Fuel Related RTO Billing Line Items

On March 16, 2020, the Commission issued an order in Case No. 2020-00085, Electronic Emergency Docket Related to the Novel Coronavirus COVID-19. The order indicated that "The Commission finds that, to the degree possible, the filing of physical documents with the Commission should be temporarily suspended." Accordingly, Duke Energy Kentucky is making this filing electronically and will file an original of the reports with the Commission once the state of emergency has ceased.

Please contact me if you have any questions.

Sincerely,

/s/ Libbie S. Miller

Enclosure

**DUKE ENERGY KENTUCKY**

**Fuel Type:** Coal  
**Month Ended:** August 31, 2020

**Unit:** → East Bend Unit 2

	Amount	MMBtu	Per Unit	Tons	Per Unit
Beginning Inventory	\$ 10,314,055	N/A	N/A	225,887	\$ 45.66
Purchases	<u>\$ 7,944,881</u>	<u>4,312,803</u>	<u>\$ 1.84</u>	<u>183,861</u>	<u>\$ 43.21</u>
Sub-Total	\$ 18,258,936	N/A	N/A	409,748	\$ 44.56
Less: Fuel Burned	<u>\$ 7,864,885</u>	<u>4,171,279</u>	<u>\$ 1.89</u>	<u>176,495</u>	<u>\$ 44.56</u>
Ending Inventory	<u><u>\$ 10,394,051</u></u>	<u><u>N/A</u></u>	<u><u>N/A</u></u>	<u><u>233,253</u></u>	<u><u>\$ 44.56</u></u>

Note: Beginning and Ending Inventory MMBtu and Per Unit Cost Per MMBtu are not meaningful and therefore are not reported upon. This is the result of quality variances that occur over time between the received quality and the consumed quality of coal. Only the received and consumed MMBtu's are reported.

Note: Totals may not foot due to rounding

\* - Amount of KY sourced coal burned

Total Tons Burned  
 % of KY Sourced Coal Purchased  
 Tons of KY Sourced Coal Burned

East Bend Unit 2
<u>176,495</u>
<u>0.00%</u>
<u><u>0</u></u>

## DUKE ENERGY KENTUCKY

Fuel Type: Gas  
 Month Ended: August 31, 2020  
 Unit: Woodsdale

	Amount (\$)	MCF	\$/MCF
Beginning Inventory	\$ -	-	-
Purchases *	\$ 343,250	117,920	\$ 2.91
Sub-Total	\$ 343,250	117,920	\$ 2.91
Less: Fuel Burned	\$ 343,250	117,920	\$ 2.91
Ending Inventory	\$ -	-	\$ -

Note: Totals may not foot due to rounding

**DUKE ENERGY KENTUCKY**

**Fuel Type:** Oil  
**Month Ended:** August 31, 2020  
**Unit:** East Bend

	Amount (\$)	Gallons	\$/Gallon
Beginning Inventory	\$ 475,839	288,659	\$ 1.65
Purchases	\$ 83,202	59,578	\$ 1.40
Sub-Total	\$ 559,041	348,237	\$ 1.61
Less: Fuel Burned	\$ 83,128	51,782	\$ 1.61
Ending Inventory	\$ 475,913	296,455	\$ 1.61

**Fuel Type:** Oil  
**Month Ended:** August 31, 2020  
**Unit:** Woodsdale

	Amount (\$)	Gallons	\$/Gallon
Beginning Inventory	\$ 8,550,356	3,972,421	\$ 2.15
Purchases	\$ -	-	\$ -
Sub-Total	\$ 8,550,356	3,972,421	\$ 2.15
Less: Fuel Burned	\$ -	-	\$ -
Ending Inventory	\$ 8,550,356	3,972,421	\$ 2.15

Total DEK Ending Inventory	\$ 9,026,269
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Note: Totals may not foot due to rounding



**DUKE ENERGY KENTUCKY**

**Resource Type:**  
**Month Ended:**

**Purchased Power & Sales**  
**August 31, 2020**

Supplier/Buyer	Transaction Type	kWh	Charges (\$)			
			Demand	Fuel	Other	Total
PJM Interconnection, LLC	Econ Purch	31,982,420			743,067	743,067
L'Oreal USA	Econ Purch	4			0	0
ICAP Energy LLC. (ICAP B)	Financial Hedges				352	352
IntercontinentalExchange, L.L.C. (Intercont Exchng B)	Financial Hedges				4,110	4,110
Wells Fargo Securities, LLC (Wells Fargo Secur)	Financial Hedges				33	33
	<b>Total Purchases</b>	<u>31,982,424</u>	<u>0</u>	<u>0</u>	<u>747,562</u>	<u>747,562</u>
PJM Interconnection, LLC	Econ Sales	22,111,720		563,813	(18,465)	545,348
	<b>Total Sales</b>	<u>22,111,720</u>	<u>0</u>	<u>563,813</u>	<u>(18,465)</u>	<u>545,348</u>

DUKE ENERGY KENTUCKY

Coal Contract Details

Month Ended:

August 31, 2020

Station Name	MSHA	State	Supplier	Purchase Order	Transport Method	Tons	Btu/lb	MMBtu/Ton	Price (@ mine)		Transport Cost		Delivered Cost		Quality		
	ID	Abbrev.							\$/ton	¢/MMBtu	\$/ton	¢/MMBtu	\$/ton	¢/MMBtu	%SO <sub>2</sub>	%Ash	%H <sub>2</sub> O
East Bend _1/	4608864	WV	Alliance Coal LLC	DEK 32262	Barge	23,552	12,653	25.306	44.81	177.08	3.19	12.61	48.00	189.69	2.76%	8.62%	6.43%
	4608864	WV	Alliance Coal LLC	DEK 33073	Barge	33,714	12,636	25.272	46.49	183.95	3.19	12.62	49.68	196.57	2.82%	8.67%	6.50%
	1103143	IL	Central Coal Co	DEK 33982	Barge	42,448	11,251	22.502	32.16	142.93	5.10	22.66	37.26	165.60	3.00%	8.20%	12.79%
	1100726	IL	Foresight Coal Sales	DEK 32274	Barge	35,117	11,485	22.970	35.20	153.23	3.06	13.30	38.25	166.53	3.16%	8.56%	11.69%
	1103143	IL	Knighthawk	DEK 33097	Barge	49,030	11,248	22.496	39.80	176.91	5.37	23.86	45.17	200.78	3.02%	8.26%	12.76%
Total Contract						<u>183,861</u>	<u>11,728</u>	<u>23.457</u>	<u>39.03</u>	<u>165.86</u>	<u>4.19</u>	<u>18.07</u>	<u>43.21</u>	<u>183.92</u>			
Total East Bend						<u>183,861</u>	<u>11,728</u>	<u>23.457</u>	<u>39.03</u>	<u>165.86</u>	<u>4.19</u>	<u>18.07</u>	<u>43.21</u>	<u>183.92</u>			
			KY sourced coal as % of total tons received			0.00%											
Total Duke Energy Kentucky System						<u>183,861</u>	<u>11,728</u>	<u>23.457</u>	<u>39.03</u>	<u>165.86</u>	<u>4.19</u>	<u>18.07</u>	<u>43.21</u>	<u>183.92</u>			

\_1/ East Bend receipts by vendor in total

## DUKE ENERGY KENTUCKY

## Gas/Propane Purchases Details

Month Ended: August 31, 2020

Station Name	Supplier	Purchase Order	Transport Method	MCF	Btu/MCF	Delivered Cost		Quality
						\$/MCF	\$/MMBtu	%SO <sub>2</sub>
Woodsdale	SPOTLIGHT	N/A	Pipeline	27,237	1.028	\$ 2.80	2.72	N/A
Woodsdale	SEQUENT ENERGY	N/A	Pipeline	-	1.028			N/A
Woodsdale	ECO-ENERGY	N/A	Pipeline	76,091	1.028	\$ 2.96	2.88	N/A
Woodsdale	NJR	N/A	Pipeline	-	1.028			N/A
Woodsdale	TENASKA	N/A	Pipeline	14,592	1.028	\$ 2.88	2.80	N/A
				117,920	1.028	\$ 2.91	2.83	



Duke Energy Kentucky  
Aug20  
S14

Analysis of Purchased Power Cost vs. Woodsdale Average of Maximum and Minimum Load \$/MWh Fuel Cost

[A] = Woodsdale Average Heat Rate at Minimum Load		67,669 Btu/kWh
[B] = Maximum Monthly Natural Gas Price	\$	3.00 \$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	203.01 \$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166 Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50 \$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/1/2020	0	105.45	1566.791496	\$ 14.86	124.25	0	\$ -
8/1/2020	1	125.98	1755.694444	\$ 13.94	124.25	0	\$ -
8/1/2020	2	113.31	1486.7915	\$ 13.12	124.25	0	\$ -
8/1/2020	3	89.36	1123.498438	\$ 12.57	124.25	0	\$ -
8/1/2020	4	70.4	890.828083	\$ 12.65	124.25	0	\$ -
8/1/2020	5	77.4	993.084106	\$ 12.83	124.25	0	\$ -
8/1/2020	6	79.28	1057.455905	\$ 13.34	124.25	0	\$ -
8/1/2020	7	140.01	2155.794314	\$ 15.40	124.25	0	\$ -
8/1/2020	8	144.31	2635.628919	\$ 18.26	124.25	0	\$ -
8/1/2020	9	100.18	1954.476937	\$ 19.51	124.25	0	\$ -
8/1/2020	10	78.11	1655.589175	\$ 21.20	124.25	0	\$ -
8/1/2020	13	7.6	205.793872	\$ 27.08	124.25	0	\$ -
8/1/2020	14	30.13	798.218874	\$ 26.49	124.25	0	\$ -
8/1/2020	15	24.11	787.446367	\$ 32.66	124.25	0	\$ -
8/2/2020	2	65.71	921.659105	\$ 14.03	124.25	0	\$ -
8/2/2020	3	89.03	1194.21628	\$ 13.41	124.25	0	\$ -
8/2/2020	4	80.12	1031.661735	\$ 12.88	124.25	0	\$ -
8/2/2020	5	77.22	953.201595	\$ 12.34	124.25	0	\$ -
8/2/2020	6	54.15	694.699501	\$ 12.83	124.25	0	\$ -
8/2/2020	7	46.05	654.242619	\$ 14.21	124.25	0	\$ -
8/2/2020	8	61.73	1034.607887	\$ 16.76	124.25	0	\$ -
8/2/2020	9	79.37	1523.606521	\$ 19.20	124.25	0	\$ -
8/2/2020	10	53.13	1106.176482	\$ 20.82	124.25	0	\$ -
8/2/2020	11	17.33	385.265691	\$ 22.23	124.25	0	\$ -
8/3/2020	1	53.16	780.996472	\$ 14.69	124.25	0	\$ -
8/3/2020	2	81.49	1102.987278	\$ 13.54	124.25	0	\$ -
8/3/2020	3	87.5	1191.76085	\$ 13.62	124.25	0	\$ -
8/3/2020	4	101.38	1462.9501	\$ 14.43	124.25	0	\$ -
8/3/2020	5	127.11	1998.06014	\$ 15.72	124.25	0	\$ -
8/3/2020	6	146.6	2597.301058	\$ 17.72	124.25	0	\$ -
8/3/2020	7	166.89	3038.210921	\$ 18.20	124.25	0	\$ -

Duke Energy Kentucky  
Aug20  
S14

Analysis of Purchased Power Cost vs. Woodsdale Average of Maximum and Minimum Load \$/MWh Fuel Cost

[A] = Woodsdale Average Heat Rate at Minimum Load		67,669	Btu/kWh
[B] = Maximum Monthly Natural Gas Price	\$	3.00	\$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	203.01	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50	\$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25	

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/3/2020	8	148.08	3087.660208	\$ 20.85	124.25	0	\$ -
8/3/2020	9	40.16	911.364615	\$ 22.69	124.25	0	\$ -
8/3/2020	11	9.76	248.417679	\$ 25.45	124.25	0	\$ -
8/3/2020	12	31.74	820.702386	\$ 25.86	124.25	0	\$ -
8/3/2020	13	28.71	788.031908	\$ 27.45	124.25	0	\$ -
8/3/2020	14	50.41	1427.956509	\$ 28.33	124.25	0	\$ -
8/3/2020	15	55.27	1754.28511	\$ 31.74	124.25	0	\$ -
8/3/2020	16	73.98	2133.239711	\$ 28.84	124.25	0	\$ -
8/3/2020	17	37.49	937.367419	\$ 25.00	124.25	0	\$ -
8/3/2020	23	44.9	712.663576	\$ 15.87	124.25	0	\$ -
8/4/2020	0	56.38	800.697315	\$ 14.20	124.25	0	\$ -
8/4/2020	1	40.64	524.121319	\$ 12.90	124.25	0	\$ -
8/4/2020	2	31.68	402.420332	\$ 12.70	124.25	0	\$ -
8/4/2020	3	30.68	388.123507	\$ 12.65	124.25	0	\$ -
8/4/2020	4	40.58	567.355351	\$ 13.98	124.25	0	\$ -
8/5/2020	1	17.08	220.229862	\$ 12.89	124.25	0	\$ -
8/5/2020	2	18.29	224.85779	\$ 12.29	124.25	0	\$ -
8/5/2020	3	14.29	171.558781	\$ 12.01	124.25	0	\$ -
8/5/2020	4	17.22	225.794839	\$ 13.11	124.25	0	\$ -
8/5/2020	23	29.92	456.893599	\$ 15.27	124.25	0	\$ -
8/6/2020	0	39.51	561.184276	\$ 14.20	124.25	0	\$ -
8/6/2020	1	26.92	370.870002	\$ 13.78	124.25	0	\$ -
8/6/2020	2	18.1	244.687927	\$ 13.52	124.25	0	\$ -
8/6/2020	3	16.1	217.582951	\$ 13.51	124.25	0	\$ -
8/6/2020	4	27.89	402.859057	\$ 14.44	124.25	0	\$ -
8/6/2020	5	50.51	769.72189	\$ 15.24	124.25	0	\$ -
8/6/2020	6	68.19	1091.139285	\$ 16.00	124.25	0	\$ -
8/6/2020	7	93.89	1666.154195	\$ 17.75	124.25	0	\$ -
8/6/2020	8	121.34	2322.676933	\$ 19.14	124.25	0	\$ -
8/6/2020	9	34.63	736.025293	\$ 21.25	124.25	0	\$ -
8/6/2020	23	41.14	629.056765	\$ 15.29	124.25	0	\$ -

Duke Energy Kentucky  
Aug20  
S14

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[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	203.01 \$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166 Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50 \$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/7/2020	0	51.08	734.277196	\$ 14.38	124.25	0	\$ -
8/7/2020	1	36.66	512.060684	\$ 13.97	124.25	0	\$ -
8/7/2020	2	25	335.311925	\$ 13.41	124.25	0	\$ -
8/7/2020	3	24.08	323.530332	\$ 13.44	124.25	0	\$ -
8/7/2020	4	34.87	496.491125	\$ 14.24	124.25	0	\$ -
8/7/2020	5	56.42	851.342255	\$ 15.09	124.25	0	\$ -
8/7/2020	6	78.24	1255.629867	\$ 16.05	124.25	0	\$ -
8/7/2020	7	99.62	1816.196228	\$ 18.23	124.25	0	\$ -
8/7/2020	8	107.68	2166.876621	\$ 20.12	124.25	0	\$ -
8/7/2020	9	34.84	764.626059	\$ 21.95	124.25	0	\$ -
8/7/2020	14	0.5	15.914797	\$ 31.83	124.25	0	\$ -
8/7/2020	15	1.42	52.683968	\$ 37.10	124.25	0	\$ -
8/7/2020	16	8.39	286.65592	\$ 34.17	124.25	0	\$ -
8/7/2020	17	0.47	12.831595	\$ 27.30	124.25	0	\$ -
8/8/2020	3	4.3	54.377632	\$ 12.65	124.25	0	\$ -
8/8/2020	4	8.28	103.76987	\$ 12.53	124.25	0	\$ -
8/8/2020	5	13.24	164.29038	\$ 12.41	124.25	0	\$ -
8/8/2020	6	16.24	216.609997	\$ 13.34	124.25	0	\$ -
8/8/2020	7	49.9	703.746486	\$ 14.10	124.25	0	\$ -
8/8/2020	8	77.3	1304.973576	\$ 16.88	124.25	0	\$ -
8/8/2020	9	65.45	1213.676984	\$ 18.54	124.25	0	\$ -
8/8/2020	15	13.51	451.409022	\$ 33.41	124.25	0	\$ -
8/8/2020	16	41.33	1519.406276	\$ 36.76	124.25	0	\$ -
8/8/2020	17	22.53	644.488178	\$ 28.61	124.25	0	\$ -
8/9/2020	3	10.55	123.173708	\$ 11.68	124.25	0	\$ -
8/9/2020	4	8.55	103.299869	\$ 12.08	124.25	0	\$ -
8/9/2020	5	10.52	117.857233	\$ 11.20	124.25	0	\$ -
8/9/2020	6	12.44	152.813769	\$ 12.28	124.25	0	\$ -
8/9/2020	7	48.07	646.828862	\$ 13.46	124.25	0	\$ -
8/9/2020	8	85.43	1428.876722	\$ 16.73	124.25	0	\$ -
8/9/2020	9	114.42	2243.941537	\$ 19.61	124.25	0	\$ -

Duke Energy Kentucky  
Aug20  
S14

Analysis of Purchased Power Cost vs. Woodsdale Average of Maximum and Minimum Load \$/MWh Fuel Cost

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[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50	\$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25	

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/9/2020	10	48.36	1070.023032	\$ 22.13	\$ 124.25	0	\$ -
8/9/2020	11	9.12	218.865946	\$ 24.00	\$ 124.25	0	\$ -
8/9/2020	12	5.73	147.814919	\$ 25.80	\$ 124.25	0	\$ -
8/9/2020	13	22.34	637.172142	\$ 28.52	\$ 124.25	0	\$ -
8/9/2020	14	56.65	1755.15381	\$ 30.98	\$ 124.25	0	\$ -
8/9/2020	15	61.44	2389.377577	\$ 38.89	\$ 124.25	0	\$ -
8/9/2020	16	75.07	3262.388382	\$ 43.46	\$ 124.25	0	\$ -
8/9/2020	17	82.05	2947.376798	\$ 35.92	\$ 124.25	0	\$ -
8/9/2020	18	66.48	1920.235643	\$ 28.88	\$ 124.25	0	\$ -
8/9/2020	19	41.96	1049.983417	\$ 25.02	\$ 124.25	0	\$ -
8/9/2020	20	24.38	570.063619	\$ 23.38	\$ 124.25	0	\$ -
8/10/2020	15	34.67	1887.636371	\$ 54.45	\$ 124.25	0	\$ -
8/10/2020	18	11.23	348.337901	\$ 31.02	\$ 124.25	0	\$ -
8/10/2020	19	22.43	636.585494	\$ 28.38	\$ 124.25	0	\$ -
8/10/2020	20	42.68	1100.841399	\$ 25.79	\$ 124.25	0	\$ -
8/10/2020	21	13.47	311.973767	\$ 23.16	\$ 124.25	0	\$ -
8/11/2020	2	20.97	292.563479	\$ 13.95	\$ 124.25	0	\$ -
8/11/2020	3	60.13	824.960751	\$ 13.72	\$ 124.25	0	\$ -
8/11/2020	4	79.97	1146.532689	\$ 14.34	\$ 124.25	0	\$ -
8/11/2020	5	111.65	1670.230631	\$ 14.96	\$ 124.25	0	\$ -
8/11/2020	6	130.25	2528.662299	\$ 19.41	\$ 124.25	0	\$ -
8/11/2020	7	127.43	2601.351815	\$ 20.41	\$ 124.25	0	\$ -
8/11/2020	8	14.7	339.302916	\$ 23.08	\$ 124.25	0	\$ -
8/11/2020	11	12.1	433.132532	\$ 35.80	\$ 124.25	0	\$ -
8/11/2020	12	45.6	1864.585049	\$ 40.89	\$ 124.25	0	\$ -
8/11/2020	13	71.23	3453.255331	\$ 48.48	\$ 124.25	0	\$ -
8/11/2020	14	83.03	3802.012615	\$ 45.79	\$ 124.25	0	\$ -
8/11/2020	15	90.81	5421.251206	\$ 59.70	\$ 124.25	0	\$ -
8/11/2020	16	93.74	4763.716629	\$ 50.82	\$ 124.25	0	\$ -
8/11/2020	17	93.84	3267.438795	\$ 34.82	\$ 124.25	0	\$ -
8/11/2020	18	76.2	2160.933854	\$ 28.36	\$ 124.25	0	\$ -



Duke Energy Kentucky  
Aug20  
S14

Analysis of Purchased Power Cost vs. Woodsdale Average of Maximum and Minimum Load \$/MWh Fuel Cost

[A] = Woodsdale Average Heat Rate at Minimum Load		67,669 Btu/kWh
[B] = Maximum Monthly Natural Gas Price	\$	3.00 \$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	203.01 \$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166 Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50 \$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/11/2020	19	49.5	1360.189809	27.48	124.25	0	-
8/11/2020	20	31.91	793.425844	24.86	124.25	0	-
8/12/2020	2	67.79	1083.015684	15.98	124.25	0	-
8/12/2020	3	75.94	1226.203863	16.15	124.25	0	-
8/12/2020	4	54.37	903.106361	16.61	124.25	0	-
8/12/2020	5	32.86	590.48283	17.97	124.25	0	-
8/12/2020	6	104.44	1950.226084	18.67	124.25	0	-
8/12/2020	7	93.73	1834.658929	19.57	124.25	0	-
8/12/2020	8	10.97	241.069227	21.98	124.25	0	-
8/12/2020	9	11.2	268.49891	23.97	124.25	0	-
8/12/2020	10	32.7	917.807741	28.07	124.25	0	-
8/12/2020	11	54.24	1597.0725	29.44	124.25	0	-
8/12/2020	12	72.74	2342.593955	32.21	124.25	0	-
8/12/2020	13	84.8	3127.900152	36.89	124.25	0	-
8/12/2020	14	99.45	3642.988653	36.63	124.25	0	-
8/12/2020	15	111.23	5229.524054	47.02	124.25	0	-
8/12/2020	16	118.25	4997.718118	42.26	124.25	0	-
8/12/2020	17	102.73	3297.874518	32.10	124.25	0	-
8/12/2020	18	102.9	3022.578735	29.37	124.25	0	-
8/12/2020	19	65.34	1769.36584	27.08	124.25	0	-
8/12/2020	20	49.74	1191.710115	23.96	124.25	0	-
8/12/2020	21	19.41	415.400553	21.40	124.25	0	-
8/13/2020	2	32.38	524.698278	16.20	124.25	0	-
8/13/2020	3	88.81	1457.011354	16.41	124.25	0	-
8/13/2020	4	57.59	1000.120091	17.37	124.25	0	-
8/13/2020	5	35.86	651.163523	18.16	124.25	0	-
8/13/2020	6	63.21	1221.727431	19.33	124.25	0	-
8/13/2020	8	3.73	82.339679	22.07	124.25	0	-
8/13/2020	9	11.28	266.013815	23.58	124.25	0	-
8/13/2020	10	64.53	1712.524952	26.54	124.25	0	-
8/13/2020	11	96.87	3127.471586	32.29	124.25	0	-

Duke Energy Kentucky  
Aug20  
S14

Analysis of Purchased Power Cost vs. Woodsdale Average of Maximum and Minimum Load \$/MWh Fuel Cost

[A] = Woodsdale Average Heat Rate at Minimum Load		67,669	Btu/kWh
[B] = Maximum Monthly Natural Gas Price	\$	3.00	\$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	203.01	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50	\$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25	

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/13/2020	12	111.57	3711.459058 \$	33.27 \$	124.25	0 \$	-
8/13/2020	13	134.14	5004.939258 \$	37.31 \$	124.25	0 \$	-
8/13/2020	14	160.87	6436.19603 \$	40.01 \$	124.25	0 \$	-
8/13/2020	15	138.85	6302.939266 \$	45.39 \$	124.25	0 \$	-
8/13/2020	16	128.99	5169.740936 \$	40.08 \$	124.25	0 \$	-
8/13/2020	17	113.4	3521.098577 \$	31.05 \$	124.25	0 \$	-
8/13/2020	18	84.04	2261.40345 \$	26.91 \$	124.25	0 \$	-
8/13/2020	19	68.27	1699.040474 \$	24.89 \$	124.25	0 \$	-
8/13/2020	20	53.66	1235.586858 \$	23.03 \$	124.25	0 \$	-
8/13/2020	21	15.3	313.601989 \$	20.50 \$	124.25	0 \$	-
8/14/2020	2	8.51	134.157452 \$	15.76 \$	124.25	0 \$	-
8/14/2020	3	92.91	1432.876602 \$	15.42 \$	124.25	0 \$	-
8/14/2020	4	50.76	853.693456 \$	16.82 \$	124.25	0 \$	-
8/14/2020	17	28.42	882.798751 \$	31.06 \$	124.25	0 \$	-
8/14/2020	18	0.85	22.238623 \$	26.16 \$	124.25	0 \$	-
8/14/2020	21	45.8	945.779114 \$	20.65 \$	124.25	0 \$	-
8/14/2020	22	78.52	1507.075347 \$	19.19 \$	124.25	0 \$	-
8/14/2020	23	44.88	829.670799 \$	18.49 \$	124.25	0 \$	-
8/15/2020	0	20.28	351.11705 \$	17.31 \$	124.25	0 \$	-
8/15/2020	1	4.51	73.33012 \$	16.26 \$	124.25	0 \$	-
8/15/2020	4	39.86	582.288153 \$	14.61 \$	124.25	0 \$	-
8/15/2020	5	43.67	665.447478 \$	15.24 \$	124.25	0 \$	-
8/15/2020	6	59.44	941.34278 \$	15.84 \$	124.25	0 \$	-
8/15/2020	7	58.87	1085.457835 \$	18.44 \$	124.25	0 \$	-
8/15/2020	8	35.13	680.225738 \$	19.36 \$	124.25	0 \$	-
8/15/2020	12	21.63	578.208553 \$	26.73 \$	124.25	0 \$	-
8/15/2020	13	23.23	646.736627 \$	27.84 \$	124.25	0 \$	-
8/15/2020	14	36.91	1061.512296 \$	28.76 \$	124.25	0 \$	-
8/15/2020	15	48.68	1624.15178 \$	33.36 \$	124.25	0 \$	-
8/15/2020	16	58.52	1879.388351 \$	32.12 \$	124.25	0 \$	-
8/15/2020	17	49.71	1351.887758 \$	27.20 \$	124.25	0 \$	-

Duke Energy Kentucky  
Aug20  
S14

Analysis of Purchased Power Cost vs. Woodsdale Average of Maximum and Minimum Load \$/MWh Fuel Cost

[A] = Woodsdale Average Heat Rate at Minimum Load		67,669	Btu/kWh
[B] = Maximum Monthly Natural Gas Price	\$	3.00	\$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	203.01	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50	\$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25	

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/15/2020	18	14.28	350.266709	\$ 24.53	124.25	0	\$ -
8/15/2020	22	2.79	48.840222	\$ 17.51	124.25	0	\$ -
8/15/2020	23	77.8	1182.865054	\$ 15.20	124.25	0	\$ -
8/16/2020	0	80.35	1190.697329	\$ 14.82	124.25	0	\$ -
8/16/2020	1	59.88	845.980628	\$ 14.13	124.25	0	\$ -
8/16/2020	2	55.11	766.413006	\$ 13.91	124.25	0	\$ -
8/16/2020	3	38.23	506.375044	\$ 13.25	124.25	0	\$ -
8/16/2020	4	30.26	369.239873	\$ 12.20	124.25	0	\$ -
8/16/2020	5	30.22	374.458166	\$ 12.39	124.25	0	\$ -
8/16/2020	6	38.13	503.797048	\$ 13.21	124.25	0	\$ -
8/16/2020	7	59.91	899.627911	\$ 15.02	124.25	0	\$ -
8/16/2020	8	98.41	1629.383128	\$ 16.56	124.25	0	\$ -
8/16/2020	9	131.31	2410.518467	\$ 18.36	124.25	0	\$ -
8/16/2020	10	131.22	2618.276881	\$ 19.95	124.25	0	\$ -
8/16/2020	11	50.45	1076.987883	\$ 21.35	124.25	0	\$ -
8/16/2020	14	2.52	64.980105	\$ 25.79	124.25	0	\$ -
8/16/2020	15	22.21	626.295148	\$ 28.20	124.25	0	\$ -
8/16/2020	16	24.04	777.19017	\$ 32.33	124.25	0	\$ -
8/16/2020	17	18.13	474.989339	\$ 26.20	124.25	0	\$ -
8/16/2020	23	63.34	910.238871	\$ 14.37	124.25	0	\$ -
8/17/2020	0	51.89	694.656463	\$ 13.39	124.25	0	\$ -
8/17/2020	1	37.12	459.379414	\$ 12.38	124.25	0	\$ -
8/17/2020	2	25.23	295.113746	\$ 11.70	124.25	0	\$ -
8/17/2020	3	27.24	332.012615	\$ 12.19	124.25	0	\$ -
8/17/2020	4	36.13	447.585485	\$ 12.39	124.25	0	\$ -
8/17/2020	5	71.72	1027.428589	\$ 14.33	124.25	0	\$ -
8/17/2020	6	93.36	1489.639276	\$ 15.96	124.25	0	\$ -
8/17/2020	7	129.77	2435.275759	\$ 18.77	124.25	0	\$ -
8/17/2020	8	70.02	1382.961169	\$ 19.75	124.25	0	\$ -
8/17/2020	11	24.32	645.440227	\$ 26.54	124.25	0	\$ -
8/17/2020	12	58.64	1739.425712	\$ 29.66	124.25	0	\$ -

Duke Energy Kentucky  
Aug20  
S14

Analysis of Purchased Power Cost vs. Woodsdale Average of Maximum and Minimum Load \$/MWh Fuel Cost

[A] = Woodsdale Average Heat Rate at Minimum Load		67,669	Btu/kWh
[B] = Maximum Monthly Natural Gas Price	\$	3.00	\$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	203.01	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50	\$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25	

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/17/2020	13	71.37	2285.5284	\$ 32.02	124.25	0	\$ -
8/17/2020	14	84.2	3112.300009	\$ 36.96	124.25	0	\$ -
8/17/2020	15	82.36	3458.840635	\$ 42.00	124.25	0	\$ -
8/17/2020	16	87.29	3746.543539	\$ 42.92	124.25	0	\$ -
8/17/2020	17	77.49	2485.967306	\$ 32.08	124.25	0	\$ -
8/17/2020	18	52.13	1475.411879	\$ 28.30	124.25	0	\$ -
8/17/2020	19	26.52	732.559653	\$ 27.62	124.25	0	\$ -
8/17/2020	20	22.71	535.815811	\$ 23.59	124.25	0	\$ -
8/17/2020	22	31.41	546.063321	\$ 17.39	124.25	0	\$ -
8/17/2020	23	90.48	1352.46111	\$ 14.95	124.25	0	\$ -
8/18/2020	0	98.13	1396.585964	\$ 14.23	124.25	0	\$ -
8/18/2020	1	79.65	1054.711919	\$ 13.24	124.25	0	\$ -
8/18/2020	2	67.85	802.134235	\$ 11.82	124.25	0	\$ -
8/18/2020	3	72.83	849.5007	\$ 11.66	124.25	0	\$ -
8/18/2020	4	76.68	1019.870071	\$ 13.30	124.25	0	\$ -
8/18/2020	5	110.23	1610.384021	\$ 14.61	124.25	0	\$ -
8/18/2020	6	125.77	1903.454243	\$ 15.13	124.25	0	\$ -
8/18/2020	7	134.06	2266.794398	\$ 16.91	124.25	0	\$ -
8/18/2020	8	143.38	2704.421659	\$ 18.86	124.25	0	\$ -
8/18/2020	9	6.59	132.498355	\$ 20.11	124.25	0	\$ -
8/19/2020	4	7.81	114.562477	\$ 14.67	124.25	0	\$ -
8/19/2020	5	23.44	365.426272	\$ 15.59	124.25	0	\$ -
8/19/2020	6	67.15	1102.897117	\$ 16.42	124.25	0	\$ -
8/19/2020	7	94.64	1669.701058	\$ 17.64	124.25	0	\$ -
8/19/2020	8	117.22	2236.124003	\$ 19.08	124.25	0	\$ -
8/19/2020	9	86.56	1752.993817	\$ 20.25	124.25	0	\$ -
8/20/2020	13	2.82	78.773138	\$ 27.93	124.25	0	\$ -
8/20/2020	15	19.44	761.966663	\$ 39.20	124.25	0	\$ -
8/20/2020	16	26.27	936.776326	\$ 35.66	124.25	0	\$ -
8/20/2020	17	21.3	608.265804	\$ 28.56	124.25	0	\$ -
8/21/2020	0	39.37	593.345979	\$ 15.07	124.25	0	\$ -

Duke Energy Kentucky  
Aug20  
S14

Analysis of Purchased Power Cost vs. Woodsdale Average of Maximum and Minimum Load \$/MWh Fuel Cost

[A] = Woodsdale Average Heat Rate at Minimum Load		67,669 Btu/kWh
[B] = Maximum Monthly Natural Gas Price	\$	3.00 \$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	203.01 \$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166 Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50 \$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/21/2020	1	88.08	1244.841686 \$	14.13 \$	124.25	0	\$ -
8/21/2020	2	75.36	931.952553 \$	12.37 \$	124.25	0	\$ -
8/21/2020	3	73.39	930.256119 \$	12.68 \$	124.25	0	\$ -
8/21/2020	4	89.2	1308.868707 \$	14.67 \$	124.25	0	\$ -
8/21/2020	5	110.7	1700.963064 \$	15.37 \$	124.25	0	\$ -
8/21/2020	6	132.41	2204.307922 \$	16.65 \$	124.25	0	\$ -
8/21/2020	7	148.04	2680.733487 \$	18.11 \$	124.25	0	\$ -
8/21/2020	8	93.29	1806.701251 \$	19.37 \$	124.25	0	\$ -
8/21/2020	9	21.39	476.891333 \$	22.30 \$	124.25	0	\$ -
8/21/2020	13	22.09	727.15725 \$	32.92 \$	124.25	0	\$ -
8/21/2020	14	25.97	949.18114 \$	36.55 \$	124.25	0	\$ -
8/21/2020	15	36.91	1610.951234 \$	43.65 \$	124.25	0	\$ -
8/21/2020	16	36.97	1500.129546 \$	40.58 \$	124.25	0	\$ -
8/21/2020	17	3.36	107.052463 \$	31.86 \$	124.25	0	\$ -
8/22/2020	1	68.37	943.403787 \$	13.80 \$	124.25	0	\$ -
8/22/2020	2	98.85	1323.102999 \$	13.38 \$	124.25	0	\$ -
8/22/2020	3	92.88	1175.398165 \$	12.66 \$	124.25	0	\$ -
8/22/2020	4	92.95	1233.024879 \$	13.27 \$	124.25	0	\$ -
8/22/2020	5	99.89	1337.461772 \$	13.39 \$	124.25	0	\$ -
8/22/2020	6	102.66	1373.314953 \$	13.38 \$	124.25	0	\$ -
8/22/2020	7	130.34	1997.080168 \$	15.32 \$	124.25	0	\$ -
8/22/2020	8	135.81	2400.767287 \$	17.68 \$	124.25	0	\$ -
8/22/2020	9	62.97	1304.381171 \$	20.71 \$	124.25	0	\$ -
8/23/2020	0	39.54	599.187697 \$	15.15 \$	124.25	0	\$ -
8/23/2020	1	67.1	953.222533 \$	14.21 \$	124.25	0	\$ -
8/23/2020	2	57.33	786.314087 \$	13.72 \$	124.25	0	\$ -
8/23/2020	3	51.36	711.416173 \$	13.85 \$	124.25	0	\$ -
8/23/2020	4	52.47	728.601096 \$	13.89 \$	124.25	0	\$ -
8/23/2020	5	56.41	770.232237 \$	13.65 \$	124.25	0	\$ -
8/23/2020	6	61.3	846.298053 \$	13.81 \$	124.25	0	\$ -
8/23/2020	7	87.99	1334.513621 \$	15.17 \$	124.25	0	\$ -

Duke Energy Kentucky  
Aug20  
S14

Analysis of Purchased Power Cost vs. Woodsdale Average of Maximum and Minimum Load \$/MWh Fuel Cost

[A] = Woodsdale Average Heat Rate at Minimum Load		67,669 Btu/kWh
[B] = Maximum Monthly Natural Gas Price	\$	3.00 \$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	203.01 \$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166 Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50 \$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/23/2020	8	121.37	2107.072407	\$ 17.36	124.25	0	\$ -
8/23/2020	9	70.41	1389.351454	\$ 19.73	124.25	0	\$ -
8/23/2020	14	15.18	498.176451	\$ 32.82	124.25	0	\$ -
8/23/2020	15	25.86	1071.903827	\$ 41.45	124.25	0	\$ -
8/23/2020	16	26.76	1144.131266	\$ 42.76	124.25	0	\$ -
8/23/2020	17	32.84	1084.671703	\$ 33.03	124.25	0	\$ -
8/23/2020	18	16.09	475.325567	\$ 29.54	124.25	0	\$ -
8/24/2020	0	27.3	445.725817	\$ 16.33	124.25	0	\$ -
8/24/2020	1	14.74	234.605864	\$ 15.92	124.25	0	\$ -
8/24/2020	2	95.36	1445.128543	\$ 15.15	124.25	0	\$ -
8/24/2020	3	101.57	1554.213069	\$ 15.30	124.25	0	\$ -
8/24/2020	4	119.19	1911.041208	\$ 16.03	124.25	0	\$ -
8/24/2020	5	159.49	2770.444809	\$ 17.37	124.25	0	\$ -
8/24/2020	6	178.09	3376.090954	\$ 18.96	124.25	0	\$ -
8/24/2020	7	173.28	3532.608242	\$ 20.39	124.25	0	\$ -
8/24/2020	8	86.33	1989.961492	\$ 23.05	124.25	0	\$ -
8/24/2020	9	22.44	590.587432	\$ 26.32	124.25	0	\$ -
8/24/2020	10	40.8	1198.537822	\$ 29.38	124.25	0	\$ -
8/24/2020	11	68.25	2190.031594	\$ 32.09	124.25	0	\$ -
8/24/2020	17	6.43	245.572811	\$ 38.19	124.25	0	\$ -
8/24/2020	18	87.97	2712.860294	\$ 30.84	124.25	0	\$ -
8/24/2020	19	49.37	1407.068451	\$ 28.50	124.25	0	\$ -
8/24/2020	20	50.96	1300.084589	\$ 25.51	124.25	0	\$ -
8/24/2020	21	9.55	223.973361	\$ 23.45	124.25	0	\$ -
8/25/2020	0	65.16	1094.350211	\$ 16.79	124.25	0	\$ -
8/25/2020	1	140.75	2249.758697	\$ 15.98	124.25	0	\$ -
8/25/2020	2	158.21	2386.984832	\$ 15.09	124.25	0	\$ -
8/25/2020	3	152.46	2256.294417	\$ 14.80	124.25	0	\$ -
8/25/2020	4	169.22	2661.395197	\$ 15.73	124.25	0	\$ -
8/25/2020	5	167.26	2855.793393	\$ 17.07	124.25	0	\$ -
8/25/2020	6	198.84	3694.353944	\$ 18.58	124.25	0	\$ -

Duke Energy Kentucky  
Aug20  
S14

Analysis of Purchased Power Cost vs. Woodsdale Average of Maximum and Minimum Load \$/MWh Fuel Cost

[A] = Woodsdale Average Heat Rate at Minimum Load		67,669	Btu/kWh
[B] = Maximum Monthly Natural Gas Price	\$	3.00	\$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	203.01	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50	\$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25	

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/25/2020	7	150.4	2909.953488	\$ 19.35	124.25	0	\$ -
8/25/2020	8	39.55	930.211161	\$ 23.52	124.25	0	\$ -
8/25/2020	9	43.74	1224.626703	\$ 28.00	124.25	0	\$ -
8/25/2020	10	79.07	2724.333129	\$ 34.45	124.25	0	\$ -
8/25/2020	11	121.47	4678.747205	\$ 38.52	124.25	0	\$ -
8/25/2020	12	152.81	7266.715738	\$ 47.55	124.25	0	\$ -
8/25/2020	13	167.57	8894.252643	\$ 53.08	124.25	0	\$ -
8/25/2020	14	201.39	12537.48914	\$ 62.25	124.25	0	\$ -
8/25/2020	15	183.52	12399.92392	\$ 67.57	124.25	0	\$ -
8/25/2020	16	179.91	11596.27176	\$ 64.46	124.25	0	\$ -
8/25/2020	17	130.86	6740.005281	\$ 51.51	124.25	0	\$ -
8/25/2020	18	79.84	2902.604038	\$ 36.36	124.25	0	\$ -
8/25/2020	19	60.17	2043.367664	\$ 33.96	124.25	0	\$ -
8/25/2020	20	43.38	1233.528997	\$ 28.44	124.25	0	\$ -
8/25/2020	22	28.58	579.345609	\$ 20.27	124.25	0	\$ -
8/25/2020	23	95.21	1745.972881	\$ 18.34	124.25	0	\$ -
8/26/2020	0	152.89	2749.936262	\$ 17.99	124.25	0	\$ -
8/26/2020	1	159.43	2697.990206	\$ 16.92	124.25	0	\$ -
8/26/2020	2	146.68	2344.318967	\$ 15.98	124.25	0	\$ -
8/26/2020	3	143.85	2259.566598	\$ 15.71	124.25	0	\$ -
8/26/2020	4	157.78	2609.718909	\$ 16.54	124.25	0	\$ -
8/26/2020	5	194.31	3457.545145	\$ 17.79	124.25	0	\$ -
8/26/2020	6	227.93	4214.330653	\$ 18.49	124.25	0	\$ -
8/26/2020	7	250.52	4826.057864	\$ 19.26	124.25	0	\$ -
8/26/2020	8	237.63	5198.37582	\$ 21.88	124.25	0	\$ -
8/26/2020	9	135.54	3605.9803	\$ 26.60	124.25	0	\$ -
8/26/2020	10	82.73	2488.74144	\$ 30.08	124.25	0	\$ -
8/26/2020	11	110.22	3722.057096	\$ 33.77	124.25	0	\$ -
8/26/2020	12	134.72	5373.344787	\$ 39.89	124.25	0	\$ -
8/26/2020	13	146.31	6503.882584	\$ 44.45	124.25	0	\$ -
8/26/2020	14	149.11	7584.341627	\$ 50.86	124.25	0	\$ -

Duke Energy Kentucky  
Aug20  
S14

Analysis of Purchased Power Cost vs. Woodsdale Average of Maximum and Minimum Load \$/MWh Fuel Cost

[A] = Woodsdale Average Heat Rate at Minimum Load		67,669	Btu/kWh
[B] = Maximum Monthly Natural Gas Price	\$	3.00	\$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	203.01	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50	\$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25	

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/26/2020	15	163.83	9017.981065	\$ 55.04	124.25	0	\$ -
8/26/2020	16	155.99	7882.48278	\$ 50.53	124.25	0	\$ -
8/26/2020	17	164.21	5996.890084	\$ 36.52	124.25	0	\$ -
8/26/2020	18	111.85	3563.600392	\$ 31.86	124.25	0	\$ -
8/26/2020	19	123.27	3484.465571	\$ 28.27	124.25	0	\$ -
8/26/2020	20	76.68	1972.105469	\$ 25.72	124.25	0	\$ -
8/26/2020	21	34.18	778.188091	\$ 22.77	124.25	0	\$ -
8/26/2020	22	2.86	57.034274	\$ 19.94	124.25	0	\$ -
8/26/2020	23	61.72	1115.293299	\$ 18.07	124.25	0	\$ -
8/27/2020	0	138.51	2362.767156	\$ 17.06	124.25	0	\$ -
8/27/2020	1	193.09	3111.964142	\$ 16.12	124.25	0	\$ -
8/27/2020	2	180.27	2761.804362	\$ 15.32	124.25	0	\$ -
8/27/2020	3	176.27	2717.563932	\$ 15.42	124.25	0	\$ -
8/27/2020	4	188.25	3101.045639	\$ 16.47	124.25	0	\$ -
8/27/2020	5	214.92	3751.946127	\$ 17.46	124.25	0	\$ -
8/27/2020	6	202.46	3791.789319	\$ 18.73	124.25	0	\$ -
8/27/2020	7	116.44	2279.477995	\$ 19.58	124.25	0	\$ -
8/27/2020	8	1.87	42.825287	\$ 22.90	124.25	0	\$ -
8/27/2020	9	20.41	557.234534	\$ 27.30	124.25	0	\$ -
8/27/2020	10	68.81	2111.262756	\$ 30.68	124.25	0	\$ -
8/27/2020	11	84.28	2867.223215	\$ 34.02	124.25	0	\$ -
8/27/2020	12	100.97	4064.489191	\$ 40.25	124.25	0	\$ -
8/27/2020	13	86.95	4291.956427	\$ 49.36	124.25	0	\$ -
8/27/2020	14	66.47	4034.685529	\$ 60.70	124.25	0	\$ -
8/27/2020	15	68.36	4557.021703	\$ 66.66	124.25	0	\$ -
8/27/2020	16	72.5	4539.295108	\$ 62.61	124.25	0	\$ -
8/27/2020	17	62.73	2691.826915	\$ 42.91	124.25	0	\$ -
8/27/2020	18	50.14	1723.479518	\$ 34.37	124.25	0	\$ -
8/27/2020	19	48.21	1487.730469	\$ 30.86	124.25	0	\$ -
8/27/2020	20	32.47	905.944821	\$ 27.90	124.25	0	\$ -
8/28/2020	0	72.64	1329.459895	\$ 18.30	124.25	0	\$ -



Duke Energy Kentucky  
Aug20  
S14

Analysis of Purchased Power Cost vs. Woodsdale Average of Maximum and Minimum Load \$/MWh Fuel Cost

[A] = Woodsdale Average Heat Rate at Minimum Load		67,669	Btu/kWh
[B] = Maximum Monthly Natural Gas Price	\$	3.00	\$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	203.01	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50	\$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25	

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/28/2020	1	162.5	2790.294325	\$ 17.17	124.25	0	\$ -
8/28/2020	2	174.01	2934.428772	\$ 16.86	124.25	0	\$ -
8/28/2020	3	168.15	2774.758669	\$ 16.50	124.25	0	\$ -
8/28/2020	4	164.84	2929.813411	\$ 17.77	124.25	0	\$ -
8/28/2020	5	121.1	2415.548034	\$ 19.95	124.25	0	\$ -
8/28/2020	6	4.25	87.885546	\$ 20.68	124.25	0	\$ -
8/28/2020	8	5.95	148.349666	\$ 24.93	124.25	0	\$ -
8/28/2020	9	36.34	979.037103	\$ 26.94	124.25	0	\$ -
8/28/2020	10	62.89	2135.121852	\$ 33.95	124.25	0	\$ -
8/28/2020	11	78.51	2378.643535	\$ 30.30	124.25	0	\$ -
8/28/2020	12	92.31	3123.183401	\$ 33.83	124.25	0	\$ -
8/28/2020	13	79.47	2944.419447	\$ 37.05	124.25	0	\$ -
8/28/2020	14	37.33	1487.611064	\$ 39.85	124.25	0	\$ -
8/28/2020	15	57.05	2385.02939	\$ 41.81	124.25	0	\$ -
8/28/2020	16	51.99	1961.408014	\$ 37.73	124.25	0	\$ -
8/28/2020	17	31.46	960.877872	\$ 30.54	124.25	0	\$ -
8/28/2020	18	2.83	80.240764	\$ 28.35	124.25	0	\$ -
8/28/2020	19	0.87	23.470995	\$ 26.98	124.25	0	\$ -
8/29/2020	0	59.78	1024.978435	\$ 17.15	124.25	0	\$ -
8/29/2020	1	101.31	1644.872199	\$ 16.24	124.25	0	\$ -
8/29/2020	2	112.5	1766.440575	\$ 15.70	124.25	0	\$ -
8/29/2020	3	109.76	1684.278835	\$ 15.35	124.25	0	\$ -
8/29/2020	4	110.76	1702.015914	\$ 15.37	124.25	0	\$ -
8/29/2020	5	99.36	1598.770958	\$ 16.09	124.25	0	\$ -
8/29/2020	6	133.2	2163.61462	\$ 16.24	124.25	0	\$ -
8/29/2020	7	105.56	1851.059625	\$ 17.54	124.25	0	\$ -
8/29/2020	8	109.74	2155.494753	\$ 19.64	124.25	0	\$ -
8/29/2020	9	161.2	3221.315375	\$ 19.98	124.25	0	\$ -
8/29/2020	10	120.86	2542.606511	\$ 21.04	124.25	0	\$ -
8/29/2020	11	36.33	824.744332	\$ 22.70	124.25	0	\$ -
8/29/2020	12	28.76	671.392393	\$ 23.34	124.25	0	\$ -

Duke Energy Kentucky  
Aug20  
S14

Analysis of Purchased Power Cost vs. Woodsdale Average of Maximum and Minimum Load \$/MWh Fuel Cost

[A] = Woodsdale Average Heat Rate at Minimum Load		67,669	Btu/kWh
[B] = Maximum Monthly Natural Gas Price	\$	3.00	\$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	203.01	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50	\$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25	

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/29/2020	13	45.46	1103.743024 \$	24.28 \$	124.25	0	\$ -
8/29/2020	14	53.2	1438.05601 \$	27.03 \$	124.25	0	\$ -
8/29/2020	15	25.07	820.577351 \$	32.73 \$	124.25	0	\$ -
8/29/2020	16	22.11	628.362751 \$	28.42 \$	124.25	0	\$ -
8/29/2020	17	9.44	230.45467 \$	24.41 \$	124.25	0	\$ -
8/29/2020	21	10.88	189.400661 \$	17.41 \$	124.25	0	\$ -
8/29/2020	22	63.79	1029.67815 \$	16.14 \$	124.25	0	\$ -
8/29/2020	23	101.44	1460.465054 \$	14.40 \$	124.25	0	\$ -
8/30/2020	0	100.92	1430.362977 \$	14.17 \$	124.25	0	\$ -
8/30/2020	1	79.32	1041.745492 \$	13.13 \$	124.25	0	\$ -
8/30/2020	2	57.55	688.181864 \$	11.96 \$	124.25	0	\$ -
8/30/2020	3	46.66	545.345329 \$	11.69 \$	124.25	0	\$ -
8/30/2020	4	38.69	444.325207 \$	11.48 \$	124.25	0	\$ -
8/30/2020	5	42.59	512.848805 \$	12.04 \$	124.25	0	\$ -
8/30/2020	6	39.56	482.607948 \$	12.20 \$	124.25	0	\$ -
8/30/2020	7	68.25	972.43262 \$	14.25 \$	124.25	0	\$ -
8/30/2020	8	105.91	1590.588471 \$	15.02 \$	124.25	0	\$ -
8/30/2020	9	139.4	2219.338192 \$	15.92 \$	124.25	0	\$ -
8/30/2020	10	162.89	2748.533863 \$	16.87 \$	124.25	0	\$ -
8/30/2020	11	136.32	2549.810663 \$	18.70 \$	124.25	0	\$ -
8/30/2020	12	22.85	447.837995 \$	19.60 \$	124.25	0	\$ -
8/30/2020	22	28.43	408.344696 \$	14.36 \$	124.25	0	\$ -
8/30/2020	23	82.92	1107.898681 \$	13.36 \$	124.25	0	\$ -
8/31/2020	0	79.16	935.841948 \$	11.82 \$	124.25	0	\$ -
8/31/2020	1	68.29	769.148563 \$	11.26 \$	124.25	0	\$ -
8/31/2020	2	65.39	681.505108 \$	10.42 \$	124.25	0	\$ -
8/31/2020	3	71.25	740.979836 \$	10.40 \$	124.25	0	\$ -
8/31/2020	4	90.11	1047.20895 \$	11.62 \$	124.25	0	\$ -
8/31/2020	5	122.7	1724.31537 \$	14.05 \$	124.25	0	\$ -
8/31/2020	6	151.34	2293.421645 \$	15.15 \$	124.25	0	\$ -
8/31/2020	7	172.05	2781.597385 \$	16.17 \$	124.25	0	\$ -

Duke Energy Kentucky  
Aug20  
S14

Analysis of Purchased Power Cost vs. Woodsdale Average of Maximum and Minimum Load \$/MWh Fuel Cost

[A] = Woodsdale Average Heat Rate at Minimum Load		67,669	Btu/kWh
[B] = Maximum Monthly Natural Gas Price	\$	3.00	\$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	203.01	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	45.50	\$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	124.25	

Date	Hour Beginning	PJM Purchase Quantity (MWh)	PJM Purchase Cost (\$)	PJM Purchase Cost (\$/MWh)	[F] = Average of Maximum and Minimum Load \$/MWh Fuel Cost	Purchase Cost Exceeds Average of Maximum and Minimum Load \$/MWh Fuel Cost? (0 = No, 1 = Yes)	Purchase Power Cost Exceeding Average of Maximum and Minimum Load \$/MWh Fuel Cost
8/31/2020	8	195.66	3489.681016	\$ 17.84	124.25	0	\$ -
8/31/2020	9	172.25	3371.058243	\$ 19.57	124.25	0	\$ -
8/31/2020	10	83.77	1744.21605	\$ 20.82	124.25	0	\$ -
8/31/2020	15	6.98	201.916232	\$ 28.93	124.25	0	\$ -
8/31/2020	16	14.94	440.530372	\$ 29.49	124.25	0	\$ -
8/31/2020	17	6.29	175.658704	\$ 27.93	124.25	0	\$ -
		<u>31,982.42</u>	<u>743,066.93</u>				<u>0.00</u>

**KY PJM Charge Detail**  
**Net Fuel Related RTO Billing Line Items**  
**August 31, 2020**

	<u>PJM Statement</u>	<u>Native FAC</u>
1230-Inad Inter		\$ 883.93
1250-Meter Err Cor		\$ (1,708.62)
1340-Regulation		\$ (41,480.68)
1360-Synch Reserve		\$ (17,998.88)
1370-Operating Resrv		\$ (4,051.49)
1375-Bal Opr Rsrv		\$ (23,464.33)
1378-Reactive Servic		\$ (177.80)
1500-FTR Shortfall		\$ (1.15)
2215-Bal Trns Cng Cr		\$ (74,701.77)
2220-Tran Loss		\$ 98,517.83
2340-Lost Opp. Cost		\$ 1,957.98
2360-Synch Reserve		\$ 2,808.42
2375-Bal Opr Rsrv Cr		\$ 28,443.89
2510-ARR		\$ 289,114.99
FTR		\$ 40,968.71
PJM Annual FTR Prem		\$ (275,799.56)
PJM Mthly FTR Prem		\$ (7,680.87)
Reg.Supply		\$ 11,216.66
		\$ 26,847.25
 Congestion & Losses		 \$ 242,965.80
 Net Fuel Related RTO Billing Line Items		 \$ (216,118.55)