

**KPSC Case No. 2018-00216**  
**Commission Staff's First Set of Data Requests**  
**Dated August 10, 2018**

**DATA REQUEST**

1-01                      For the period under review, provide the amount of coal purchased in tons, and the percentage of purchases that were spot versus contract.

**RESPONSE**

Please refer to KPCO\_R\_KPSC\_1\_01\_Attachment1.pdf for the requested information. For purposes of the Company's monthly fuel adjustment clause back-up filings, Kentucky Power defines a spot purchase as an agreement with a term of one year or less. To permit the Commission to reconcile this response to the Company's fuel adjustment clause back-up filings, the term "spot purchase" is likewise defined for purposes of KPCO\_R\_KPSC\_1\_01\_Attachment1.pdf as any purchase with a term of one year or less.

The Company's definition of spot purchase for purposes of this response and Kentucky Power's fuel adjustment clause back-up filings differs slightly from that used by Staff in KPSC 1-02 (defining spot purchase as less than one year) and the accompanying response by Kentucky Power.

Witness:              Clinton M. Stutler

<b>Counterparty</b>	<b>Type of Purchase</b>	<b>Total Tons</b>
Alpha Coal Sales Co., LLC	Spot	176,092
Alpha Coal Sales Co., LLC (17-003)**	Contract	119,327
Consolidation Coal Company and McElroy Coal Company*	Contract	270,319
Ember Energy LLC**	Contract	23,454
Coal Network	Spot	23,485
SNR RiverOps LLC	Spot	15,945
Seminole Coal Resources, LLC**	Contract	26,522
Case Coal Sales, LLC	Spot	14,673

<b>Grand Total</b>	<b>669,817</b>
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\*Formerly listed as Consolidation Coal Company - OVRI

\*\*Originally executed as a Spot purchase, but amended with the Term in excess of one year.

Total Contract	66%
Total Spot	34%

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**DATA REQUEST**

1-02

For the period under review, list each coal purchase made under a long-term contract (one year or greater). For each purchase, list:

- a. Contract or purchase order number;
- b. The supplier's name;
- c. The location(s) of production facilities from which the coal is sourced;
- d. The method of delivery, (i.e., barge, truck, rail, other);
- e. The actual quantity received during the review period;
- f. The tonnage requirement for the review period; and
- g. Current price paid per ton.

**RESPONSE**

Please refer to attachment [KPCO\\_R\\_KPSC\\_1\\_02\\_Attachment1.pdf](#) for the requested information presented in conformity with the provided definition of "long term" fuel contract.

Witness:            Clinton M. Stutler

This response is provided for the time period of November 1, 2017 through April 30, 2018 and lists all pertinent fuel contract information requested. Tonnage information is reported per Kentucky Power ownership share.

**Alpha Coal Sales Co., LLC**

- a. 03-00-16-002
- b. Alpha Coal Sales Co., LLC
- c. Slabcamp, Black Castle, Republic, and Various Boone and Kanawha County Mines
- d. Barge
- e. 37,465
- f.\* 41,667
- g. \$48,000

\* Contract obligation was met as this contract was ahead of the ratable schedule

**Alpha Coal Sales Co., LLC**

- a. 03-00-17-005
- b. Alpha Coal Sales Co., LLC
- c. Mammoth, Black Castle, Republic, Empire - Kanawha, Boone, & Raleigh Counties, WV
- d. Barge
- e. 138,842
- f. 116,667
- g. \$52,500

**Alpha Coal Sales Co., LLC**

- a. 03-00-17-003
- b. Alpha Coal Sales Co., LLC
- c. Mammoth, Black Castle, Republic, Empire - Kanawha, Boone, & Raleigh Counties, WV
- d. Barge
- e. 119,327
- f. 80,000
- g. \$54,500

**Consolidation Coal Company and McElroy Coal Company**

- a. 07-77-05-900
- b. Consolidation Coal Company and McElroy Coal Company
- c. McElroy Mine, Marshall, WV
- d. Conveyor
- e. 270,319
- f. 398,025
- g.\* \$44,868

\* This is the weighted average price for 2018 (including 2017 shortfall carryover)

**Coal Network, LLC**

- a. 03-00-17-007
- b. Coal Network, LLC
- c. Liberty Management Mine - Perry County, KY
- d. Barge
- e. 13,228
- f. 19,200
- g. \$55,050

**Ember Energy, LLC**

- a. 03-00-16-003
- b. Ember Energy, LLC
- c. Various Mines in Magoffin County Kentucky
- d. Barge
- e. 23,454
- f. 36,000
- g. \$49.74

**Seminole Coal Resources, LLC**

- a. 03-00-16-007
- b. Seminole Coal Resources, LLC
- c. Kanawha and Fayette Counties in West Virginia
- d. Barge
- e. 26,522
- f. 37,895
- g. \$53.00

**Ember Energy, LLC**

- a. 03-00-17-004
- b. Ember Energy, LLC
- c. Various Mines in Magoffin County Kentucky
- d. Barge
- e. 0
- f. 18,000
- g. \$54.49

**SNR River Ops, LLC**

- a. 03-00-17-006
- b. SNR River Ops, LLC
- c. Ivel Prep Plant - Ivel, KY; Powdermill Processing Coal - Ft. Gay, WV; Met Electric - Toler, KY; Southbound Coal - White Oak, KY
- d. Barge
- e. 12,412
- f. 23,250
- g. \$54.95

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**DATA REQUEST**

1-03

- a. As of the last day of the review period, state the coal inventory level in tons, and in number of days' supply. Provide this information by generating station and in the aggregate.
- b. Describe the criteria used to determine number of days' supply.
- c. State the target coal inventory level for each generating station, and for the total system.
- d. If actual coal inventory exceeds the target inventory by ten days' supply, state the reasons for the excess inventory.
- e. (1) State whether any significant changes in the current coal inventory target are expected within the next 12 months.  
  
(2) If so, state the expected change, and the reasons for this change.

**RESPONSE**

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a. As of April 30, 2018 Kentucky Power's actual coal inventory levels (company share) were as follows:

Mitchell High Sulfur\*: 212,150 tons, or 55 days of supply

Mitchell Low Sulfur\*: 160,536 tons, or 42 days of supply

\*Company share

b. Days' supply is determined by dividing the Company's share of tons of coal in storage by the full load burn rate (tons per day).

For Mitchell High Sulfur,  $\frac{212,150 \text{ tons in storage as of } 4/30/2018}{3,841 \text{ (full load burn rate* - tons/day)}} = 55$  days

3,841 (full load burn rate\* – tons/day)

For Mitchell Low Sulfur,  $\frac{160,536 \text{ tons in storage as of } 4/30/2018}{3,841 \text{ (full load burn rate* - tons/day)}} = 42$  days

3,841 (full load burn rate\* – tons/day)

\*Company share

c. As of April 30, 2018,

Mitchell High Sulfur: Target Inventory Days = 15 days, Actual Inventory Days = 55 days (40 days over target)

Mitchell Low Sulfur: Target Inventory Days = 30 days, Actual Inventory Days = 42 (12 days over target)

d. High-sulfur coal inventory remains above target due to contractual supply commitments in addition to lower than forecasted consumption. Low-sulfur coal inventory is above target due to lower than forecasted consumption.

e. (1) No. Kentucky Power does not expect any significant changes in the coal inventory target for the Mitchell plant within the next 12 months.

e. (2) Not Applicable.

Witness: Clinton M. Stutler

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**DATA REQUEST**

1-04 List each written coal-supply solicitation issued during the period under review.

a. For each solicitation, provide the date of the solicitation, the type of solicitation (contract or spot), the quantities solicited, a general description of the quality of coal solicited, the time period over which deliveries were requested, and the generating unit(s) for which the coal was intended.

b. For each solicitation, state the number of vendors to whom the solicitation was sent, the number of vendors who responded, and the selected vendor.

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

**RESPONSE**

a. and b. Please refer to [KPCO\\_R\\_KPSC\\_1\\_04\\_Attachment 1.pdf](#) for information concerning the Company's two written coal-supply solicitations.

Please also refer to [KPCO\\_R\\_KPSC\\_1\\_04\\_Confidential\\_Attachment2.pdf](#) for information relating to the offering vendors, analyses, and ranked proposals for the November 27, 2017 solicitation.

Additionally, refer to [KPCO\\_R\\_KPSC\\_1\\_04\\_Confidential\\_Attachment3.pdf](#) and [KPCO\\_R\\_KPSC\\_1\\_04\\_Confidential\\_Attachment4.pdf](#) for information relating to the offering vendors, analyses, and ranked proposals for the April 2, 2018 solicitation.

Witness: Clinton M. Stutler



<b>Date of Solicitation</b>	November 27, 2017
<b>Quantities Solicited</b>	Q1-Q2 2018 - 400,000 tons
<b>Type of Solicitation</b>	Spot
<b>Coal Heat Content (BTU/lb)</b>	12,000
<b>Moisture (%)</b>	10.00%
<b>Ash (%)</b>	12.00%
<b>Sulfur (%)</b>	1.00
<b>Time Period Over Which Deliveries Were Requested</b>	Q1-Q2 2018
<b>Applicable Generating Units</b>	Mitchell Plant
<b>Number of Vendors Solicitation was Sent To</b>	52
<b>Number of Vendors that Responded to Solicitation</b>	10
<b>Selected Vendor(s)</b>	SNR River Ops, LLC Coal Network, LLC

<b>Date of Solicitation</b>	April 2, 2018
<b>Quantities Solicited</b>	Q3-Q4 2018 - 360,000 tons CY 2019 - 1,500,000 tons
<b>Type of Solicitation</b>	Spot
<b>Coal Heat Content (BTU/lb)</b>	12,000
<b>Moisture (%)</b>	10.00%
<b>Ash (%)</b>	12.00%
<b>Sulfur (%)</b>	1.00
<b>Time Period Over Which Deliveries Were Requested</b>	Q3 - Q4 2018, Calendar Year 2019
<b>Applicable Generating Units</b>	Mitchell Plant
<b>Number of Vendors Solicitation was Sent To</b>	52
<b>Number of Vendors that Responded to Solicitation</b>	Q3-Q4 2018: 8 CY 2019: 10
<b>Selected Vendor(s)</b>	Q3-Q4 2018: Alpha Coal Sales, LLC CY 2019: Alpha Coal Sales, LLC

**NYMEX Barge RFP Offers / December 4th, 2017 / Mitchell Plant**

Offer / Plant / Year	Quantity		Coal Price		Transportation			Offered Quality				Actual Quality				Quality Adjusted Delivered Pricing		
	Tons	BTU	Coal Price	River	Mile Post	Rate	Btu	lbs. SO <sub>2</sub>	Sulfur %	Ash %	Btu	lbs. SO <sub>2</sub>	Sulfur %	Ash %	Quality Adj.	Quality Adjusted Delivered Cost	Delivered \$/MMBTU	
Mitchell Plant 2018 (Q1 - Q2)																		
SNR River Ops, LLC	93,000	2,220,840	\$54.95	Big Sandy	6.0	\$4.500	12,000	1.67	1.00	10.00	11,940	1.59	0.95	10.00	\$62.077	\$2.5995		
Coal Network, LLC	115,200	2,764,800	\$55.05	Big Sandy	7.7	\$4.500	12,000	1.67	1.00	12.00	12,000	1.67	1.00	12.00	\$62.613	\$2.6089		

<sup>1</sup> Offer was rescinded (could not meet quality requirement)

<b>Mitchell Plant</b>	
FGD Removal Efficiency	97.36%
SO <sub>2</sub> Allowance Cost	\$2.50
Removal Cost \$/Ton	\$156.90



**NYMEX Barge RFP Offers / April 9th, 2018 / Mitchell Plant**

Offer / Plant / Year	Quantity		Coal Price		Transportation		Offered Quality				Actual Quality				Quality Adjusted Delivered Pricing		
	Tons	BTU	Coal Price	River / Rail	MP / District	Rate	Btu	lbs. SO <sub>2</sub>	Sulfur %	Ash %	Btu	lbs. SO <sub>2</sub>	Sulfur %	Ash %	Quality Adj.	Quality Adjusted Delivered Cost	Delivered \$/MMBTU
Mitchell Plant 2019																	
Alpha Coal Sales Co., LLC	1,500,000	36,354,000	\$53.00	Kanawha	69.0 - 84.4	\$6.495	12,000	1.67	1.00	12.00	12,118	1.40	0.85	12.00	\$2.841	\$62.336	\$2.5720
<b>Mitchell Plant</b>																	
FGD Removal Efficiency																	97.80%
SO <sub>2</sub> Allowance Cost																	\$2.50
Removal Cost \$/Ton																	\$139.75

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**DATA REQUEST**

1-05 List each oral coal-supply solicitation issued during the period under review.

a. For each solicitation , state why the solicitation was not written, the date(s) of the solicitation, the quantities solicited, a general description of the quality of coal solicited, the time period over which deliveries were requested, and the generating unit(s) for which the coal was intended.

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

**RESPONSE**

There were no oral coal-supply solicitations during the period under review.

Witness: Clinton M. Stutler

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**DATA REQUEST**

1-06                      For the period under review, list each vendor from whom natural gas was purchased for generation and the quantities and the nature of each purchase (i.e., spot or contract).

**RESPONSE**

Please see KPCO\_R\_KPSC\_1\_06\_Attachment1.pdf for the requested information.

Witness:              Amy E. Jeffries

<b>Counterparty</b>	<b>Type of Purchase</b>	<b>Gross MMBTUs</b>
BIOURJA	Spot	547,800
CONCORD	Spot	5,000
DTE Energy	Spot	16,200
EDF	Spot	45,000
IGS	Spot	364,200
Macquarie	Spot	417,200
Mercuria	Spot	17,800
NextEra	Spot	169,100
NJR Energy	Spot	5,000
RangeApp	Spot	12,300
Sequent	Spot	167,000
SPOTLIGHT	Spot	192,000
Tenaska	Spot	184,566
TEXLA	Spot	72,000
VITOL	Spot	28,800

<b>Grand Total</b>	<b>2,243,966</b>
Total Contract	0%
Total Spot	87%

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**DATA REQUEST**

1-07                      For the period under review, state if there were any instances in which a natural gas generating unit could not be operated when it otherwise would have run, due to pipeline constraints or natural gas being unavailable.

**RESPONSE**

Kentucky Power Company did not encounter any instances in which a natural gas generating unit could not be operated when it otherwise would have run, due to pipeline constraints or natural gas being unavailable, during the period under review.

Witness:              Amy E. Jeffries



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**DATA REQUEST**

1-08                      State if there have been any changes to hedging activities for coal or natural gas purchases used for generation since the previous FAC review proceeding.

                                 If so, describe the changes in detail.

**RESPONSE**

There have been no changes to hedging activities for coal or natural gas purchases since the prior FAC review proceeding.

Witness:                Clinton M. Stutler  
                                 Amy E. Jeffries

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**DATA REQUEST**

1-09

- a. State whether Kentucky Power has audited any of its fuel or transportation contracts during the period under review.
- b. If so, for each audited contract:
  - (1) Identify the contract;
  - (2) Identify the auditor; and
  - (3) State the results of the audit and describe the actions that Kentucky Power took as a result of the audit.

**RESPONSE**

Kentucky Power did not audit any fuel or transportation contracts during the review period.

Witness:        Clinton M. Stutler  
                     Amy E. Jeffries

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**DATA REQUEST**

- 1-10
- a. State whether Kentucky Power is currently involved in any litigation with its current or former fuel suppliers or transportation vendors.
  - b. If yes, for each litigation:
    - (1) Identify the supplier or vendor;
    - (2) Identify the contract involved;
    - (3) State the potential liability or recovery to Kentucky Power;
    - (4) List the issues presented; and
    - (5) Provide a copy of the complaint or other legal pleading that initiated the litigation and any answers or counterclaims. If a copy has previously been filed with the Commission, provide the date on which it was filed and the case in which it was filed.

**RESPONSE**

Kentucky Power is not involved with any litigation with current or former fuel suppliers or transportation vendors.

Witness:           Clinton M. Stutler  
                          Amy E. Jeffries

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**DATA REQUEST**

- 1-11
- a. For the period under review, state if there have been any changes to Kentucky Power's written policies and procedures regarding its fuel procurement.
- b. If yes:
- (1) Describe the changes;
  - (2) Provide the written policies and procedures as changed;
  - (3) State the date(s) the changes were made; and
  - (4) Explain why the changes were made.
- c. If no, provide the date Kentucky Power's current fuel procurement policies and procedures were last changed, when they were last provided to the Commission, and identify the proceeding in which they were provided.

**RESPONSE**

There have been no changes during the review period to Kentucky Power's written policies and procedures regarding its fuel procurement. The current fuel procurement policy was last modified on August 31, 2015 and provided to the Commission in Case No. 2016-00230 on August 26, 2016.

Witness:           Clinton M. Stutler  
                          Amy E. Jeffries

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**DATA REQUEST**

1-12 For the period under review, list all firm power commitments for (a) purchases and (b) sales. This list shall identify the electric utility, the amount of commitment in MW, and the purpose of the commitment (i.e., peaking, emergency).

**RESPONSE**

(a) Firm power purchases for Kentucky Power for the period from November 1, 2017 through April 30, 2018:

AEP Generating Company (Unit Power Agreement - Rockport Plant Base Load) - 393 MW

(b) Firm power sales: Commitments for Kentucky Power Company, other than retail jurisdictional customers, are the Cities of Olive Hill and Vanceburg, Kentucky as shown below. The numbers listed below represent the customer's peak load during the review period from November 1, 2017 to April 30, 2018. The cities use the power for load-following service to their citizens.

City of Olive Hill 6.2 MW

City of Vanceburg 14.6 MW

Witness: Matthew A. Horeled

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**DATA REQUEST**

1-13                      Provide a monthly billing summary of sales to all electric utilities for the period under review.

**RESPONSE**

Please refer to KPCO\_R\_KPSC\_1\_13\_Attachment1.pdf for the requested information.

Witness:              Matthew A. Horeled

<b>Tracking Code</b>	<b>Description</b>
ADPR2	Advan Promotions, Inc.
AECI2	Allegheny Electric Cooperative, Inc
AMCP2	Central Illinois Light Company dba AmerenCILCO, Central Illinois Public
AMRX2	Amerex Power, Ltd
APBE2	ICAP Energy LLC
BANG2	Village of Bangor, Wisconsin
BARR2	City of Barron, Wisconsin
BGCF2	BGC Financial LP
BLOO2	City of Bloomer, Wisconsin
CADO2	Village of Cadott, Wisconsin
CECA2	Commonwealth Edison Co Auctio2
CISO	California ISO
CORN2	City of Cornell, Wisconsin
CPX	California Power Exchange
DEOI2	Duke Energy Ohio, Inc.
DLPM	Duquesne Light Company
DPLG	The Dayton Power and Light Co.
DTET	DTE Energy Trading Inc.
EOXH2	EOH Holdings, LLC
EVOF2	Evolution Markets Futures, LLC
EVOL2	Evolution Markets Inc.
GFIS2	GFI Securities LLC
ICET2	ICE Trade Vault LLC
IDTE2	IDT Energy, Inc
IVGE2	IVG Energy, LTD
MEDF2	City of Medford
MISO	Midwest ISO
MRETS	Midwest Renewable Energy
MSUI2	Mizuho Securities USA Inc.
NASIA	Systems Integration Agreement
OHPA2	Ohio Power Company (Auction)
PJM	PJM Interconnection
PJME2	PJM Environmental Info Sys Inc
PREE2	Tullett Prebon Americas Corp.
RBCC2	RBC Capital Market, LLC
RICE2	City of Rice Lake Utilities
SPOO2	City of Spooner, Wisconsin
SPSR2	Marex Spectron
SUMF2	Summit Farms Solar LLC
TFS2	TFS Energy

<b>Tracking Code</b>	<b>Description</b>
TFSF2	TFS Energy Futures, LLC
TIMB2	Timber Canyon
TOHI2	Town of Hagerstown Indiana
TRED2	Trident Brokerage Services LLC
TREM2	Village of Trempealeau, Wisconsin
TVAM	TVA Bulk Power Trading
UGIU2	UGI Utilities, Inc.
WAKE2	City of Wakefield, Michigan
WVPA	Wabash Valley Power Association, Inc.



Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
11	2017	117		OHPA2	4470001	378,193.97	7,494,013.18
					<b>4470001 Total</b>	378,193.97	
11	2017	117		PJM	4470006	(173.75)	0.00
11	2017	117	NEQT	DEOI2	4470006	126,091.88	2,576,000.00
11	2017	117	PBAS	CISO	4470006	0.00	0.00
11	2017	117	PHRT	APBE2	4470006	0.00	0.00
11	2017	117	PHRT	IVGE2	4470006	(52.17)	0.00
11	2017	117	PHRT	PREE2	4470006	(23.54)	0.00
11	2017	117	PICT	AMRX2	4470006	(68.55)	0.00
11	2017	117	PICT	APBE2	4470006	(263.29)	0.00
11	2017	117	PICT	BGCF2	4470006	(100.03)	0.00
11	2017	117	PICT	DEOI2	4470006	53,693.04	1,145,000.00
11	2017	117	PICT	DPLG	4470006	56,380.49	1,097,000.00
11	2017	117	PICT	EVOF2	4470006	(17.36)	0.00
11	2017	117	PICT	IVGE2	4470006	(77.28)	0.00
11	2017	117	PICT	PREE2	4470006	(262.31)	0.00
11	2017	117	PICT	TFSF2	4470006	(130.20)	0.00
11	2017	117	PSHD	AMRX2	4470006	(17.85)	0.00
11	2017	117	PSHD	APBE2	4470006	(56.12)	0.00
11	2017	117	PSHD	BGCF2	4470006	0.00	0.00
11	2017	117	PSHD	DLPM	4470006	185,408.37	3,539,000.00
11	2017	117	PSHD	EVOF2	4470006	0.00	0.00
11	2017	117	PSHD	IVGE2	4470006	(160.05)	0.00
11	2017	117	PSHD	PREE2	4470006	(105.13)	0.00
11	2017	117	PSHD	SPSR2	4470006	(6.59)	0.00
11	2017	117	PSHD	TFSF2	4470006	0.00	0.00
					<b>4470006 Total</b>	420,059.56	
11	2017	117		ICET2	4470010	147.63	0.00
11	2017	117		PJM	4470010	(0.17)	0.00
11	2017	117		PJM	4470010	(48,115.97)	(1,076,621.00)
11	2017	117		PJM	4470010	(171,956.24)	(3,768,903.00)
11	2017	117		PJM	4470010	(157,026.65)	(3,114,368.00)
11	2017	117		PJM	4470010	(16,984.54)	(366,874.00)
11	2017	117		PJM	4470010	(0.55)	0.00
11	2017	117		PJM	4470010	(747.10)	0.00
11	2017	117		PJM	4470010	(5.95)	0.00
11	2017	117	AEPSC-EAST	ICET2	4470010	(476.89)	0.00
11	2017	117	PHRT	APBE2	4470010	0.00	0.00
11	2017	117	PHRT	EVOF2	4470010	(11.77)	0.00
11	2017	117	PHRT	ICET2	4470010	(45.01)	0.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
11	2017	117	PHRT	IVGE2	4470010	(52.17)	0.00
11	2017	117	PHRT	SPSR2	4470010	0.00	0.00
11	2017	117	PICT	AMRX2	4470010	(228.41)	0.00
11	2017	117	PICT	APBE2	4470010	(211.98)	0.00
11	2017	117	PICT	BGCF2	4470010	(134.56)	0.00
11	2017	117	PICT	EVOF2	4470010	(36.36)	0.00
11	2017	117	PICT	IVGE2	4470010	(36.48)	0.00
11	2017	117	PICT	PREE2	4470010	(97.09)	0.00
11	2017	117	PICT	TFSF2	4470010	(58.65)	0.00
11	2017	117	PSHD	AMRX2	4470010	(83.46)	0.00
11	2017	117	PSHD	APBE2	4470010	(22.67)	0.00
11	2017	117	PSHD	BGCF2	4470010	0.00	0.00
11	2017	117	PSHD	EVOF2	4470010	0.00	0.00
11	2017	117	PSHD	ICET2	4470010	(18.39)	0.00
11	2017	117	PSHD	IVGE2	4470010	(143.57)	0.00
11	2017	117	PSHD	PREE2	4470010	(126.90)	0.00
					<b>4470010 Total</b>	(396,473.90)	
11	2017	117	KBRA	RBCC2	4470081	252.64	0.00
11	2017	117	KSHD	RBCC2	4470081	(1,613.01)	0.00
					<b>4470081 Total</b>	(1,360.37)	
11	2017	117	PHRT	MSUI2	4470082	(161.44)	0.00
11	2017	117	PHRT	RBCC2	4470082	(5,884.38)	0.00
11	2017	117	PICT	MSUI2	4470082	(19,493.91)	0.00
11	2017	117	PICT	RBCC2	4470082	(4,923.76)	0.00
11	2017	117	PSHD	MSUI2	4470082	(8,103.89)	0.00
11	2017	117	PSHD	RBCC2	4470082	(6,917.08)	0.00
					<b>4470082 Total</b>	(45,484.46)	
11	2017	117		PJM	4470089	858,346.74	0.00
					<b>4470089 Total</b>	858,346.74	
11	2017	117		PJM	4470098	389.92	0.00
11	2017	117		PJM	4470098	(8,467.85)	0.00
					<b>4470098 Total</b>	(8,077.93)	
11	2017	117		PJM	4470099	79,081.20	0.00
11	2017	117		PJM	4470099	60,626.19	0.00
					<b>4470099 Total</b>	139,707.39	
11	2017	117		PJM	4470100	(8,672.28)	0.00
					<b>4470100 Total</b>	(8,672.28)	
11	2017	117		PJM	4470103	3,163,447.67	117,552,222.00
					<b>4470103 Total</b>	3,163,447.67	
11	2017	117		PJM	4470107	(0.34)	0.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
					<b>4470107 Total</b>	(0.34)	
11	2017	117		PJM	4470110	(0.01)	0.00
					<b>4470110 Total</b>	(0.01)	
11	2017	117	PHHS	DPLG	4470112	135,775.00	2,639,000.00
					<b>4470112 Total</b>	135,775.00	
11	2017	117		PJM	4470115	(7,401.01)	0.00
					<b>4470115 Total</b>	(7,401.01)	
11	2017	117		PJM	4470126	35,061.62	0.00
11	2017	117		PJM	4470126	13,550.37	0.00
					<b>4470126 Total</b>	48,611.99	
11	2017	117		PJM	4470131	5.21	0.00
11	2017	117		PJM	4470131	(115,593.90)	(2,590,613.00)
11	2017	117		PJM	4470131	(347,038.16)	(7,862,584.00)
					<b>4470131 Total</b>	(462,626.85)	
11	2017	117	PHHS	AMRX2	4470143	(625.33)	0.00
11	2017	117	PHHS	APBE2	4470143	(2,527.30)	0.00
11	2017	117	PHHS	ICET2	4470143	(88.94)	0.00
11	2017	117	PHHS	IVGE2	4470143	(853.30)	0.00
11	2017	117	PHHS	MSUI2	4470143	(60,977.30)	0.00
11	2017	117	PHHS	PREE2	4470143	(286.38)	0.00
11	2017	117	PHHS	RBCC2	4470143	380,522.06	0.00
					<b>4470143 Total</b>	315,163.51	
11	2017	117	Physical	NASIA	4470175	(700,572.45)	0.00
11	2017	117	Trading	NASIA	4470175	(1,708.81)	0.00
					<b>4470175 Total</b>	(702,281.26)	
11	2017	117	Physical	NASIA	4470176	700,572.45	0.00
11	2017	117	Trading	NASIA	4470176	1,708.81	0.00
					<b>4470176 Total</b>	702,281.26	
11	2017	117		PJM	4470206	19,284.34	0.00
					<b>4470206 Total</b>	19,284.34	
11	2017	117		PJM	4470209	(49,375.91)	0.00
11	2017	117		PJM	4470209	(26,450.41)	0.00
					<b>4470209 Total</b>	(75,826.32)	
11	2017	117		PJM	4470214	1,209.35	0.00
					<b>4470214 Total</b>	1,209.35	
11	2017	117		PJM	4470215	(597.49)	0.00
					<b>4470215 Total</b>	(597.49)	
11	2017	117		PJM	4470220	3,857.55	0.00
					<b>4470220 Total</b>	3,857.55	
11	2017	117		PJM	4470221	237.93	0.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
					<b>4470221 Total</b>	237.93	
11	2017	117		PJM	5550039	(895.74)	0.00
					<b>5550039 Total</b>	(895.74)	
11	2017	110		PJME2	5570007	(14.16)	(3,540.00)
11	2017	110		SUMF2	5570007	(764.95)	(196.00)
					<b>5570007 Total</b>	(779.11)	
11	2017	117		PJM	5614000	0.00	0.00
11	2017	117		PJM	5614000	(73.87)	0.00
11	2017	117		PJM	5614000	(13,287.64)	0.00
					<b>5614000 Total</b>	(13,361.51)	
11	2017	180		PJM	5614008	0.00	0.00
					<b>5614008 Total</b>	0.00	
11	2017	117		PJM	5618000	0.00	0.00
11	2017	117		PJM	5618000	(10.59)	0.00
11	2017	117		PJM	5618000	(4,834.04)	0.00
11	2017	117		PJM	5618000	(3.85)	0.00
					<b>5618000 Total</b>	(4,848.48)	
11	2017	117		PJM	5757000	0.00	0.00
11	2017	117		PJM	5757000	(803.95)	0.00
11	2017	117		PJM	5757000	(14,120.06)	0.00
11	2017	117		PJM	5757000	(188.63)	0.00
					<b>5757000 Total</b>	(15,112.64)	

**November Grand Total 4,442,376.56**

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
12	2017	117		OHPA2	4470001	84,608.91	1,675,720.62
					<b>4470001 Total</b>	84,608.91	
12	2017	117		NASIA	4470006	0.00	0.00
12	2017	117		PJM	4470006	(67,060.48)	(1,569,120.00)
12	2017	117	NEQT	DEO12	4470006	163,950.39	3,345,000.00
12	2017	117	PHRT	IVGE2	4470006	0.00	0.00
12	2017	117	PHRT	PREE2	4470006	0.00	0.00
12	2017	117	PICT	AEC12	4470006	58,842.00	1,569,120.00
12	2017	117	PICT	AMRX2	4470006	(138.18)	0.00
12	2017	117	PICT	APBE2	4470006	(596.74)	0.00
12	2017	117	PICT	BGCF2	4470006	(17.26)	0.00
12	2017	117	PICT	DEO12	4470006	69,814.13	1,487,000.00
12	2017	117	PICT	DPLG	4470006	68,205.38	1,327,000.00
12	2017	117	PICT	EVOF2	4470006	(274.13)	0.00
12	2017	117	PICT	IVGE2	4470006	(157.11)	0.00
12	2017	117	PICT	PREE2	4470006	(88.26)	0.00
12	2017	117	PICT	TF SF2	4470006	(7.85)	0.00
12	2017	117	PSHD	AMRX2	4470006	(69.43)	0.00
12	2017	117	PSHD	APBE2	4470006	(110.31)	0.00
12	2017	117	PSHD	BGCF2	4470006	(4.32)	0.00
12	2017	117	PSHD	DLPM	4470006	275,801.44	5,246,000.00
12	2017	117	PSHD	EVOF2	4470006	(18.24)	0.00
12	2017	117	PSHD	IVGE2	4470006	(65.90)	0.00
12	2017	117	PSHD	PREE2	4470006	(56.80)	0.00
12	2017	117	PSHD	SPSR2	4470006	(3.92)	0.00
12	2017	117	PSHD	TF SF2	4470006	(8.24)	0.00
					<b>4470006 Total</b>	567,936.17	
12	2017	117		ICET2	4470010	(510.51)	0.00
12	2017	117		PJM	4470010	(64,397.56)	(1,376,953.00)
12	2017	117		PJM	4470010	(239,699.45)	(5,039,433.00)
12	2017	117		PJM	4470010	(234,322.16)	(4,575,779.00)
12	2017	117		PJM	4470010	(41,760.83)	(865,576.00)
12	2017	117		PJM	4470010	(313.50)	0.00
12	2017	117		PJM	4470010	(27.94)	0.00
12	2017	117	PBAS	CPX	4470010	(272.16)	0.00
12	2017	117	PHRT	EVOF2	4470010	0.00	0.00
12	2017	117	PHRT	ICET2	4470010	(63.26)	0.00
12	2017	117	PHRT	IVGE2	4470010	0.00	0.00
12	2017	117	PICT	AMRX2	4470010	(132.30)	0.00
12	2017	117	PICT	APBE2	4470010	(457.43)	0.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
12	2017	117	PICT	BGCF2	4470010	(18.24)	0.00
12	2017	117	PICT	EVOF2	4470010	(299.29)	0.00
12	2017	117	PICT	IVGE2	4470010	(138.87)	0.00
12	2017	117	PICT	PREE2	4470010	(51.39)	0.00
12	2017	117	PICT	TFSF2	4470010	(27.36)	0.00
12	2017	117	PSHD	AMRX2	4470010	(60.80)	0.00
12	2017	117	PSHD	APBE2	4470010	(91.05)	0.00
12	2017	117	PSHD	EVOF2	4470010	(27.85)	0.00
12	2017	117	PSHD	ICET2	4470010	(18.39)	0.00
12	2017	117	PSHD	IVGE2	4470010	(102.39)	0.00
12	2017	117	PSHD	PREE2	4470010	(6.28)	0.00
12	2017	117	PSHD	SPSR2	4470010	(8.24)	0.00
12	2017	117	PSHD	TFSF2	4470010	(13.18)	0.00
					<b>4470010 Total</b>	(582,820.43)	
12	2017	117	KBRA	RBCC2	4470081	(55.76)	0.00
12	2017	117	KSHD	RBCC2	4470081	(13,590.34)	0.00
					<b>4470081 Total</b>	(13,646.10)	
12	2017	117	PHRT	MSUI2	4470082	(22,395.19)	0.00
12	2017	117	PHRT	RBCC2	4470082	15,281.34	0.00
12	2017	117	PICT	MSUI2	4470082	89,572.19	0.00
12	2017	117	PICT	RBCC2	4470082	(25,916.50)	0.00
12	2017	117	PSHD	MSUI2	4470082	40,782.56	0.00
12	2017	117	PSHD	RBCC2	4470082	18,241.28	0.00
					<b>4470082 Total</b>	115,565.68	
12	2017	117		NASIA	4470089	0.00	0.00
12	2017	117		PJM	4470089	1,727,659.57	0.00
					<b>4470089 Total</b>	1,727,659.57	
12	2017	117		NASIA	4470098	0.00	0.00
12	2017	117		PJM	4470098	54.89	0.00
12	2017	117		PJM	4470098	(7,847.38)	0.00
					<b>4470098 Total</b>	(7,792.49)	
12	2017	117		NASIA	4470099	0.00	0.00
12	2017	117		PJM	4470099	81,717.24	0.00
12	2017	117		PJM	4470099	62,647.06	0.00
					<b>4470099 Total</b>	144,364.30	
12	2017	117		NASIA	4470100	0.00	0.00
12	2017	117		PJM	4470100	18,341.11	0.00
					<b>4470100 Total</b>	18,341.11	
12	2017	117		NASIA	4470103	0.00	0.00
12	2017	117		PJM	4470103	4,080,635.98	134,217,374.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
					<b>4470103 Total</b>	4,080,635.98	
12	2017	117		PJM	4470107	(0.26)	0.00
					<b>4470107 Total</b>	(0.26)	
12	2017	117		PJM	4470110	0.01	0.00
					<b>4470110 Total</b>	0.01	
12	2017	117		NASIA	4470112	0.00	0.00
12	2017	117	PHHS	DPLG	4470112	25,504.54	496,000.00
					<b>4470112 Total</b>	25,504.54	
12	2017	117		NASIA	4470115	0.00	0.00
12	2017	117		PJM	4470115	(8,005.11)	0.00
					<b>4470115 Total</b>	(8,005.11)	
12	2017	117		PJM	4470126	(89,465.86)	0.00
12	2017	117		PJM	4470126	(251,272.45)	0.00
					<b>4470126 Total</b>	(340,738.31)	
12	2017	117		PJM	4470131	(25,057.87)	(540,911.00)
12	2017	117		PJM	4470131	(77,098.00)	(1,682,831.00)
					<b>4470131 Total</b>	(102,155.87)	
12	2017	117	PHHS	AMRX2	4470143	(6.63)	0.00
12	2017	117	PHHS	APBE2	4470143	(519.16)	0.00
12	2017	117	PHHS	EVOF2	4470143	(14.34)	0.00
12	2017	117	PHHS	ICET2	4470143	(89.43)	0.00
12	2017	117	PHHS	IVGE2	4470143	(139.81)	0.00
12	2017	117	PHHS	MSUI2	4470143	(36,453.52)	0.00
12	2017	117	PHHS	PREE2	4470143	(52.18)	0.00
12	2017	117	PHHS	RBCC2	4470143	(28,588.93)	0.00
					<b>4470143 Total</b>	(65,864.00)	
12	2017	117	Physical	NASIA	4470175	200,357.47	0.00
12	2017	117	Trading	NASIA	4470175	13,400.29	0.00
					<b>4470175 Total</b>	213,757.76	
12	2017	117	Physical	NASIA	4470176	(200,357.47)	0.00
12	2017	117	Trading	NASIA	4470176	(13,400.29)	0.00
					<b>4470176 Total</b>	(213,757.76)	
12	2017	117		PJM	4470206	35,143.01	0.00
					<b>4470206 Total</b>	35,143.01	
12	2017	117		PJM	4470209	(68,620.23)	0.00
12	2017	117		PJM	4470209	(161,097.53)	0.00
					<b>4470209 Total</b>	(229,717.76)	
12	2017	117		PJM	4470214	141.75	0.00
					<b>4470214 Total</b>	141.75	
12	2017	117		PJM	4470215	(81.63)	0.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
					<b>4470215 Total</b>	(81.63)	
12	2017	117		PJM	4470220	58,788.18	0.00
					<b>4470220 Total</b>	58,788.18	
12	2017	117		PJM	4470221	198.34	0.00
					<b>4470221 Total</b>	198.34	
12	2017	117		PJM	5550039	(731.70)	0.00
					<b>5550039 Total</b>	(731.70)	
12	2017	110		PJME2	5570007	(12.70)	(3,175.00)
					<b>5570007 Total</b>	(12.70)	
12	2017	117		PJM	5614000	0.00	0.00
12	2017	117		PJM	5614000	(24.93)	0.00
12	2017	117		PJM	5614000	(14,505.73)	0.00
					<b>5614000 Total</b>	(14,530.66)	
12	2017	180		PJM	5614008	0.00	0.00
					<b>5614008 Total</b>	0.00	
12	2017	117		PJM	5618000	0.00	0.00
12	2017	117		PJM	5618000	(5.24)	0.00
12	2017	117		PJM	5618000	(5,281.80)	0.00
12	2017	117		PJM	5618000	(4.79)	0.00
					<b>5618000 Total</b>	(5,291.83)	
12	2017	117		PJM	5757000	(19,679.18)	0.00
12	2017	117		PJM	5757000	(448.24)	0.00
12	2017	117		PJM	5757000	(15,290.52)	0.00
12	2017	117		PJM	5757000	(234.63)	0.00
					<b>5757000 Total</b>	(35,652.57)	
					<b>December Grand Total</b>	5,451,846.13	



Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
1	2018	117		OHPA2	4470001	56,275.52	1,114,399.64
					<b>4470001 Total</b>	56,275.52	
1	2018	117		PJM	4470006	(343,093.01)	(5,374,236.00)
1	2018	117	NEQT	DEOI2	4470006	198,295.39	4,050,000.00
1	2018	117	PHRT	APBE2	4470006	(691.20)	0.00
1	2018	117	PICT	AECI2	4470006	0.00	0.00
1	2018	117	PICT	AMRX2	4470006	(101.84)	0.00
1	2018	117	PICT	APBE2	4470006	(382.93)	0.00
1	2018	117	PICT	BGCF2	4470006	(143.57)	0.00
1	2018	117	PICT	CECA2	4470006	71,285.12	1,726,032.00
1	2018	117	PICT	DEOI2	4470006	84,439.08	1,801,000.00
1	2018	117	PICT	DPLG	4470006	79,816.66	1,552,000.00
1	2018	117	PICT	EVOF2	4470006	(145.67)	0.00
1	2018	117	PICT	IVGE2	4470006	0.00	0.00
1	2018	117	PICT	PREE2	4470006	(85.57)	0.00
1	2018	117	PICT	TFSF2	4470006	(36.87)	0.00
1	2018	117	PICT	UGIU2	4470006	160,302.08	3,648,204.00
1	2018	117	PSHD	AMRX2	4470006	(32.17)	0.00
1	2018	117	PSHD	APBE2	4470006	(7.77)	0.00
1	2018	117	PSHD	BGCF2	4470006	0.00	0.00
1	2018	117	PSHD	DLPM	4470006	309,173.53	5,883,000.00
1	2018	117	PSHD	EVOF2	4470006	(22.67)	0.00
1	2018	117	PSHD	IVGE2	4470006	(112.98)	0.00
1	2018	117	PSHD	PREE2	4470006	(233.64)	0.00
1	2018	117	PSHD	SPSR2	4470006	(18.83)	0.00
1	2018	117	PSHD	TFSF2	4470006	0.00	0.00
					<b>4470006 Total</b>	558,203.14	
1	2018	117		ICET2	4470010	(651.70)	0.00
1	2018	117		PJM	4470010	(7.91)	0.00
1	2018	117		PJM	4470010	(114,305.61)	(1,517,957.00)
1	2018	117		PJM	4470010	(470,101.12)	(5,580,719.00)
1	2018	117		PJM	4470010	(418,009.66)	(4,823,142.00)
1	2018	117		PJM	4470010	(77,533.34)	(957,554.00)
1	2018	117		PJM	4470010	0.00	0.00
1	2018	117		PJM	4470010	0.00	0.00
1	2018	117	PBAS	CPX	4470010	272.16	0.00
1	2018	117	PEQT	IVGE2	4470010	(4.71)	0.00
1	2018	117	PHRT	APBE2	4470010	(664.33)	0.00
1	2018	117	PHRT	ICET2	4470010	(46.78)	0.00
1	2018	117	PICT	AMRX2	4470010	(250.84)	0.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
1	2018	117	PICT	APBE2	4470010	(364.88)	0.00
1	2018	117	PICT	BGCF2	4470010	(218.19)	0.00
1	2018	117	PICT	EVOF2	4470010	(139.40)	0.00
1	2018	117	PICT	IVGE2	4470010	(151.47)	0.00
1	2018	117	PICT	PREE2	4470010	(74.93)	0.00
1	2018	117	PICT	SPSR2	4470010	(13.03)	0.00
1	2018	117	PICT	TFSF2	4470010	(57.37)	0.00
1	2018	117	PMWE	CPX	4470010	(272.16)	0.00
1	2018	117	PSHD	AMRX2	4470010	(55.70)	0.00
1	2018	117	PSHD	APBE2	4470010	(12.08)	0.00
1	2018	117	PSHD	EVOF2	4470010	(18.99)	0.00
1	2018	117	PSHD	ICET2	4470010	(18.39)	0.00
1	2018	117	PSHD	IVGE2	4470010	(128.67)	0.00
1	2018	117	PSHD	PREE2	4470010	(105.92)	0.00
1	2018	117	PSHD	SPSR2	4470010	(10.20)	0.00
1	2018	117	PSHD	TFSF2	4470010	(7.85)	0.00
					<b>4470010 Total</b>	(1,082,953.07)	
1	2018	117	KBRA	RBCC2	4470081	167.92	0.00
1	2018	117	KSHD	RBCC2	4470081	8,118.15	0.00
					<b>4470081 Total</b>	8,286.07	
1	2018	117	PEQT	RBCC2	4470082	(8.63)	0.00
1	2018	117	PHRT	MSUI2	4470082	1,009.65	0.00
1	2018	117	PHRT	RBCC2	4470082	24,517.92	0.00
1	2018	117	PICT	MSUI2	4470082	493,967.97	0.00
1	2018	117	PICT	RBCC2	4470082	(284,100.81)	0.00
1	2018	117	PICT	WVPA	4470082	(32,494.10)	0.00
1	2018	117	PSHD	MSUI2	4470082	157,101.52	0.00
1	2018	117	PSHD	RBCC2	4470082	77,730.35	0.00
					<b>4470082 Total</b>	437,723.87	
1	2018	117		PJM	4470089	3,485,110.97	0.00
					<b>4470089 Total</b>	3,485,110.97	
1	2018	117		PJM	4470098	332.56	0.00
1	2018	117		PJM	4470098	(52,654.93)	0.00
					<b>4470098 Total</b>	(52,322.37)	
1	2018	117		PJM	4470099	81,717.24	0.00
1	2018	117		PJM	4470099	62,647.06	0.00
					<b>4470099 Total</b>	144,364.30	
1	2018	117		PJM	4470100	225,595.99	0.00
					<b>4470100 Total</b>	225,595.99	
1	2018	117		PJM	4470103	5,869,947.52	104,553,578.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
					<b>4470103 Total</b>	5,869,947.52	
1	2018	117		PJM	4470107	(0.27)	0.00
					<b>4470107 Total</b>	(0.27)	
1	2018	117		PJM	4470110	0.02	0.00
					<b>4470110 Total</b>	0.02	
1	2018	117	PHHS	DPLG	4470112	18,608.70	362,000.00
					<b>4470112 Total</b>	18,608.70	
1	2018	117		PJM	4470115	(11,212.82)	0.00
					<b>4470115 Total</b>	(11,212.82)	
1	2018	117		PJM	4470126	(1,135,765.80)	0.00
1	2018	117		PJM	4470126	(733,190.69)	0.00
					<b>4470126 Total</b>	(1,868,956.49)	
1	2018	117		PJM	4470131	31.32	0.00
1	2018	117		PJM	4470131	(26,212.82)	(348,412.00)
1	2018	117		PJM	4470131	(75,950.99)	(1,087,370.00)
					<b>4470131 Total</b>	(102,132.49)	
1	2018	117	PHHS	AMRX2	4470143	(13.59)	0.00
1	2018	117	PHHS	APBE2	4470143	(78.91)	0.00
1	2018	117	PHHS	EVOF2	4470143	0.00	0.00
1	2018	117	PHHS	ICET2	4470143	(13.72)	0.00
1	2018	117	PHHS	IVGE2	4470143	(209.47)	0.00
1	2018	117	PHHS	MSUI2	4470143	(23,596.16)	0.00
1	2018	117	PHHS	PREE2	4470143	(2.39)	0.00
1	2018	117	PHHS	RBCC2	4470143	(467,054.27)	0.00
					<b>4470143 Total</b>	(490,968.51)	
1	2018	117			4470171	41,999.92	0.00
					<b>4470171 Total</b>	41,999.92	
1	2018	117	Physical	NASIA	4470175	(541,499.94)	0.00
1	2018	117	Trading	NASIA	4470175	14,491.81	0.00
					<b>4470175 Total</b>	(527,008.13)	
1	2018	117	Physical	NASIA	4470176	541,499.94	0.00
1	2018	117	Trading	NASIA	4470176	(14,491.81)	0.00
					<b>4470176 Total</b>	527,008.13	
1	2018	117		PJM	4470206	82,720.74	0.00
					<b>4470206 Total</b>	82,720.74	
1	2018	117		PJM	4470209	(266,579.26)	0.00
1	2018	117		PJM	4470209	(183,569.35)	0.00
					<b>4470209 Total</b>	(450,148.61)	
1	2018	117		PJM	4470214	59.33	0.00
					<b>4470214 Total</b>	59.33	

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
1	2018	117		PJM	4470215	(38.39)	0.00
					<b>4470215 Total</b>	(38.39)	
1	2018	117		PJM	4470220	23,312.03	0.00
					<b>4470220 Total</b>	23,312.03	
1	2018	117		PJM	4470221	2,704.39	0.00
					<b>4470221 Total</b>	2,704.39	
1	2018	117		PJM	5550039	(6,227.90)	0.00
					<b>5550039 Total</b>	(6,227.90)	
1	2018	110		MRETS	5570007	(215.75)	0.00
1	2018	110		PJME2	5570007	(13.88)	(3,470.00)
					<b>5570007 Total</b>	(229.63)	
1	2018	117		PJM	5614000	0.00	0.00
1	2018	117		PJM	5614000	(72.45)	0.00
1	2018	117		PJM	5614000	(17,622.03)	0.00
					<b>5614000 Total</b>	(17,694.48)	
1	2018	180		PJM	5614008	0.00	0.00
					<b>5614008 Total</b>	0.00	
1	2018	117		PJM	5618000	0.00	0.00
1	2018	117		PJM	5618000	(10.77)	0.00
1	2018	117		PJM	5618000	(10,007.38)	0.00
1	2018	117		PJM	5618000	(8.36)	0.00
					<b>5618000 Total</b>	(10,026.51)	
1	2018	117		PJM	5757000	0.00	0.00
1	2018	117		PJM	5757000	(804.35)	0.00
1	2018	117		PJM	5757000	(16,661.77)	0.00
1	2018	117		PJM	5757000	(270.26)	0.00
					<b>5757000 Total</b>	(17,736.38)	
<b>January Grand Total</b>						6,844,264.59	

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
2	2018	117		OHPA2	4470001	11,657.10	230,965.78
					<b>4470001 Total</b>	11,657.10	
2	2018	117		PJM	4470006	(42,204.17)	(1,569,120.00)
2	2018	117	NEQT	DEOI2	4470006	157,448.83	3,216,000.00
2	2018	117	PEQT	PREE2	4470006	(85.91)	0.00
2	2018	117	PHHS	DLPM	4470006	0.00	0.00
2	2018	117	PHRT	APBE2	4470006	0.00	0.00
2	2018	117	PHRT	IVGE2	4470006	(9.59)	0.00
2	2018	117	PICT	AMRX2	4470006	(256.74)	0.00
2	2018	117	PICT	APBE2	4470006	(732.62)	0.00
2	2018	117	PICT	BGCF2	4470006	(258.26)	0.00
2	2018	117	PICT	CECA2	4470006	64,804.66	1,569,120.00
2	2018	117	PICT	DEOI2	4470006	67,045.61	1,429,000.00
2	2018	117	PICT	DPLG	4470006	58,865.02	1,145,000.00
2	2018	117	PICT	EVOF2	4470006	(101.80)	0.00
2	2018	117	PICT	IVGE2	4470006	(158.38)	0.00
2	2018	117	PICT	PREE2	4470006	(548.06)	0.00
2	2018	117	PICT	TFSF2	4470006	(120.03)	0.00
2	2018	117	PICT	UGIU2	4470006	0.00	0.00
2	2018	117	PSHD	AMRX2	4470006	(39.31)	0.00
2	2018	117	PSHD	APBE2	4470006	(48.83)	0.00
2	2018	117	PSHD	DLPM	4470006	(18,120.19)	56,000.00
2	2018	117	PSHD	EVOF2	4470006	(100.52)	0.00
2	2018	117	PSHD	IVGE2	4470006	(99.98)	0.00
2	2018	117	PSHD	PREE2	4470006	(212.76)	0.00
2	2018	117	PSHD	SPSR2	4470006	0.00	0.00
2	2018	117	PSHD	TFSF2	4470006	(156.81)	0.00
					<b>4470006 Total</b>	284,910.16	
2	2018	117		ICET2	4470010	(697.65)	0.00
2	2018	117		PJM	4470010	(46,670.88)	(1,149,776.00)
2	2018	117		PJM	4470010	(184,435.52)	(4,684,572.00)
2	2018	117		PJM	4470010	3,975.33	(5,751.00)
2	2018	117		PJM	4470010	212.54	(209.00)
2	2018	117		PJM	4470010	(6.73)	0.00
2	2018	117	PEQT	IVGE2	4470010	0.00	0.00
2	2018	117	PHRT	APBE2	4470010	(4.71)	0.00
2	2018	117	PHRT	ICET2	4470010	(60.90)	0.00
2	2018	117	PHRT	IVGE2	4470010	(9.59)	0.00
2	2018	117	PICT	AMRX2	4470010	(259.38)	0.00
2	2018	117	PICT	APBE2	4470010	(843.11)	0.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
2	2018	117	PICT	BGCF2	4470010	(232.15)	0.00
2	2018	117	PICT	EVOF2	4470010	(248.36)	0.00
2	2018	117	PICT	ICET2	4470010	(18.39)	0.00
2	2018	117	PICT	IVGE2	4470010	(243.85)	0.00
2	2018	117	PICT	PREE2	4470010	(244.00)	0.00
2	2018	117	PICT	SPSR2	4470010	0.00	0.00
2	2018	117	PICT	TFSF2	4470010	(28.64)	0.00
2	2018	117	PSHD	AMRX2	4470010	(47.94)	0.00
2	2018	117	PSHD	APBE2	4470010	(19.61)	0.00
2	2018	117	PSHD	EVOF2	4470010	(74.63)	0.00
2	2018	117	PSHD	IVGE2	4470010	(104.25)	0.00
2	2018	117	PSHD	PREE2	4470010	(17.26)	0.00
2	2018	117	PSHD	SPSR2	4470010	0.00	0.00
2	2018	117	PSHD	TFSF2	4470010	0.00	0.00
					<b>4470010 Total</b>	(230,079.68)	
2	2018	117	KBRA	RBCC2	4470081	(877.96)	0.00
2	2018	117	KSHD	RBCC2	4470081	(19,364.80)	0.00
					<b>4470081 Total</b>	(20,242.76)	
2	2018	117	PEQT	MSUI2	4470082	(235.94)	0.00
2	2018	117	PEQT	RBCC2	4470082	(38,145.76)	0.00
2	2018	117	PHRT	RBCC2	4470082	(53,357.38)	0.00
2	2018	117	PICT	MSUI2	4470082	(142,578.49)	0.00
2	2018	117	PICT	RBCC2	4470082	60,064.30	0.00
2	2018	117	PICT	WVPA	4470082	5,843.06	0.00
2	2018	117	PSHD	MSUI2	4470082	(202,482.10)	0.00
2	2018	117	PSHD	RBCC2	4470082	136,229.49	0.00
					<b>4470082 Total</b>	(234,662.82)	
2	2018	117		PJM	4470089	802.22	0.00
					<b>4470089 Total</b>	802.22	
2	2018	117		PJM	4470098	(7.56)	0.00
2	2018	117		PJM	4470098	(3,164.55)	0.00
					<b>4470098 Total</b>	(3,172.11)	
2	2018	117		PJM	4470099	73,809.12	0.00
2	2018	117		PJM	4470099	56,584.45	0.00
					<b>4470099 Total</b>	130,393.57	
2	2018	117		PJM	4470100	(14,682.75)	0.00
					<b>4470100 Total</b>	(14,682.75)	
2	2018	117		PJM	4470103	755,950.73	27,533,938.00
					<b>4470103 Total</b>	755,950.73	
2	2018	117		PJM	4470107	0.69	0.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
					<b>4470107 Total</b>	0.69	
2	2018	117		PJM	4470110	(0.01)	0.00
					<b>4470110 Total</b>	(0.01)	
2	2018	117	PHHS	DLPM	4470112	31,418.80	549,000.00
2	2018	117	PHHS	DPLG	4470112	3,660.21	71,000.00
					<b>4470112 Total</b>	35,079.01	
2	2018	117		PJM	4470115	58,543.15	0.00
					<b>4470115 Total</b>	58,543.15	
2	2018	117		PJM	4470126	(31,372.95)	0.00
2	2018	117		PJM	4470126	93,796.63	0.00
					<b>4470126 Total</b>	62,423.68	
2	2018	117		PJM	4470131	0.28	0.00
2	2018	117		PJM	4470131	(20,882.65)	(445,773.00)
2	2018	117		PJM	4470131	(4,258.93)	(100,365.00)
2	2018	117		PJM	4470131	(2,876.95)	(70,988.00)
2	2018	117		PJM	4470131	(9,462.59)	(228,458.00)
					<b>4470131 Total</b>	(37,480.84)	
2	2018	117	SHHS	RBCC2	4470143	(42.13)	0.00
2	2018	117	PHHS	AMRX2	4470143	(12.32)	0.00
2	2018	117	PHHS	APBE2	4470143	(43.82)	0.00
2	2018	117	PHHS	ICET2	4470143	(8.44)	0.00
2	2018	117	PHHS	IVGE2	4470143	(24.90)	0.00
2	2018	117	PHHS	MSUI2	4470143	6,565.96	0.00
2	2018	117	PHHS	PREE2	4470143	0.00	0.00
2	2018	117	PHHS	RBCC2	4470143	59,659.00	0.00
					<b>4470143 Total</b>	66,093.35	
2	2018	117			4470171	316,270.16	0.00
					<b>4470171 Total</b>	316,270.16	
2	2018	117	Physical	NASIA	4470175	(2,050,568.90)	0.00
2	2018	117	Trading	NASIA	4470175	1,104,130.22	0.00
					<b>4470175 Total</b>	(946,438.68)	
2	2018	117	Physical	NASIA	4470176	2,050,568.90	0.00
2	2018	117	Trading	NASIA	4470176	(1,104,130.22)	0.00
					<b>4470176 Total</b>	946,438.68	
2	2018	117		PJM	4470206	1,981.32	0.00
					<b>4470206 Total</b>	1,981.32	
2	2018	117		PJM	4470209	(11,486.06)	0.00
2	2018	117		PJM	4470209	5,284.15	0.00
					<b>4470209 Total</b>	(6,201.91)	
2	2018	117		PJM	4470214	19.66	0.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
					<b>4470214 Total</b>	19.66	
2	2018	117		PJM	4470215	(9.23)	0.00
					<b>4470215 Total</b>	(9.23)	
2	2018	117		PJM	4470220	19,004.21	0.00
					<b>4470220 Total</b>	19,004.21	
2	2018	117		PJM	4470221	74.64	0.00
					<b>4470221 Total</b>	74.64	
2	2018	117		PJM	5550039	(70.52)	0.00
					<b>5550039 Total</b>	(70.52)	
2	2018	110		PJME2	5570007	(21.68)	(5,420.00)
					<b>5570007 Total</b>	(21.68)	
2	2018	117		PJM	5614000	0.00	0.00
2	2018	117		PJM	5614000	(2.79)	0.00
2	2018	117		PJM	5614000	(4,750.80)	0.00
					<b>5614000 Total</b>	(4,753.59)	
2	2018	180		PJM	5614008	0.00	0.00
					<b>5614008 Total</b>	0.00	
2	2018	117		PJM	5618000	0.00	0.00
2	2018	117		PJM	5618000	(0.60)	0.00
2	2018	117		PJM	5618000	(1,481.09)	0.00
2	2018	117		PJM	5618000	(7.54)	0.00
					<b>5618000 Total</b>	(1,489.23)	
2	2018	117		PJM	5757000	0.00	0.00
2	2018	117		PJM	5757000	(50.40)	0.00
2	2018	117		PJM	5757000	(3,654.74)	0.00
2	2018	117		PJM	5757000	(243.82)	0.00
					<b>5757000 Total</b>	(3,948.96)	
					<b>February Grand Total</b>	1,186,387.56	



Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
3	2018	117		OHPA2	4470001	0.85	0.00
					<b>4470001 Total</b>	0.85	
3	2018	117		PJM	4470006	4,006.12	112,584.00
3	2018	117	NEQT	DEOI2	4470006	171,699.71	3,507,000.00
3	2018	117	PEQT	PREE2	4470006	0.00	0.00
3	2018	117	PHHS	DLPM	4470006	0.00	0.00
3	2018	117	PHRT	IVGE2	4470006	(3.92)	0.00
3	2018	117	PICT	AMRX2	4470006	(315.42)	0.00
3	2018	117	PICT	APBE2	4470006	(599.59)	0.00
3	2018	117	PICT	BGCF2	4470006	(276.12)	0.00
3	2018	117	PICT	CECA2	4470006	0.00	0.00
3	2018	117	PICT	DEOI2	4470006	73,113.99	1,558,000.00
3	2018	117	PICT	DPLG	4470006	63,741.69	1,240,000.00
3	2018	117	PICT	EVOF2	4470006	(437.59)	0.00
3	2018	117	PICT	IVGE2	4470006	(133.38)	0.00
3	2018	117	PICT	PREE2	4470006	(1,550.71)	0.00
3	2018	117	PICT	SPSR2	4470006	(1.49)	0.00
3	2018	117	PICT	TFSF2	4470006	(75.61)	0.00
3	2018	117	PICT	TRED2	4470006	(51.00)	0.00
3	2018	117	PSHD	AMRX2	4470006	(93.99)	0.00
3	2018	117	PSHD	APBE2	4470006	(10.98)	0.00
3	2018	117	PSHD	DLPM	4470006	3,541.89	0.00
3	2018	117	PSHD	EVOF2	4470006	(73.87)	0.00
3	2018	117	PSHD	IVGE2	4470006	(70.61)	0.00
3	2018	117	PSHD	PREE2	4470006	(50.84)	0.00
3	2018	117	PSHD	SPSR2	4470006	(14.32)	0.00
3	2018	117	PSHD	TFSF2	4470006	0.00	0.00
					<b>4470006 Total</b>	312,343.96	
3	2018	117		ICET2	4470010	(760.41)	0.00
3	2018	117		PJM	4470010	(26.01)	0.00
3	2018	117		PJM	4470010	(58,643.91)	(1,213,947.00)
3	2018	117		PJM	4470010	(248,614.91)	(4,936,384.00)
3	2018	117		PJM	4470010	24,873.71	(40,827.00)
3	2018	117		PJM	4470010	1,198.00	(1,480.00)
3	2018	117		PJM	4470010	(1.17)	0.00
3	2018	117		PJM	4470010	(16.92)	0.00
3	2018	117	PHRD	TVAM	4470010	(2,702.02)	(112,584.00)
3	2018	117	PHRT	AMRX2	4470010	(8.63)	0.00
3	2018	117	PHRT	APBE2	4470010	0.00	0.00
3	2018	117	PHRT	ICET2	4470010	(61.49)	0.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
3	2018	117	PHRT	IVGE2	4470010	0.00	0.00
3	2018	117	PHRT	TFSF2	4470010	(8.24)	0.00
3	2018	117	PICT	AMRX2	4470010	(349.63)	0.00
3	2018	117	PICT	APBE2	4470010	(559.03)	0.00
3	2018	117	PICT	BGCF2	4470010	(105.28)	0.00
3	2018	117	PICT	EVOF2	4470010	(578.91)	0.00
3	2018	117	PICT	ICET2	4470010	(18.39)	0.00
3	2018	117	PICT	IVGE2	4470010	(185.35)	0.00
3	2018	117	PICT	MISO	4470010	(4.56)	0.00
3	2018	117	PICT	PREE2	4470010	(305.70)	0.00
3	2018	117	PICT	TFSF2	4470010	(7.06)	0.00
3	2018	117	PICT	TRED2	4470010	(71.79)	0.00
3	2018	117	PSHD	AMRX2	4470010	(100.70)	0.00
3	2018	117	PSHD	APBE2	4470010	(10.98)	0.00
3	2018	117	PSHD	EVOF2	4470010	(54.13)	0.00
3	2018	117	PSHD	IVGE2	4470010	(70.61)	0.00
3	2018	117	PSHD	PREE2	4470010	0.00	0.00
3	2018	117	PSHD	TFSF2	4470010	(16.01)	0.00
					<b>4470010 Total</b>	(287,210.13)	
3	2018	117	KBRA	RBCC2	4470081	(184.78)	0.00
3	2018	117	KSHD	RBCC2	4470081	3,279.77	0.00
					<b>4470081 Total</b>	3,094.99	
3	2018	117	PEQT	RBCC2	4470082	2,006.83	0.00
3	2018	117	PHRT	MSUI2	4470082	(23.56)	0.00
3	2018	117	PHRT	RBCC2	4470082	(464.05)	0.00
3	2018	117	PICT	MSUI2	4470082	(33,693.12)	0.00
3	2018	117	PICT	RBCC2	4470082	(43,111.65)	0.00
3	2018	117	PICT	WVPA	4470082	(3,096.52)	0.00
3	2018	117	PSHD	MSUI2	4470082	31,742.14	0.00
3	2018	117	PSHD	RBCC2	4470082	(39,916.39)	0.00
					<b>4470082 Total</b>	(86,556.32)	
3	2018	117		PJM	4470089	(35,410.99)	0.00
					<b>4470089 Total</b>	(35,410.99)	
3	2018	117		PJM	4470098	280.76	0.00
3	2018	117		PJM	4470098	(1,607.50)	0.00
					<b>4470098 Total</b>	(1,326.74)	
3	2018	117		PJM	4470099	81,717.24	0.00
3	2018	117		PJM	4470099	62,647.06	0.00
					<b>4470099 Total</b>	144,364.30	
3	2018	117		PJM	4470100	(99.68)	0.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
					<b>4470100 Total</b>	(99.68)	
3	2018	117		PJM	4470103	487,459.25	14,805,527.00
					<b>4470103 Total</b>	487,459.25	
3	2018	117		PJM	4470107	0.62	0.00
					<b>4470107 Total</b>	0.62	
3	2018	117		PJM	4470110	0.01	0.00
					<b>4470110 Total</b>	0.01	
3	2018	117	PHHS	DLPM	4470112	154.03	3,000.00
3	2018	117	PHHS	DPLG	4470112	23.60	0.00
					<b>4470112 Total</b>	177.63	
3	2018	117		PJM	4470115	5,086.44	0.00
					<b>4470115 Total</b>	5,086.44	
3	2018	117		PJM	4470126	(425.71)	0.00
3	2018	117		PJM	4470126	(3,912.61)	0.00
					<b>4470126 Total</b>	(4,338.32)	
3	2018	117		PJM	4470131	485.02	0.00
3	2018	117		PJM	4470131	218.13	0.00
3	2018	117		PJM	4470131	(3.69)	0.00
3	2018	117		PJM	4470131	(0.63)	0.00
3	2018	117		PJM	4470131	(10.89)	0.00
					<b>4470131 Total</b>	687.94	
3	2018	117	SHHS	RBCC2	4470143	42.13	0.00
3	2018	117	PHHS	AMRX2	4470143	0.00	0.00
3	2018	117	PHHS	APBE2	4470143	0.00	0.00
3	2018	117	PHHS	ICET2	4470143	(2.27)	0.00
3	2018	117	PHHS	IVGE2	4470143	0.00	0.00
3	2018	117	PHHS	MSUI2	4470143	23.76	0.00
3	2018	117	PHHS	RBCC2	4470143	(79.12)	0.00
					<b>4470143 Total</b>	(15.50)	
3	2018	117			4470171	(358,270.09)	0.00
					<b>4470171 Total</b>	(358,270.09)	
3	2018	117	Physical	NASIA	4470175	(217,275.69)	0.00
3	2018	117	Trading	NASIA	4470175	24,707.81	0.00
					<b>4470175 Total</b>	(192,567.88)	
3	2018	117	Physical	NASIA	4470176	217,275.69	0.00
3	2018	117	Trading	NASIA	4470176	(24,707.81)	0.00
					<b>4470176 Total</b>	192,567.88	
3	2018	117		PJM	4470206	1,939.59	0.00
					<b>4470206 Total</b>	1,939.59	
3	2018	117		PJM	4470209	(529.40)	0.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
3	2018	117		PJM	4470209	(7,022.28)	0.00
					<b>4470209 Total</b>	(7,551.68)	
3	2018	117		PJM	4470214	75.16	0.00
					<b>4470214 Total</b>	75.16	
3	2018	117		PJM	4470215	(66.65)	0.00
					<b>4470215 Total</b>	(66.65)	
3	2018	117		PJM	4470220	3,642.94	0.00
					<b>4470220 Total</b>	3,642.94	
3	2018	117		PJM	5550039	25.97	0.00
					<b>5550039 Total</b>	25.97	
3	2018	110		PJME2	5570007	(23.00)	(5,750.00)
					<b>5570007 Total</b>	(23.00)	
3	2018	117		PJM	5614000	0.00	0.00
3	2018	117		PJM	5614000	0.00	0.00
3	2018	117		PJM	5614000	(2,657.59)	0.00
					<b>5614000 Total</b>	(2,657.59)	
3	2018	180		PJM	5614008	0.00	0.00
					<b>5614008 Total</b>	0.00	
3	2018	117		PJM	5618000	0.00	0.00
3	2018	117		PJM	5618000	0.00	0.00
3	2018	117		PJM	5618000	(823.78)	0.00
3	2018	117		PJM	5618000	(8.35)	0.00
					<b>5618000 Total</b>	(832.13)	
3	2018	117		PJM	5757000	0.00	0.00
3	2018	117		PJM	5757000	(0.59)	0.00
3	2018	117		PJM	5757000	(2,045.22)	0.00
3	2018	117		PJM	5757000	(269.94)	0.00
					<b>5757000 Total</b>	(2,315.75)	
<b>March Grand Total</b>						172,225.08	

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
4	2018	117		OHPA2	4470001	22,140.18	438,705.80
					<b>4470001 Total</b>	22,140.18	
4	2018	117		NASIA	4470006	0.00	0.00
4	2018	117		PJM	4470006	19,825.29	554,096.00
4	2018	117	0		4470006	(42.21)	0.00
4	2018	117	NEQT	DEOI2	4470006	115,488.20	2,358,000.00
4	2018	117	PEQT	AMRX2	4470006	(64.43)	0.00
4	2018	117	PEQT	PREE2	4470006	(301.27)	0.00
4	2018	117	PHRT	IVGE2	4470006	0.00	0.00
4	2018	117	PHRT	PREE2	4470006	(8.63)	0.00
4	2018	117	PICT	AMRX2	4470006	(291.66)	0.00
4	2018	117	PICT	APBE2	4470006	(507.02)	0.00
4	2018	117	PICT	BGCF2	4470006	(42.76)	0.00
4	2018	117	PICT	DEOI2	4470006	49,177.73	1,048,000.00
4	2018	117	PICT	DPLG	4470006	51,574.88	1,004,000.00
4	2018	117	PICT	EVOF2	4470006	(204.63)	0.00
4	2018	117	PICT	IVGE2	4470006	(152.40)	0.00
4	2018	117	PICT	PREE2	4470006	(1,306.58)	0.00
4	2018	117	PICT	SPSR2	4470006	(3.45)	0.00
4	2018	117	PICT	TFSF2	4470006	(367.55)	0.00
4	2018	117	PICT	TRED2	4470006	(174.96)	0.00
4	2018	117	PSHD	AMRX2	4470006	(17.26)	0.00
4	2018	117	PSHD	APBE2	4470006	0.00	0.00
4	2018	117	PSHD	DLPM	4470006	1,783.23	0.00
4	2018	117	PSHD	EVOF2	4470006	(163.89)	0.00
4	2018	117	PSHD	IVGE2	4470006	0.00	0.00
4	2018	117	PSHD	PREE2	4470006	(7.85)	0.00
4	2018	117	PSHD	SPSR2	4470006	(3.92)	0.00
4	2018	117	PSHD	TFSF2	4470006	(8.63)	0.00
					<b>4470006 Total</b>	234,180.23	
4	2018	117		ICET2	4470010	(693.13)	0.00
4	2018	117		PJM	4470010	(3.68)	0.00
4	2018	117		PJM	4470010	(54,312.58)	(580,432.00)
4	2018	117		PJM	4470010	(194,214.30)	(2,032,630.00)
4	2018	117		PJM	4470010	(2,327.08)	(48,512.19)
4	2018	117		PJM	4470010	(398.68)	(7,349.86)
4	2018	117		PJM	4470010	(0.01)	0.00
4	2018	117		PJM	4470010	(28.41)	0.00
4	2018	117	PEQT	AMRX2	4470010	(64.43)	0.00
4	2018	117	PHRD	TVAM	4470010	(16,005.03)	(573,710.00)

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
4	2018	117	PHRT	AMRX2	4470010	0.00	0.00
4	2018	117	PHRT	APBE2	4470010	(9.02)	0.00
4	2018	117	PHRT	ICET2	4470010	(64.82)	0.00
4	2018	117	PHRT	TFSF2	4470010	0.00	0.00
4	2018	117	PICT	AMCP2	4470010	(337.16)	0.00
4	2018	117	PICT	AMRX2	4470010	(488.42)	0.00
4	2018	117	PICT	APBE2	4470010	(671.88)	0.00
4	2018	117	PICT	BGCF2	4470010	(17.26)	0.00
4	2018	117	PICT	EVOF2	4470010	(174.04)	0.00
4	2018	117	PICT	ICET2	4470010	(18.39)	0.00
4	2018	117	PICT	IVGE2	4470010	(165.74)	0.00
4	2018	117	PICT	PREE2	4470010	(419.09)	0.00
4	2018	117	PICT	TFSF2	4470010	(212.52)	0.00
4	2018	117	PICT	TRED2	4470010	0.00	0.00
4	2018	117	PSHD	AMRX2	4470010	(8.63)	0.00
4	2018	117	PSHD	APBE2	4470010	0.00	0.00
4	2018	117	PSHD	EVOF2	4470010	(163.89)	0.00
4	2018	117	PSHD	IVGE2	4470010	0.00	0.00
4	2018	117	PSHD	PREE2	4470010	(69.83)	0.00
4	2018	117	PSHD	SPSR2	4470010	(11.77)	0.00
4	2018	117	PSHD	TFSF2	4470010	0.00	0.00
					<b>4470010 Total</b>	(270,879.79)	
4	2018	117	KBRA	RBCC2	4470081	(261.59)	0.00
4	2018	117	KSHD	RBCC2	4470081	(14,151.91)	0.00
					<b>4470081 Total</b>	(14,413.50)	
4	2018	117	PEQT	MSUI2	4470082	(625.20)	0.00
4	2018	117	PEQT	RBCC2	4470082	(1,963.44)	0.00
4	2018	117	PHRT	MSUI2	4470082	1,828.58	0.00
4	2018	117	PHRT	RBCC2	4470082	2,491.54	0.00
4	2018	117	PICT	MSUI2	4470082	(14,895.05)	0.00
4	2018	117	PICT	RBCC2	4470082	(72,778.58)	0.00
4	2018	117	PICT	WVPA	4470082	(7,323.38)	0.00
4	2018	117	PSHD	MSUI2	4470082	7,802.80	0.00
4	2018	117	PSHD	RBCC2	4470082	(15,013.59)	0.00
					<b>4470082 Total</b>	(100,476.32)	
4	2018	117		NASIA	4470089	0.00	0.00
4	2018	117		PJM	4470089	8,344.86	0.00
					<b>4470089 Total</b>	8,344.86	
4	2018	117		NASIA	4470098	0.00	0.00
4	2018	117		PJM	4470098	6.50	0.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
4	2018	117		PJM	4470098	(849.68)	0.00
					<b>4470098 Total</b>	(843.18)	
4	2018	117		NASIA	4470099	0.00	0.00
4	2018	117		PJM	4470099	79,081.20	0.00
4	2018	117		PJM	4470099	60,626.19	0.00
					<b>4470099 Total</b>	139,707.39	
4	2018	117		NASIA	4470100	0.00	0.00
4	2018	117		PJM	4470100	(1,399.60)	0.00
					<b>4470100 Total</b>	(1,399.60)	
4	2018	117		NASIA	4470103	0.00	0.00
4	2018	117		PJM	4470103	523,495.22	15,616,964.00
					<b>4470103 Total</b>	523,495.22	
4	2018	117		PJM	4470107	0.69	0.00
					<b>4470107 Total</b>	0.69	
4	2018	117		PJM	4470110	0.04	0.00
					<b>4470110 Total</b>	0.04	
4	2018	117		NASIA	4470112	0.00	0.00
4	2018	117	PHHS	DLPM	4470112	60,092.65	1,159,000.00
4	2018	117	PHHS	DPLG	4470112	7,584.18	147,000.00
					<b>4470112 Total</b>	67,676.83	
4	2018	117		NASIA	4470115	0.00	0.00
4	2018	117		PJM	4470115	23.35	0.00
					<b>4470115 Total</b>	23.35	
4	2018	117		PJM	4470126	1,539.16	0.00
					<b>4470126 Total</b>	1,539.16	
4	2018	117		PJM	4470131	47.92	0.00
4	2018	117		PJM	4470131	(53,248.39)	(667,691.00)
4	2018	117		PJM	4470131	15.10	0.00
4	2018	117		PJM	4470131	(11,801.64)	(184,776.00)
4	2018	117		PJM	4470131	(7,581.31)	(112,001.00)
4	2018	117		PJM	4470131	(22,815.07)	(388,088.00)
					<b>4470131 Total</b>	(95,383.39)	
4	2018	117	PHHS	AMRX2	4470143	(130.97)	0.00
4	2018	117	PHHS	APBE2	4470143	(33.98)	0.00
4	2018	117	PHHS	EVOF2	4470143	(37.13)	0.00
4	2018	117	PHHS	ICET2	4470143	(1.70)	0.00
4	2018	117	PHHS	IVGE2	4470143	(161.89)	0.00
4	2018	117	PHHS	MSUI2	4470143	(698.80)	0.00
4	2018	117	PHHS	PREE2	4470143	(13.33)	0.00
4	2018	117	PHHS	RBCC2	4470143	(19,407.24)	0.00

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
					<b>4470143 Total</b>	(20,485.04)	
4	2018	117	Physical	NASIA	4470175	1,962,805.67	0.00
4	2018	117	Trading	NASIA	4470175	(2,467,760.77)	0.00
					<b>4470175 Total</b>	(504,955.10)	
4	2018	117	Physical	NASIA	4470176	(1,962,805.67)	0.00
4	2018	117	Trading	NASIA	4470176	2,467,760.77	0.00
					<b>4470176 Total</b>	504,955.10	
4	2018	117		PJM	4470206	280.56	0.00
					<b>4470206 Total</b>	280.56	
4	2018	117		PJM	4470209	(1,161.82)	0.00
					<b>4470209 Total</b>	(1,161.82)	
4	2018	117		NASIA	4470214	0.00	0.00
4	2018	117		PJM	4470214	0.00	0.00
					<b>4470214 Total</b>	0.00	
4	2018	117		NASIA	4470215	0.00	0.00
4	2018	117		PJM	4470215	786.27	0.00
					<b>4470215 Total</b>	786.27	
4	2018	117		NASIA	4470220	0.00	0.00
4	2018	117		PJM	4470220	0.00	0.00
					<b>4470220 Total</b>	0.00	
4	2018	117		NASIA	4470221	0.00	0.00
					<b>4470221 Total</b>	0.00	
4	2018	117		PJM	5550039	19.73	0.00
					<b>5550039 Total</b>	19.73	
4	2018	110		EVOL2	5570007	(12.75)	(50.00)
4	2018	110		PJME2	5570007	(17.69)	(4,423.00)
					<b>5570007 Total</b>	(30.44)	
4	2018	117		PJM	5614000	0.00	0.00
4	2018	117		PJM	5614000	(2,822.39)	0.00
					<b>5614000 Total</b>	(2,822.39)	
4	2018	180		PJM	5614008	0.00	0.00
					<b>5614008 Total</b>	0.00	
4	2018	117		PJM	5618000	0.00	0.00
4	2018	117		PJM	5618000	(648.19)	0.00
4	2018	117		PJM	5618000	(10.77)	0.00
					<b>5618000 Total</b>	(658.96)	
4	2018	117		PJM	5757000	0.00	0.00
4	2018	117		PJM	5757000	0.99	0.00
4	2018	117		PJM	5757000	(2,001.57)	0.00
4	2018	117		PJM	5757000	(258.54)	0.00



Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
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**5757000 Total** (2,259.12)

**April Grand Total** 487,380.96

**KPSC Case No. 2018-00216**  
**Commission Staff's First Set of Data Requests**  
**Dated August 10, 2018**

**DATA REQUEST**

- 1-14 Describe the effect on the FAC calculation of line losses related to:
- a. intersystem sales when using a third-party transmission system, and
  - b. intersystem sales when not using a third-party transmission system.

**RESPONSE**

a. Beginning on June 1, 2007, based on FERC Order EL06-055, PJM modified the Locational Marginal Pricing (LMP) approach to calculate transmission line loss costs on a marginal basis. The LMP calculation reflects the full marginal cost of serving an increment of load at each bus from each resource associated with an eligible energy offer. The LMP price will be the sum of three separate components: System Energy Price, Congestion Price and Loss Price. Therefore, each spot market energy customer pays an energy price that includes the full marginal cost of energy for delivering an increment of energy to the purchaser's location. Market buyers are assessed for their incremental impact on transmission line losses resulting from total load scheduled to be served from the PJM Spot Energy Market in the day-ahead energy market at the same day-ahead loss price applicable at the relevant load bus.

Market sellers are assessed for their incremental impact on transmission line losses resulting from energy scheduled for delivery in the day-ahead market at the day-ahead loss prices applicable to the relevant resource bus.

Transactions are balanced in the real-time market using the same calculation, but are based on deviation at each bus from the day-ahead using the real time loss price.

b. Kentucky Power conducts intersystem sales through its participation in the PJM wholesale markets.

Witness: Matthew A. Horeled

**KPSC Case No. 2018-00216**  
**Commission Staff's First Set of Data Requests**  
**Dated August 10, 2018**

**DATA REQUEST**

1-15                      Provide a list, in chronological order, showing by unit, any scheduled, actual, and forced outages for the period under review.

**RESPONSE**

For a list of the Company's generating units' outages during the period under review, please see KPCO\_R\_KPSC\_1\_15\_Attachment\_1.

Witness:              David L. Mell  
                             Russel W. Gwin

**Kentucky Power Company  
 Fuel Adjustment Clause 2018-00216  
 Generating Unit Outages  
 November 1, 2017 - April 30, 2018**

Unit Name	Event Type*	Start Date	End Date	Description
Big Sandy 1	MO	11/15/2017 1:07	12/2/2017 14:25	Startup steam RV-1 piping repair.
Big Sandy 1	FO	12/18/2017 13:30	12/28/2017 1:42	Waterwall tube leak repair.
Big Sandy 1	MO	1/19/2018 15:26	1/23/2018 0:00	Boiler leak check.
Big Sandy 1	FO	1/30/2018 13:19	2/3/2018 6:02	Waterwall tube leak repair.
Big Sandy 1	MO	2/6/2018 1:31	2/8/2018 10:00	Boiler leak check.
Big Sandy 1	MO	2/28/2018 0:00	3/3/2018 0:00	Pre-outage work.
Big Sandy 1	PO	3/3/2018 0:00	6/5/2018 0:00	General maintenance including HP Turbine i/r, IP/SFLP turbine i/r, warranty i/r from Mitsubishi upgrade.
Mitchell 1	MO	1/10/2018 2:03	1/16/2018 1:09	Remove clinker on lower slope & boiler i/r.
Mitchell 1	FO	1/16/2018 18:00	1/16/2018 20:13	Startup failure due to main turbine valve hydraulic issue.
Mitchell 1	MO	1/25/2018 1:56	2/2/2018 6:15	Main turbine #11 bearing vibration running at 13.8 mils.
Mitchell 1	FO	2/2/2018 6:15	2/3/2018 18:24	ARV 542 failure.
Mitchell 1	MO	2/15/2018 0:00	2/15/2018 9:20	Boiler i/r.
Mitchell 1	PO	3/1/2018 0:00	4/28/2018 11:39	SCR catalyst change out, general maintenance including turbine/boiler i/r, coal silo inspections, pulverizer i/r, and coal feeder i/r.
Mitchell 1	FO	4/28/2018 11:39	4/28/2018 21:32	#12 ID fan pitch blades stuck open @ 25%.
Mitchell 2	MO	12/17/2017 1:59	12/22/2017 16:11	#22 ID fan hydraulic oil leak repair, coal pipe repair, boiler i/r, #7 main turbine bearing oil leak repair, #2 control valve solenoid replacement, and #1 RH stop valve i/r.
Mitchell 2	PO	3/3/2018 0:15	5/3/2018 10:00	General maintenance including generator field removal and i/r, main turbine control valve i/r, generator field inspection, precipitator roof bay replacements, precipitator PLC upgrade, and coal handling PLC upgrade.

**Event Type\***

- FO Forced Outage
- MO Maintenance Outage
- PO Planned Outage

**Note:** i/r = inspection and repair

**KPSC Case No. 2018-00216**  
**Commission Staff's First Set of Data Requests**  
**Dated August 10, 2018**

**DATA REQUEST**

1-16                      For the period under review, provide the monthly capacity factor at which each generating unit operated.

**RESPONSE**

For the period under review, please see KPCO\_R\_KPSC\_1\_16\_Attachment\_1 for the monthly capacity factor of each of the Company's generating units.

Witness:                David L. Mell  
                             Russel W. Gwin

<b>Kentucky Power Company Fuel Adjustment Clause 2018-00216 Generating Unit Net Capacity Factor [%] November 1, 2017 - April 30, 2018</b>			
	<b>Big Sandy 1</b>	<b>Mitchell 1</b>	<b>Mitchell 2</b>
<b>November</b>	27.0	68.9	72.0
<b>December</b>	24.4	72.8	56.9
<b>January</b>	45.2	44.8	81.8
<b>February</b>	3.3	24.3	68.0
<b>March</b>	0.0	0.0	4.5
<b>April</b>	0.0	5.4	0.0

**KPSC Case No. 2018-00216**  
**Commission Staff's First Set of Data Requests**  
**Dated August 10, 2018**

**DATA REQUEST**

1-17

- a. For the period under review, explain if Kentucky Power made any changes to its maintenance and operation practices, or completed any specific generation efficiency improvements that affect fuel usage at Kentucky Power's generation facilities.
- b. Describe the impact of these changes on Kentucky Power's fuel usage.

**RESPONSE**

For the period under review, the Company has not made any changes to its maintenance and operations practices, or completed any specific generation efficiency improvements that affect fuel usage at its generation facilities.

Witness:       David L. Mell  
                  Russel W. Gwin

**KPSC Case No. 2018-00216**  
**Commission Staff's First Set of Data Requests**  
**Dated August 10, 2018**

**DATA REQUEST**

1-18                      State whether Kentucky Power is aware of any violations of its policies and procedures regarding fuel procurement that occurred prior to or during the period under review.

**RESPONSE**

Kentucky Power is not aware of any violations of its policies and procedures regarding fuel procurement that occurred prior to or during the review period.

Witness:              Clinton M. Stutler  
                             Amy E. Jeffries



**KPSC Case No. 2018-00216**  
**Commission Staff's First Set of Data Requests**  
**Dated August 10, 2018**

**DATA REQUEST**

1-19                      State whether Kentucky Power is aware of any violations of 807 KAR 5:056 that occurred prior to or during the period under review.

**RESPONSE**

Kentucky Power is not aware of any violations of 807 KAR 5:056 not previously disclosed that occurred prior to or during the period under review.

Witness:                Matthew A. Horeled

**KPSC Case No. 2018-00216**  
**Commission Staff's First Set of Data Requests**  
**Dated August 10, 2018**

**DATA REQUEST**

1-20                      State whether all fuel contracts related to commodity and transportation have been filed with the Commission. If any contracts have not been filed, explain why they have not been filed and provide a copy.

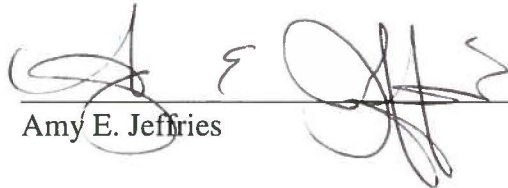
**RESPONSE**

Kentucky Power has filed all fuel contracts related to commodity and transportation with the Commission.

Witness:                Matthew A. Horeled

**VERIFICATION**

The undersigned, Amy E. Jeffries, being duly sworn, deposes and says he is the Natural Gas Manager for American Electric Power, that he has personal knowledge of the matters set forth in the foregoing responses and the information contained therein is true and correct to the best of his information, knowledge, and belief.

  
\_\_\_\_\_  
Amy E. Jeffries

State of Ohio                    )  
  )  
County of Franklin            )

Case No. 2018-00216

Subscribed and sworn before me, a Notary Public, by Amy E. Jeffries this 22nd day of August, 2018.

  
\_\_\_\_\_  
Notary Public

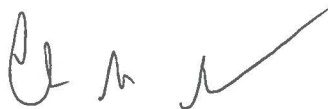
My Commission Expires January 4, 2019



**Donna J. Stephens**  
Notary Public, State of Ohio  
My Commission Expires 01-04-2019

**VERIFICATION**

The undersigned, Clinton M. Stutler, being duly sworn, deposes and says he is the Natural Gas & Fuel Oil Manager for American Electric Power, that he has personal knowledge of the matters set forth in the foregoing responses and the information contained therein is true and correct to the best of his information, knowledge, and belief.



\_\_\_\_\_  
Clinton M. Stutler

State of Ohio )

County of Franklin )

) Case No. 2018-00216  
)

Subscribed and sworn before me, a Notary Public, by Clinton M. Stutler this 20th day of August, 2018.



\_\_\_\_\_  
Notary Public

My Commission Expires January 4, 2019



**Donna J. Stephens**  
Notary Public, State of Ohio  
My Commission Expires 01-04-2019

**VERIFICATION**

The undersigned, Matthew A. Horeled, being duly sworn, deposes and says he is the Director of Regulatory Services for Kentucky Power, that he has personal knowledge of the matters set forth in the foregoing responses and the information contained therein is true and correct to the best of his information, knowledge, and belief.

Matthew A. Horeled  
Matthew A. Horeled

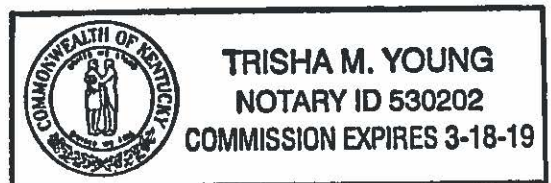
Commonwealth of Kentucky )  
  )  
County of Boyd )

Case No. 2018-00216

Subscribed and sworn before me, a Notary Public, by Matthew A. Horeled this 22<sup>nd</sup> day of August, 2018.

Trisha M. Young Blum  
Notary Public

My Commission Expires 3-18-19



VERIFICATION

The undersigned, Russel W. Gwin, being duly sworn, deposes and says he is a Maintenance Superintendent Sr. – Mitchell for Kentucky Power Company, that he has personal knowledge of the matters set forth in the foregoing responses and the information contained therein is true and correct to the best of his information, knowledge, and belief.

Russel W. Gwin  
Russel W. Gwin

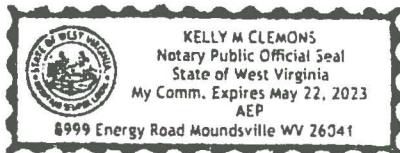
State of West Virginia )  
County of Marshall )

Case No. 2018-00216

Subscribed and sworn before me, a Notary Public, by Russel W. Gwin this 21 day of August, 2018.

Kelly M. Clemens  
Notary Public

My Commission Expires May 22, 2023



**VERIFICATION**

The undersigned, David L. Mell, being duly sworn, deposes and says he is Energy Production Superintendent – Big Sandy for Kentucky Power Company, that he has personal knowledge of the matters set forth in the foregoing responses and the information contained therein is true and correct to the best of his information, knowledge, and belief.

*David L. Mell*

David L. Mell

Commonwealth of Kentucky )  
County of Boyd )

Case No. 2018-00216

Subscribed and sworn before me, a Notary Public, by David L. Mell this 17<sup>th</sup> day of August, 2018.

*Alicia K. Frasher*

Notary Public

My Commission Expires 03-21-21