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Libbie S. Miller  
Rates & Regulatory Lead Analyst

September 20, 2021

Ms. Linda Bridwell, Executive Director

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

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SEP 21 2021

PUBLIC SERVICE  
COMMISSION

Dear Ms. Bridwell:

In compliance with 807 KAR 5:056, enclosed for the month of July 2021 are Duke Energy Kentucky's supplemental schedules for the fuel adjustment clause applied to customers' bills in the month of September 2021.

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: July 31, 2021

Unit:  → East Bend Unit 2

	Amount	MMBtu	Per Unit	Tons	Per Unit
Beginning Inventory	\$ 5,522,554	N/A	N/A	125,926	\$ 43.86
Purchases	<u>\$ 6,891,942</u>	<u>3,708,935</u>	<u>\$ 1.86</u>	<u>156,613</u>	<u>\$ 44.01</u>
Sub-Total	\$ 12,414,496	N/A	N/A	282,539	\$ 43.94
Less: Fuel Burned	<u>\$ 6,938,910</u>	<u>3,785,042</u>	<u>\$ 1.83</u>	<u>157,921</u>	<u>\$ 43.94</u>
Ending Inventory	<u><u>\$ 5,475,586</u></u>	<u><u>N/A</u></u>	<u><u>N/A</u></u>	<u><u>124,618</u></u>	<u><u>\$ 43.94</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>157,921</u>
<u>0.00%</u>
<u><u>0</u></u>

## DUKE ENERGY KENTUCKY

Fuel Type: Gas  
 Month Ended: July 31, 2021  
 Unit: Woodsdale

	Amount (\$)	MCF	\$/MCF
Beginning Inventory	\$ -	-	-
Purchases	\$ 386,995	94,500	\$ 4.10
Sub-Total	\$ 386,995	94,500	\$ 4.10
Less: Fuel Burned	\$ 386,995	94,500	\$ 4.10
Ending Inventory	\$ -	-	\$ -

Note: Totals may not foot due to rounding

## DUKE ENERGY KENTUCKY

**Fuel Type:** Oil  
**Month Ended:** July 31, 2021  
**Unit:** East Bend

	Amount (\$)	Gallons	\$/Gallon
Beginning Inventory	\$ 528,957	272,971	\$ 1.94
Purchases	\$ -	-	\$ -
Sub-Total	\$ 528,957	272,971	\$ 1.94
Less: Fuel Burned	\$ 172,054	88,790	\$ 1.94
Ending Inventory	\$ 356,903	184,181	\$ 1.94

**Fuel Type:** Oil  
**Month Ended:** July 31, 2021  
**Unit:** Woodsdale

	Amount (\$)	Gallons	\$/Gallon
Beginning Inventory	\$ 8,487,299	3,950,730	\$ 2.15
Purchases	\$ -	-	\$ -
Sub-Total	\$ 8,487,299	3,950,730	\$ 2.15
Less: Fuel Burned	\$ -	-	\$ -
Ending Inventory	\$ 8,487,299	3,950,730	\$ 2.15
Total DEK Ending Inventory	\$ 8,844,202		

Note: Totals may not foot due to rounding

DUKE ENERGY KENTUCKY

Resource Type:  
Month Ended:

Purchased Power & Sales  
July 31, 2021

Supplier/Buyer	Transaction Type	kWh	Charges (\$)			
			Demand	Fuel	Other	Total
PJM Interconnection, LLC	Econ Purch	85,117,540			3,248,593	3,248,593
L'Oreal USA	Econ Purch	0			0	0
IntercontinentalExchange, L.L.C. (Intercont Exchng B)	Financial Hedges				4,110	4,110
	Total Purchases	<u>85,117,540</u>	<u>0</u>	<u>0</u>	<u>3,252,703</u>	<u>3,252,703</u>
PJM Interconnection, LLC	Econ Sales	11,074,110		284,610	143,870	428,480
	Total Sales	<u>11,074,110</u>	<u>0</u>	<u>284,610</u>	<u>143,870</u>	<u>428,480</u>



## DUKE ENERGY KENTUCKY

## Gas/Propane Purchases Details

Month Ended: July 31, 2021

Station Name	Supplier	Purchase Order	Transport Method	MCF	Btu/MCF	Delivered Cost		Quality
						\$/MCF	\$/MMBtu	%SO <sub>2</sub>
Woodsdale	SPOTLIGHT	N/A	Pipeline	-	1.028			N/A
Woodsdale	SEQUENT ENERGY	N/A	Pipeline	-	1.028			N/A
Woodsdale	ECO-ENERGY	N/A	Pipeline	59,480	1.028	\$ 4.13	\$ 4.02	N/A
Woodsdale	NJR	N/A	Pipeline	12,646	1.028	\$ 4.04	\$ 3.93	N/A
Woodsdale	TENASKA	N/A	Pipeline	-	1.028			N/A
Woodsdale	TWIN EAGLE	N/A	Pipeline	-	1.028			N/A
Woodsdale	DIRECT ENERGY BUSINESS MRKTG	N/A	Pipeline	<u>22,374</u>	<u>1.028</u>	<u>\$ 4.04</u>	<u>\$ 3.93</u>	N/A
				94,500	1.028	\$ 4.10	\$ 3.98	





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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = (([D] / 1000) * [B]) = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/1/2021	0	101.42	3000.353398 \$	29.58 \$	210.96	0	\$ -
7/1/2021	1	165.81	4426.277887 \$	26.69 \$	210.96	0	\$ -
7/1/2021	2	147.95	3777.935355 \$	25.54 \$	210.96	0	\$ -
7/1/2021	3	145.96	3709.950707 \$	25.42 \$	210.96	0	\$ -
7/1/2021	4	169.81	4468.8896 \$	26.32 \$	210.96	0	\$ -
7/1/2021	5	173.42	4854.232863 \$	27.99 \$	210.96	0	\$ -
7/1/2021	6	62.94	1955.241611 \$	31.07 \$	210.96	0	\$ -
7/1/2021	15	0	0 \$	- \$	210.96	0	\$ -
7/2/2021	1	0	0 \$	- \$	210.96	0	\$ -
7/2/2021	2	0	0 \$	- \$	210.96	0	\$ -
7/2/2021	3	0	0 \$	- \$	210.96	0	\$ -
7/2/2021	4	29.43	641.358278 \$	21.79 \$	210.96	0	\$ -
7/2/2021	5	90.88	2079.290596 \$	22.88 \$	210.96	0	\$ -
7/2/2021	6	62.4	1547.090126 \$	24.79 \$	210.96	0	\$ -
7/3/2021	1	0	0 \$	- \$	210.96	0	\$ -
7/3/2021	2	0	0 \$	- \$	210.96	0	\$ -
7/3/2021	3	28.43	534.00649 \$	18.78 \$	210.96	0	\$ -
7/3/2021	4	33.41	628.206259 \$	18.80 \$	210.96	0	\$ -
7/3/2021	5	30.46	560.837379 \$	18.41 \$	210.96	0	\$ -
7/3/2021	6	43.34	874.293833 \$	20.17 \$	210.96	0	\$ -
7/3/2021	7	79.11	1751.937862 \$	22.15 \$	210.96	0	\$ -
7/3/2021	8	95.76	2398.031496 \$	25.04 \$	210.96	0	\$ -
7/3/2021	9	127.39	3204.666407 \$	25.16 \$	210.96	0	\$ -
7/3/2021	10	152.02	4049.300949 \$	26.64 \$	210.96	0	\$ -
7/3/2021	11	138.65	3865.515275 \$	27.88 \$	210.96	0	\$ -
7/3/2021	12	36.19	1155.059221 \$	31.92 \$	210.96	0	\$ -
7/3/2021	23	0	0 \$	- \$	210.96	0	\$ -
7/4/2021	0	40.72	846.472375 \$	20.79 \$	210.96	0	\$ -
7/4/2021	1	49.84	985.733227 \$	19.78 \$	210.96	0	\$ -
7/4/2021	2	52.83	1020.091987 \$	19.31 \$	210.96	0	\$ -
7/4/2021	3	36.88	682.063146 \$	18.49 \$	210.96	0	\$ -
7/4/2021	4	34.85	649.291814 \$	18.63 \$	210.96	0	\$ -
7/4/2021	5	27.96	495.430677 \$	17.72 \$	210.96	0	\$ -
7/4/2021	6	39.95	853.748599 \$	21.37 \$	210.96	0	\$ -
7/4/2021	7	76.72	1653.899686 \$	21.56 \$	210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/4/2021	8	124.24	2964.405411 \$	23.86 \$	210.96	0	\$ -
7/4/2021	9	161.5	4158.770512 \$	25.75 \$	210.96	0	\$ -
7/4/2021	10	121.39	3673.373686 \$	30.26 \$	210.96	0	\$ -
7/4/2021	11	56.71	2083.51196 \$	36.74 \$	210.96	0	\$ -
7/4/2021	14	16.87	810.488666 \$	48.04 \$	210.96	0	\$ -
7/4/2021	15	30.82	1564.057921 \$	50.75 \$	210.96	0	\$ -
7/4/2021	16	30.72	1725.633853 \$	56.17 \$	210.96	0	\$ -
7/4/2021	17	39.84	2059.163627 \$	51.69 \$	210.96	0	\$ -
7/4/2021	18	4.29	208.976865 \$	48.71 \$	210.96	0	\$ -
7/5/2021	1	0	0 \$	- \$	210.96	0	\$ -
7/5/2021	2	11.1	217.545126 \$	19.60 \$	210.96	0	\$ -
7/5/2021	3	86.28	1676.135158 \$	19.43 \$	210.96	0	\$ -
7/5/2021	4	98.24	1853.653032 \$	18.87 \$	210.96	0	\$ -
7/5/2021	5	112.11	2024.700322 \$	18.06 \$	210.96	0	\$ -
7/5/2021	6	120.94	2384.730839 \$	19.72 \$	210.96	0	\$ -
7/5/2021	7	157.61	3605.335685 \$	22.88 \$	210.96	0	\$ -
7/5/2021	8	176.8	4611.511351 \$	26.08 \$	210.96	0	\$ -
7/5/2021	9	84.69	2725.974196 \$	32.19 \$	210.96	0	\$ -
7/5/2021	10	16.41	669.985068 \$	40.83 \$	210.96	0	\$ -
7/5/2021	11	37.51	1649.929226 \$	43.99 \$	210.96	0	\$ -
7/5/2021	12	16.05	766.641572 \$	47.77 \$	210.96	0	\$ -
7/5/2021	13	0	0 \$	- \$	210.96	0	\$ -
7/5/2021	14	0	0 \$	- \$	210.96	0	\$ -
7/5/2021	15	0	0 \$	- \$	210.96	0	\$ -
7/5/2021	16	0	0 \$	- \$	210.96	0	\$ -
7/5/2021	17	0	0 \$	- \$	210.96	0	\$ -
7/5/2021	18	0	0 \$	- \$	210.96	0	\$ -
7/5/2021	19	51.19	2328.618972 \$	45.49 \$	210.96	0	\$ -
7/5/2021	20	55.6	2440.705559 \$	43.90 \$	210.96	0	\$ -
7/5/2021	21	20.33	757.758911 \$	37.27 \$	210.96	0	\$ -
7/6/2021	2	41	944.646724 \$	23.04 \$	210.96	0	\$ -
7/6/2021	3	39.15	900.69183 \$	23.01 \$	210.96	0	\$ -
7/6/2021	4	2.88	68.910906 \$	23.93 \$	210.96	0	\$ -
7/6/2021	8	14.61	547.575568 \$	37.48 \$	210.96	0	\$ -
7/6/2021	9	63.12	2724.256423 \$	43.16 \$	210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/6/2021	10	66.63	3601.124558	\$ 54.05	\$ 210.96	0	\$ -
7/6/2021	11	0	0	\$ -	\$ 210.96	0	\$ -
7/6/2021	12	0	0	\$ -	\$ 210.96	0	\$ -
7/6/2021	13	0	0	\$ -	\$ 210.96	0	\$ -
7/6/2021	14	0	0	\$ -	\$ 210.96	0	\$ -
7/6/2021	15	109.48	11618.75123	\$ 106.13	\$ 210.96	0	\$ -
7/6/2021	16	149.42	15877.46229	\$ 106.26	\$ 210.96	0	\$ -
7/6/2021	17	136.92	12037.90672	\$ 87.92	\$ 210.96	0	\$ -
7/6/2021	18	87.93	5465.151452	\$ 62.15	\$ 210.96	0	\$ -
7/6/2021	19	74.05	3709.420269	\$ 50.09	\$ 210.96	0	\$ -
7/6/2021	20	69.4	3171.868357	\$ 45.70	\$ 210.96	0	\$ -
7/6/2021	21	33.38	1389.485226	\$ 41.63	\$ 210.96	0	\$ -
7/7/2021	2	74.61	1791.030061	\$ 24.01	\$ 210.96	0	\$ -
7/7/2021	3	92.94	2176.548663	\$ 23.42	\$ 210.96	0	\$ -
7/7/2021	4	80.58	1953.788691	\$ 24.25	\$ 210.96	0	\$ -
7/7/2021	5	0.12	3.235123	\$ 26.96	\$ 210.96	0	\$ -
7/7/2021	8	0	0	\$ -	\$ 210.96	0	\$ -
7/7/2021	9	9.79	414.734592	\$ 42.36	\$ 210.96	0	\$ -
7/7/2021	10	64.59	3030.145742	\$ 46.91	\$ 210.96	0	\$ -
7/7/2021	11	0	0	\$ -	\$ 210.96	0	\$ -
7/7/2021	12	40.57	2386.350444	\$ 58.82	\$ 210.96	0	\$ -
7/7/2021	13	83.31	6197.590022	\$ 74.39	\$ 210.96	0	\$ -
7/7/2021	14	124.15	10534.20547	\$ 84.85	\$ 210.96	0	\$ -
7/7/2021	15	130.15	13322.68397	\$ 102.36	\$ 210.96	0	\$ -
7/7/2021	16	103.34	9790.535973	\$ 94.74	\$ 210.96	0	\$ -
7/7/2021	17	79.02	6562.275639	\$ 83.05	\$ 210.96	0	\$ -
7/7/2021	18	66.78	3599.78565	\$ 53.91	\$ 210.96	0	\$ -
7/7/2021	19	39.49	1786.36265	\$ 45.24	\$ 210.96	0	\$ -
7/7/2021	20	25.81	1103.636039	\$ 42.76	\$ 210.96	0	\$ -
7/7/2021	21	0	0	\$ -	\$ 210.96	0	\$ -
7/8/2021	9	0	0	\$ -	\$ 210.96	0	\$ -
7/8/2021	10	0	0	\$ -	\$ 210.96	0	\$ -
7/8/2021	11	11.45	510.837147	\$ 44.61	\$ 210.96	0	\$ -
7/8/2021	12	41.9	2008.661405	\$ 47.94	\$ 210.96	0	\$ -
7/8/2021	13	40.04	1928.511225	\$ 48.16	\$ 210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = (([D] / 1000) * [B]) = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/8/2021	14	55.07	2660.125621	\$ 48.30	\$ 210.96	0	\$ -
7/8/2021	15	60.76	2832.086061	\$ 46.61	\$ 210.96	0	\$ -
7/8/2021	16	70.6	3312.537668	\$ 46.92	\$ 210.96	0	\$ -
7/8/2021	17	51.98	2216.745993	\$ 42.65	\$ 210.96	0	\$ -
7/8/2021	18	46.48	1815.089504	\$ 39.05	\$ 210.96	0	\$ -
7/8/2021	19	0	0	\$ -	\$ 210.96	0	\$ -
7/8/2021	20	0	0	\$ -	\$ 210.96	0	\$ -
7/9/2021	0	0	0	\$ -	\$ 210.96	0	\$ -
7/9/2021	1	0	0	\$ -	\$ 210.96	0	\$ -
7/9/2021	2	57.41	1247.877079	\$ 21.74	\$ 210.96	0	\$ -
7/9/2021	3	120.4	2617.012474	\$ 21.74	\$ 210.96	0	\$ -
7/9/2021	4	76.07	1709.572305	\$ 22.47	\$ 210.96	0	\$ -
7/9/2021	14	7.94	369.295291	\$ 46.51	\$ 210.96	0	\$ -
7/9/2021	15	0	0	\$ -	\$ 210.96	0	\$ -
7/9/2021	16	0	0	\$ -	\$ 210.96	0	\$ -
7/9/2021	23	0	0	\$ -	\$ 210.96	0	\$ -
7/10/2021	0	0	0	\$ -	\$ 210.96	0	\$ -
7/10/2021	1	21.3	476.842163	\$ 22.39	\$ 210.96	0	\$ -
7/10/2021	2	61.72	1354.883242	\$ 21.95	\$ 210.96	0	\$ -
7/10/2021	3	57.85	1241.289764	\$ 21.46	\$ 210.96	0	\$ -
7/10/2021	4	61.84	1326.13864	\$ 21.44	\$ 210.96	0	\$ -
7/10/2021	5	58.88	1230.189261	\$ 20.89	\$ 210.96	0	\$ -
7/10/2021	6	77.76	1718.269641	\$ 22.10	\$ 210.96	0	\$ -
7/10/2021	7	93.4	2162.497298	\$ 23.15	\$ 210.96	0	\$ -
7/10/2021	8	117.01	2858.56682	\$ 24.43	\$ 210.96	0	\$ -
7/10/2021	9	140.6	3700.792214	\$ 26.32	\$ 210.96	0	\$ -
7/10/2021	10	142.59	4216.226029	\$ 29.57	\$ 210.96	0	\$ -
7/10/2021	11	139.49	4305.349783	\$ 30.86	\$ 210.96	0	\$ -
7/10/2021	12	101.15	3334.55045	\$ 32.97	\$ 210.96	0	\$ -
7/10/2021	13	115.97	4161.053931	\$ 35.88	\$ 210.96	0	\$ -
7/10/2021	14	107.75	4040.84912	\$ 37.50	\$ 210.96	0	\$ -
7/10/2021	15	185.32	7369.596348	\$ 39.77	\$ 210.96	0	\$ -
7/10/2021	16	118.82	4825.295171	\$ 40.61	\$ 210.96	0	\$ -
7/10/2021	17	109.98	4280.519702	\$ 38.92	\$ 210.96	0	\$ -
7/10/2021	18	149.27	5272.355818	\$ 35.32	\$ 210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/10/2021	19	156.52	5074.102142	\$ 32.42	\$ 210.96	0	\$ -
7/10/2021	20	158.45	4752.398456	\$ 29.99	\$ 210.96	0	\$ -
7/10/2021	21	138.81	3661.550307	\$ 26.38	\$ 210.96	0	\$ -
7/10/2021	22	149.25	3579.504988	\$ 23.98	\$ 210.96	0	\$ -
7/10/2021	23	129.97	3072.137412	\$ 23.64	\$ 210.96	0	\$ -
7/11/2021	0	114.35	2486.036352	\$ 21.74	\$ 210.96	0	\$ -
7/11/2021	1	97.47	2110.719186	\$ 21.66	\$ 210.96	0	\$ -
7/11/2021	2	88.61	1885.353729	\$ 21.28	\$ 210.96	0	\$ -
7/11/2021	3	76.83	1614.977817	\$ 21.02	\$ 210.96	0	\$ -
7/11/2021	4	76.84	1599.358902	\$ 20.81	\$ 210.96	0	\$ -
7/11/2021	5	79.85	1609.196928	\$ 20.15	\$ 210.96	0	\$ -
7/11/2021	6	84.77	1800.62339	\$ 21.24	\$ 210.96	0	\$ -
7/11/2021	7	102.31	2236.294333	\$ 21.86	\$ 210.96	0	\$ -
7/11/2021	8	120.73	3040.416873	\$ 25.18	\$ 210.96	0	\$ -
7/11/2021	9	150.94	4093.836189	\$ 27.12	\$ 210.96	0	\$ -
7/11/2021	10	168.2	5120.030875	\$ 30.44	\$ 210.96	0	\$ -
7/11/2021	11	191.88	6171.530077	\$ 32.16	\$ 210.96	0	\$ -
7/11/2021	12	172.55	5944.094714	\$ 34.45	\$ 210.96	0	\$ -
7/11/2021	13	213.09	8447.963278	\$ 39.65	\$ 210.96	0	\$ -
7/11/2021	14	231.56	9299.473219	\$ 40.16	\$ 210.96	0	\$ -
7/11/2021	15	258.17	10332.42578	\$ 40.02	\$ 210.96	0	\$ -
7/11/2021	16	186.8	8008.403485	\$ 42.87	\$ 210.96	0	\$ -
7/11/2021	17	63.56	2594.70416	\$ 40.82	\$ 210.96	0	\$ -
7/11/2021	21	0	0	\$ -	\$ 210.96	0	\$ -
7/11/2021	22	0	0	\$ -	\$ 210.96	0	\$ -
7/11/2021	23	36.98	935.057013	\$ 25.29	\$ 210.96	0	\$ -
7/12/2021	0	118.11	2729.804383	\$ 23.11	\$ 210.96	0	\$ -
7/12/2021	1	131.7	2936.177221	\$ 22.29	\$ 210.96	0	\$ -
7/12/2021	2	117.97	2599.05983	\$ 22.03	\$ 210.96	0	\$ -
7/12/2021	3	122.91	2731.165657	\$ 22.22	\$ 210.96	0	\$ -
7/12/2021	4	141.55	3242.779849	\$ 22.91	\$ 210.96	0	\$ -
7/12/2021	5	172.17	4212.609418	\$ 24.47	\$ 210.96	0	\$ -
7/12/2021	6	198.8	5643.934783	\$ 28.39	\$ 210.96	0	\$ -
7/12/2021	7	202.44	6071.595663	\$ 29.99	\$ 210.96	0	\$ -
7/12/2021	8	161.21	5686.688392	\$ 35.28	\$ 210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/12/2021	9	90.8	3438.181498	\$ 37.87	210.96	0	\$ -
7/12/2021	10	26.06	1112.31898	\$ 42.68	210.96	0	\$ -
7/12/2021	11	20.4	966.255812	\$ 47.37	210.96	0	\$ -
7/12/2021	12	42.08	2072.651873	\$ 49.26	210.96	0	\$ -
7/12/2021	13	56.97	2853.113829	\$ 50.08	210.96	0	\$ -
7/12/2021	14	85.4	4524.384567	\$ 52.98	210.96	0	\$ -
7/12/2021	15	86.6	4829.748162	\$ 55.77	210.96	0	\$ -
7/12/2021	16	103.32	5561.884425	\$ 53.83	210.96	0	\$ -
7/12/2021	17	94.47	4737.046053	\$ 50.14	210.96	0	\$ -
7/12/2021	18	73.78	3379.571033	\$ 45.81	210.96	0	\$ -
7/12/2021	19	48.33	2040.440597	\$ 42.22	210.96	0	\$ -
7/12/2021	20	50.63	1963.129746	\$ 38.77	210.96	0	\$ -
7/12/2021	22	18	545.82282	\$ 30.32	210.96	0	\$ -
7/12/2021	23	89.87	2521.119246	\$ 28.05	210.96	0	\$ -
7/13/2021	0	152.53	3819.653209	\$ 25.04	210.96	0	\$ -
7/13/2021	1	149.86	3470.177042	\$ 23.16	210.96	0	\$ -
7/13/2021	2	137.09	3087.608565	\$ 22.52	210.96	0	\$ -
7/13/2021	3	140.03	3147.207577	\$ 22.48	210.96	0	\$ -
7/13/2021	4	148.76	3453.284293	\$ 23.21	210.96	0	\$ -
7/13/2021	5	176.24	4612.358711	\$ 26.17	210.96	0	\$ -
7/13/2021	6	199.82	5370.675838	\$ 26.88	210.96	0	\$ -
7/13/2021	7	210.56	6309.30996	\$ 29.96	210.96	0	\$ -
7/13/2021	8	249.16	8094.546631	\$ 32.49	210.96	0	\$ -
7/13/2021	9	216.64	8232.302019	\$ 38.00	210.96	0	\$ -
7/13/2021	10	178.08	7428.155055	\$ 41.71	210.96	0	\$ -
7/13/2021	11	72	3221.507664	\$ 44.74	210.96	0	\$ -
7/13/2021	12	36.39	1623.440978	\$ 44.61	210.96	0	\$ -
7/13/2021	13	31.22	1488.30654	\$ 47.67	210.96	0	\$ -
7/13/2021	14	65.24	3222.072468	\$ 49.39	210.96	0	\$ -
7/13/2021	15	49.59	2535.97815	\$ 51.14	210.96	0	\$ -
7/13/2021	16	25.1	1332.40333	\$ 53.08	210.96	0	\$ -
7/13/2021	17	14.43	720.232238	\$ 49.91	210.96	0	\$ -
7/13/2021	18	19.79	900.855484	\$ 45.52	210.96	0	\$ -
7/13/2021	22	0	0	\$ -	210.96	0	\$ -
7/13/2021	23	0	0	\$ -	210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = (([D] / 1000) * [B]) = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/14/2021	0	78.06	1900.210443	\$ 24.34	\$ 210.96	0	\$ -
7/14/2021	1	119.39	2761.989392	\$ 23.13	\$ 210.96	0	\$ -
7/14/2021	2	112.64	2536.479447	\$ 22.52	\$ 210.96	0	\$ -
7/14/2021	3	108.58	2443.936447	\$ 22.51	\$ 210.96	0	\$ -
7/14/2021	4	121.23	2795.419536	\$ 23.06	\$ 210.96	0	\$ -
7/14/2021	5	154.15	3780.991817	\$ 24.53	\$ 210.96	0	\$ -
7/14/2021	6	178.42	4653.143642	\$ 26.08	\$ 210.96	0	\$ -
7/14/2021	7	204.87	6046.563501	\$ 29.51	\$ 210.96	0	\$ -
7/14/2021	8	187.76	6287.440449	\$ 33.49	\$ 210.96	0	\$ -
7/14/2021	9	110.36	4378.678013	\$ 39.68	\$ 210.96	0	\$ -
7/14/2021	10	17.7	735.575361	\$ 41.56	\$ 210.96	0	\$ -
7/14/2021	11	33.38	1436.950285	\$ 43.05	\$ 210.96	0	\$ -
7/14/2021	12	54.54	2534.62324	\$ 46.47	\$ 210.96	0	\$ -
7/14/2021	13	49.37	2482.256802	\$ 50.28	\$ 210.96	0	\$ -
7/14/2021	14	32.86	1658.424123	\$ 50.47	\$ 210.96	0	\$ -
7/14/2021	15	71.6	3955.72773	\$ 55.25	\$ 210.96	0	\$ -
7/14/2021	16	87.29	5050.818934	\$ 57.86	\$ 210.96	0	\$ -
7/14/2021	17	99.45	5014.228027	\$ 50.42	\$ 210.96	0	\$ -
7/14/2021	18	79.86	3726.047745	\$ 46.66	\$ 210.96	0	\$ -
7/14/2021	19	52.14	2393.486387	\$ 45.90	\$ 210.96	0	\$ -
7/14/2021	20	53.25	2165.466417	\$ 40.67	\$ 210.96	0	\$ -
7/14/2021	22	0	0	\$ -	\$ 210.96	0	\$ -
7/14/2021	23	58.21	1587.703945	\$ 27.28	\$ 210.96	0	\$ -
7/15/2021	0	136.08	3425.955523	\$ 25.18	\$ 210.96	0	\$ -
7/15/2021	1	162.69	3800.185905	\$ 23.36	\$ 210.96	0	\$ -
7/15/2021	2	149.02	3382.392925	\$ 22.70	\$ 210.96	0	\$ -
7/15/2021	3	144.22	3272.319783	\$ 22.69	\$ 210.96	0	\$ -
7/15/2021	4	150.02	3523.535792	\$ 23.49	\$ 210.96	0	\$ -
7/15/2021	5	172.57	4292.142057	\$ 24.87	\$ 210.96	0	\$ -
7/15/2021	6	200.06	5394.881179	\$ 26.97	\$ 210.96	0	\$ -
7/15/2021	7	236.68	7257.746284	\$ 30.66	\$ 210.96	0	\$ -
7/15/2021	8	253.99	9028.294759	\$ 35.55	\$ 210.96	0	\$ -
7/15/2021	9	254.11	9825.09454	\$ 38.66	\$ 210.96	0	\$ -
7/15/2021	10	178.85	7592.526071	\$ 42.45	\$ 210.96	0	\$ -
7/15/2021	11	196.22	9226.648206	\$ 47.02	\$ 210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/15/2021	12	149.74	8683.764456 \$	57.99 \$	210.96	0 \$	-
7/15/2021	13	153.97	8620.647732 \$	55.99 \$	210.96	0 \$	-
7/15/2021	14	149.91	8164.795682 \$	54.46 \$	210.96	0 \$	-
7/15/2021	15	163.6	14397.88287 \$	88.01 \$	210.96	0 \$	-
7/15/2021	16	158.46	19029.84979 \$	120.09 \$	210.96	0 \$	-
7/15/2021	17	152.5	13177.68482 \$	86.41 \$	210.96	0 \$	-
7/15/2021	18	132.1	6608.099859 \$	50.02 \$	210.96	0 \$	-
7/15/2021	19	104.21	4952.34088 \$	47.52 \$	210.96	0 \$	-
7/15/2021	20	82.54	3579.815597 \$	43.37 \$	210.96	0 \$	-
7/15/2021	21	49.5	1886.633843 \$	38.11 \$	210.96	0 \$	-
7/15/2021	22	19.23	629.391727 \$	32.73 \$	210.96	0 \$	-
7/15/2021	23	52.99	1542.579278 \$	29.11 \$	210.96	0 \$	-
7/16/2021	0	141.65	3691.687824 \$	26.06 \$	210.96	0 \$	-
7/16/2021	1	180.19	4322.663861 \$	23.99 \$	210.96	0 \$	-
7/16/2021	2	168.6	3909.965677 \$	23.19 \$	210.96	0 \$	-
7/16/2021	3	163.78	3794.27177 \$	23.17 \$	210.96	0 \$	-
7/16/2021	4	173.43	4168.068164 \$	24.03 \$	210.96	0 \$	-
7/16/2021	5	197.16	5102.143743 \$	25.88 \$	210.96	0 \$	-
7/16/2021	6	223.65	6255.216976 \$	27.97 \$	210.96	0 \$	-
7/16/2021	7	259.98	8107.930745 \$	31.19 \$	210.96	0 \$	-
7/16/2021	8	220.24	7911.604876 \$	35.92 \$	210.96	0 \$	-
7/16/2021	9	264.2	10183.37764 \$	38.54 \$	210.96	0 \$	-
7/16/2021	10	251.7	10064.83613 \$	39.99 \$	210.96	0 \$	-
7/16/2021	11	244.15	10326.02077 \$	42.29 \$	210.96	0 \$	-
7/16/2021	12	150.28	6674.779674 \$	44.42 \$	210.96	0 \$	-
7/16/2021	13	100.04	4417.371342 \$	44.16 \$	210.96	0 \$	-
7/16/2021	14	27.58	1351.356014 \$	49.00 \$	210.96	0 \$	-
7/16/2021	15	15.09	775.842813 \$	51.41 \$	210.96	0 \$	-
7/16/2021	16	42.73	2101.968135 \$	49.19 \$	210.96	0 \$	-
7/16/2021	17	45.54	2012.64745 \$	44.20 \$	210.96	0 \$	-
7/16/2021	18	19.97	799.297453 \$	40.02 \$	210.96	0 \$	-
7/16/2021	19	1.16	45.639584 \$	39.34 \$	210.96	0 \$	-
7/16/2021	22	0	0 \$	- \$	210.96	0 \$	-
7/16/2021	23	0	0 \$	- \$	210.96	0 \$	-
7/17/2021	0	37.17	1066.090277 \$	28.68 \$	210.96	0 \$	-



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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = (([D] / 1000) * [B]) = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/17/2021	1	98.49	2547.571099	\$ 25.87	\$ 210.96	0	\$ -
7/17/2021	2	117.59	2851.610298	\$ 24.25	\$ 210.96	0	\$ -
7/17/2021	3	114.71	2703.482183	\$ 23.57	\$ 210.96	0	\$ -
7/17/2021	4	116.78	2738.132719	\$ 23.45	\$ 210.96	0	\$ -
7/17/2021	5	122.75	2855.979937	\$ 23.27	\$ 210.96	0	\$ -
7/17/2021	6	138.33	3351.012849	\$ 24.22	\$ 210.96	0	\$ -
7/17/2021	7	157	4218.746058	\$ 26.87	\$ 210.96	0	\$ -
7/17/2021	8	187.52	5661.535583	\$ 30.19	\$ 210.96	0	\$ -
7/17/2021	9	154.21	5281.763437	\$ 34.25	\$ 210.96	0	\$ -
7/17/2021	10	150.57	5488.870348	\$ 36.45	\$ 210.96	0	\$ -
7/17/2021	11	51.13	1973.466348	\$ 38.60	\$ 210.96	0	\$ -
7/17/2021	12	5.96	236.434452	\$ 39.67	\$ 210.96	0	\$ -
7/17/2021	13	55.77	2399.647412	\$ 43.03	\$ 210.96	0	\$ -
7/17/2021	14	117.62	4891.583383	\$ 41.59	\$ 210.96	0	\$ -
7/17/2021	15	97.48	4152.645758	\$ 42.60	\$ 210.96	0	\$ -
7/17/2021	16	34.18	1433.232308	\$ 41.93	\$ 210.96	0	\$ -
7/17/2021	17	19.24	745.025498	\$ 38.72	\$ 210.96	0	\$ -
7/17/2021	18	25.46	925.353986	\$ 36.35	\$ 210.96	0	\$ -
7/17/2021	19	0	0	\$ -	\$ 210.96	0	\$ -
7/17/2021	20	0	0	\$ -	\$ 210.96	0	\$ -
7/17/2021	21	61.94	1817.835003	\$ 29.35	\$ 210.96	0	\$ -
7/17/2021	22	176.7	4872.081777	\$ 27.57	\$ 210.96	0	\$ -
7/17/2021	23	151.32	4376.891808	\$ 28.92	\$ 210.96	0	\$ -
7/18/2021	0	128.95	3361.512185	\$ 26.07	\$ 210.96	0	\$ -
7/18/2021	1	108.26	2735.205139	\$ 25.27	\$ 210.96	0	\$ -
7/18/2021	2	91.5	2144.687807	\$ 23.44	\$ 210.96	0	\$ -
7/18/2021	3	80.64	1834.269051	\$ 22.75	\$ 210.96	0	\$ -
7/18/2021	4	77.68	1739.177132	\$ 22.39	\$ 210.96	0	\$ -
7/18/2021	5	78.72	1709.413302	\$ 21.72	\$ 210.96	0	\$ -
7/18/2021	6	83.6	1875.904413	\$ 22.44	\$ 210.96	0	\$ -
7/18/2021	7	106.25	2577.4754	\$ 24.26	\$ 210.96	0	\$ -
7/18/2021	8	148.74	3998.208396	\$ 26.88	\$ 210.96	0	\$ -
7/18/2021	9	172.35	4851.73316	\$ 28.15	\$ 210.96	0	\$ -
7/18/2021	10	195.86	6159.672237	\$ 31.45	\$ 210.96	0	\$ -
7/18/2021	11	217.33	7443.780045	\$ 34.25	\$ 210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/18/2021	12	139.77	5541.610884	\$ 39.65	\$ 210.96	0	\$ -
7/18/2021	13	76.15	3201.359707	\$ 42.04	\$ 210.96	0	\$ -
7/18/2021	14	154.76	6494.502317	\$ 41.96	\$ 210.96	0	\$ -
7/18/2021	15	50.32	2341.110827	\$ 46.52	\$ 210.96	0	\$ -
7/18/2021	16	21.04	1036.604737	\$ 49.27	\$ 210.96	0	\$ -
7/18/2021	17	20.13	1270.301093	\$ 63.10	\$ 210.96	0	\$ -
7/18/2021	18	7.45	330.349673	\$ 44.34	\$ 210.96	0	\$ -
7/18/2021	19	5.77	246.639365	\$ 42.75	\$ 210.96	0	\$ -
7/18/2021	21	0	0	\$ -	\$ 210.96	0	\$ -
7/18/2021	22	0	0	\$ -	\$ 210.96	0	\$ -
7/18/2021	23	60.64	1576.013043	\$ 25.99	\$ 210.96	0	\$ -
7/19/2021	0	111.09	2642.151674	\$ 23.78	\$ 210.96	0	\$ -
7/19/2021	1	100.22	2285.219948	\$ 22.80	\$ 210.96	0	\$ -
7/19/2021	2	91.38	2034.067444	\$ 22.26	\$ 210.96	0	\$ -
7/19/2021	3	92.34	2048.561515	\$ 22.18	\$ 210.96	0	\$ -
7/19/2021	4	107.08	2520.797478	\$ 23.54	\$ 210.96	0	\$ -
7/19/2021	5	129.74	3206.350508	\$ 24.71	\$ 210.96	0	\$ -
7/19/2021	6	152.43	4203.330874	\$ 27.58	\$ 210.96	0	\$ -
7/19/2021	7	190.89	5727.681938	\$ 30.01	\$ 210.96	0	\$ -
7/19/2021	8	213.32	7093.652406	\$ 33.25	\$ 210.96	0	\$ -
7/19/2021	9	251.71	10104.2654	\$ 40.14	\$ 210.96	0	\$ -
7/19/2021	10	245.05	10968.01333	\$ 44.76	\$ 210.96	0	\$ -
7/19/2021	11	204.7	10154.27983	\$ 49.61	\$ 210.96	0	\$ -
7/19/2021	12	118.18	5966.026932	\$ 50.48	\$ 210.96	0	\$ -
7/19/2021	13	84.74	4640.578233	\$ 54.76	\$ 210.96	0	\$ -
7/19/2021	14	78.67	4565.579229	\$ 58.03	\$ 210.96	0	\$ -
7/19/2021	15	103.45	6807.348282	\$ 65.80	\$ 210.96	0	\$ -
7/19/2021	16	86.38	5924.664524	\$ 68.59	\$ 210.96	0	\$ -
7/19/2021	17	74.7	4424.459337	\$ 59.23	\$ 210.96	0	\$ -
7/19/2021	18	54.13	2830.941297	\$ 52.30	\$ 210.96	0	\$ -
7/19/2021	19	31.35	1465.913679	\$ 46.76	\$ 210.96	0	\$ -
7/19/2021	20	7.48	319.653499	\$ 42.73	\$ 210.96	0	\$ -
7/19/2021	22	0	0	\$ -	\$ 210.96	0	\$ -
7/19/2021	23	11.77	301.453428	\$ 25.61	\$ 210.96	0	\$ -
7/20/2021	0	92.21	2196.525558	\$ 23.82	\$ 210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = (([D] / 1000) * [B]) = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/20/2021	1	123.61	2796.588858 \$	22.62 \$	210.96	0	\$ -
7/20/2021	2	110.81	2451.140138 \$	22.12 \$	210.96	0	\$ -
7/20/2021	3	107.79	2388.157406 \$	22.16 \$	210.96	0	\$ -
7/20/2021	4	116.7	2650.345109 \$	22.71 \$	210.96	0	\$ -
7/20/2021	5	145.33	3477.470482 \$	23.93 \$	210.96	0	\$ -
7/20/2021	6	176.88	4403.475004 \$	24.90 \$	210.96	0	\$ -
7/20/2021	7	196.43	5363.184469 \$	27.30 \$	210.96	0	\$ -
7/20/2021	8	203.87	6843.703467 \$	33.57 \$	210.96	0	\$ -
7/20/2021	9	170.29	6559.645728 \$	38.52 \$	210.96	0	\$ -
7/20/2021	10	62.66	2730.914477 \$	43.58 \$	210.96	0	\$ -
7/20/2021	11	38.2	1850.172955 \$	48.43 \$	210.96	0	\$ -
7/20/2021	12	60.93	3154.517009 \$	51.77 \$	210.96	0	\$ -
7/20/2021	13	81.65	4460.854914 \$	54.63 \$	210.96	0	\$ -
7/20/2021	14	98.13	5531.404597 \$	56.37 \$	210.96	0	\$ -
7/20/2021	15	109.93	7153.792038 \$	65.08 \$	210.96	0	\$ -
7/20/2021	16	54.87	3869.988727 \$	70.53 \$	210.96	0	\$ -
7/20/2021	17	0	0 \$	- \$	210.96	0	\$ -
7/20/2021	18	79.79	4067.817236 \$	50.98 \$	210.96	0	\$ -
7/20/2021	19	65.33	3187.439202 \$	48.79 \$	210.96	0	\$ -
7/20/2021	20	26.34	1151.830579 \$	43.73 \$	210.96	0	\$ -
7/20/2021	21	0	0 \$	- \$	210.96	0	\$ -
7/20/2021	23	0	0 \$	- \$	210.96	0	\$ -
7/21/2021	0	17.87	437.774131 \$	24.50 \$	210.96	0	\$ -
7/21/2021	1	101.41	2363.98362 \$	23.31 \$	210.96	0	\$ -
7/21/2021	2	114.7	2580.195884 \$	22.50 \$	210.96	0	\$ -
7/21/2021	3	109.7	2398.344882 \$	21.86 \$	210.96	0	\$ -
7/21/2021	4	122.41	2782.226288 \$	22.73 \$	210.96	0	\$ -
7/21/2021	5	154.09	3661.791524 \$	23.76 \$	210.96	0	\$ -
7/21/2021	6	171.6	4265.760985 \$	24.86 \$	210.96	0	\$ -
7/21/2021	7	200.39	5345.497233 \$	26.68 \$	210.96	0	\$ -
7/21/2021	8	201.95	6509.626411 \$	32.23 \$	210.96	0	\$ -
7/21/2021	9	111.46	3949.794088 \$	35.44 \$	210.96	0	\$ -
7/21/2021	10	2.07	81.663154 \$	39.45 \$	210.96	0	\$ -
7/21/2021	11	0	0 \$	- \$	210.96	0	\$ -
7/21/2021	12	24.29	1103.797111 \$	45.44 \$	210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = (([D] / 1000) * [B]) = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/21/2021	13	42.07	2061.849396 \$	49.01 \$	210.96	0	\$ -
7/21/2021	14	53.15	2742.189848 \$	51.59 \$	210.96	0	\$ -
7/21/2021	15	84.92	4570.026696 \$	53.82 \$	210.96	0	\$ -
7/21/2021	16	70.94	3731.495006 \$	52.60 \$	210.96	0	\$ -
7/21/2021	17	61.36	2956.489306 \$	48.18 \$	210.96	0	\$ -
7/21/2021	18	30.96	1354.456935 \$	43.75 \$	210.96	0	\$ -
7/21/2021	19	8.29	341.467454 \$	41.19 \$	210.96	0	\$ -
7/21/2021	20	0	0 \$	- \$	210.96	0	\$ -
7/21/2021	21	9.09	290.456915 \$	31.95 \$	210.96	0	\$ -
7/21/2021	22	32.82	892.691627 \$	27.20 \$	210.96	0	\$ -
7/21/2021	23	80.22	2002.312298 \$	24.96 \$	210.96	0	\$ -
7/22/2021	0	125.62	3006.175665 \$	23.93 \$	210.96	0	\$ -
7/22/2021	1	99.11	2242.660287 \$	22.63 \$	210.96	0	\$ -
7/22/2021	2	87.23	1890.93321 \$	21.68 \$	210.96	0	\$ -
7/22/2021	3	83.23	1785.843305 \$	21.46 \$	210.96	0	\$ -
7/22/2021	4	95.07	2164.028308 \$	22.76 \$	210.96	0	\$ -
7/22/2021	5	112.77	2744.385606 \$	24.34 \$	210.96	0	\$ -
7/22/2021	6	146.39	3634.796214 \$	24.83 \$	210.96	0	\$ -
7/22/2021	7	172.99	4489.808581 \$	25.95 \$	210.96	0	\$ -
7/22/2021	8	199.72	5905.089485 \$	29.57 \$	210.96	0	\$ -
7/22/2021	9	212.37	6819.056501 \$	32.11 \$	210.96	0	\$ -
7/22/2021	10	228.93	8570.227143 \$	37.44 \$	210.96	0	\$ -
7/22/2021	11	155.5	6386.532881 \$	41.07 \$	210.96	0	\$ -
7/22/2021	12	38.88	1735.198809 \$	44.63 \$	210.96	0	\$ -
7/22/2021	13	21.55	1058.456373 \$	49.12 \$	210.96	0	\$ -
7/22/2021	14	34.71	1836.887493 \$	52.92 \$	210.96	0	\$ -
7/22/2021	15	50.52	3049.451613 \$	60.36 \$	210.96	0	\$ -
7/22/2021	16	51.42	3030.749357 \$	58.94 \$	210.96	0	\$ -
7/22/2021	17	43.75	2307.75265 \$	52.75 \$	210.96	0	\$ -
7/22/2021	18	20.01	903.872751 \$	45.17 \$	210.96	0	\$ -
7/22/2021	19	13.39	570.509739 \$	42.61 \$	210.96	0	\$ -
7/22/2021	21	0	0 \$	- \$	210.96	0	\$ -
7/22/2021	22	45.76	1305.17848 \$	28.52 \$	210.96	0	\$ -
7/22/2021	23	102.39	2693.498883 \$	26.31 \$	210.96	0	\$ -
7/23/2021	0	122.9	3081.849618 \$	25.08 \$	210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = (([D] / 1000) * [B]) = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/23/2021	1	97.25	2244.034511 \$	23.07 \$	210.96	0 \$	-
7/23/2021	2	85.3	1887.976802 \$	22.13 \$	210.96	0 \$	-
7/23/2021	3	88.21	1942.347152 \$	22.02 \$	210.96	0 \$	-
7/23/2021	4	91.03	2139.670254 \$	23.51 \$	210.96	0 \$	-
7/23/2021	5	114.7	2957.993139 \$	25.79 \$	210.96	0 \$	-
7/23/2021	6	138.46	3583.735257 \$	25.88 \$	210.96	0 \$	-
7/23/2021	7	171.08	4728.591493 \$	27.64 \$	210.96	0 \$	-
7/23/2021	8	201.72	6215.312724 \$	30.81 \$	210.96	0 \$	-
7/23/2021	9	180.15	6237.92218 \$	34.63 \$	210.96	0 \$	-
7/23/2021	10	138.75	5378.010079 \$	38.76 \$	210.96	0 \$	-
7/23/2021	11	70.49	2906.556816 \$	41.23 \$	210.96	0 \$	-
7/23/2021	12	23.99	1087.296923 \$	45.32 \$	210.96	0 \$	-
7/23/2021	13	42.66	2086.181119 \$	48.90 \$	210.96	0 \$	-
7/23/2021	14	56.41	2992.234266 \$	53.04 \$	210.96	0 \$	-
7/23/2021	15	69.12	3947.991736 \$	57.12 \$	210.96	0 \$	-
7/23/2021	16	74.02	4271.589462 \$	57.71 \$	210.96	0 \$	-
7/23/2021	17	68.23	3384.841174 \$	49.61 \$	210.96	0 \$	-
7/23/2021	18	49.67	2248.376724 \$	45.27 \$	210.96	0 \$	-
7/23/2021	19	39.03	1692.434511 \$	43.36 \$	210.96	0 \$	-
7/23/2021	20	2.27	89.82452 \$	39.57 \$	210.96	0 \$	-
7/23/2021	21	13.9	466.570389 \$	33.57 \$	210.96	0 \$	-
7/23/2021	22	86.68	2655.467891 \$	30.64 \$	210.96	0 \$	-
7/23/2021	23	150.44	4023.204584 \$	26.74 \$	210.96	0 \$	-
7/24/2021	0	136.86	3475.633878 \$	25.40 \$	210.96	0 \$	-
7/24/2021	1	113.1	2679.444522 \$	23.69 \$	210.96	0 \$	-
7/24/2021	2	94.31	2134.28519 \$	22.63 \$	210.96	0 \$	-
7/24/2021	3	84.41	1824.588412 \$	21.62 \$	210.96	0 \$	-
7/24/2021	4	86.4	1857.173443 \$	21.50 \$	210.96	0 \$	-
7/24/2021	5	84.41	1764.252988 \$	20.90 \$	210.96	0 \$	-
7/24/2021	6	107.26	2462.260345 \$	22.96 \$	210.96	0 \$	-
7/24/2021	7	136.79	3364.506811 \$	24.60 \$	210.96	0 \$	-
7/24/2021	8	177.06	4720.389854 \$	26.66 \$	210.96	0 \$	-
7/24/2021	9	224.3	7350.194588 \$	32.77 \$	210.96	0 \$	-
7/24/2021	10	225.76	8637.107793 \$	38.26 \$	210.96	0 \$	-
7/24/2021	11	132.09	5601.943901 \$	42.41 \$	210.96	0 \$	-

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = (([D] / 1000) * [B]) = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/24/2021	12	112.9	5057.182537	\$ 44.79	\$ 210.96	0	\$ -
7/24/2021	13	222.62	11023.09342	\$ 49.52	\$ 210.96	0	\$ -
7/24/2021	14	247.3	13604.01257	\$ 55.01	\$ 210.96	0	\$ -
7/24/2021	15	149.01	9010.25994	\$ 60.47	\$ 210.96	0	\$ -
7/24/2021	16	106.62	6700.726989	\$ 62.85	\$ 210.96	0	\$ -
7/24/2021	17	82.78	4675.699246	\$ 56.48	\$ 210.96	0	\$ -
7/24/2021	18	52.37	2520.068962	\$ 48.12	\$ 210.96	0	\$ -
7/24/2021	19	26.56	1172.731754	\$ 44.15	\$ 210.96	0	\$ -
7/24/2021	20	7.73	314.379479	\$ 40.67	\$ 210.96	0	\$ -
7/24/2021	21	0	0	\$ -	\$ 210.96	0	\$ -
7/24/2021	22	0	0	\$ -	\$ 210.96	0	\$ -
7/24/2021	23	27.68	770.649315	\$ 27.84	\$ 210.96	0	\$ -
7/25/2021	0	109.25	2826.867567	\$ 25.88	\$ 210.96	0	\$ -
7/25/2021	1	156.53	3805.162591	\$ 24.31	\$ 210.96	0	\$ -
7/25/2021	2	148.67	3549.748543	\$ 23.88	\$ 210.96	0	\$ -
7/25/2021	3	151.75	3483.683778	\$ 22.96	\$ 210.96	0	\$ -
7/25/2021	4	137.83	3075.320159	\$ 22.31	\$ 210.96	0	\$ -
7/25/2021	5	142.72	3032.055002	\$ 21.24	\$ 210.96	0	\$ -
7/25/2021	6	148.61	3294.65695	\$ 22.17	\$ 210.96	0	\$ -
7/25/2021	7	175.22	4331.32258	\$ 24.72	\$ 210.96	0	\$ -
7/25/2021	8	219.66	6095.762255	\$ 27.75	\$ 210.96	0	\$ -
7/25/2021	9	272.88	9289.791644	\$ 34.04	\$ 210.96	0	\$ -
7/25/2021	10	242.95	9361.703135	\$ 38.53	\$ 210.96	0	\$ -
7/25/2021	11	164.5	7237.791743	\$ 44.00	\$ 210.96	0	\$ -
7/25/2021	12	119.76	5736.262564	\$ 47.90	\$ 210.96	0	\$ -
7/25/2021	13	118.42	5952.239907	\$ 50.26	\$ 210.96	0	\$ -
7/25/2021	14	137.23	7414.703086	\$ 54.03	\$ 210.96	0	\$ -
7/25/2021	15	143.81	8530.057793	\$ 59.31	\$ 210.96	0	\$ -
7/25/2021	16	146.28	8537.43677	\$ 58.36	\$ 210.96	0	\$ -
7/25/2021	17	181.47	10618.69509	\$ 58.51	\$ 210.96	0	\$ -
7/25/2021	18	167.92	8353.852416	\$ 49.75	\$ 210.96	0	\$ -
7/25/2021	19	130.61	6451.250815	\$ 49.39	\$ 210.96	0	\$ -
7/25/2021	20	113.57	5090.833511	\$ 44.83	\$ 210.96	0	\$ -
7/25/2021	21	76.27	2900.752122	\$ 38.03	\$ 210.96	0	\$ -
7/25/2021	22	32.01	1045.40694	\$ 32.66	\$ 210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = (([D] / 1000) * [B]) = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/25/2021	23	17.63	539.409825	\$ 30.60	\$ 210.96	0	\$ -
7/26/2021	0	81.2	2243.69136	\$ 27.63	\$ 210.96	0	\$ -
7/26/2021	1	126.73	3167.030097	\$ 24.99	\$ 210.96	0	\$ -
7/26/2021	2	172.12	4179.7101	\$ 24.28	\$ 210.96	0	\$ -
7/26/2021	3	163.27	3961.146369	\$ 24.26	\$ 210.96	0	\$ -
7/26/2021	4	179.91	4521.0192	\$ 25.13	\$ 210.96	0	\$ -
7/26/2021	5	203.54	5669.354107	\$ 27.85	\$ 210.96	0	\$ -
7/26/2021	6	226.21	6714.505244	\$ 29.68	\$ 210.96	0	\$ -
7/26/2021	7	250.56	8595.168396	\$ 34.30	\$ 210.96	0	\$ -
7/26/2021	8	252.45	9844.055748	\$ 38.99	\$ 210.96	0	\$ -
7/26/2021	9	279.73	11768.26264	\$ 42.07	\$ 210.96	0	\$ -
7/26/2021	10	202.72	9365.793538	\$ 46.20	\$ 210.96	0	\$ -
7/26/2021	11	191.6	9631.705176	\$ 50.27	\$ 210.96	0	\$ -
7/26/2021	12	24.23	1382.342507	\$ 57.05	\$ 210.96	0	\$ -
7/26/2021	13	0	0	\$ -	\$ 210.96	0	\$ -
7/26/2021	14	0	0	\$ -	\$ 210.96	0	\$ -
7/26/2021	15	0	0	\$ -	\$ 210.96	0	\$ -
7/26/2021	16	48.77	3729.787533	\$ 76.48	\$ 210.96	0	\$ -
7/26/2021	17	59.03	4073.452514	\$ 69.01	\$ 210.96	0	\$ -
7/26/2021	18	0	0	\$ -	\$ 210.96	0	\$ -
7/26/2021	19	88.69	4489.909698	\$ 50.62	\$ 210.96	0	\$ -
7/26/2021	20	111.72	4656.581322	\$ 41.68	\$ 210.96	0	\$ -
7/26/2021	21	72.65	2754.67717	\$ 37.92	\$ 210.96	0	\$ -
7/26/2021	22	0	0	\$ -	\$ 210.96	0	\$ -
7/26/2021	23	57.17	1803.092405	\$ 31.54	\$ 210.96	0	\$ -
7/27/2021	0	98.88	2799.230011	\$ 28.31	\$ 210.96	0	\$ -
7/27/2021	1	147.68	3801.789447	\$ 25.74	\$ 210.96	0	\$ -
7/27/2021	2	138.43	3364.955748	\$ 24.31	\$ 210.96	0	\$ -
7/27/2021	3	137.66	3298.913149	\$ 23.96	\$ 210.96	0	\$ -
7/27/2021	4	149.58	3661.392615	\$ 24.48	\$ 210.96	0	\$ -
7/27/2021	5	160.11	4241.332793	\$ 26.49	\$ 210.96	0	\$ -
7/27/2021	6	185.28	5315.752495	\$ 28.69	\$ 210.96	0	\$ -
7/27/2021	7	220.55	7024.562713	\$ 31.85	\$ 210.96	0	\$ -
7/27/2021	8	224.76	8688.84198	\$ 38.66	\$ 210.96	0	\$ -
7/27/2021	9	240.13	10574.07869	\$ 44.03	\$ 210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = (([D] / 1000) * [B]) = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/27/2021	10	272.15	13995.67734 \$	51.43 \$	210.96	0	\$ -
7/27/2021	11	287.42	17042.105 \$	59.29 \$	210.96	0	\$ -
7/27/2021	12	288.3	19006.12964 \$	65.92 \$	210.96	0	\$ -
7/27/2021	13	186.84	12859.81082 \$	68.83 \$	210.96	0	\$ -
7/27/2021	14	160.35	12302.27312 \$	76.72 \$	210.96	0	\$ -
7/27/2021	15	168.98	15939.6061 \$	94.33 \$	210.96	0	\$ -
7/27/2021	16	3.16	291.108917 \$	92.12 \$	210.96	0	\$ -
7/27/2021	17	86.34	6615.713138 \$	76.62 \$	210.96	0	\$ -
7/27/2021	18	117.17	7489.138603 \$	63.92 \$	210.96	0	\$ -
7/27/2021	19	98.8	5423.779041 \$	54.90 \$	210.96	0	\$ -
7/27/2021	20	76.92	3575.508205 \$	46.48 \$	210.96	0	\$ -
7/27/2021	21	29.62	1283.703313 \$	43.34 \$	210.96	0	\$ -
7/27/2021	22	0	0 \$	- \$	210.96	0	\$ -
7/27/2021	23	0	0 \$	- \$	210.96	0	\$ -
7/28/2021	0	0	0 \$	- \$	210.96	0	\$ -
7/28/2021	1	0	0 \$	- \$	210.96	0	\$ -
7/28/2021	2	72.41	1824.863786 \$	25.20 \$	210.96	0	\$ -
7/28/2021	3	124.58	3057.543644 \$	24.54 \$	210.96	0	\$ -
7/28/2021	4	156.43	4007.371023 \$	25.62 \$	210.96	0	\$ -
7/28/2021	5	134.8	3664.243058 \$	27.18 \$	210.96	0	\$ -
7/28/2021	6	145.75	4206.273145 \$	28.86 \$	210.96	0	\$ -
7/28/2021	7	176.1	5591.732533 \$	31.75 \$	210.96	0	\$ -
7/28/2021	8	239.33	9043.732874 \$	37.79 \$	210.96	0	\$ -
7/28/2021	9	274.7	11414.46571 \$	41.55 \$	210.96	0	\$ -
7/28/2021	10	252.02	12213.40257 \$	48.46 \$	210.96	0	\$ -
7/28/2021	11	191.74	11367.87134 \$	59.29 \$	210.96	0	\$ -
7/28/2021	12	140.1	9922.541591 \$	70.82 \$	210.96	0	\$ -
7/28/2021	13	150.61	10500.60631 \$	69.72 \$	210.96	0	\$ -
7/28/2021	14	148.34	12186.127 \$	82.15 \$	210.96	0	\$ -
7/28/2021	15	155.17	14618.56523 \$	94.21 \$	210.96	0	\$ -
7/28/2021	16	153.15	13704.77523 \$	89.49 \$	210.96	0	\$ -
7/28/2021	17	148.36	11577.35939 \$	78.04 \$	210.96	0	\$ -
7/28/2021	18	133.87	8203.212901 \$	61.28 \$	210.96	0	\$ -
7/28/2021	19	104.58	5227.33791 \$	49.98 \$	210.96	0	\$ -
7/28/2021	20	106.74	4609.037576 \$	43.18 \$	210.96	0	\$ -



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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/28/2021	21	213.4	8109.752493	\$ 38.00	\$ 210.96	0	\$ -
7/28/2021	22	282.34	9200.526902	\$ 32.59	\$ 210.96	0	\$ -
7/28/2021	23	244.89	7444.964072	\$ 30.40	\$ 210.96	0	\$ -
7/29/2021	0	228.49	5983.238912	\$ 26.19	\$ 210.96	0	\$ -
7/29/2021	1	257.01	6225.241991	\$ 24.22	\$ 210.96	0	\$ -
7/29/2021	2	479.39	11161.37466	\$ 23.28	\$ 210.96	0	\$ -
7/29/2021	3	478.42	11020.24156	\$ 23.03	\$ 210.96	0	\$ -
7/29/2021	4	496.02	11725.56707	\$ 23.64	\$ 210.96	0	\$ -
7/29/2021	5	515.53	13144.08331	\$ 25.50	\$ 210.96	0	\$ -
7/29/2021	6	535.23	14401.04824	\$ 26.91	\$ 210.96	0	\$ -
7/29/2021	7	555.98	16512.1779	\$ 29.70	\$ 210.96	0	\$ -
7/29/2021	8	578.62	19190.43975	\$ 33.17	\$ 210.96	0	\$ -
7/29/2021	9	616.77	24766.99022	\$ 40.16	\$ 210.96	0	\$ -
7/29/2021	10	659.49	29693.45877	\$ 45.02	\$ 210.96	0	\$ -
7/29/2021	11	700.81	36084.99073	\$ 51.49	\$ 210.96	0	\$ -
7/29/2021	12	726.11	43475.36428	\$ 59.87	\$ 210.96	0	\$ -
7/29/2021	13	746.74	47474.6362	\$ 63.58	\$ 210.96	0	\$ -
7/29/2021	14	761.44	52722.04392	\$ 69.24	\$ 210.96	0	\$ -
7/29/2021	15	738.68	50700.91655	\$ 68.64	\$ 210.96	0	\$ -
7/29/2021	16	535.11	39429.18651	\$ 73.68	\$ 210.96	0	\$ -
7/29/2021	17	640.64	40634.51648	\$ 63.43	\$ 210.96	0	\$ -
7/29/2021	18	700.96	35094.81992	\$ 50.07	\$ 210.96	0	\$ -
7/29/2021	19	676.29	29891.84284	\$ 44.20	\$ 210.96	0	\$ -
7/29/2021	20	432.25	15594.38958	\$ 36.08	\$ 210.96	0	\$ -
7/29/2021	21	477.88	15145.07236	\$ 31.69	\$ 210.96	0	\$ -
7/29/2021	22	574.19	16920.36126	\$ 29.47	\$ 210.96	0	\$ -
7/29/2021	23	580.71	18404.09709	\$ 31.69	\$ 210.96	0	\$ -
7/30/2021	0	547.48	15040.75325	\$ 27.47	\$ 210.96	0	\$ -
7/30/2021	1	521.89	13033.57544	\$ 24.97	\$ 210.96	0	\$ -
7/30/2021	2	503.12	12033.56831	\$ 23.92	\$ 210.96	0	\$ -
7/30/2021	3	493.23	11817.20583	\$ 23.96	\$ 210.96	0	\$ -
7/30/2021	4	502.15	12472.75823	\$ 24.84	\$ 210.96	0	\$ -
7/30/2021	5	518.9	13848.54278	\$ 26.69	\$ 210.96	0	\$ -
7/30/2021	6	537.65	15966.07806	\$ 29.70	\$ 210.96	0	\$ -
7/30/2021	7	552.39	17561.28017	\$ 31.79	\$ 210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = (([A] / 1000) * [B]) = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = (([D] / 1000) * [B]) = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = (([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/30/2021	8	571.83	19484.90883	\$ 34.07	210.96	0	\$ -
7/30/2021	9	602.09	23162.53717	\$ 38.47	210.96	0	\$ -
7/30/2021	10	625.58	26446.5803	\$ 42.28	210.96	0	\$ -
7/30/2021	11	656.02	29244.05431	\$ 44.58	210.96	0	\$ -
7/30/2021	12	677.9	31804.3103	\$ 46.92	210.96	0	\$ -
7/30/2021	13	686.86	33859.30151	\$ 49.30	210.96	0	\$ -
7/30/2021	14	693.89	34930.51975	\$ 50.34	210.96	0	\$ -
7/30/2021	15	695.89	38055.08285	\$ 54.69	210.96	0	\$ -
7/30/2021	16	693.98	34672.02292	\$ 49.96	210.96	0	\$ -
7/30/2021	17	681.26	31490.8654	\$ 46.22	210.96	0	\$ -
7/30/2021	18	649.78	27772.50559	\$ 42.74	210.96	0	\$ -
7/30/2021	19	533.41	21681.2629	\$ 40.65	210.96	0	\$ -
7/30/2021	20	443.88	15715.53767	\$ 35.40	210.96	0	\$ -
7/30/2021	21	357.59	10983.5957	\$ 30.72	210.96	0	\$ -
7/30/2021	22	299.14	8098.395856	\$ 27.07	210.96	0	\$ -
7/30/2021	23	257.78	7262.689596	\$ 28.17	210.96	0	\$ -
7/31/2021	0	228.16	5952.217546	\$ 26.09	210.96	0	\$ -
7/31/2021	1	204.54	5030.360013	\$ 24.59	210.96	0	\$ -
7/31/2021	2	189.8	4433.258625	\$ 23.36	210.96	0	\$ -
7/31/2021	3	185.91	4254.297884	\$ 22.88	210.96	0	\$ -
7/31/2021	4	187.91	4168.44173	\$ 22.18	210.96	0	\$ -
7/31/2021	5	193.87	4256.224306	\$ 21.95	210.96	0	\$ -
7/31/2021	6	174.81	4101.565632	\$ 23.46	210.96	0	\$ -
7/31/2021	7	173.52	4398.087373	\$ 25.35	210.96	0	\$ -
7/31/2021	8	147.19	3876.97886	\$ 26.34	210.96	0	\$ -
7/31/2021	9	139.71	3997.679124	\$ 28.61	210.96	0	\$ -
7/31/2021	10	147.03	4559.144615	\$ 31.01	210.96	0	\$ -
7/31/2021	11	147.65	4866.408014	\$ 32.96	210.96	0	\$ -
7/31/2021	12	120.59	4525.943724	\$ 37.53	210.96	0	\$ -
7/31/2021	13	80.71	3240.209164	\$ 40.15	210.96	0	\$ -
7/31/2021	14	37	1559.698074	\$ 42.15	210.96	0	\$ -
7/31/2021	15	0.22	10.485539	\$ 47.66	210.96	0	\$ -
7/31/2021	16	0	0	\$ -	210.96	0	\$ -
7/31/2021	17	0	0	\$ -	210.96	0	\$ -
7/31/2021	18	0	0	\$ -	210.96	0	\$ -

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

[A] = Woodsdale Average Heat Rate at Minimum Load		81,829	Btu/kWh
[B] = Maximum Monthly Natural Gas Price		\$4.35	\$/MMBtu
[C] = ([A] / 1000) * [B] = Woodsdale Fuel Cost at Minimum Load	\$	355.96	\$/MWh
[D] = Woodsdale Average Heat Rate at Maximum Load		15,166	Btu/kWh
[E] = ([D] / 1000) * [B] = Woodsdale Fuel Cost at Maximum Load	\$	65.97	\$/MWh
[F] = ([C]+[E])/2 = Average of Maximum and Minimum Load \$/MWh Fuel Cost	\$	210.96	

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
7/31/2021	19	0	0 \$	-	210.96	0	0 \$
7/31/2021	20	0	0 \$	-	210.96	0	0 \$
7/31/2021	21	0	0 \$	-	210.96	0	0 \$
7/31/2021	22	0	0 \$	-	210.96	0	0 \$
		<u>85,117.54</u>	<u>3,248,593.26</u>				<u>0.00</u>

**KY PJM Charge Detail**  
**Net Fuel Related RTO Billing Line Items**  
**July 31, 2021**

<u>PJM Statement</u>	<u>Native FAC</u>
1230-Inad Inter	\$ (4,433.01)
1250-Meter Err Cor	\$ (2.32)
1340-Regulation	\$ (53,884.31)
1360-Synch Reserve	\$ (17,659.91)
1370-Operating Resrv	\$ (2,898.72)
1375-Bal Opr Rsrv	\$ (66,275.73)
1500-FTR Shortfall	\$ (0.09)
1500-Mthly FTR Prem	\$ 0.17
2215-Bal Trns Cng Cr	\$ (15,975.11)
2220-Tran Loss	\$ 193,998.89
2340-Lost Opp. Cost	\$ 1,808.67
2360-Synch Reserve	\$ 7,646.48
2375-Bal Opr Rsrv Cr	\$ 367,103.51
2510-ARR	\$ 315,327.35
FTR	\$ 225,408.96
PJM Annual FTR Prem	\$ (293,103.62)
PJM Mthly FTR Prem	\$ (1,651.37)
Reg.Supply	\$ 13,508.71
	<u>\$ 668,918.55</u>
 Congestion & Losses	 <u>\$ 553,043.89</u>
 Net Fuel Related RTO Billing Line Items	 <u><u>\$ 115,874.65</u></u>